



FMIS 5.0

State Preparation Guide

FHWA IT Services

05/30/2014

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Introduction

The purpose of this document is to provide States with all information that is required in order to prepare for the FMIS 5.0 release, which will be implemented for the start of FY 2015. As such, the scope of this document includes the following topics:

- Project agreement data changes verses FMIS-4 (current production FMIS)
- Instructions for relocating National Bridge Inventory (NBI) number from Project Header to the Detail line
- Electronic Data Sharing (EDS) instructions required for States to upload data to and download data from FMIS.
- Current Bill instructions required for States to send reimbursement requests to FMIS and to approve them. Note that FMIS 5 does not make payments to States. Once a reimbursement request is approved by FHWA in FMIS, it is sent to the DOT Delphi accounting system so that payment to the State can be made.

Audience

This document is intended for use by all States. Sections which discuss Electronic Data Sharing (EDS) should be of interest to States which upload or download project agreement data from FMIS, or plan to do so in the future.

This document also should be of interest to Division personnel who have a FMIS project oversight role.

Future changes to this document

This document is subject to change as the FMIS 5.0 project progresses. If a revision to the document becomes necessary, it will be distributed to the States via the FHWA Division offices. The latest version of the document can be accessed via the FMIS modernization link on the FMIS User News and Information web site (FUNI). The FUNI site is available as an option on the Help menu in production FMIS.

The purpose of revisions will be to improve the document's usability in response to comments from the field, as well as to make technical changes, which are expected to be minor if they occur.

Basis for Adding Geospatial Reference to Project Detail

The FHWA is issuing this guidance to clarify the type of information needed from the States to satisfy the requirements of 23 CFR Part 630.108. 23 CFR Part 630.108(b) states that, "The STD [State Transportation Department] may develop the project agreement in a format acceptable to both the STD and the FHWA provided the following are included: (1) A description of each project location including State and project termini; (2) The Federal-aid project number; (3) The work covered by the agreement." Note that the term 'guidance' refers to the agency's statement of general applicability—it provides advice and assistance to address the concerns arising from statutory, regulatory, policy, or technical issues; agency-wide guidance is provided to facilitate to decision-making process as a tool to help realize the expected program

outcome. Technical advisories and memorandums are the most common forms of communication to transmit such guidance and can be both internal and external.

Pursuant to the aforementioned regulation, each State DOT must now submit geospatial data (for each project location). The collection of geospatial data is necessary as USDOT transitions to the performance and outcome based-program created by P.L. 112-141 Moving Ahead for Progress in the 21st Century Act (MAP-21).

MAP-21. Geospatial project location facilitates performance based management in the following ways:

- It allows analysis of relationships between safety-related investment and accident incidence down to the level of the individual highway corridor.
- It allows analysis of relationships between infrastructure spending and roadway performance down to the level of the individual highway corridor.
- Data quality regarding the location of infrastructure investments is improved, which improves the accuracy of performance measures which rely on such data. Location and roadway related data will be derived on the State's behalf from route ID and beginning and ending mile points using a standard, automated methodology. This is in contrast to the current situation, where States provide such data by various methods without any verifiable linkage to the physical location of the project. Project Statistics that will be automatically derived rather than State-supplied include:
 - County
 - Congressional district
 - Urbanized Area
 - Functional System
 - Ownership
 - System Code
 - Urban or Rural

Note: Urbanized Area is the subject of a future change to FMIS. Please see "Urbanized Area" in Appendix F.

The collection of geospatial data is consistent with 23 CFR Part 630.108(b)(1) as this type of data is part of the description of the project location which includes the project termini. Additionally, geospatial data also fits the requirements of the "work covered by the agreement" as the project agreement for each *Federal-aid project comprises spending and work data for individual roadways which can be readily discerned* with the addition of the geospatial data.

Basis for Placing NBI Number on Project Detail

The Department of Transportation Office of the Inspector General (OIG) report number MH-2010-039, dated January 14, 2010, identified weaknesses in FHWA systems' ability to trace funding to individual bridges. The report made recommendations to address the weaknesses, to which, the FHWA Administrator concurred.

Footnote 16 of the OIG report correctly states that the design of current FMIS was not intended to attribute expenditures or obligations to individual bridges. As such, FMIS-4 allows multiple bridges to be tied to the same project, improvement type, and program code, without providing the means to determine the proportion of project funds that go to one bridge versus another.

The FMIS 5.0 addresses the above audit finding by placing NBI number on the project detail line, where each NBI number can be linked directly to obligations.

State Preparation Steps for FMIS Modernization

A State may choose to use any combination of the following FMIS capabilities in accordance with its needs. The narrative below recommends general steps that States may need to perform in preparation for using one of the following capabilities:

- Direct Key of Project Agreement data using FMIS screens
- EDS Upload to FMIS
- EDS Download From FMIS
- Current Bill Upload to FMIS

Preparation for Direct Key of Project Agreement data using FMIS screens

Direct Key refers both to States that enter project data into FMIS, as well as States where Division personnel enter project data on the State's behalf. Such States would need to take the following steps plus any other steps that are unique to their location:

1. Review the following sections of this document to assess requirements:
 - a. Project Agreement Process Overview,
 - b. Project Agreement Change Summary, and
 - c. National Bridge Inventory (NBI) relocation instructions.
2. Assess the impact of the project agreement changes on State software and business processes. For example, the impact of adding geospatial data to project detail lines may include:
 - a. Staff with geospatial knowledge may need to contribute location data to the project agreement.
 - b. Documents describing how to supply data to FMIS may need to be changed.
 - c. The State's repository of project descriptions may need to be changed to carry the geospatial data.
3. Revise impacted documentation, procedures and software as needed.
4. If needed, provide an NBI relocation spreadsheet per the (NBI) relocation instructions.
5. Verify successful preparation by engaging revised software, revised written procedures, business processes, and personnel in entering a sample of your State's project data into the FMIS modernization test environment (available in May 2014). Revise and re-verify as needed.

Preparation for EDS Upload to FMIS

This section covers preparation steps for upload of project data from the State to FMIS as well as processing of messages that result from successful or erroneous upload. States that will utilize EDS upload need to take the following steps plus any other steps that are unique to their location:

1. Review the following sections of this document to assess requirements
 - a. Project Agreement Process Overview
 - b. Project Agreement Change Summary

- c. National Bridge Inventory (NBI) relocation instructions
 - d. New EDS File Format
 - e. Appendix A - List of Valid Codes
2. Assess the impact of the project agreement changes on State software and business processes. Examples: The possible impacts of adding geospatial data to project detail lines may include:
 - a. Staff with geospatial knowledge may need to contribute location data to the project agreement.
 - b. Documents describing how to supply data to FMIS may need to be changed.
 - c. The State's repository of project descriptions may need to be changed to carry the geospatial data
 - d. EDS software will need to be changed to supply data in XML format
 - e. EDS software may need to be changed to interact with the State's geospatial repository.
3. Revise impacted documentation, procedures and software as needed.
4. If needed, provide an NBI relocation spreadsheet per the (NBI) relocation instructions.
5. Verify successful preparation by engaging revised software, written procedures, business processes, and personnel in uploading a sample of your State's project data into the FMIS modernization test environment (available in May). The sample transactions should be as representative as possible of the various types of project transactions that your State will be processing in FY 2015. Revise and re-verify as needed.
6. No State can send files electronically to the production environment before a Memorandum of Understanding (MOU) has been approved by both the State and the FMIS System Owner. FHWA IT Services will follow up with EDS States during the summer of 2014 to provide guidance in regard to the content of the MOU, and to assure that an approved MOU is place for each EDS upload State.

Preparation for EDS Download of Project Data from FMIS

This section covers preparation steps for download of project data from FMIS to the State. States that will utilize EDS download need to take the following steps plus any other steps that are unique to their location:

1. Review the following sections of this document to assess requirements:
 - a. Project Agreement Process Overview
 - b. Project Agreement Change Summary
 - c. Electronic Data Sharing Download to FMIS
 - d. Project Data Download Format
 - e. Appendix A - List of Valid Codes
2. Assess the impact of the project agreement changes on State software and business processes. Example: EDS download software will need to be changed to process data in XML format
3. Revise impacted documentation, procedures and software as needed.
4. Verify successful preparation by engaging revised software, revised written procedures, business processes, and personnel in downloading a sample of your State's project data from the FMIS modernization test environment (available in May 2014). The sample transactions should be as

representative as possible of the various types project transactions that your State will be processing in FY 2015. Note that Division signature personnel may be needed to assist with these tests, since EDS download only includes projects that have been fully signed by the Division.

State Preparation for Current Bill Upload

This section covers preparation steps for upload of current bill from the State to FMIS. States need to take the following steps plus any other steps that are unique to their location:

1. Review the following sections to assess requirements:
 - a. Current Bill Change Summary
 - b. Current Bill Data Upload Format
 - c. Current Bill Response File Format
 - d. Current Bill Error File Format
2. Assess the impact of the current bill project agreement changes on State software. Example: Current bill software will need to format files in pipe-delimited format rather than fixed format.
3. Verify successful preparation by engaging revised software, written procedures, business processes, and personnel in uploading a sample of your State's current bill data to the FMIS modernization test environment (available in May 2014). The sample transactions should be as representative as possible of the various types of current bill transactions that your State will be processing in FY 2015.

Project Agreement Process Overview

The FMIS 5.0 Project agreement process follows the same basic steps as that of FMIS 4.0:

- A Pending project is created by entering project agreement data using FMIS screens or transmittal of the same via Electronic Data Sharing (EDS). The pending project may be a new agreement or a modification of an existing agreement.
- Review and signature of the pending project by one to three State signatories.
- Review and signature of the pending project by one to three Division signatories.
- Obligations associated with the project are approved following final Division signature, and the pending project becomes a "Current" project.

Although the FMIS 5.0 basic project agreement process is unchanged from FMIS 4.0, there are changes to the required statistics for each agreement, which are described in the Project Agreement Change Summary.

Project Agreement Change Summary

Purpose: The purpose of this section is to describe all changes that will be made to the project agreement data in FMIS as a result of the FMIS modernization. Changes will be implemented for the start of FY 2015. This section consists of the Data Change Summary, followed by a Geospatial Capabilities section. The Geospatial Capabilities section provides detailed rules for defining project detail location using each State’s Linear Reference System (LRS).

Data Change Summary

	Data Change Description	Background
1.	“State” has been relabeled to be “Recipient”.	This change was made to accommodate a possible increase in Federal-aid recipients that are not State Department of Transportation.
2.	<p>Project Detail Location shall be carried on the project detail line as Route ID from the State’s Linear Reference System (LRS), along with beginning and ending mile points for that Route ID. Multiple Route IDs are allowed within the same detail line.</p> <p>Validation of Route ID and mile points will rely on geospatial data that is submitted to the Office of Policy on an annual basis for Highway Performance Monitoring Systems (HPMS) purposes, as well as Metropolitan Planning Area “shape” files that are compiled by the Office of Planning.</p>	See Geospatial Capabilities for complete details.
3.	<p>NBI structure number shall be relocated to the project detail line.</p> <p>Where possible, relocation shall happen automatically as project agreement data is migrated to the new system.</p> <p>NBI structure numbers cannot automatically be relocated to project details if a project has multiple NBI numbers with the same improvement type and program code. States shall have the option to provide migration instructions for such projects, or to relocate NBI number if and when such projects are modified using the new system.</p>	This change allows a bridge to be associated with obligation amounts for accurate reporting of investment in individual bridges.

Data Change Description	Background
<p>Note: NBI number is the subject of a future change to FMIS. Please see "Optional NBI Number" in Appendix F.</p>	
<p>4. Environmental decision and decision date will be dropped from FMIS. Instead of collecting these values, FMIS 5.0 will prompt first-level signatories at the State and Division to confirm that the environmental decision process has been followed, and all required steps are complete. The prompt will appear for construction and right-of-way projects. Division Offices should continue to rely upon their existing sources of environmental compliance information from their State DOT partners to verify environmental compliance.</p>	<p>Division offices will continue to follow existing tracking requirements by maintaining up-to-date EA and EIS environmental decision data in FHWA's Project And Program Action Information System (PAPAI).</p>
<p>5. Remove Inventory Route Number and associated beginning and ending mile points from the Project Header.</p>	<p>This item and its associated mile points were intended to support a federal Linear Reference System, which is now obsolete. The current approach is for each State to use their own LRS and mile points.</p>
<p>6. Increase the max length of the Project Description to 2000 characters.</p>	<p>Addresses user survey requests for a longer description.</p>
<p>7. A new "Project Title" element shall be added. This is a required value on all projects. Project description shall be placed in both project title and project description when pre-existing projects from FMIS 4 are migrated to FMIS 5.0. This way, all projects will have a title.</p>	<p>Addresses user survey requests for a project title.</p>
<p>8. FTA indicator shall be removed from detail lines</p>	<p>This item is obsolete. FTA obligations are no longer held as detail lines within FMIS projects.</p>
<p>9. Data from FMCSA projects shall not be accessible.¹</p>	<p>FMCSA is no longer an active user of FMIS.</p>
<p>10. All FMCSA related data elements shall be removed from the application. These include the OMC indicator on the program code table, as well as the FMCSA date on the project summary table in production FMIS.</p>	<p>FMCSA is no longer an active user of FMIS.</p>
<p>11. Remove Standard Place Code from project header.</p>	<p>This standard was withdrawn 02/05/2008. Federal register reference: 70 FR 6623</p>

	Data Change Description	Background
12.	<p>Changes to State Defined Fields</p> <ul style="list-style-type: none"> • These items are now called "Recipient Defined Fields" to allow for the possibility that future grantees will be non-state organizations.² • Recipients (States) can define date fields (must be a valid date or null). Up to 3 date fields can be defined on the project header, and up to 3 on the detail line. • Text fields can be designated to be Boolean (valid values are Yes, No, or null). <p>Note: Recipient Defined fields are the subject of a future change to FMIS. Please see "User Defined Fields" in Appendix F.</p>	
13.	<p>Estimated Construction Date will be converted into a Recipient Defined Field on the project header for all States. Any existing values for Estimated Construction Date will be relocated to the "Estimated Construction Date" defined field, prior to opening FMIS 5 for the start of FY 2015.</p>	<p>Estimated Construction Date is not needed as part of the "standard" elements of the project agreement, however many States reported that this item contains valuable information. For this reason, it has been relocated to the Recipient Defined Fields.</p>
14.	<p>Changes to Division Defined Fields:²</p> <ul style="list-style-type: none"> • Divisions can define date fields (must be a valid date or null). Up to 2 date fields can be defined on the project header, and up to 2 on the detail line. • Text fields can be designated to be Boolean (valid values are Yes, No, or null). <p>Note: Division Defined fields are the subject of a future change to FMIS. Please see "User Defined Fields" in Appendix F.</p>	
15.	<p>FHWA Area will be converted into a Division Defined Field on the project detail for all Divisions. Any existing values for FHWA Area will be relocated to the "FHWA Area" defined field, prior to opening FMIS 5 for the start of FY 2015.</p>	<p>FHWA Area is not needed as part of the "standard" elements of the project agreement, however many Divisions reported that this item contains valuable information. For this reason, it has been relocated to the Division Defined Fields.</p>
16.	<p>102 Expenditures has been renamed "ROW Revolving Funds".</p>	<p>The new name is more descriptive of the purpose of the field.</p>

Data Change Description	Background
<p>17. FMIS 5 has two-way related projects. For example, if project B is added as a related project for project A, FMIS will automatically add project A as a related project for project B. Only project A has to be modified to establish the two-way relationship.</p> <p>When Project B is designated as a related project of project A, a separate relationship type needs to be established from project B back to project A so that there is a two-way relationship.</p> <ul style="list-style-type: none"> • Instead of silently creating a two-way relationship the user must acknowledge a pop-up that states that a two-way relationship will be established. • The user will need to supply a “B to A” relationship type in addition to the “A to B” relationship type; The user will need to select the relationship type for the A to B relationship, as well as the relationship type for the B to A relationship. • EDS will also need to change to carry the B to A relationship type in addition to the A to B relationship already in place. 	<p>This is in contrast to FMIS 4, where a State has to modify both project A and project B to have the two-way relationship.</p>

¹ All FMCSA projects will be discontinued in FMIS 5.0 whether these projects are still open or have unexpended balances, as FMIS does not transmit FMCSA projects to the Delphi accounting system. This should not impact existing FHWA projects as FMIS explicitly prohibits combining FHWA and FMCSA funds.

² The file formats in this document refer to “User Defined Fields” rather than Recipient or Division defined fields. The reason is that the User Defined Fields XML tag can contain both recipient and Division defined fields when project data is downloaded. The upload file format also refers to User Defined Fields. This was done for consistency with the download format, even though a recipient would never upload a Division defined value. **Note:** Update of the “FHWA Area” Division defined field by States is a future change to FMIS. Please see “FHWA Area” in Appendix F.

Geospatial Capabilities

Considerations

1. Accuracy – Geospatial reference data eliminates ambiguity regarding project location
2. Standard Place Code is obsolete - This item was in FMIS as a means to pinpoint project location. Geospatial referencing is the standard means of tracking location related data. FHWA is simply adopting the new industry standard.

3. All states have a Linear Reference System (LRS) so the data is available.
4. The agency is moving towards performance based management, where the investment in a roadway is compared to the roadway's performance. Such information is then used as the basis for improving the performance of the highway system. As such, the agency's goal is to track the financial investment down to the roadway.
5. FMIS needs to meet today's expectations for accuracy, presentation, comprehensive analysis, and reporting.

Requirements

1. The geospatial rules that follow apply both to online FMIS, as well as Electronic Data Sharing (EDS). As such, "EDS" can be used interchangeably with the word "user" anywhere within these geospatial requirements, unless noted otherwise.
2. Geospatial data shall be carried on the project detail line as Route ID, with beginning and ending mile points for that Route ID.
3. Route ID shall be defined in accordance with each State's linear reference system.
4. Mile Points must be valid for the Route ID.
5. Beginning mile point must be < ending mile point.
6. Location - When geospatial data is on a project detail line, FMIS 5.0 shall derive the following location based data. This contrasts with current FMIS where users provide these values. Note that throughout this document, project detail "location" refers to a unique combination of the following items:
 - a. County
 - b. Congressional district (in States that have congressional districts)
 - c. Urbanized Area (If the Route ID and mile points fall entirely within an Urbanized Area)
 - d. Functional System
 - e. Ownership
 - f. System Code
 - g. Urban or Rural

Note: Urbanized Area is the subject of a future change to FMIS. Please see "Urbanized Area" in Appendix F.

7. Fund Amounts - The term "fund amounts" refers to the following amounts throughout this document:
 - a. Federal
 - b. State
 - c. Advance Construction
 - d. Local
 - e. Non-monetary
 - f. Private
 - g. Other.
8. In general, geospatial data shall be required both for new detail lines as well as for modifications to old detail lines that existed on a Current project prior to implementation of FMIS 5.0. However geospatial data is not required if a detail line fits any of the following exceptions:

Exceptions

	Automatic Exceptions: FMIS automatically recognizes that geospatial data is not required, and allows omission of geospatial data without issuing a warning.	Required for All	Old Only
a.	Statewide detail lines – This is the only situation where geospatial data is not allowed.	•	
b.	Off-roadway – The detail line has improvement types that are commonly used off-roadway. The “Geospatial Categories for Improvement Types” section below can be referenced for this and all other exceptions that are driven by improvement type.	•	
c.	New construction - The detail line has an improvement type that applies only to new construction.	•	
d.	Close or withdrawal - A Close or withdrawal transaction will not force geospatial data to be added, regardless of which data elements were changed on the detail line.		•
e.	Fund amounts or location data are not changed - Geospatial data is not required for changes to project detail elements other than fund amounts or location. Note: This rule is the subject of a future change to FMIS. Please see “Federal Funds Change” in Appendix F.		•
f.	Geospatial data should not be required when reopening a closed project (based on the need to reopen). The only scenario when the GIS data will be required is if Federal funds are increased in a detail line or if a new detail line having Federal funds is added to the project.		•

	User-Supplied Exceptions:	Required for All	Old Only
	<ol style="list-style-type: none"> If no automatic exceptions apply, FMIS will prompt the State to provide justification as to why geospatial data is omitted on a detail line. One or more of the following justifications may be provided by the State. First State and first Division signatories will be prompted to confirm the accuracy of the justification. An EDS State would provide a “NoGisReason” as part of its project upload. 		
a.	New Construction – This justification is allowed if the detail line has an improvement type where “New Construction is Possible”. The State shall supply this justification for each detail line where it applies. The reason for this is because FMIS cannot always determine if items listed on the detail lines are actually ‘NewConstruction’ (an example of this would be ROW).	•	
b.	Off-roadway - This justification is allowed if the detail line has an improvement type where “Off-Roadway is Possible”. The	•	

	State shall supply this justification for each detail line where it applies.		
c.	Prepare for Close – The State may indicate that the project is being modified in preparation for closure as justification for omitting geospatial data. The State shall only have to supply this justification once for the entire project.		•
d.	Construction Complete - The State may indicate that the construction phase of the project is complete as justification for omitting geospatial data. This rule is intended to accomodate GARVEE, public-private partnership (PPP), and similar situations. Project completion date must be in the past if it contains a value. The State shall only have to supply this justification once for the entire project.		•
e.	Route ID is not on the LRS	•	
f.	Congressional District map is not in FMIS	•	

*The "Applicable Details" column indicates if the exception applies to old project detail lines only, or all detail lines.

- Old detail lines are those that existed on a Current project prior to implementation of FMIS 5.0.
- All detail lines applies to old lines as well as those that were added to FMIS after implementation of FMIS 5.0.

9. When an old detail line is modified, geospatial data will only be required if all of the following are true:

- Detail location or at least one fund amount has changed.
Note: This rule is the subject of a future change to FMIS. Please see "Federal Funds Change" in Appendix F.
- The "Geospatial Categories for Improvement Types" table below categorizes the Improvement Type as "On-Roadway", "New Construction Possible", "Off-Roadway Possible"
- No "Automatic" or "User Supplied" Exceptions are applicable.

For online input, if geospatial data is required and the user does not supply it, the detail record will be saved with a warning message. If the GIS data is not present by the time of first signature, then the system will present an error message and the signature will not be applied. For EDS submissions,

FMIS will reject projects where State signatures are included, and one or more detail lines lack required geospatial data.

10. Geospatial data is allowed on all project detail lines except statewide. Geospatial data is not allowed on statewide detail lines, because they cannot be linked to a specific roadway.
11. When required, geospatial data **must** be present by the time of first State signature
12. An individual detail line may have multiple Route IDs, each with its own set of mile points. FMIS will assign a default "percentage of funds" to each route ID, based on its share of total mileage across all route IDs for the detail line. (See Requirement 13. for an alternate method of cost distribution.) **Note:** Users can change the percentage of funds for a route ID if the cost per mile is not identical from one roadway segment to the next.

Example: Figure 1 depicts 3 route IDs that are associated with the same detail line. Federal funds on the detail line total \$112,000, and the total mileage across all route IDs is 30. FMIS assigns 2/3 of funds to the first route ID, because it accounts for 20 miles, which is 2/3 of total mileage. The remaining two route IDs each account for 5 miles, and therefore receive 1/6 of funding. Percent of funds for each route ID can be adjusted on-line or via EDS in cases where mileage-based assignment of funds by FMIS is inaccurate.

Figure 1

▼ General Detail Information

State AL - Alabama	Project ID 0275(027)
Suffix	State Project #
Version Pending	Program Code LZ2E
Detail # 01	Demo ID <input type="text"/>
Status Active	Improvement Type Preliminary Engineering <input type="button" value="▼"/>
Fund Source LZ2E	Recode 587

▼ Funding

Adv. Construction	\$0.00
Federal Funds	\$112,000.00
State Funds	\$22,400.00
Local Funds	\$0.00
Private Funds	\$0.00
Non-Monetary	\$0.00
Other Funds	\$0.00
Total Cost \$134,400.00	

Route ID	Begin Mile Point	End Mile Point	% Of Federal Funds	Federal Funds <input type="button" value="→"/>
1006012	10.000	30.000	66.67%	\$74,666.67
1006013	20.000	25.000	16.67%	\$18,666.67
1006014	25.000	30.000	16.66%	\$18,666.66
Total				\$112,000.00

13. As an alternative to using a percent of funds to distribute funding to each bridge or roadway within a detail line, States will have the option to directly specify all fund amounts for a route ID, tunnel, or bridge. This is useful when the State already knows the exact obligations, State funds, etc. which are associated with a particular structure or roadway. If fund amounts are directly supplied for one route ID or structure, then funds must be directly specified for all routes or structures within the detail line.
14. Route IDs using funds from particular project detail line must be as complete and as specific as possible within the limitations of each State's LRS. Examples:
 - a. Dual Carriage Roadway (aka divided highways) - Work occurring on only one-direction of a dual-carriage roadway should reference the Route ID of that direction (if available)
 - b. Ramp – Work occurring on a ramp should reference the Route ID of the ramp (if available)
 - c. One-way Pairs (aka "couplets") - Each direction of a one-way pair has a separate route ID in the State LRS, therefore separate directions on the same pair should be entered separately on the detail line.
15. Geospatial data for Urban Required (Metropolitan Planning or Urban Attributable) detail lines having federal funds or AC must fall entirely within a Metropolitan Planning Area (MPA).
 - a. Detail lines which are Statewide Planning (SWP) or Small Urbanized Area (SUA) are exempt from this requirement.
 - b. Valid MPA boundaries will be based on geospatial shape files compiled by the Office of Planning.
Note: Urbanized Area is the subject of a future change to FMIS. Please see "Urbanized Area" in Appendix F.
16. For non-urban required detail lines, urbanized area shall be derived from geospatial data in cases where the detail line falls entirely within a single MPA. Urbanized area shall be left blank when geospatial data only falls partially within an urbanized area.
17. If a bridge or tunnel number is included on a detail line, then route ID, and beginning mile point are required except if the line is Statewide, or subject to an "old only" exception (see #8 above). Ending mile point is not required.
18. A single *bridge* detail line can reference multiple bridges, and a single *tunnel* detail line can reference multiple tunnels. When this occurs, a percentage of funds, or fund amounts, must be user-supplied for each bridge or tunnel. The percentage of funds is arrived at by dividing the number of bridges or tunnels into one. Thus, if there are four bridges (1 divided by 4), the amount would be .25, or 25 percent. If the actual funding amount for each entity is known, the user may enter those fund amounts directly, as described in item 13 in this list. When the percentage is user-supplied, FMIS can determine the proportion of funding (federal, AC, State, etc.) that is associated with each bridge or tunnel. Figure 2 depicts how a project detail which references 3 bridge numbers might appear. County, Urbanized Area, and Congressional district are derived based on route ID and beginning mile point.

Note: Urbanized Area is the subject of a future change to FMIS. Please see "Urbanized Area" in Appendix F.

Figure 2

<input checked="" type="checkbox"/> Use Route ID							
Route ID	1006012	Begin Mile Point	10.000	Structure ID	19A3005	Percentage	66.67%
View On Map Export Print							
Route ID	Begin Mile Point	Structure ID	County	Urbanized Area	Congressional District	% Of Federal Funds	Federal Funds
1006012	10.000	19A3005	Fresno	Bakersfield	18	66.67%	\$89,604.48 ...
1244556	25.000	24D6987	Orange	Palm Springs	47	16.67%	\$22,397.76 ...
1456666	30.000	3BE75W0	Los Angeles	Hemet	35	16.67%	\$22,397.76 ...

19. Route ID and mile points should be provided when an improvement is associated with a roadway, but is not part of the roadway. Example: Route ID and mile points should be provided for landscaping along a stretch of road.
20. Route ID and mile points should refer to the “inventory direction” in cases where an improvement applies to both directions of a dual carriage roadway, and costs are not easily allocated to one direction versus another. Example: Landscaping in the median of a dual-carriage roadway.
21. When geospatial data is optional:
 - a. States should still provide optional geospatial data if it is available. When geospatial data is not available, the States shall specify all project detail location items that are required.
 - b. Users may specify multiple locations for a single detail line. “Location” is defined above. The user must supply a percent of funds for each location.

Special Cases

1. A variance in cost per mile within the same route ID and improvement type can cause FMIS to inaccurately distribute funding by county, congressional district, and urbanized area. If this is the case, a State or Division can enter the same route ID as multiple segments on the same detail line, with a separate percentage of the detail cost for each segment or separate entry of funds for each segment.
2. Different route IDs within the same detail line may have different cost per mile, and this difference can cause FMIS to distribute project costs inaccurately by county, congressional district, etc. An example would be a “resurfacing” detail line that has one route ID for a three-lane road, and another route ID for a one-lane on-ramp. If costs are not accurately distributed, the user can override the FMIS-assigned percentages of cost by changing the percentages or by directly supplying the fund amounts for each route ID rather than relying on the percentages. The shape of a roadway can change between annual submittals of GIS data to FHWA. Example: State funded projects can alter the shape of a roadway. Such shape changes can affect how FMIS distributes funding by county, congressional district, and urbanized area. There are no plans to address this situation, because its impact is expected to be infrequent and minor.
4. Considerations for projects where a portion of the project location falls in another State:

- a. Beginning and ending mile points must fall within the State that owns the project. For example, a Kentucky-owned bridge project cannot have an ending mile point in Ohio, even if some small portion of the work is actually taking place in Ohio.
 - b. FMIS shall never distribute project costs to locations outside the State that owns a project. Consider a roadway where the beginning and ending mile points both fall within Kansas, but the roadway enters Colorado at one or more points in between. FMIS will allow this situation, but will not distribute any of the project costs to counties and congressional districts within Colorado.
5. Boundaries of congressional districts and urbanized areas can shift over time due to events such as redistricting or census. In addition, new congressional districts can be established or existing districts removed. For route entries in projects that pre-exist such "shifts", the distribution of funds by congressional district and urbanized area will only be revised if funds, route IDs or mile points are changed. The rationale is to keep the location of project agreements stable on both FMIS screens and on reports.
- Note:** This rule is the subject of a future change to FMIS. Please see "Federal Funds Change" in Appendix F.
6. Project Versions – Any report or screen that depicts a specific project version shall accumulate funds to congressional districts and urbanized areas that existed as of the date that the project version received final Division signature. Pending projects shall always reflect the boundaries in force as of the current date and time only if the route information is updated

Geospatial Categories for Improvement Types

<p>On-Roadway Improvement Types - These improvement types invariably occur on a roadway. The State can indicate "Route ID is not on the LRS" or "Congressional District map is not in FMIS" as justification to omit geospatial data.</p>
<p>Bridge and Tunnel Improvement Types - Geospatial data is optional when entering NBI or Tunnel for the following Bridge and Tunnel Improvement types - 03, 04, 10, 11, 13-17, 20, 21, 40, 42, 43, 45, 47, 48 and 49.</p>
<p>New Construction – Geospatial data is optional because geospatial data is not universally available for new construction.</p>
<p>New Construction or Off-Roadway is Possible – These improvement types may be part of a new construction effort or may correspond to work that is occurring off-roadway. The State can indicate "New Construction", "Off-Roadway", "Route ID is not on the LRS" or "Congressional District map is not in FMIS" as justification to omit geospatial data.</p>
<p>Commonly Off Roadway - Geospatial data is optional because this improvement type commonly takes place off-roadway.</p>
<p>Obsolete – Geospatial rules are not applicable for obsolete improvement types. It will not be possible for a detail line with geospatial data to reference an obsolete improvement type.</p>

Improvement Types

Imp. Type Code	Improvement Type	On Roadway	New Construction	New Construction or Off-Road	Common Off-Road	Obsolete
01	New Construction Roadway		•			
02	4R – Reconstruction (obsolete)					•
03	4R - Added Capacity	•				
04	4R - No Added Capacity	•				
05	4R -Maintenance Resurfacing	•				
06	4R – Restoration and Resurfacing	•				
07	4R – Maintenance Relocation	•				
08	Bridge New Construction		•			

Imp. Type Code	Improvement Type	On Roadway	New Construction	New Construction or Off-Road	Common Off-Road	Obsolete
09	Bridge Replacement					•
10	Bridge Replacement – Added Capacity	•				
11	Bridge Replacement – No Added Capacity	•				
12	Bridge Rehabilitation					•
13	Bridge Rehabilitation – Added Capacity	•				
14	Bridge Rehabilitation – No Added Capacity	•				
15	Preliminary Engineering			•		
16	Right-of-Way			•		
17	Construction Engineering			•		
18	Planning				•	
19	Research				•	
20	Environmental Only			•		
21	Safety			•		
22	Rail / Highway Crossing			•		
23	Transit				•	
24	Traffic Management / Engineering - HOV			•		
25	Vehicle Weight Enforcement Program				•	
26	Ferry Boats				•	
27	Administration				•	
28	Facilities for Pedestrians and Bicycles			•		
29	Acquisition of Scenic Easements and Scenic or Historic Sites			•		
30	Scenic or Historic Highway Programs			•		
31	Landscaping and Other Scenic Beautification			•		
32	Historic Preservation			•		
33	Rehabilitation and Operation of Historic Transportation Buildings, Structures, or Facilities			•		
34	Preservation of Abandoned Railway			•		

Imp. Type Code	Improvement Type	On Roadway	New Construction	New Construction or Off-Road	Common Off-Road	Obsolete
	Corridors					
35	Control and Removal of Outdoor Advertising				•	
36	Archaeological Planning and Research				•	
37	Mitigation of Water Pollution due to Highway Runoff				•	
38	Safety and Education for Pedestrians / Bicyclists				•	
39	Establishment of Transportation Museums				•	
40	Special Bridge			•		
41	Youth Conservation Service				•	
42	Training				•	
43	Utilities			•		
44	Other				•	
45	Debt Service				•	
46	Design – Build Contract (obsolete)					•
47	Bridge Preventative Maintenance	•				
48	Bridge Protection	•				
49	Bridge Inspection and Bridge Related Training				•	
50	New Tunnel		•			
51	Tunnel Replacement	•				
52	Tunnel Rehabilitation	•				
53	Tunnel Preventative Maintenance	•				
54	Tunnel Protection	•				
55	Tunnel Inspection and Tunnel Related Training				•	
56	Other Asset Inspection				•	
57	Safety Non-Infrastructure				•	
58	Freight				•	
99	Unknown				•	

National Bridge Inventory (NBI) Relocation Instructions

This section applies only to bridge projects that pre-exist FMIS 5.0. It provides a method for States to relocate NBI numbers to individual project detail lines as part of migration of pre-existing projects to FMIS 5.0. The following steps will be followed for relocating the NBI number from the project header record to the detail record.

1. **Automatic Conversion:** NBI number will automatically be relocated from the project header to every detail line on the project which has the same improvement type/program code if all conditions bulleted below are met. This will have the effect of tying all funds from each such detail line directly to the NBI number.

Automatic Conversion Conditions:

- The project is an active Current project.
- The improvement type/program code combination for the NBI number is unique among all NBI numbers on the same project.

2. **Relocation Instructions Specified by the State**

- In cases where a project has two or more NBI numbers having the same improvement type/program code combination, automatic conversion is not possible. The States have the option to provide relocation instructions by creating a relocation spreadsheet as described in Appendix B.
- The States will be provided with a listing of all such projects along with the State guidance, and can provide relocation instructions for all, none, or some projects where multiple NBI numbers share the same improvement type/program code.
- NBI numbers will be relocated from the project header to the appropriate detail line(s) based on the relocation spreadsheet provided by the State.
- Any NBI numbers that are not relocated automatically or based on State instructions will be retained in FMIS 5.0. If a State changes a project which contains such NBI numbers, then FMIS will require the State relocate the NBI numbers as part of the changes to the project.

New EDS File Format

Electronic Data Sharing (EDS) refers to the process of managing project data in FMIS via an automatic mechanism. EDS allows State applications to communicate directly with FMIS and upload or download data as an alternative to manually keying it in, which improves accuracy and timeliness, in addition to reducing labor costs.

Any action which the State can perform online can also be performed using EDS. When the State uploads data for a project, FMIS creates a pending project. This pending project can then be reviewed, rejected, modified, signed, un-signed, etc., exactly as if it were entered using the FMIS on-line screens.

FMIS 5.0 will introduce a new file format for project agreement data as well as current bill data. The fixed length file format used by FMIS 4 will be replaced by a XML file format for project agreement data and a

pipe-delimited format for current bill data. The new formats will allow for greater flexibility and future updates will have a much lesser impact.

States will continue to transmit files via SFTP. Refer to the Appendix C for SFTP instructions and the file name conventions.

Project Data Upload Format

Project data upload will be done using an XML file format. Each State-supplied data item is represented by one XML tag. All data items are not required to be present in the XML file being uploaded, as it is permissible to send only data items that have changed plus the necessary key values. The key values to locate a project are *RecipientId* (which will be the State FIPS code) and the *Federal Project Number*.

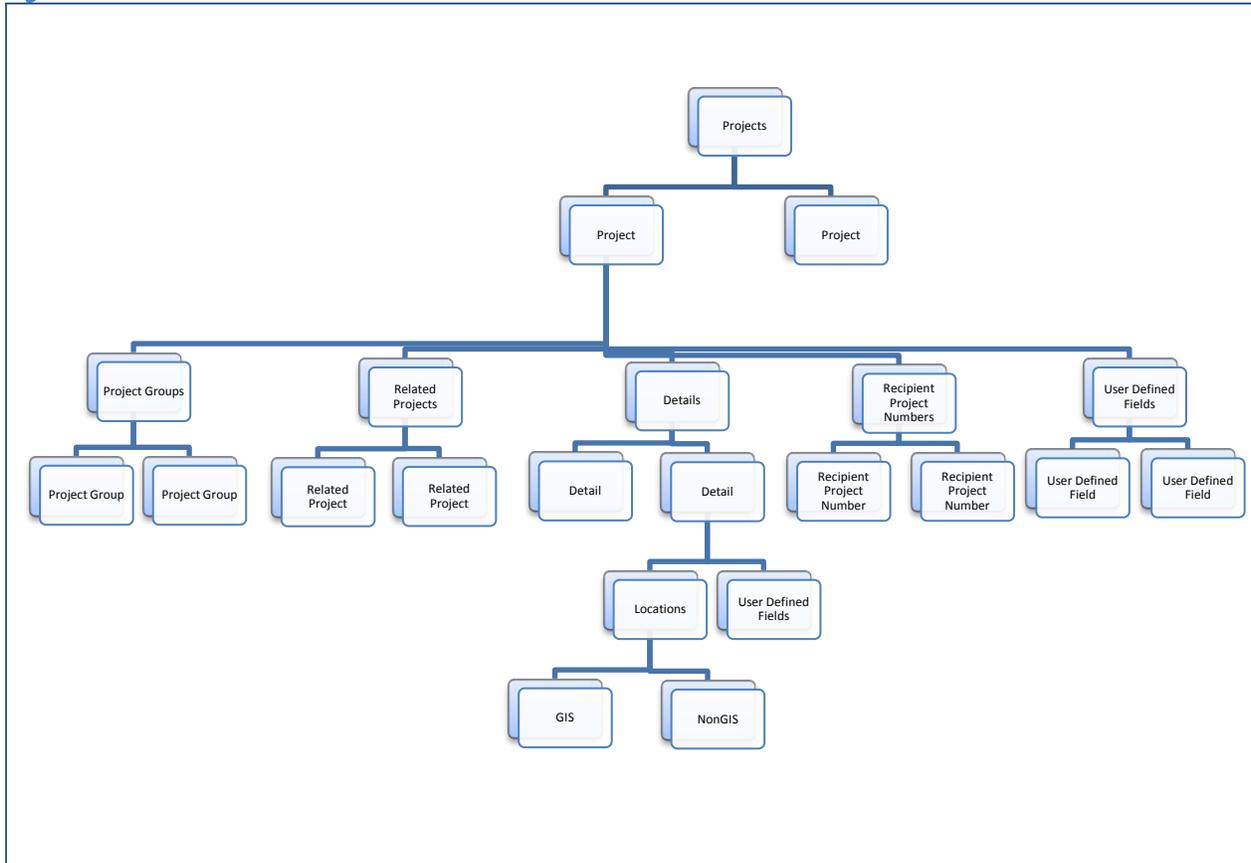
As an example, if the State wanted to change only the description of an existing project, the only tags required in the XML file would be a Program Code from one of the detail lines, Recipient Id, Federal Project Number, and Project Description.

```
<?xml version="1.0" encoding="utf-8" ?>
<Projects>
  <Project action="modify">
    <ProgramCode>H050</ProgramCode>
    <RecipientId>1</RecipientId>
    <FederalProjectNumber>AL00001</FederalProjectNumber>
    <ProjectDescription>My new description here.</ProjectDescription>
  </Project>
</Projects>
```

Figure 3

The FMIS upload XML file format contains elements that follow a hierarchy as depicted in Figure 4.

Figure 4



Projects: This is the root element of the FMIS XML format. It contains a collection of individual <Project> elements. There can be only one <Projects> element per file, since this is the root of the document.

Project: This element is a child of the <Projects> element. This element contains all elements describing the project information portion of the agreement. There can be one or more (1...n) number of <Project> elements within a <Projects> element. For example, if there are 10 project records that need to be updated, then there needs to be 10 <Project> elements.

Details: This element is child of the <Project> element. There can be only one <Details> element per <Project> element. The detail information portion of the agreement is contained inside the <Details> element. It contains a collection of <Detail> elements.

Detail: This element is a child of the <Details> element and corresponds to a single project detail line. This element contains all elements describing the detail information portion of the project agreement. There can be one or more (1...n) <Detail> elements per <Details> element. For example, if there are 4 details records that need to be either updated, created or deleted, then there needs to be 4 <Detail> elements.

Locations: This element is child of the <Detail> element. It contains a collection of <GIS> or <NonGIS> elements. There can be zero or one (0...1) <Locations> elements per <Detail> element.

GIS and NonGIS: These elements are children of the <Locations> element. There can be one or more (1...n) elements of these types within each <Locations> element. **Note:** GIS and NonGIS elements are mutually exclusive which means that the Locations element can only contain a GIS or a NonGIS child element but not both.

ProjectGroups: This element is a child of the <Project> element. There can be only one <ProjectGroups> element per <Project> element. It contains a collection of <ProjectGroup> elements.

ProjectGroup: These elements are children of the <Project Groups> element. The element contains the elements describing the Project Group related information of the project. There can be one or more (1...n) <Project Group> elements per <Project Groups> element.

RelatedProjects: This element is a child of the <Project> element. There can be only one <RelatedProjects> element per <Project> element. It contains a collection of <RelatedProject> elements.

RelatedProject: This element is a child of the <RelatedProjects> element. This element contains the elements describing a project that is related to the project defined by the <Project> element and their relationship type. There can be one or more (1...n) <RelatedProject> elements per <RelatedProjects> element.

UserDefinedFields: This element is a child of the <Project> element. There can be only one <UserDefinedFields> element per <Project> element. It contains a collection of <UserDefinedField> elements.

UserDefinedField: (Same as State Defined field in FMIS 4) This element is a child of the <UserDefinedFields> element. This element contains the name and content of a field defined by the recipient in the project header. There can be one or more (1...n) <UserDefinedField> elements per <UserDefinedFields> element.

RecipientProjectNumbers: These elements are children of the <Project> element. There can be only one <RecipientProjectNumbers> element per <Project> element. It contains a collection of <RecipientProjectNumber> elements.

RecipientProjectNumber: This element is a child of the <RecipientProjectNumbers> element. This element contains the Recipient Project Numbers for the project. There can be one or more (1...n) <RecipientProjectNumber> elements per <RecipientProjectNumbers> element.

UserDefinedFields (Detail): This element is a child of the <Detail> element. There can be only one <UserDefinedFields> element per <Detail> element. It contains a collection of <UserDefinedField> elements.

UserDefinedField (Detail): This element is a child of the <UserDefinedFields> element. This element contains the name and content of a field defined by the recipient at the Detail level. There can be one or more (1...n) <UserDefinedField> elements per <UserDefinedFields> element.

FMIS Upload File XML Tags

```
<?xml version="1.0" encoding="utf-8" ?>
```

```

<Projects>
  <Project action="add|modify|withdraw|close|reestablish|delete">
    <ProgramCode />
    <RecipientId />
    <FederalProjectNumber />

    <RecipientProjectNumbers>
      <RecipientProjectNumber />
    </RecipientProjectNumbers>
    <DUNS />
    <ProjectType />
    <ProjectTitle />
    <ProjectDescription />
    <CompleteDate />
    <ProjectOversight />
    <STIPReference />
    <IsEREligible />
    <DisasterFY />
    <DisasterSeq />
    <ERCode />
    <RecipientRemarks />
    <RecipientComments />
    <RecCertifierSignature/>
    <RecCertifierSigDate/>
    <RecRecommenderSignature/>
    <RecRecommenderSigDate/>
    <RecApproverSignature/>
    <RecApproverSigDate/>

    <ProjectGroups>
      <ProjectGroup>
        <GroupCode />
      </ProjectGroup>
    </ProjectGroups>

    <RelatedProjects>
      <RelatedProject>
        <ProgramCode />
        <RecipientId />
        <FederalProjectNumber />
        <RelationshipType />
        <ReverseRelationshipType />
      </RelatedProject>
    </RelatedProjects>

    <UserDefinedFields>
      <UserDefinedField>
        <FieldName />
        <ValueText />
        <ValueNumber />
        <ValueDate />
        <ValueBoolean />
      </UserDefinedField>
    </UserDefinedFields>
    <Details>

```

```
<Detail action="add|modify|withdraw|reestablish">
  <LineNumber />
  <ProgramCode />
  <ImprovementType />
  <DemoId />
  <WithdrawalArea />
  <Prefix />
  <ACFunds />
  <FederalFunds />
  <StateFunds />
  <LocalFunds />
  <PrivateFunds />
  <NonMonetaryFunds />
  <OtherFunds />
  <ACConvAmount />
  <SoftMatchAmount />
  <PctFederalShare />
  <IsToll/>
  <IsSafety />
  <IsTempMatch />
  <IsIndianReserv />
  <IsAppalachia />
  <IsConstruction />
  <IsDesignBuild />
  <IsCMGC />
  <IsOtherSep14 />
  <IsHwysForLife />
  <NoGisReason/>
  <Locations>
    <NonGIS>
      <StateId />
      <CongDistId />
      <CountyId />
      <UrbanId />
      <UrbanOrRural />
      <FunctionalSystem />
      <SystemCode />
      <GeneralOwnership />
      <StructureNumber />
      <PercentFunds />
      <ACFunds />
      <FederalFunds />
      <StateFunds />
      <LocalFunds />
      <PrivateFunds />
      <NonMonetaryFunds />
      <OtherFunds />
    </NonGIS>
    <GIS>
      <StateId />
      <RouteId />
      <BeginPoint />
      <EndPoint />
      <StructureNumber />
      <PercentFunds />
    </GIS>
  </Locations>
</Detail>
```

```

    <ACFunds />
    <FederalFunds />
    <StateFunds />
    <LocalFunds />
    <PrivateFunds />
    <NonMonetaryFunds />
    <OtherFunds />
  </GIS>
</Locations>

  <UserDefinedFields>
    <UserDefinedField>
      <FieldName />
      <ValueText />
      <ValueNumber />
      <ValueDate />
      <ValueBoolean />
    </UserDefinedField>
  </UserDefinedFields>
</Detail>
</Details>
</Project>
</Projects>

```

Projects Tag Elements Description

XML Tag Name	Description	Restrictions
ProgramCode	Identifying program code for the project	Any program code from a detail line on the project. Since the 7-character project ID is not always unique within a State, this program code serves to uniquely identify the project. This is because the same program code cannot occur on more than one project that shares the same State and 7-character project ID. Length 4.
RecipientId	ID of the Recipient (Will be the State FIPS Code)	Number. See Appendix A for valid values
FederalProjectNumber	Federal number used to identify the project	Character field. Must be 7 characters. Note: In cases where the State includes suffix, this field contains a 7-character project ID followed by a hyphen and a 2 digit suffix. Example: ppppppp-01 Suffix is allowed but not required (this requirement is subject to a future change). Note: Federal Project Number is the subject of a future change to FMIS. Please see "Federal Project Number" in Appendix F. <u>Business Rules:</u>

XML Tag Name	Description	Restrictions
		Project Number may not contain the letter O. 1. Characters 5 through 7 must be numeric.
ProjectType	Type of project	Numeric field. See Appendix A for list of valid values. <u>Business Rules:</u> 1. If Project Type is Emergency Relief, then the project cannot have active detail lines with Demo Program codes. It should at least have one active detail line with a Program Code that has Limited Statistics Required set to Emergency Relief. 2. If Project Type is STP, then all active detail lines must be STP Program Codes. 3. If Project Type is SIB, then all active detail lines must be SIB Program Codes. 4. If Project Type is Demo, then at least one active detail line should have a Demo program code.
DUNS	DUNS Number	Character field. Max Length: 9
ProjectTitle	Brief description of the project.	Character field. Max Length: 150
ProjectDescription	Detailed description of the project.	Character field. Max Length: 2000
CompleteDate	The date all work and inspections were completed.	Date in MM/DD/YYYY <u>Business Rules:</u> 1. Completion date must be later than all authorization dates (PE, ROW, SPR, Construction, or Other dates). 2. Cannot be a date in the future (or date greater than current date).
ProjectOversight	FHWA Project oversight code.	Numeric field. See Appendix A for list of valid values. <u>Business Rule:</u> The following are obsolete Project Oversight values. These values are not allowed on any update or selection of Project Oversight. (Legacy) Full Oversight (NHS) (Legacy) Full Oversight (non-NHS) (Legacy) State Administered
STIPReference	STIP reference	Character field. Max Length: 20

XML Tag Name	Description	Restrictions
IsEREligible	Flag to indicate if the project is eligible for Emergency Relief	Boolean: Y or N <u>Business Rules:</u> <ol style="list-style-type: none"> 1. Eligible for ER" must default to "Y" and cannot be changed if the Project Type is "Emergency Relief" 2. "Eligible for ER" cannot be set to "Y" for Demo Project types. "Y" is allowed on all other project types. 3. Limited Statistics Required rules shall not apply when a project is marked "eligible for ER", but Project Type is not "Emergency Relief"
DisasterFY	Disaster fiscal year	Year in YYYY. <u>Business Rules:</u> <ol style="list-style-type: none"> 1. Required if at least one active (not withdrawn) detail line on the project contains an Emergency Relief program code (Limited Statistics Required = "ER" or Emergency_Relief_Type='Y'). 2. Required for emergency relief projects and "Eligible for ER" projects. 3. Not allowed if requirement #1 or 2 is not met. 4. Users can provide a year but it must be a valid year beginning with 19 or 20. 5. Cannot be a future year. 6. If a user enters a disaster year older than current calendar year - 2, a warning will appear which prompts the user to confirm that the selected year is accurate. The user will be allowed to save the year if accuracy is confirmed.
DisasterSeq	Disaster sequential number	Numeric field. Max length: 3. Max value is 255 <u>Business Rules:</u>

XML Tag Name	Description	Restrictions
		<ol style="list-style-type: none"> 1. Must be a numeric value. 2. Required if disaster year is present. 3. Not allowed if disaster year is null. 4. Disaster numbers are not required to be entered in numeric sequence. <p>Note: Disaster Sequence is the subject of a future change to FMIS. Please see "Disaster Sequence" in Appendix F.</p>
ERCode	Emergency Relief code	<p>Character field. Max Length: 8</p> <p><u>Business Rules:</u></p> <ol style="list-style-type: none"> 1. Only one Emergency Relief Code is allowed per project. 2. Must be eight characters in length. 3. The first two characters of emergency relief code must match state code. Example – Emergency Relief Codes for Alabama projects must begin with AL. 4. Required if there is at least one active detail that references a program code having Emergency Relief Type of "Y". (This is located in the fund area) Note: Currently ER90 and M9V0 are the only program codes with emergency relief code set to "y", additional program codes can/will be added. 5. Required if Eligible for ER is "Y". 6. Not allowed if the project type is not Emergency Relief or if Eligible for ER is "N". 7. If the program code has an Emergency Relief Type of "Y", then Allocation balances are tracked by Emergency Relief code. 8. Emergency Relief Code is validated only if the project contains a detail record that has the program code with Emergency Relief Type of "Y". Note: Currently ER90 and M9V0 are the only program codes where emergency relief code is set to "Y" in the fund control area, additional program codes can/will be added.
RecipientRemarks	Recipient/State remarks that will appear on the Project	Character field. Max Length: 2000

XML Tag Name	Description	Restrictions
	Agreement	
RecipientComments	Temporary Recipient/State comments used to communicate status of pending project	Character field. Max Length: 2000 Note: This item is not downloadable. These are temporary communications that relate to a pending project and they are deleted after the project receives final division signature. They are not part of the download.
RecCertifierSignature	Name of Recipient signer that certifies that funds were available for obligation.	Character. Max Length: 50
RecCertifierSigDate	Date Recipient signer certified that funds are available for obligation	Date in MM/DD/YYYY HH24:MI:SS format
RecRecommenderSignature	Name of Recipient signer that recommends that the obligation of funds be authorized	Character. Max Length: 50 <u>Business Rules:</u> Recommender signature and date can only be present if Certifier signature is also present.
RecRecommenderSigDate	Date Recipient signer recommends that the obligation of funds be authorized.	Date in MM/DD/YYYY HH24:MI:SS format
RecApproverSignature	Name of the Recipient signer that authorizes the obligation of funds.	Character. Max Length: 50 <u>Business Rules:</u> Approver signature and date can only be present if Recommender signature is also present.
RecApproverSigDate	Date Recipient signer authorizes the obligation of funds	Date in MM/DD/YYYY HH24:MI:SS format

RecipientProjectNumbers Tag Elements Description

XML Tag Name	Description	Restrictions
RecipientProjectNumber	Project identifier used by the State	Character field. Max Length: 13 Within the RecipientProjectNumbers tag, maximum of

		500 RecipientProjectNumber tags are allowed.
--	--	--

ProjectGroups Tag Elements Description

XML Tag Name	Description	Restrictions
GroupCode	Project Group Code that identifies a Project Group	Character field. Max Length: 13 <u>Business Rules:</u> 1. Must be a valid group code from an existing Special Project Group in FMIS. 2. A given project can only be associated with one Special Project Group within a category. Example: A project can only be part of one Major project group. 3. A given project can be associated with more than one special project category. Example: A project can be associated with a Major project group as well as a Pooled Fund project group.

RelatedProject Tag Elements Description

1. Users can add or delete related project entries.
2. A related project entry shall be a two-way relationship. If a user makes an entry in Project A that says project B is related, then if Project B is displayed, project A will appear as a related project of B. The users will need to supply a relationship type between Project A and B and also the relationship type between Project B and A.
3. A project cannot be related to itself.
4. The same project can appear multiple times in the related project list provided that the relationship indicator has a different value for each entry.

XML Tag Name	Description	Restrictions
ProgramCode	Identifying program code for the to-be related project	Any program code from a detail line on the to-be related project. Since the 7-character project ID is not always unique within a State, this program code serves to uniquely identify the project. This is because the same program code cannot occur on more than one project that shares the same State and 7-character project ID. Character field. Max length 4.
RecipientId	Id of the Recipient of the to-be related project	Number field. See Appendix A for valid values.
FederalProjectNumber	Federal Project number of the to-be related project	Character field. Must be 7 characters. Should be a valid existing FMIS project number Note: In cases where the State includes suffix, this field contains a 7-character project ID followed by a hyphen and a 2 digit suffix. Example: ppppppp-01. Suffix is allowed but not required. Note: Federal Project Number is the subject of a future

XML Tag Name	Description	Restrictions
		change to FMIS. Please see "Federal Project Number" in Appendix F.
RelationshipType	Relationship type between the project to the to-be related project	Number. See Appendix A for valid values. <u>Business Rules</u> The following are obsolete relationship types and cannot be used on new project relationships or if changing a relationship type on an existing relationship. Converted Multi-Funded Environmental Impact Statement
ReverseRelationshipType	Relationship type between the to-be related project and the project	Number. See Appendix A – Relationship Type table for valid values. <u>Business Rules</u> The following are obsolete relationship types and cannot be used on new project relationships or if changing a relationship type on an existing relationship. Converted Multi-Funded Environmental Impact Statement

UserDefinedField Tag Elements Description (Applies to both project & detail section)

XML Tag Name	Description	Restrictions
	<ol style="list-style-type: none"> 1. Recipient defined fields that are marked as obsolete cannot be provided. Recipients use online FMIS screens to set Recipient Defined Field definitions, including whether or not an item is obsolete, valid values, etc. 2. Users must provide a valid value if a defined field is an LOV item. Individual LOV values that have been declared obsolete cannot be provided. 3. Users are not required to change obsolete LOV values. 4. For the user defined fields that are defined as a checkbox, a boolean (Y or N) value shall be provided. 5. The user can only provide one of the below 4 elements depending on the data type of the user defined field. For example, if the user defined field is a character field, then the user will provide the <ValueText> element with the field's content/value. <p>Maximum 10 user defined fields is allowed for the Project section. The breakdown is given below. Estimated Construction Date is one of the Date fields.</p> <ul style="list-style-type: none"> 3 – Numeric Fields 4 – Date Fields 3 – Text Fields 	

XML Tag Name	Description	Restrictions
<p>Maximum 9 user defined fields is allowed for Detail section. The breakdown is given below 3 – Numeric Fields 3 – Date Fields 3 – Text Fields</p> <p>Note: Recipient Defined fields are the subject of a future change to FMIS. Please see " User Defined Fields" in Appendix F.</p>		
FieldName	User Defined Field's name	Character field. Max Length: 50
ValueText	Character value	Character field. Max Length: 250
ValueNumber	Numeric value	Number field. Max allowed decimal places: 6.
ValueDate	Date value	Date in MM/DD/YYYY
ValueBoolean	Boolean value	Y or N

Details Tag Elements Description

XML Tag Name	Description	Restrictions
LineNumber	Indicates the Detail line number	<p>Number. Line number can contain a value between 1 and 255.</p> <p><u>Business Rules:</u></p> <ol style="list-style-type: none"> 1. Line number must be unique within a project and program code.
ProgramCode	Program Code	<p>Character field. Max Length: 4</p> <p><u>Business Rules:</u></p> <ol style="list-style-type: none"> 1. Must be a valid FMIS program code. 2. The program code's Federal Funds Source must be "FMIS Only". 3. Obsolete program code is not valid on a new detail line, unless it already exists on the project. 4. New Detail lines cannot be added for cancelled program codes under any conditions. 5. Obligations cannot be increased within a project for an obsolete program code. Fed funds can be increased on individual detail lines or even new detail lines, but any such increases must be offset by decreases on other detail lines. 6. Expired "FMIS Only" program codes are not allowed on new project detail lines The program code may not exist on another project with the same State and project number (project suffix is different).

XML Tag Name	Description	Restrictions
		<p>Note: This rule is the subject of a future change to FMIS. Please see "Expired Program" in Appendix F.</p> <ol style="list-style-type: none"> 7. If the Project Type is Emergency Relief, at least one of the program codes on the project should be Emergency Relief program code (limited-statistics-required = 'Emergency Relief'. 8. Must be an SIB Program Code (limited-statistics-required = 'SIB') if Project Type is SIB. 9. Must be an STP Program Code (limited-statistics-required = 'STP') if Project Type is STP. 10. If a Demo program code is provided for a non-Demo project, the project will be converted to a Demo project. 11. When an Emergency Relief program code is provided for a non-Emergency Relief project, the project will be converted to an Emergency Relief project
ImprovementType	Improvement type	<p>Number. See Appendix A for Improvement Types .</p> <p><u>Business Rules:</u></p> <ol style="list-style-type: none"> 1. If any item on the detail line is changed, the following improvement types are invalid: <ol style="list-style-type: none"> 2 4R-Reconstruction 9 Bridge Replacement 12 Bridge Rehabilitation 46 Design-Build Contract 2. Structure Number is not allowed for Improvement type code 8 (Bridge New Construction). 3. If TAP/TE attribute value for the program code on the detail line is 'Y', improvement type must be a TAP/TE improvement type If ADMIN_ONLY attribute value for the program code on the detail line is 'Y', improvement type must be 27 (Administration). 4. If subsidiary training account attribute value for the program code on the detail line is

XML Tag Name	Description	Restrictions
		'Y', improvement type must be 42 (Training) Note: Subsidiary training is the subject of a future change to FMIS. Please see "Subsidiary Training" in Appendix F.
Demold	Demo ID	Character field. Max Length: 5 <u>Business Rules:</u> <ol style="list-style-type: none"> 1. Only allowed for detail lines with a demo program code. 2. Demo ID must exist on an allocation or apportionment for the Recipient and Program Code. 3. Demo ID cannot be changed once the detail line receives final Division signature.
WithdrawalArea	Withdrawal area	Numeric field. See Appendix A for valid values Max Length: 3 <u>Business Rules:</u> <ol style="list-style-type: none"> 1. Must be a valid Withdrawal Area for withdrawal-attributable program codes. 2. Not allowed on detail lines having non-withdrawal-attributable program codes.
Prefix	Project Prefix	Character Field Max Length:10
Note: The following 7 funds tags can only be provided if percent funds is used at the location level. If the fund amounts need to be provided at the locations level, these 7 fund tags are not allowed as the fund tags in the detail and the fund tags in the location are mutually exclusive.		
ACFunds	Advance Constructions funds	Money field. <u>Business Rules:</u> Can be greater than zero only when advance-construction-allowed indicator for the program code = Y.
FederalFunds	Federal funds	Money field.
StateFunds	State funds	Money field.
LocalFunds	Local funds	Money field.
PrivateFunds	Private funds	Money field.
NonMonetaryFunds	Non-Monetary donations	Money field.
OtherFunds	Other Funds	Money field.
ACConvAmount	Advance Construction Converted amount	Money field.

XML Tag Name	Description	Restrictions
SoftMatchAmount	Soft Match Amount	Money field.
PctFederalShare	Percent federal share	Number. Cannot exceed 100. Two decimal places are allowed.
IsToll	Indicates Toll Facilities financed with Federal Funds.	Boolean: Y or N
IsSafety	Indicates if the project is 100% safety.	Boolean: Y or N <u>Business Rules:</u> The Program Code must be eligible for 100% safety if IsSafety is set to 'Y'.
IsTempMatch	Indicates funds waiver of the State matching share requirement.	Boolean: Y or N
IsIndianReserv	Identifies whether the project is on an Indian Reservation.	Boolean: Y or N
IsAppalachia	Appalachia Development Highway System designation	Boolean: Y or N. Identifies whether the project work is done on the Appalachia Development Highway System
IsConstruction	Identifies whether the detail line relates to the construction phase of the project.	Boolean: Y or N <u>Business Rules:</u> When IsConstruction is set to Y, Improvement Type must be a valid Construction Improvement Type.
sDesignBuild	An agreement that provides for design and construction by a contractor, regardless of whether the agreement is in the form of a design build contract, franchise agreement or any other form of contract approved by the Secretary.	Boolean: Y or N
IsCMGC	Construction Manager/General Contractor	Boolean: Y or N
IsOtherSep14	FHWA's special Experimental Project No. 14 that allows the States to use alternative project delivery or alternative contracting procedures.	Boolean: Y or N
IsHwysForLife	Highways for Life funding	Boolean: Y or N

XML Tag Name	Description	Restrictions
	program	
NoGisReason	GIS Omission Justification as to why the GIS data is not provided	Number. See Appendix A for valid values.

Locations -NonGIS Tag Elements Description

XML Tag Name	Description	Restrictions
StateId	State Identifier	Number. See Appendix A for valid values. This denotes the State where the project is being done. In majority of the cases, this will be the same as the Recipient ID but in cases where the Recipient is not a State, the State where the project is being done will need to be indicated in this field.
CongDistId	Congressional district Identifier	Number. See Appendix A for valid values. <u>Business Rules:</u> Required for States that have congressional districts, except when county is statewide, in which case congressional district is not allowed.
CountyId	County Identifier	Number. See Appendix A for valid values. Note: 999 will be used for statewide.
UrbanId	Urbanized Area Identifier	Must be SUA (small urbanized area), SWP (statewide planning) or a valid urban code. See Appendix A for valid urban code values. <u>Business Rules:</u> <ol style="list-style-type: none"> 1. Required for "urban required" program codes. Note: All "urban attributable" codes are also "urban required". 2. If program code is urban attributable, urbanized area must refer to an urbanized area with a population of at least 200,000. Urban required program codes that are not urban attributable can use any valid urbanized area as well as SWP and SUA. 3. Urbanized area codes '000', 'NAV' are obsolete. These values must be changed to another value when modifying a detail line and are not allowed when adding a detail line. 4. FMIS 4 Urbanized area codes values which are associated with at least one apportionment on the FMIS 4 database, will be migrated "as is" to FMIS 5.

XML Tag Name	Description	Restrictions
		<p>FMIS 5 will not restrict the use of such codes. This means that users will be able to increase or decrease obligations, add detail lines, etc, subject to over-obligation checks and all other typical project validations.</p> <p>5. Urbanized area may not be selected when county is Statewide</p>
UrbanOrRural	Rural or urban designation	<p>Number. See Appendix A for valid values.</p> <p><u>Business Rules</u></p> <ol style="list-style-type: none"> 1. Selection of Urban or Rural is required when county code is other than Statewide. 2. This field should be set to 1 (Urban) when: <ol style="list-style-type: none"> a. Urban Id contains a Urban code on the detail line OR b. Detail line is for a DC or PANYNJ project. 3. If the detail line is statewide and State is other than DC or PANYNJ, this field must be set to 0 (statewide). 4. If this field is not required to be either 1 or 0 by the rules above, and Program Code is a High Risk Rural Road, default to 2 (Rural).
FunctionalSystem	Functional system code	<p>Number. See Appendix A for valid values.</p> <p><u>Business Rules:</u></p> <ol style="list-style-type: none"> 1. Functional System must be "Interstate", "Other Principal Arterial" or "Freeways and Expressway" when System Code is "Interstate." 2. Functional System cannot be "Interstate", "Other Principal Arterial" or "Freeways and Express ways" when System Code is "Not on any Federal-aid System."
SystemCode	Federal-aid System code	<p>Number. See Appendix A for valid values.</p>
GeneralOwnership	Ownership type	<p>Number. See Appendix A for valid values.</p> <p><u>Business Rules:</u> Required when</p> <ol style="list-style-type: none"> 1. Program code belongs to recode 963 (HSIP) or 964 (HRRR) OR 2. When improvement type on the detail is Safety (21,

XML Tag Name	Description	Restrictions
		57) OR 3. When the safety indicator on the detail line is marked Y.
StructureNumber	NBI Bridge Number or Tunnel Number	Character field. Max Length: 15 <u>Business Rules:</u> For Bridge Number: <ol style="list-style-type: none"> 1. A maximum of 200 NBI numbers will be supported per project. There is no maximum limit imposed on per detail line. This limitation was part of the FMIS 5.0 Projects Requirements. 2. Must be the "best" (most recent and valid) bridge number for the span, as indicated by the NBI database. If "best" bridge number is not supplied, then FMIS will respond with an error indicating the bridge number that should be used for the span. A NBI Bridge table contains the "Best_Bridge" flag which designates whether a Structure number is the "best" (most recent and valid) bridge number. FMIS queries the NBI Bridge table to determine whether the Structure Number provided by the user is the best bridge number. 3. Obsolete NBI number must be updated to the "best" bridge number if an existing detail line is updated. 4. The same structure may not be referenced twice on the same detail line. <p>Note: NBI number is the subject of a future change to FMIS. Please see "Optional NBI Number" in Appendix F.</p> For Tunnel Number: <ol style="list-style-type: none"> 5. A maximum of 200 tunnel numbers will be supported per project. 6. The tunnel numbers are subject to duplicate checking. Duplicate numbers are not allowed. 7. Must be a valid tunnel number.
<p>Note: PercentFunds and the fund XML tags below are mutually exclusive. The PercentFund XML tag is used if the funds need to be distributed based on the percentage of funds in the detail record. In this scenario, the fund XML tags in the detail record are provided. If the fund amounts need to be provided at the locations level, then the fund XML tags below can be provided and the PercentFunds should not be provided.</p>		
PercentFunds	Percent of Detail Funds to be applied to the roadway, bridge or tunnel	Number. Cannot exceed 100. Two decimal places are allowed.
ACFunds	Advance Construction	Money field. <u>Business Rules:</u>

XML Tag Name	Description	Restrictions
	funds	Can be greater than zero only when advance-construction-allowed indicator for the program code = Y.
FederalFunds	Federal funds	Money field.
StateFunds	State funds	Money field.
LocalFunds	Local funds	Money field.
PrivateFunds	Private funds	Money field.
NonMonetaryFunds	Non-Monetary donations	Money field.
OtherFunds	Other Funds	Money field.

Locations - GIS Tag Elements Description

XML Tag Name	Description	Restrictions
StateId	State Identifier	Number. See Appendix A for valid values.
RoutelId	Route ID	Character field. Max Length: 60. See "Geospatial Capabilities" section for the Business Rules.
BeginPoint	Begin mile point	Number(8,3) – Maximum digits allowed is 8 of which up to 3 digits is allowed after the decimal point. See "Geospatial Capabilities" section for the Business Rules.
EndPoint	End mile point	Number(8,3) - Maximum digits allowed is 8 of which up to 3 digits is allowed after the decimal point. See "Geospatial Capabilities" section for the Business Rules.
StructureNumber	NBI Bridge Number or Tunnel Number	Character field. Max Length: 15 <u>Business Rules:</u> For Bridge Number: <ol style="list-style-type: none"> 1. A maximum of 200 NBI numbers will be supported per project. 2. Must be the "best" (most recent and valid) bridge number for the span, as indicated by the NBI database. If "best" bridge number is not supplied, then FMIS will respond with an error indicating the bridge number that should be used for the span. 3. Obsolete NBI number must be updated to the "best" bridge number if an existing detail line is updated. 4. The same structure may not be referenced twice on the same detail line. For Tunnel Number: <ol style="list-style-type: none"> 5. A maximum of 200 tunnel numbers will be supported per project.

XML Tag Name	Description	Restrictions
		6. The tunnel numbers are subject to duplicate checking. Duplicate numbers are not allowed. 7. Must be a valid tunnel number.
PercentFunds	Percent of Detail Funds to be applied to the roadway, bridge or tunnel	Number. Cannot exceed 100. Two decimal places are allowed.
ACFunds	Advance Construction funds	Money field. <u>Business Rules:</u> Can be greater than zero only when advance-construction-allowed indicator for the program code = Y.
FederalFunds	Federal funds	Money field.
StateFunds	State funds	Money field.
LocalFunds	Local funds	Money field.
PrivateFunds	Private funds	Money field.
NonMonetaryFunds	Non-Monetary donations	Money field.
OtherFunds	Other Funds	Money field.

Attributes Description

XML Attribute Name	XML Tag(s)	Description
add	Project, Detail	Add a new project and detail.
modify	Project, Detail	Modify an existing project and/or detail.
withdraw	Project, Detail	Withdraw the project or detail record.
delete	Project	Delete a pending project that has no signatures Note: The delete action on the detail line has been discontinued since there is no difference between withdraw and delete.
close	Project	Close the project.
reestablish	Project, Detail	Reestablish the project or detail record.

FMIS Upload File Examples

[1] Add Project

To create a project record with detail information, the file must contain the project fields and the detail fields as shown in the below example.

Note: In this example, the locations element is shown to contain the GIS element. Other GIS and Non-GIS examples are provided later in this document.

```
<?xml version="1.0" encoding="utf-8"?>
<Projects>
  <Project action="add">
    <ProgramCode>H050</ProgramCode>
    <RecipientId>1</RecipientId>
    <FederalProjectNumber>ABC1234</FederalProjectNumber>
    <ProjectType>1</ProjectType>
    <ProjectTitle>This is Project Title</ProjectTitle>
    <ProjectOversight>1</ProjectOversight>
  <!--
  Any of the other Project elements
  -->
  <Details>
    <Detail action="add">
      <LineNumber>1</LineNumber >
      <ProgramCode>H050</ProgramCode>
      <ImprovementType>1</ImprovementType>
    <!--
    One of the fund amounts is required
    -->
    <FederalFunds>1000.00</FederalFunds>

    <PctFederalShare>80</PctFederalShare>
      <IsSafety>Y</IsSafety>
      <IsToll>N</IsToll>
      <IsTempMatch>Y</IsTempMatch >
      <IsIndianReserv>N</IsIndianReserv >
      <IsAppalachia>Y</IsAppalachia>
      <IsConstruction>N</IsConstruction>
      <IsDesignBuild>Y</IsDesignBuild>
      <IsCMGC>N</IsCMGC>
      <IsOtherSep14>Y</IsOtherSep14>
      <IsHwysForLife>N</IsHwysForLife>

  <!--
  Locations element
  -->
  <Locations>
    <GIS>
      <StateId>1</StateId>
```

```

    <RouteId>AL000100000000000</RouteId>
    <BeginPoint>101.430</BeginPoint>
    <EndPoint>221.341</EndPoint>
    <PercentFunds>100</PercentFunds>
  </GIS>
</Locations>

<!--
  Any of the other Detail elements
-->
</Detail>
</Details>
</Project>
</Projects>

```

[2] Modify Project

To modify an existing project record, there are two options:

- 1) You can send in the entire project record that contains fields that need to be modified (or)
- 2) You can just send the data fields that need to be modified in the project along with the project's key fields. The Program Code, Recipient ID, and Federal Project Number in the Projects tag are the project's key fields that uniquely identify a project. Line Number and Program Code are the key fields that uniquely identify a detail record within a project.

Note: The examples provided in all the scenarios below will use the option 2 though option 1 can also be used in all those scenarios.

For example, to update Project title in the project header record and Percent Federal Share field in the detail record, the following XML will suffice though you can send in the entire XML record for the Project with the updated ProjectTitle and Percent Federal Share values.

```

<?xml version="1.0" encoding="utf-8"?>
<Projects>
  <Project action="modify">
    <ProgramCode>H050</ProgramCode>
    <RecipientId>1</RecipientId>
    <FederalProjectNumber>ABC1234</FederalProjectNumber>
    <ProjectTitle>This is updated Project Title</ProjectTitle>
    <Details>
      <Detail action="modify">
        <LineNumber>1</LineNumber>
        <ProgramCode>H050</ProgramCode>
        <ImprovementType>1</ImprovementType>
        <PctFederalShare>80</PctFederalShare>
      </Detail>
    </Details>
  </Project>
</Projects>

```

Note: The Recipient signatures also can be provided along with the project changes as shown below.

```
<?xml version="1.0" encoding="utf-8"?>
<Projects>
  <Project action="modify">
    <ProgramCode>H050</ProgramCode>
    <RecipientId>1</RecipientId >
    <FederalProjectNumber>ABC1234</FederalProjectNumber>
    <ProjectTitle>This is new Project title</ProjectTitle>
    <Details>
      <Detail action="modify">
        <LineNumber>1</LineNumber>
        <ProgramCode>H050</ProgramCode>
        <ImprovementType>1</ImprovementType>
        <PctFederalShare>80</PctFederalShare >
      </Detail>
    </Details>
    <RecCertifierSignature>John David</RecCertifierSignature>
    <RecCertifierSigDate>09/25/2013 14:00:00</RecCertifierSigDate>
    <RecRecommenderSignature>David Warner</RecRecommenderSignature>
    <RecRecommenderSigDate>09/25/2013 16:00:00</RecRecommenderSigDate>
    <RecApproverSignature>John David</RecApproverSignature>
    <RecApproverSigDate>09/26/2013 18:00:00</RecApproverSigDate>
  </Project>
</Projects>
```

[3] Related Projects, Recipient Project Numbers, User Defined Fields & Special Project Groups

To update Related Projects, Recipient Project Numbers and Special Project Groups information in an existing project record, the entire record set needs to be provided rather than just the modified record. For example, if project ZZZ1234 is currently related to project AAA1234 and the need is to modify the project record to add another project BBB1234 as a related project, then the XML needs to include both the related project elements as shown below. If the related project record AAA1234 is not included in the XML file, then it will be deleted from the project record.

When Project B is designated as a related project of project A, a separate relationship type needs to be established from project B back to project A so that there is a two-way relationship.

- Instead of silently creating a two-way relationship the user must acknowledge a pop-up that states that a two-way relationship will be established.
- The user will need to supply a "B to A" relationship type in addition to the "A to B" relationship type; The user will need to select the relationship type for the A to B relationship, as well as the relationship type for the B to A relationship.

EDS will also need to change to carry the B to A relationship type in addition to the A to B relationship already in place (see [ReverseRelationshipType](#) below).

```

<?xml version="1.0" encoding="utf-8"?>
<Projects>
  <Project action="modify">
    <ProgramCode>H050</ProgramCode>
    <RecipientId>1</RecipientId>
    <FederalProjectNumber>ZZZ1234</FederalProjectNumber>
    <RelatedProjects>
      <RelatedProject>
        <ProgramCode>AAA1</ProgramCode>
        <RecipientId>1</RecipientId>
        <FederalProjectNumber>AAA1234</FederalProjectNumber>
        <RelationshipType>4</RelationshipType>
        <ReverseRelationshipType>1</ReverseRelationshipType>
      </RelatedProject>
      <RelatedProject>
        <ProgramCode>BBB1</ProgramCode>
        <RecipientId>1</RecipientId>
        <FederalProjectNumber>BBB1234</FederalProjectNumber>
        <RelationshipType>4</RelationshipType>
        <ReverseRelationshipType>1</ReverseRelationshipType>
      </RelatedProject>
    </RelatedProjects>
  </Project>
</Projects>

```

The above example shall be used as a basis for adding/modifying or deleting User Defined Fields, Recipient Project Numbers and Special Project Groups information in the project.

[4] Nullifying a field

To nullify a field on an existing project record, the XML will need to contain an empty tag corresponding to that field. For example, if the STIPReference needs to be nullified in an existing project record, the following will be the XML.

```

<?xml version="1.0" encoding="utf-8"?>
<Projects>
  <Project action="modify">
    <ProgramCode>H050</ProgramCode>
    <RecipientId>1</RecipientId>
    <FederalProjectNumber>ABC1234</FederalProjectNumber>
    <!--
      STIPReference element shall be left empty
    -->
    <STIPReference></STIPReference>
  </Project>
</Projects>

```

[5] Modifying a project that already has State signature(s)

If a project already has state signatures and if there is a need to modify information in the project, the project needs to be first unsigned before it can be updated. To handle this scenario, the system will perform an implicit unsign action in order to allow the project updates. This action will first remove any State signatures on the project and the project record will then be updated with the information in the XML.

For example to update Project Title in the project header record and Percent Federal Share field in the detail record for a project ABC1234 that already has State signatures, the following will be the XML.

```
<?xml version="1.0" encoding="utf-8"?>
<Projects>
  <Project action="modify">
    <ProgramCode>H050</ProgramCode>
    <RecipientId>1</RecipientId>
    <FederalProjectNumber>ABC1234</FederalProjectNumber>
    <ProjectTitle>This is new Project title</ProjectTitle>
    <Details>
      <Detail action="modify">
        <LineNumber>1</LineNumber>
        <ProgramCode>H050</ProgramCode>
        <ImprovementType>1</ImprovementType>
        <PctFederalShare>80</PctFederalShare>
      </Detail>
    </Details>
  </Project>
</Projects>
```

[6] Convert AC Funds Scenarios

a) **Same Detail:** The most common conversion of AC funds involves decrementing AC and incrementing Fed Funds on the same detail line. Use a detail action of "modify" on the "AC source" detail line which has the AC funds that are being converted.

1. AC converted funds and federal funds on the AC source line should be increased by the conversion amount.
2. Decrease AC amount by the conversion amount
3. **Example:** Assume that \$50 of AC is to be converted on the following detail line:

AC:	\$225	AC Converted: \$20
Fed funds:	\$100	

The following is the XML:

```
<?xml version="1.0" encoding="utf-8"?>
<Projects>
  <Project action="modify">
```

```

<ProgramCode>H050</ProgramCode>
<RecipientId>1</RecipientId >
<FederalProjectNumber>ABC1234</FederalProjectNumber>
<Details>
  <Detail action="modify">
    <LineNumber>1</LineNumber>
    <ProgramCode>H050</ProgramCode>
    <ImprovementType>1</ImprovementType>
    <ACFunds>175.00</ACFunds>
    <FederalFunds>150.00</FederalFunds>
    <ACConvAmount>70.00</ACConvAmount>
  </Detail>
</Details>
</Project>
</Projects>

```

Note: EDS will not perform checks to assure that the above amounts have all been incremented / decremented by \$50. This is because it is possible that the State is combining other actions with the AC conversion. For example, assume that for the same detail line above, \$200 in AC is to be converted, and an additional \$30 in federal funds is to be obligated. Note that the change in federal funds is \$230, whereas the change in AC and AC converted is 200. The following will be the XML for this scenario.

```

<?xml version="1.0" encoding="utf-8"?>
<Projects>
  <Project action="modify">
    <ProgramCode>H050</ProgramCode>
    <RecipientId>1</RecipientId>
    <FederalProjectNumber>ABC1234</FederalProjectNumber>
    <Details>
      <Detail action="modify">
        <LineNumber>1</LineNumber>
        <ProgramCode>H050</ProgramCode>
        <ImprovementType>1</ImprovementType>
        <ACFunds>25.00</ACFunds>
        <FederalFunds>330.00</FederalFunds>
        <ACConvAmount>220.00</ACConvAmount>
      </Detail>
    </Details>
  </Project>
</Projects>

```

6. **Other Detail** - Conversion of AC funds to federal funds on one or more "receiving" detail lines other than the AC source line simply requires XML to be sent for the receiving lines as well as for the source line.

The receiving detail lines may be pre-existing or new. **Example:** Assume that \$50 of AC is to be converted from detail line 1 below, with \$30 to be applied to pre-existing detail line 2, and \$20 to be applied to detail line 3, which is new.

Detail line 1

AC:	\$200	AC Converted: \$20
Fed funds:	\$100	

Detail line 2

AC:	\$0	AC Converted: \$0
Fed funds:	\$400	

```

<?xml version="1.0" encoding="utf-8"?>
<Projects>
  <Project action="modify">
    <ProgramCode>H050</ProgramCode>
    <RecipientId>1</RecipientId>
    <FederalProjectNumber>ABC1234</FederalProjectNumber>
    <Details>
      <!--
Detail Line 1
-->
      <Detail action="modify">
        <LineNumber>1</LineNumber>
        <ProgramCode>H050</ProgramCode>
        <ImprovementType>1</ImprovementType>
        <ACFunds>150.00</ACFunds>
        <FederalFunds>100.00</FederalFunds>
        <ACConvAmount>70.00</ACConvAmount>
      </Detail>
      <!--
Detail Line 2
-->
      <Detail action="modify">
        <LineNumber>2</LineNumber>
        <ProgramCode>H060</ProgramCode>
        <ImprovementType>1</ImprovementType>
        <ACFunds>0.00</ACFunds>
        <FederalFunds>430.00</FederalFunds>
        <ACConvAmount>0.00</ACConvAmount>
      </Detail>
      <!--
Detail Line 3
-->
      <Detail action="add">
        <LineNumber>3</LineNumber>
        <ProgramCode>H070</ProgramCode>

```

```

<ImprovementType>1</ImprovementType>
<ACFunds>0.00</ACFunds>
<FederalFunds>20.00</FederalFunds>
<ACConvAmount>0.00</ACConvAmount>
<PctFederalShare>80</PctFederalShare>
<IsSafety>Y</IsSafety>
<IsToll>N</IsToll>
<IsTempMatch>Y</IsTempMatch>
<IsIndianReserv>N</IsIndianReserv>
<IsAppalachia>Y</IsAppalachia>
<IsConstruction>N</IsConstruction>
<IsDesignBuild>Y</IsDesignBuild>
<IsCMGC>N</IsCMGC>
<IsOtherSep14>Y</IsOtherSep14>
<IsHwysForLife>N</IsHwysForLife>
</Detail>
</Details>
</Project>
</Projects>

```

Note: In the example above, EDS does not attempt to reconcile data for detail lines 2 and 3 with the change in the conversion amount on detail line 1. EDS will simply process the XML for the detail lines as three unrelated actions. As such, detail line 3 will not inherit program code, improvement type or any other values from detail line one. The XML for line 3 would need to contain all values that are required to establish a new detail line.

[7] Project Detail Locations (GIS & Non-GIS)

When the location tag is included for a detail line, all locations for the detail line must be included, rather than just those locations that are being added, removed or changed. When modifying an existing detail line, the locations in the XML file will replace any locations the detail line had previously.

A) For adding a project detail record for a roadway with geospatial location information, the XML needs to have the following location information: State Id, Route Id, Beginning Mile Point and Ending Mile Point. The PercentFunds is optional and if it's not provided the system will automatically assign a default "percentage of funds" to each route ID, based on its share of total mileage across all route IDs for the detail line.

In the example below, a detail line is added with federal funds of \$100,000 and this fund amount is equally divided between two routes.

```

<?xml version="1.0" encoding="utf-8"?>
<Projects>
  <Project action="modify">
    <ProgramCode>H050</ProgramCode>
    <RecipientId>1</RecipientId>
    <FederalProjectNumber>ABC1234</FederalProjectNumber>
    <Details>
      <Detail action="add">

```

```

<LineNumber>2</LineNumber>
<ProgramCode>H050</ProgramCode>
<ImprovementType>1</ImprovementType>
<FederalFunds>100000.00</FederalFunds>
<PctFederalShare>80</PctFederalShare>
<IsSafety>Y</IsSafety>
<IsToll>N</IsToll>
<IsTempMatch>Y</IsTempMatch>
<IsIndianReserv>N</IsIndianReserv>
<IsAppalachia>Y</IsAppalachia>
<IsConstruction>N</IsConstruction>
<IsDesignBuild>Y</IsDesignBuild>
<IsCMGC>N</IsCMGC>
<IsOtherSep14>Y</IsOtherSep14>
<IsHwysForLife>N</IsHwysForLife>
<!-- Location Information -->
<Locations>
  <GIS>
    <StateId>1</StateId>
    <RouteId>AL0001000000000000</RouteId>
    <BeginPoint>101.430</BeginPoint>
    <EndPoint>221.341</EndPoint>
    <PercentFunds>50</PercentFunds>
  </GIS>
  <GIS>
    <StateId>1</StateId>
    <RouteId>AL0001S00000000000</RouteId>
    <BeginPoint>66.072</BeginPoint>
    <EndPoint>79.589</EndPoint>
    <PercentFunds>50</PercentFunds>
  </GIS>
</Locations>
</Detail>
</Details>
</Project>
</Projects>

```

B) For adding a project detail record for a bridge or tunnel improvement type with geospatial location information, the XML needs to have the State Id, Route Id, Begin Mile Point, Structure Number and Percent Funds.

In the example below, a detail line is added with federal funds of \$100,000 and this fund amount is equally divided between two bridges.

```

<?xml version="1.0" encoding="utf-8"?>
<Projects>
  <Project action="modify">
    <ProgramCode>H050</ProgramCode>

```

```

<RecipientId>1</RecipientId>
<FederalProjectNumber>ABC1234</FederalProjectNumber>
<Details>
  <Detail action="add">
    <LineNumber>2</LineNumber>
    <ProgramCode>H050</ProgramCode>
    <ImprovementType>1</ImprovementType>
    <FederalFunds>100000.00</FederalFunds>
    <PctFederalShare>80</PctFederalShare>
    <IsSafety>Y</IsSafety>
    <IsToll>N</IsToll>
    <IsTempMatch>Y</IsTempMatch>
    <IsIndianReserv>N</IsIndianReserv>
    <IsAppalachia>Y</IsAppalachia>
    <IsConstruction>Y</IsConstruction>
    <IsDesignBuild>Y</IsDesignBuild>
    <IsCMGC>N</IsCMGC>
    <IsOtherSep14>Y</IsOtherSep14>
    <IsHwysForLife>N</IsHwysForLife>
  <!-- Location Information -->
  <Locations>
    <GIS>
      <StateId>1</StateId>
      <RouteId>AL0002000000000000</RouteId>
      <BeginPoint>100.163</BeginPoint>
      <StructureNumber>03133056Z0</StructureNumber>
      <PercentFunds>50</PercentFunds>
    </GIS>
    <GIS>
      <StateId>1</StateId>
      <RouteId>AL0002W00000000000</RouteId>
      <BeginPoint>29.502</BeginPoint>
      <StructureNumber>03133057Z0</StructureNumber>
      <PercentFunds>50</PercentFunds>
    </GIS>
  </Locations>
</Detail>
</Details>
</Project>
</Projects>

```

Note: In the example above, the <StructureNumber> element can be used to provide the Tunnel number if a project detail record of Tunnel Improvement type needs to be added.

C) For adding a project detail record for a roadway improvement type where geospatial information is optional (e.g., New Construction), the Non-GIS location information can be provided. In this scenario, the XML needs to have the following:

- County Id
- Urban Area Id (required only for "urban required" program codes)
- Congressional District Id (required in States that have multiple congressional districts and if county is not statewide)
- Urban or Rural indicator (required when county code other than statewide is selected or if the detail line is statewide and the recipient is DC)
- Functional System
- System Code (Federal-aid System Code)
- General Ownership, if applicable
- Percent Funds

In the example below, a detail line is added with federal funds of \$100,000 and this fund amount is applied to a roadway.

```
<?xml version="1.0" encoding="utf-8"?>
<Projects>
  <Project action="modify">
    <ProgramCode>H050</ProgramCode>
    <RecipientId>1</RecipientId>
    <FederalProjectNumber>ABC1234</FederalProjectNumber>
    <Details>
      <Detail action="add">
        <LineNumber>2</LineNumber>
        <ProgramCode>H050</ProgramCode>
        <ImprovementType>1</ImprovementType>
        <FederalFunds>100000.00</FederalFunds>
        <IsSafety>Y</IsSafety>
        <IsToll>N</IsToll>
        <IsTempMatch>Y</IsTempMatch>
        <IsIndianReserv>N</IsIndianReserv>
        <IsAppalachia>Y</IsAppalachia>
        <IsConstruction>Y</IsConstruction>
        <IsDesignBuild>Y</IsDesignBuild>
        <IsCMGC>N</IsCMGC>
        <IsOtherSep14>Y</IsOtherSep14>
        <IsHwysForLife>N</IsHwysForLife>
      </Detail>
    </Details>
  </Project>
</Projects>

<!-- Location Information -->
<Locations>
  <NonGIS>
    <StateId>1</StateId>
    <CongDistId>1</CongDistId>
    <CountyId>1</CountyId>
    <UrbanId>0</UrbanId>
  </NonGIS>
</Locations>
```

```

    <UrbanOrRural>1</UrbanOrRural>
    <FunctionalSystem>1</FunctionalSystem>
    <SystemCode>1</SystemCode>
    <GeneralOwnership>1</GeneralOwnership>
    <PercentFunds>100</PercentFunds>
  </NonGIS>
</Locations>
</Detail>
</Details>
</Project>
</Projects>

```

[8] Withdrawing a project or details

a) To withdraw all detail lines in an active project, the “withdraw” action of the Project element shall be used. The required XML elements are the key fields for the project.

```

<?xml version="1.0" encoding="utf-8"?>
<Projects>
  <Project action="withdraw">
    <ProgramCode>H050</ProgramCode>
    <RecipientId>1</RecipientId>
    <FederalProjectNumber>ABC1234</FederalProjectNumber>
  </Project>
</Projects>

```

b) To withdraw specific detail lines in an active project, the “withdraw” action of the Detail element shall be used. The project and detail record key fields are required in the XML file. In the below example, detail number 2 is withdrawn in the project ABC1234:

```

<?xml version="1.0" encoding="utf-8"?>
<Projects>
  <Project action="modify">
    <ProgramCode>H050</ProgramCode>
    <RecipientId>1</RecipientId>
    <FederalProjectNumber>ABC1234</FederalProjectNumber>
    <Details>
      <Detail action="withdraw">
        <LineNumber>2</LineNumber>
        <ProgramCode>H050</ProgramCode>
        <ImprovementType>1</ImprovementType>
      </Detail>
    </Details>
  </Project>
</Projects>

```

[9] Reestablish the project or details

a) To reestablish all detail lines in a withdrawn project, the “reestablish” action of the Project element shall be used. The required XML elements are the project’s key fields.

```
<?xml version="1.0" encoding="utf-8"?>
<Projects>
  <Project action="reestablish">
    <ProgramCode>H050</ProgramCode>
    <RecipientId>1</RecipientId>
    <FederalProjectNumber>ABC1234</FederalProjectNumber>
  </Project>
</Projects>
```

b) To reestablish specific detail lines in an active project, the “reestablish” action of the Detail element shall be used. The project and detail record key fields are required in the XML file. In the below example, detail number 2 is reestablished in the project ABC1234:

```
<?xml version="1.0" encoding="utf-8"?>
<Projects>
  <Project action="modify">
    <ProgramCode>H050</ProgramCode>
    <RecipientId>1</RecipientId>
    <FederalProjectNumber>ABC1234</FederalProjectNumber>
    <Details>
      <Detail action="reestablish">
        <LineNumber>2</LineNumber >
        <ProgramCode>H050</ProgramCode>
        <ImprovementType>1</ImprovementType>
      </Detail>
    </Details>
  </Project>
</Projects>
```

[10] Deleting a project

Pending projects that have no signatures can be deleted. The XML shall contain the project key fields and shall use the “delete” action for the Project element.

```
<?xml version="1.0" encoding="utf-8"?>
<Projects>
  <Project action="delete">
    <ProgramCode>H050</ProgramCode>
    <RecipientId>1</RecipientId>
    <FederalProjectNumber>ABC1234</FederalProjectNumber>
  </Project>
</Projects>
```

[11] Closing a project

To close a project, the “close” action of the Project element shall be used. The required XML elements are the key fields for the project. Please note that the State is allowed to send in modifications to the project as part of the closing the project.

```
<?xml version="1.0" encoding="utf-8"?>
<Projects>
  <Project action="close">
    <ProgramCode>H050</ProgramCode>
    <RecipientId>1</RecipientId>
    <FederalProjectNumber>ABC1234</FederalProjectNumber>
  </Project>
</Projects>
```

[12] Providing actual amounts instead of percentage of funds

In the examples above, the fund amounts for a detail record were as provided under the detail XML tag and a percentage was provided at the Locations level using the PercentFunds XML tag.

If a detail record needs to be added and if the actual fund amounts need to be provided instead of the percentage of funds, the following is an example. Note that in this scenario, fund amounts cannot be provided at the detail level. It can only be provided at the Locations level and also the percentfunds cannot be provided since percentfunds and the fund amount tags are mutually exclusive.

Example for Non-GIS

```
<?xml version="1.0" encoding="utf-8"?>
<Projects>
  <Project action="modify">
    <ProgramCode>H050</ProgramCode>
    <RecipientId>1</RecipientId>
    <FederalProjectNumber>ABC1234</FederalProjectNumber>
    <Details>
      <Detail action="add">
        <LineNumber>2</LineNumber>
        <ProgramCode>H050</ProgramCode>
        <ImprovementType>1</ImprovementType>
        <IsSafety>Y</IsSafety>
        <IsToll>N</IsToll>
        <IsTempMatch>Y</IsTempMatch>
        <IsIndianReserv>N</IsIndianReserv>
        <IsAppalachia>Y</IsAppalachia>
        <IsConstruction>Y</IsConstruction>
        <IsDesignBuild>Y</IsDesignBuild>
      </Detail>
    </Details>
  </Project>
</Projects>
```

```

<IsCMGC>N</IsCMGC>
<IsOtherSep14>Y</IsOtherSep14>
<IsHwysForLife>N</IsHwysForLife>

<!-- Location Information -->
<Locations>
  <NonGIS>
    <StateId>1</StateId>
    <CongDistId>1</CongDistId>
    <CountyId>1</CountyId>
    <UrbanId>199</UrbanId>
    <UrbanOrRural>1</UrbanOrRural>
    <FunctionalSystem>1</FunctionalSystem>
    <SystemCode>2</SystemCode>
    <GeneralOwnership>3</GeneralOwnership>
  <!-- One or more Fund Amounts can be provided -->
    <FederalFunds>1000.00</FederalFunds>
    <StateFunds>200.00</StateFunds>
  </NonGIS>
</Locations>
</Detail>
</Details>
</Project>
</Projects>

```

Example for GIS (Bridge)

```

<?xml version="1.0" encoding="utf-8"?>
<Projects>
  <Project action="modify">
    <ProgramCode>H050</ProgramCode>
    <RecipientId>1</RecipientId>
    <FederalProjectNumber>ABC1234</FederalProjectNumber>
    <Details>
      <Detail action="add">
        <LineNumber>2</LineNumber>
        <ProgramCode>H050</ProgramCode>
        <ImprovementType>1</ImprovementType>
        <PctFederalShare>80</PctFederalShare>
        <IsSafety>Y</IsSafety>
        <IsToll>N</IsToll>
        <IsTempMatch>Y</IsTempMatch>
        <IsIndianReserv>N</IsIndianReserv>
        <IsAppalachia>Y</IsAppalachia>
        <IsConstruction>Y</IsConstruction>
        <IsDesignBuild>Y</IsDesignBuild>
        <IsCMGC>N</IsCMGC>
        <IsOtherSep14>Y</IsOtherSep14>
      </Detail>
    </Details>
  </Project>
</Projects>

```

```

    <IsHwysForLife>N</IsHwysForLife>
<!-- Location Information -->
  <Locations>
    <GIS>
      <StateId>1</StateId>
      <RouteId>AL000200000000000</RouteId>
      <BeginPoint>100.163</BeginPoint>
      <StructureNumber>03133056Z0</StructureNumber>
<!-- One or more Fund Amounts can be provided -->
      <FederalFunds>1000.00</FederalFunds>
      <StateFunds>200.00</StateFunds>
    </GIS>
    <GIS>
      <StateId>1</StateId>
      <RouteId>AL0002W0000000000</RouteId>
      <BeginPoint>29.502</BeginPoint>
      <StructureNumber>03133057Z0</StructureNumber>
<!-- One or more Fund Amounts can be provided -->
      <FederalFunds>1000.00</FederalFunds>
      <StateFunds>200.00</StateFunds>
    </GIS>
  </Locations>
</Detail>
</Details>
</Project>
</Projects>

```

Error Message Format

Whenever a XML file with project and/or detail records is uploaded through EDS, the system will provide status of the upload. If the upload was successful, an XML file with the count of the project records that were successfully processed will be returned.

```

<?xml version="1.0" encoding="utf-8"?>
<Results>
  <ProcessedProjectsCount>10</ProcessedProjectsCount>
</Results>

```

If there were any problems with the upload, appropriate error message for each project, along with the input XML, will be provided for each project. Only the project with upload issues will not be loaded into the system. All other projects that passed validations will be uploaded into the system.

Please refer to Appendix C for the SFTP location and file name convention for the response file.

Below is an example of a scenario where a project is not processed due to a validation error.

Input File:

```

<?xml version="1.0" encoding="utf-8"?>
<Projects>
<!--
    Project1 – Project Title element is empty
-->
<Project action="add">
  <ProgramCode>H050</ProgramCode>
  <RecipientId>1</RecipientId>
  <FederalProjectNumber>ABC1234</FederalProjectNumber>
  <ProjectType>1</ProjectType>
  <ProjectTitle></ProjectTitle>
  <ProjectOversight>1</ProjectOversight>
  <Details>
    <Detail action="add">
      <LineNumber>1</LineNumber>
      <ProgramCode>H050</ProgramCode>
      <ImprovementType>1</ImprovementType>
      <FederalFunds>1000.00</FederalFunds>
    </Detail>
  </Details>
</Project>
<!--
    Project2
-->
<Project action="add">
  <ProgramCode>H050</ProgramCode>
  <RecipientId>1</RecipientId>
  <FederalProjectNumber>XYZ1234</FederalProjectNumber>
  <ProjectType>1</ProjectType>
  <ProjectTitle>This is Project Title</ProjectTitle>
  <ProjectOversight>1</ProjectOversight>
  <Details>
    <Detail action="add">
      <LineNumber>1</LineNumber>
      <ProgramCode>H050</ProgramCode>
      <ImprovementType>1</ImprovementType>
      <FederalFunds>1000.00</FederalFunds>
    </Detail>
  </Details>
</Project>
</Projects>

```

In the above scenario, the EDS input XML file has two project records to be added to the system (Note: Not all the project and detail elements are shown in the above XML. This example is just to demonstrate a scenario when a project is not loaded due to errors).

The first project record is missing a required field (project title) and the second project record contains all the required fields. The system will successfully upload the second project record and will return an error message in the following XML format for the first project record. There will be one <Errors> element and (1..n) <Error> elements depending on the number of errors. In this example there was one error and so there is one <Error> element under the <Errors> element.

The ProcessedProjectsCount element will contain the value 1 since only one of the two project records was processed successfully.

```
<?xml version="1.0" encoding="utf-8"?>
<Results>
  <ProcessedProjectsCount>1</ProcessedProjectsCount>
  <Project action="add">
    <Errors>
      <Error>Project Title is required</Error>
    </Errors>
    <ProgramCode>H050</ProgramCode>
    <RecipientId>1</RecipientId>
    <FederalProjectNumber>ABC1234</FederalProjectNumber>
    <ProjectType>1</ProjectType>
    <ProjectTitle></ProjectTitle>
    <ProjectOversight>1</ProjectOversight>
    <Details>
      <Detail action="add">
        <LineNumber>1</LineNumber>
        <ProgramCode>H050</ProgramCode>
        <ImprovementType>1</ImprovementType>
        <FederalFunds>1000.00</FederalFunds>
        <PctFederalShare>80</PctFederalShare>
      </Detail>
    </Details>
  </Project>
</Results>
```

Errors Tag Elements Description

XML Tag Name	Description	Restrictions
Error	This tag will contain the error message	Max Length: 256

Project Data Download Format

Project data download will be done using the XML file format explained in the “FMIS Download File XML Tags” section. Each data item is represented by one XML tag. A Recipient can be configured to receive one or more of the following standard extracts via SFTP. Please refer to Appendix C for the SFTP instructions and file name conventions.

W40: Projects just authorized which had expenditure changes.

This report provides all the projects that belong to that recipient subject to the following conditions:

- Project had final division signature on the prior day OR project had an Expenditure change on the previous day

W41: Projects just authorized with obligation changes.

This report provides all the projects that belong to that recipient subject to the following conditions:

- Project had final division signature on the prior day

W43: All current projects.

This report provides all the current projects that belong to that recipient

FMIS Download File XML Tags

```
<?xml version="1.0" encoding="utf-8" ?>
```

```
<Projects>
```

```
<Project>
```

```
<RecipientId/>
```

```
<FederalProjectNumber/>
```

```
<RecipientProjectNumbers>
```

```
<RecipientProjectNumber/>
```

```
</RecipientProjectNumbers>
```

```
<ProjectType/>
```

```
<ProjectStatus/>
```

```
<ProjectAction/>
```

```
<LastActionDate/>
```

```
<DUNS/>
```

```
<ProjectTitle/>
```

```
<ProjectDescription/>
```

```
<CompleteDate/>
```

```
<FinalVoucherDate/>
```

```
<LatestPaymentDate/>
```

```
<AuthPEDate/>
```

```
<AuthROWDate/>
```

```
<AuthConstDate/>
```

```
<AuthSPRDate/>
```

```
<AuthOtherDate/>
```

```
<ProjectOversight/>
```

```
<STIPReference/>
```

```
<IsEREligible/>
```

```
<DisasterFY/>
```

```
<DisasterSeq/>
```

```
<ERCode/>
```

```
<RecipientRemarks/>
```

```
<DivisionRemarks/>
```

```
<NoStateSigReason/>
```

```
<SingleSignatureJust/>
```

```
<RecCertifierSignature />
```

```

<RecCertifierSigDate />
<RecRecommenderSignature />
<RecRecommenderSigDate />
<RecApproverSignature />
<RecApproverSigDate />
<DivReviewerSignature/>
<DivReviewerSigDate/>
<DivRecommenderSignature/>
<DivRecommenderSigDate/>
<DivApproverSignature/>
<DivApproverSigDate/>
<ModificationCount/>
<CreatedBy/>
<CreatedOn/>
<TransactionDate/>
<TransactionNumber/>
<ProjectGroups>
  <ProjectGroup>
    <GroupCategory/>
    <GroupCode/>
    <GroupName/>
  </ProjectGroup>
</ProjectGroups>
<RelatedProjects>
  <RelatedProject>
    <RecipientId />
    <FederalProjectNumber />
    <RelationshipType />
    <ReverseRelationshipType />
  </RelatedProject>
</RelatedProjects>
<UserDefinedFields>
  <UserDefinedField>
    <FieldName />
    <FieldType />
    <ValueText />
    <ValueNumber />
    <ValueDate />
    <ValueBoolean/>
  </UserDefinedField>
</UserDefinedFields>
<LegacyBridgeInfo>
  <Bridge>
    <NBINumber/>
    <ProgramCode/>
    <ImprovementType/>
  </Bridge>
</LegacyBridgeInfo>

```

```

<Details>
  <Detail>
    <LineNumber/>
    <ProgramCode/>
    <ImprovementType/>
    <DetailStatus/>
    <DemoId/>
    <WithdrawalArea/>
    <Prefix/>
    <LastActionDate/>
    <ACConvAmount/>
    <SoftMatchAmount/>
    <PctFederalShare/>
    <IsToll/>
    <IsSafety/>
    <IsTempMatch/>
    <IsIndianReserv/>
    <IsAppalachia/>
    <IsConstruction/>
    <IsDesignBuild/>
    <IsCMGC/>
    <IsOtherSep14/>
    <IsHwysForLife/>
    <NoGisReason/>
    <Locations>

      <NonGIS>
        <StateId/>
        <CongDistId/>
        <CountyId/>
        <UrbanId/>
        <UrbanOrRural/>
        <FunctionalSystem/>
        <SystemCode/>
        <GeneralOwnership/>
        <StructureNumber/>
        <PercentFunds/>
        <ACFunds/>
        <FederalFunds/>
        <StateFunds/>
        <LocalFunds/>
        <PrivateFunds/>
        <NonMonetaryFunds/>
        <OtherFunds/>
        <TotalCost/>
      </NonGIS>
    <GIS>
  
```

```

<StateId/>
<RouteId/>
<BeginPoint/>
<EndPoint/>
<StructureNumber/>
<PercentFunds/>
<ACFunds/>
<FederalFunds/>
<StateFunds/>
<LocalFunds/>
<PrivateFunds/>
<NonMonetaryFunds/>
<OtherFunds/>
<TotalCost/>
<GISBreakdown>
  <CongDistId/>
  <CountyId/>
  <UrbanId/>
  <UrbanOrRural/>
  <FunctionalSystem/>
  <SystemCode/>
  <GeneralOwnership/>
  <ACFunds/>
  <FederalFunds/>
  <StateFunds/>
  <LocalFunds/>
  <PrivateFunds/>
  <NonMonetaryFunds />
  <OtherFunds/>
  <TotalCost/>
</GISBreakdown>
</GIS>
</Locations>
<UserDefinedFields>
  <UserDefinedField>
    <FieldName />
    <FieldType />
    <ValueText />
    <ValueNumber />
    <ValueDate />
    <ValueBoolean/>
  </UserDefinedField>
</UserDefinedFields>
</Detail>
</Details>
<Expenditures>
  <ROWRevolvingFunds/>
  <Expenditure>

```

```

<ProgramCode/>
<DemoId/>
<Amount/>
</Expenditure>
</Expenditures>
</Project>
</Projects>
    
```

Projects Tags Elements Description

XML Tag Name	Description	Restrictions
RecipientId	ID of the Recipient (Will be the State FIPS Code)	Number. See Appendix A for valid values.
FederalProjectNumber	Federal number used to identify the project	Character field. Must be 7 characters. Note: In cases where the project number has a suffix, this field contains a 7-character project ID followed by a hyphen and a 2 digit suffix. Example: ppppppp-01. Note that suffixes will be downloaded as well as the project number Note: Federal Project Number is the subject of a future change to FMIS. Please see "Federal Project Number" in Appendix F.
ProjectType	Type of project	Numeric field. See Appendix A for valid values.
ProjectStatus	Status of the Project	Numeric Field. See Appendix A for valid values.
ProjectAction	Most recent type of change that the state has made to a particular project agreement	Numeric Field. See Appendix A for valid values.
LastActionDate	Date of last activity on a project.	System generated value. This date is updated each time any part of the project is saved, when the project is signed, or when an expenditure is recorded against the project. Date in MM/DD/YYYY HH24:MI:SS format.
DUNS	DUNS Number	Character field. Max Length: 9
ProjectTitle	Brief description of the project.	Character field. Max Length: 150
ProjectDescription	Detailed description of the project.	Character field. Max Length: 2000
CompleteDate	The date all work and inspections were completed.	Date in MM/DD/YYYY format
FinalVoucherDate	Date and time of final	Date in MM/DD/YYYY HH24:MI:SS format

XML Tag Name	Description	Restrictions
	expenditure	
LatestPaymentDate	Date and time of the most recent expenditure against the project.	Date in MM/DD/YYYY HH24:MI:SS format
AuthPEDate	Approval for Preliminary Engineering phase of work.	Date in MM/DD/YYYY format
AuthROWDate	Approval for Right of Way phase of work.	Date in MM/DD/YYYY format
AuthConstDate	Approval for Construction phase of work.	Date in MM/DD/YYYY format
AuthSPRDate	Approval for Planning and Research phase of work.	Date in MM/DD/YYYY format
AuthOtherDate	Approval date for activities other than PE, ROW, Const., and SPR such as Transit.	Date in MM/DD/YYYY format
ProjectOversight	FHWA Project oversight code.	Numeric field. See Appendix A for valid values.
STIPReference	STIP reference	Character field. Max Length: 20
IsEREligible	Flag to indicate if the project is eligible for Emergency Relief	<ol style="list-style-type: none"> 1. Must be "Y" or "N" 2. "Eligible for ER" must default to "Y" and cannot be changed if the Project Type is "Emergency Relief" 3. Disaster Year and Sequence number are required if "Eligible for ER" is set to "Y". 4. "Eligible for ER" cannot be set to "Y" for Demo Projects. "Y" is allowed on all other project types. 5. Limited statistics required rules shall not apply when a project is eligible for ER, but Project Type is not "Emergency Relief"
DisasterFY	Disaster fiscal year	<ol style="list-style-type: none"> 1. Required if at least one active (not withdrawn) detail line on the project contains an Emergency Relief program code (Limited Statistics Required = "ER" or Emergency_Relief_Type='Y'). 2. Required for emergency relief projects and "Eligible for ER" projects.

XML Tag Name	Description	Restrictions
		<ol style="list-style-type: none"> 3. Not allowed if requirement #1 or 2 is not met. 4. Users can key in a year but must be a valid year beginning with 19 or 20. 5. Cannot be a future year. 6. If a user enters a disaster year older than the current calendar year - 2, a warning will appear which prompts the user to confirm that the selected year is accurate. The user will be allowed to save the year if accuracy is confirmed.
DisasterSeq	Disaster sequential number	Numeric field. Max length: 3. Max value is 255 Note: Disaster Sequence is the subject of a future change to FMIS. Please see "Disaster Sequence" in Appendix F.
ERCode	Emergency Relief code. This code uniquely identifies a particular disaster.	Character field. Max Length: 8
RecipientRemarks	Recipient/State remarks that will appear on the Project Agreement	Character field. Max Length: 2000
DivisionRemarks¹	Division remarks that will appear on the Project Agreement	Character field. Max Length: 2000
NoStateSigReason	The reason that that State signature step has been omitted for the project.	Number. See Appendix A for valid values.
SingleSignatureJust	The justification provided by the Division for signing of all three Division signatures by one individual.	Max Length: 515 Character field. The following are the common values for this field. <ul style="list-style-type: none"> - Primary Signatory is out of the office - This modification is to close out the project. No funds are involved. - Re-open project - Final Voucher If the division user had entered a justification that is not from the list above, then that justification will appear in this field.
RecCertifierSignature	Name of Recipient signer that certifies	Character. Max Length: 50

XML Tag Name	Description	Restrictions
	that funds were available for obligation.	
RecCertifierSigDate	Date Recipient signer certified that funds are available for obligation	Date in MM/DD/YYYY HH24:MI:SS format
RecRecommenderSignature	Name of Recipient signer that recommends that the obligation of funds be authorized	Character. Max Length: 50
RecRecommenderSigDate	Date Recipient signer recommends that the obligation of funds be authorized.	Date in MM/DD/YYYY HH24:MI:SS format
RecApproverSignature	Name of the State signer that authorizes the obligation of funds.	Character. Max Length: 50
RecApproverSigDate	Date State signer authorizes the obligation of funds	Date in MM/DD/YYYY HH24:MI:SS format
DivReviewerSignature	Name of the FHWA signer that approves Detail data.	Character. Max Length: 50
DivReviewerSigDate	Date the FHWA signer approves detail data.	Date in MM/DD/YYYY HH24:MI:SS format
DivRecommenderSignature	Name of the FHWA signer that recommends that the obligation of funds be authorized.	Character. Max Length: 50
DivRecommenderSigDate	Date FHWA signer recommends that the obligation of funds be authorized.	Date in MM/DD/YYYY HH24:MI:SS format
DivApproverSignature	Name of the FHWA signer that authorizes the obligation of funds.	Character. Max Length: 50
DivApproverSigDate	Date FHWA signer authorizes the obligation of funds.	Date in MM/DD/YYYY HH24:MI:SS format
ModificationCount	Modification # of the project	Numerical value indicating the number of modifications made on the project. Newly created projects will have Mod number 0 and it increments by 1 with every modification.
CreatedBy	User Name of user that	Character field. MaxLength: 50

XML Tag Name	Description	Restrictions
	first entered/updated this version of the project	
CreatedOn	Date that the Pending Project was first entered into FMIS.	Date in MM/DD/YYYY HH24:MI:SS format
TransactionDate	Transaction date	Date in MM/DD/YYYY HH24:MI:SS format
TransactionNumber	Transaction number	Numeric Field.

¹ – Note that division comments are not downloadable. They can be viewed online.

RecipientProjectNumbers Tag Elements Description

XML Tag Name	Description	Restrictions
RecipientProjectNumber	Project identifier used by the State	Character field. Max Length: 13 A maximum of 500 Recipient Project Numbers will be supported per project.

ProjectGroups Tag Elements Description

XML Tag Name	Description	Restrictions
Group Category	Existing Categories include Major, Pooled Fund and Other	
GroupCode	Code of the Special Project Group	Character field. Max Length: 13
GroupName	Name of the Special Project Group	Character field. Maxlength: 50

RelatedProject Tag Elements Description

XML Tag Name	Description	Restrictions
RecipientId	ID of the Recipient of the to-be related project	Number field. See Appendix A for valid values.
FederalProjectNumber	Federal Project number of the to-be related project	Character field. Must be 7 characters. Note: In cases where the project number has a suffix, this field contains a 7-character project ID followed by a hyphen and a 2 digit suffix. Example: ppppppp-01. Note: Federal Project Number is the subject of a future change to FMIS. Please see "Federal Project Number" in Appendix F.

RelationshipType	Relationship type between the project and the to-be related project	Number. See Appendix A for valid values.
ReverseRelationshipType	Relationship type between the to-be related project and the project	Number. See Appendix A for valid values.

UserDefinedField Tag Elements Description

XML Tag Name	Description	Restrictions
FieldName	User Defined Field's name	Character field. Max Length: 50
FieldType	Indicates if the field is Division or Recipient defined	Character field. Valid values are "Recipient" and "Division"
ValueText	Character value.	Character field. Max Length: 250
ValueNumber	Numeric value	Number field.
ValueDate	Date value	Date in MM/DD/YYYY
ValueBoolean	Boolean value	Y or N

LegacyBridgeInfo Tag Elements Description

XML Tag Name	Description	Restrictions
NBINumber	National Bridge Inventory Number	Character field. Max Length: 15 A maximum of 200 NBI numbers will be supported per project.
ProgramCode	Program Code	Character field. Max Length: 4
ImprovementType	Field which indicates the nature of work involved.	Number.

Detail Tag Elements Description

XML Tag Name	Description	Restrictions
LineNumber	Detail line number	Number. Line number can contain a value between 1 and 255.
ProgramCode	Program Code	Character field. Max Length: 4
ImprovementType	Improvement type	Number. See Appendix A for valid values.
DetailStatus	Used to identify the status of the detail line.	Number. See Appendix A for valid values. Detail lines can be either withdrawn or active. All money amounts are set to zero on withdrawn detail lines. All other statistics can remain.

XML Tag Name	Description	Restrictions
DemoId	Demo ID	Character field. Max Length: 5
WithdrawalArea	Withdrawal area	Numeric field. See Appendix A for valid values. Max Length: 3
Prefix	Project Prefix	Character Field Max Length: 10
LastActionDate	Date of last activity on a given detail line.	System generated value. This date is updated each time the detail line is saved. Will be MM/DD/YYYY HH24:MI:SS for downloads.
ACConvAmount	Advance Construction Converted amount	Money field.
SoftMatchAmount	Soft Match Amount	Money field.
PctFederalShare	Percent federal share	Cannot exceed 100%. Two decimal places are allowed.
IsToll	Indicates Toll Facilities financed with Federal Funds.	Boolean: Y or N
IsSafety	Indicates if the project is 100% safety.	Boolean: Y or N
IsTempMatch	Indicates funds waived of the State matching share requirement.	Boolean: Y or N
IsIndianReserv	Identifies whether the project is on an Indian Reservation.	Boolean: Y or N
IsAppalachia	Appalachia Development Highway System designation	Boolean: Y or N
IsConstruction	Identifies whether the detail line relates to the construction phase of the project.	Boolean: Y or N
IsDesignBuild	An agreement that provides for design and construction by a contractor, regardless of whether the agreement is in the form of a design build contract, franchise agreement or any other form of contract approved by the Secretary.	Boolean: Y or N
IsCMGC	Construction Manager/General Contractor	Boolean: Y or N
IsOtherSep14	FHWA's special Experimental Project No. 14 that allows the Sstates to use alternative project delivery or alternative contracting procedures.	Boolean: Y or N
IsHwysForLife	Highways for Life funding program	Boolean: Y or N
NoGisReason	Reason/Justification as to why the GIS data is not provided	Number. See Appendix A for valid values

Locations -NonGIS Tag Elements Description

XML Tag Name	Description	Restrictions
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XML Tag Name	Description	Restrictions
StateId	State Identifier	Number. See Appendix A for valid values.
CongDistId	Congressional district Identifier	Number. See Appendix A for valid values.
CountyId	County Identifier	Number. See Appendix A for valid values. Note: 999 will be used for statewide.
UrbanId	Urban area Identifier	Must be SUA (small urbanized area), SWP (statewide planning) or a valid urban code. See Appendix A for valid values.
UrbanOrRural	Rural or urban designation	Number. See Appendix A for valid values.
FunctionalSystem	Functional system code	Number. See Appendix A for valid values.
SystemCode	Federal-aid System code	Number. See Appendix A for valid values.
GeneralOwnership	Ownership type	Number. See Appendix A for valid values.
StructureNumber	NBI Bridge Number or Tunnel Number	Character field. Max Length: 15
PercentFunds	Percent of Detail Funds to be applied to the roadway, bridge or tunnel	Cannot exceed 100%. Two decimal places are allowed.
ACFunds	Advance Constructions funds	Money field.
FederalFunds	Federal funds	Money field.
StateFunds	State funds	Money field.
LocalFunds	Local funds	Money field.
PrivateFunds	Private funds	Money field.
NonMonetaryFunds	Non-Monetary funds	Money field.
OtherFunds	Other Funds	Money field.
TotalCost	Total Cost	Money field

Locations - GIS Tag Elements Description

XML Tag Name	Description	Restrictions
StateId	State Identifier	Number. See Appendix A for valid values
RouteId	Route ID	Character field. Max Length: 60
BeginPoint	Begin mile point	Number(8,3) – Maximum digits allowed is 8 of which up to 3 digits is allowed after the decimal point
EndPoint	End mile point	Number(8,3) - Maximum digits allowed is 8 of which up to 3 digits is allowed after the decimal point
StructureNumber	NBI Bridge Number or Tunnel Number	Character field. Max Length: 15
PercentFunds	Percent of Detail Funds to be applied to the roadway, bridge or tunnel	Cannot exceed 100%. Two decimal places are allowed.
ACFunds	Advance Constructions funds	Money field.
FederalFunds	Federal funds	Money field.
StateFunds	State funds	Money field.
LocalFunds	Local funds	Money field.

PrivateFunds	Private funds	Money field.
NonMonetaryFunds	Non-Monetary funds	Money field.
OtherFunds	Other Funds	Money field.
TotalCost	Total Cost	Money field.

Locations - GISBreakdown Tag Elements Description

CongDistId	Congressional district Identifier	Number. See Appendix A for valid values
CountyId	County Identifier	Number. Same as in FMIS 4. 999 will be used for statewide.
UrbanId	Urban area Identifier	Must be SUA (small urbanized area), SWP (statewide planning) or a valid urban code. See Appendix A for valid values.
UrbanOrRural	Rural or urban designation	Number. See Appendix A for valid values.
FunctionalSystem	Functional system code	Number. See Appendix A for valid values.
SystemCode	Federal-aid System code	Number. See Appendix A for valid values.
GeneralOwnership	Ownership type	Number. See Appendix A for valid values.
ACFunds	Advance Constructions funds	Money field.
FederalFunds	Federal funds	Money field.
StateFunds	State funds	Money field.
LocalFunds	Local funds	Money field.
PrivateFunds	Private funds	Money field.
NonMonetaryFunds	Non-Monetary funds	Money field.
OtherFunds	Other Funds	Money field.
TotalCost	Total Cost	Money field.

Expenditures Tag Element Description

ROWRevolvingFunds	Called 102 expenditures in FMIS-4	Money field
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Expenditure Tag Element Description

XML Tag Name	Description	Restrictions
ProgramCode	Program Code	Character field. Length: 4
Demoid	Demo ID	Character field. Max Length: 5
Amount	Total of expenditures applied to the project and program code,	Money field

	or project, program code, and demo ID (demo program codes only).	
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Current Bill Change Summary

Data File Upload

1. The transmitted data, which represents a current bill, will be submitted by the Recipients in a new pipe-delimited file format replacing the previous fixed length file format.
2. The new file format will no longer carry a header and trailer record. This new format is described in the section Current Bill Data Upload Format.

Data identification and categorization

1. The data uploaded will now be identified as a "bill", (previously known a batch) containing one or more program code and project number combinations of expenditure data. However, bills will be separated into categories or bill types using a separate indicator. Current categories are Federal Lands, ARRA, and Federal-aid (Highway Trust Fund).
2. Bill ids will be assigned on a daily basis as opposed to a monthly basis and will be in an alpha-numeric 12 character field. The format will be 'YYYYMMDD_NNN' where the 'YYYYMMDD' is the date on which the file was loaded successfully to the Current Bill database. The 'NNN' will be a three digit sequence number which resets every day.
3. Bill ids for a given category/type and organization will be numbered sequentially, starting with number 001 for the first category/type of the first file for the day, 002 for the second category/type of the first file for the day and so on. If the first file of the day has only one category/type, the second file will carry the number 002. Example: If the first file for a particular day received has all three categories of data specified in 1. above, the file will be split and loaded as follows:

First File: (Has all three types of data)

Bill ID	Category
YYYYMMDD_001	HTF (Highway Trust Fund)
YYYYMMDD_002	ARRA
YYYYMMDD_003	Federal Lands

Second File: (Has only two types of data)

Bill ID	Category
YYYYMMDD_004	HTF (Highway Trust Fund)
YYYYMMDD_005	ARRA

Currently, a duplicate batch is identified on an exact match on the requested payment amount and Recipient against a batch that has been approved by the FHWA Division Office in the past. This feature will be enhanced for a one to one comparison of all the detail lines (Recipient ID, program code, project number, Demo ID and project expenditure amount) between the two bills to determine if the incoming bill is a true duplicate. The payment recipient approving official will be notified that the bill they are accessing through the Bill Information screen is a duplicate and a message will be displayed if they still want to approve the bill or disapprove the same.

New Current Bill File Format

Current Bill Data Upload Format

Current Bill data upload will be done using a pipe-delimited file format. Each data item is separated by a pipe (|) symbol. Each line in the file represents one record. The very first line must have the column names. Column names are not case sensitive and separated by a pipe symbol (|). The following table describes all fields for the Upload format:

Field Name	Field Type	Field Length	Description
BILL_DATE	Date		A State-assigned date that the State uses for its own purposes to track the bill.
PROGRAM_CODE	CHARACTER	4	Four-digit code Valid Program Code
RECIPIENT_ID	NUMERIC	4	Must be a valid recipient ID. Typically this is either a State FIPS code, or Federal Lands cost center.
ACTIVITY	CHARACTER	2	Two digit alphanumeric transaction code. Common value is '50'.
FEDERAL_PROJECT_NO	CHARACTER	7	Project Agreement Number
OBJECT_CLASS	CHARACTER	4	The code, which identifies the nature of services, articles, and other items for which obligations are incurred. Common value is '4100'.
DEMO_ID	CHARACTER	5	This field holds the Demo ID value which is validated for accuracy on the Program Code table. Demo ID is only required if there are two or more detail lines within the project and Program Code that do not share the same demo ID. If provided, the Demo ID and Program Code must exist on the project.
TRANSACTION_TYPE	CHARACTER	2	This is the code that identifies the transaction to Delphi
DETAIL_AMOUNT	NUMERIC	15,2	The amount the State is requesting to be paid for this project.
REQSTD_PAYMENT_DATE	DATE		This is the date the payment is requested for

Example of an upload file

BILL_DATE	PROGRAM_CODE	RECIPIENT_ID	ACTIVITY	FEDERAL_PROJECT_NO	OBJECT_CLASS	DEMO_ID	TRANSACTION_TYPE	DETAIL_AMOUNT	REQSTD_PAYMENT_DATE
09/25/2013	C230	0048	50	2009701	4100	TX210	10	959208.30	09/26/2013
09/25/2013	C230	0048	50	2010305	4100	TX300	10	333874.1	09/26/2013
09/25/2013	C240	0048	50	2009501	4100		10	39908963.17	09/26/2013
09/25/2013	F150	1548	50	2010220	4100	20	-7089.2		09/26/2013
09/25/2013	9A01	1548	50	2007860	4100	10	1993.74		09/26/2013
09/25/2013	HY10	0048	50	2008125	4100		10	427.23	09/26/2013
09/25/2013	HY10	0048	50	2008128	4100		10	284.90	09/26/2013
09/25/2013	HY10	0048	50	2010854	4100		10	14619.59	09/26/2013
09/25/2013	HY10	0048	50	2012232	4100		10	16281.5	09/26/2013

Current Bill ID: **20130925_001**

ARRA Invoices

Current Bill ID: **20130925_002**

Federal Lands Invoices

Current Bill ID: **20130925_003**

Highway Trust Fund Invoices

}

NOTE: 1) The date fields have to be in MM/DD/YYYY format, which means they have to have leading zeros if they happen to be single digit months.
 2) A pipe | followed by another pipe | means there is a field with no values in between that pipe. There should be no other way of denoting a field that is empty (no space/s or zeros).

Current Bill Response File Format

A response file is generated after an upload file is processed. FMIS 5.0 will assign a bill ID to each record within the uploaded file. The response file format is pipe-delimited and will contain the following:

Field Name	Field Type	Field Length	Description
REQSTD_PAYMENT_DATE	DATE		<ul style="list-style-type: none"> ○ This is the date the payment is requested for
PAYMENT_TYPE	CHAR	1	<ul style="list-style-type: none"> ● Indicates the type of payment ● Available options: <ul style="list-style-type: none"> ○ H- Highway ○ F- Fed Land ○ A- ARRA
ASSIGNED_BILL_ID	NUMERIC	10	<ul style="list-style-type: none"> ○ System assigned. <p>Format = <code>yyyymmdd_nnn</code> 'yyyy' is the 4-digit year, 'mm' is the 2 digit month and 'dd' is the 2 digit date of the Requested Payment date and 'nnn' is the sequential number for that particular day.</p>

Current Bill Error File Format

The file upload process will generate an error file with all the records that failed uploading. The file format is pipe-delimited and will contain the following:

Field Name	Field Type	Field Length	Description
LINE_NUMBER	NUMERIC	6	This is the detail line number of a file that helps identify a detail line within each file.
INVOICE_DATE	DATE		This is the batch date from the input file.
PROGRAM_CODE	CHAR	4	A four-digit code which identifies the appropriation that authorized the obligation and expenditure of funds.
RECIPIENT_ID	NUMERIC	4	Must be a valid recipient ID. Typically this is either a State FIPS code, or Federal Lands cost center.
ACTIVITY	CHAR	2	Two digit alphanumeric transaction code. Common value is '50'.
FEDERAL_PROJECT_NO	CHAR	7	Project Agreement Number
OBJECT_CLASS	CHAR	4	The code, which identifies the nature of services, articles, and other items for which obligations are incurred. Common value is '4100'.
DEMO_ID	CHAR	5	This field displays the Demo ID value.
TRANSACTION_TYPE	CHAR	2	This is the code that identifies the transaction to Delphi.
DETAIL_AMOUNT	NUMERIC	15,2	The amount the State is requesting to be paid for this project.
PAYMENT_DATE	DATE		This is the date the payment is requested for.
ERROR_MESSAGE	CHAR	50	This is the entire error message corresponding to the line number.

Appendix A

Functional System

Code	Functional System Description
0	No Functional Classification
1	Interstate
2	Principal Arterial - Other Freeways and Expressways
3	Principal Arterial – Other
4	Minor Arterial
5	Major Collector
6	Minor Collector
7	Local

General Ownership

Code	Ownership Description
1	State
2	Local
3	Other

Reason for No State Signature

Code	Description
1	State Signature on File
2	Signature Not Required

NoGisReason

Code	Description
1	New Construction
2	Off-roadway
3	Prepare for Close
4	Construction Complete
5	Route ID is not on the LRS
6	Congressional District map is not in FMIS

Project Oversight

Code	Project Oversight Designation
1	Full Oversight/State Administered
2	Full Oversight/Locally Administered
3	Delegated/State Administered
4	Delegated/Locally Administered
5	Other
6	(Legacy) Full Oversight (NHS)
7	(Legacy) Full Oversight (non-NHS)
8	(Legacy) State Administered

Project Type

Code	Project Type Description
1	Conventional
2	STP
3	SIB
4	Emergency Relief
5	Demo

Project Status

Note: See Appendix F – Future Changes #10.

Code	Project Status Description
1	State Certification Signature needed
2	State Recommendation Signature needed
3	State Authorization Signature needed
4	Division Review Signature needed
5	Division Recommendation Signature needed
6	Division Authorization Signature needed
7	Rejected by Division
8	Active
9	Closed
10	Closed Pending Expenditures
11	Withdrawn
12	Withdrawn Pending Expenditures
13	Unsigned: State Certification Signature Needed
14	State Modification Signature needed

Project Detail Status

Code	Description
1	Active

2	Withdrawn
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Project Action

Code	Project Action Description
1	New Project
2	Project Close
3	Convert Funding
4	Project Withdrawal
5	ReOpen
6	Project Change

Relationship Type

Code	Relationship Description
1	Construction
2	Demo
3	Environmental Impact Statement (obsolete)
4	Garvee
5	Joint-Funded with Another State
6	Preliminary Engineering
7	Right-Of-Way
8	Converted (obsolete)
9	Multi-Funded (obsolete)

UrbanOrRural

Code	Description
0	Statewide
1	Urban
2	Rural

Improvement Types

Code	Improvement Type Description
1	New Construction Roadway
2	4R-Reconstruction (obsolete)
3	4R-Reconstruction Added Capacity
4	4R-Reconstruction No Added Capacity
5	4R-Maintenance Resurfacing
6	4R-Maintenance Restoration & Rehabilitation
7	4R-Maintenance Relocation
8	Bridge New Construction
9	Bridge Replacement (Obsolete)

Code	Improvement Type Description
10	Bridge Replacement-Added Capacity
11	Bridge Replacement-No Added Capacity
12	Bridge Rehabilitation (Obsolete)
13	Bridge Rehabilitation-Added Capacity
14	Bridge Rehabilitation-No Added Capacity
15	Preliminary Engineering
16	Right of Way
17	Construction Engineering
18	Planning
19	Research
20	Environmental Only
21	Safety
22	Rail/Highway Crossing
23	Transit
24	Traffic Management/Engineering – HOV
25	Vehicle Weight Enforcement Program
26	Ferry Boats
27	Administration
28	Facilities for Pedestrians and Bicycles
29	Acquisition of Scenic Easements and Scenic or Historic Sites
30	Scenic or Historic Highway Programs
31	Landscaping and Other Scenic Beautification
32	Historic Preservation
33	Rehabilitation and Operation of Historic Transportation Building, Structures, or Facilities
34	Preservation of Abandoned Railway Corridors
35	Control and Removal of Outdoor Advertising
36	Archaeological Planning & Research
37	Mitigation of Water Pollution due to Highway Runoff
38	Safety and Education for Peds/Bicyclists
39	Establishment of Transportation Museums
40	Special Bridge
41	Youth Conservation Service
42	Training
43	Utilities
44	Other
45	Debt Service
46	Design-Build Contract (Obsolete)
47	Bridge Preventive Maintenance
48	Bridge Protection
49	Bridge Inspection and Bridge Related Training
50	New Tunnel
51	Tunnel Replacement
52	Tunnel Rehabilitation
53	Tunnel Preservation

Code	Improvement Type Description
54	Tunnel Protection
55	Tunnel Inspection and Tunnel Related Training
56	Other Asset Inspection
57	Safety-Non Infrastructure
58	Freight

Recipient

Note: The recipient ID for Northern Mariana is the subject of a future change to FMIS. Please see "Northern Mariana" in Appendix F.

ID	Postal Abbreviation	Recipient Description
1	AL	Alabama
2	AK	Alaska
4	AZ	Arizona
5	AR	Arkansas
6	CA	California
8	CO	Colorado
9	CT	Connecticut
10	DE	Delaware
11	DC	District of Columbia
12	FL	Florida
13	GA	Georgia
15	HI	Hawaii
16	ID	Idaho
17	IL	Illinois
18	IN	Indiana
19	IA	Iowa
20	KS	Kansas
21	KY	Kentucky
22	LA	Louisiana
23	ME	Maine
24	MD	Maryland
25	MA	Massachusetts
26	MI	Michigan
27	MN	Minnesota
28	MS	Mississippi
29	MO	Missouri
30	MT	Montana
31	NE	Nebraska
32	NV	Nevada

ID	Postal Abbreviation	Recipient Description
33	NH	New Hampshire
34	NJ	New Jersey
35	NM	New Mexico
36	NY	New York
37	NC	North Carolina
38	ND	North Dakota
39	OH	Ohio
40	OK	Oklahoma
41	OR	Oregon
42	PA	Pennsylvania
44	RI	Rhode Island
45	SC	South Carolina
46	SD	South Dakota
47	TN	Tennessee
48	TX	Texas
49	UT	Utah
50	VT	Vermont
51	VA	Virginia
53	WA	Washington
54	WV	West Virginia
55	WI	Wisconsin
56	WY	Wyoming
60	AS	American Samoa
66	GU	Guam
69	MP	Northern Mariana
72	PR	Puerto Rico
78	VI	Virgin Islands
81	CN	Canada
91		Port Authority of NY and NJ

System Codes

Code	System Code Description
1	Interstate
2	NHS Non-Interstate
3	Other Federal-aid Highway
4	Not on any Federal-aid System

States

ID	Postal Abbreviation	State Name
1	AL	Alabama
2	AK	Alaska
4	AZ	Arizona
5	AR	Arkansas
6	CA	California
8	CO	Colorado
9	CT	Connecticut
10	DE	Delaware
11	DC	District of Columbia
12	FL	Florida
13	GA	Georgia
15	HI	Hawaii
16	ID	Idaho
17	IL	Illinois
18	IN	Indiana
19	IA	Iowa
20	KS	Kansas
21	KY	Kentucky
22	LA	Louisiana
23	ME	Maine
24	MD	Maryland
25	MA	Massachusetts
26	MI	Michigan
27	MN	Minnesota
28	MS	Mississippi
29	MO	Missouri
30	MT	Montana
31	NE	Nebraska
32	NV	Nevada
33	NH	New Hampshire
34	NJ	New Jersey
35	NM	New Mexico
36	NY	New York
37	NC	North Carolina
38	ND	North Dakota
39	OH	Ohio
40	OK	Oklahoma
41	OR	Oregon
42	PA	Pennsylvania
44	RI	Rhode Island
45	SC	South Carolina

ID	Postal Abbreviation	State Name
46	SD	South Dakota
47	TN	Tennessee
48	TX	Texas
49	UT	Utah
50	VT	Vermont
51	VA	Virginia
53	WA	Washington
54	WV	West Virginia
55	WI	Wisconsin
56	WY	Wyoming
60	AS	American Samoa
66	GU	Guam
69	MP	Northern Mariana Islands
72	PR	Puerto Rico
78	VI	United States Virgin Islands
81	CN	Canada

Urban Areas

ID	Postal Abbreviation	Urban Area Name
2629	AL	Anniston--Oxford, AL
4033	AL	Auburn, AL
7786	AL	Birmingham, AL
22285	AL	Daphne--Fairhope, AL
22690	AL	Decatur, AL
24472	AL	Dothan, AL
29953	AL	Florence, AL
32113	AL	Gadsden, AL
40780	AL	Huntsville, AL
57925	AL	Mobile, AL
58600	AL	Montgomery, AL
89110	AL	Tuscaloosa, AL
2305	AK	Anchorage, AK
28549	AK	Fairbanks, AK
4549	AZ	Avondale--Goodyear, AZ
14401	AZ	Casa Grande, AZ
29818	AZ	Flagstaff, AZ
46747	AZ	Lake Havasu City, AZ
69184	AZ	Phoenix--Mesa, AZ

ID	Postal Abbreviation	Urban Area Name
72112	AZ	Prescott Valley--Prescott, AZ
81901	AZ	Sierra Vista, AZ
88732	AZ	Tucson, AZ
19801	AR	Conway, AR
29494	AR	Fayetteville--Springdale--Rogers, AR—MO
30925	AR	Fort Smith, AR—OK
40213	AR	Hot Springs, AR
43345	AR	Jonesboro, AR
50392	AR	Little Rock, AR
69454	AR	Pine Bluff, AR
2683	CA	Antioch, CA
3196	CA	Arroyo Grande--Grover Beach, CA
4681	CA	Bakersfield, CA
12754	CA	Camarillo, CA
16318	CA	Chico, CA
19504	CA	Concord, CA
22420	CA	Davis, CA
22987	CA	Delano, CA
26416	CA	El Centro--Calexico, CA
27261	CA	El Paso de Robles (Paso Robles)--Atascadero, CA
28657	CA	Fairfield, CA
31843	CA	Fresno, CA
33328	CA	Gilroy--Morgan Hill, CA
36703	CA	Hanford, CA
38215	CA	Hemet, CA
41347	CA	Indio--Cathedral City, CA
47611	CA	Lancaster--Palmdale, CA
50527	CA	Livermore, CA
50851	CA	Lodi, CA
51040	CA	Lompoc, CA
51445	CA	Los Angeles--Long Beach--Anaheim, CA
52984	CA	Madera, CA
54145	CA	Manteca, CA
56251	CA	Merced, CA
57709	CA	Mission Viejo--Lake Forest--San Clemente, CA
58006	CA	Modesto, CA
60799	CA	Murrieta--Temecula--Menifee, CA

ID	Postal Abbreviation	Urban Area Name
61057	CA	Napa, CA
66673	CA	Oxnard, CA
68887	CA	Petaluma, CA
71074	CA	Porterville, CA
73774	CA	Redding, CA
74179	CA	Reno, NV—CA
75340	CA	Riverside--San Bernardino, CA
77068	CA	Sacramento, CA
78310	CA	Salinas, CA
78661	CA	San Diego, CA
78904	CA	San Francisco--Oakland, CA
79039	CA	San Jose, CA
79147	CA	San Luis Obispo, CA
79282	CA	Santa Barbara, CA
79309	CA	Santa Clarita, CA
79336	CA	Santa Cruz, CA
79417	CA	Santa Maria, CA
79498	CA	Santa Rosa, CA
80362	CA	Seaside--Monterey, CA
82144	CA	Simi Valley, CA
85087	CA	Stockton, CA
87490	CA	Thousand Oaks, CA
88273	CA	Tracy, CA
89083	CA	Turlock, CA
89866	CA	Vacaville, CA
90028	CA	Vallejo, CA
90541	CA	Victorville--Hesperia, CA
90946	CA	Visalia, CA
92890	CA	Watsonville, CA
96994	CA	Woodland, CA
97939	CA	Yuba City, CA
98020	CA	Yuma, AZ—CA
9298	CO	Boulder, CO
18856	CO	Colorado Springs, CO
23527	CO	Denver--Aurora, CO
30628	CO	Fort Collins, CO
34273	CO	Grand Junction, CO

ID	Postal Abbreviation	Urban Area Name
34786	CO	Greeley, CO
46126	CO	Lafayette--Louisville--Erie, CO
51175	CO	Longmont, CO
72613	CO	Pueblo, CO
22096	CT	Danbury, CT—NY
37243	CT	Hartford, CT
62407	CT	New Haven, CT
64135	CT	Norwich--New London, CT—RI
92485	CT	Waterbury, CT
24580	DE	Dover, DE
92242	DC	Washington, DC--VA—MD
8974	FL	Bonita Springs, FL
13510	FL	Cape Coral, FL
23311	FL	Deltona, FL
31060	FL	Fort Walton Beach--Navarre--Wright, FL
32167	FL	Gainesville, FL
39758	FL	Homosassa Springs--Beverly Hills--Citrus Springs, FL
42346	FL	Jacksonville, FL
45451	FL	Kissimmee, FL
45937	FL	Lady Lake--The Villages, FL
46828	FL	Lakeland, FL
48799	FL	Leesburg--Eustis--Tavares, FL
56602	FL	Miami, FL
63838	FL	North Port--Port Charlotte, FL
64567	FL	Ocala, FL
65863	FL	Orlando, FL
67105	FL	Palm Bay--Melbourne, FL
67134	FL	Palm Coast--Daytona Beach--Port Orange, FL
67294	FL	Panama City, FL
68482	FL	Pensacola, FL—AL
71479	FL	Port St. Lucie, FL
77230	FL	St. Augustine, FL
79606	FL	Sarasota--Bradenton, FL
80400	FL	Sebastian--Vero Beach South--Florida Ridge, FL
80416	FL	Sebring--Avon Park, FL
84024	FL	Spring Hill, FL

ID	Postal Abbreviation	Urban Area Name
86464	FL	Tallahassee, FL
86599	FL	Tampa--St. Petersburg, FL
87787	FL	Titusville, FL
96697	FL	Winter Haven, FL
98182	FL	Zephyrhills, FL
901	GA	Albany, GA
3763	GA	Athens-Clarke County, GA
3817	GA	Atlanta, GA
11026	GA	Brunswick, GA
14185	GA	Cartersville, GA
19099	GA	Columbus, GA—AL
22069	GA	Dalton, GA
32194	GA	Gainesville, GA
39133	GA	Hinesville, GA
52822	GA	Macon, GA
76204	GA	Rome, GA
79768	GA	Savannah, GA
89974	GA	Valdosta, GA
91783	GA	Warner Robins, GA
43615	HI	Kahului, HI
43669	HI	Kailua (Honolulu County)--Kaneohe, HI
89770	HI	Urban Honolulu, HI
8785	ID	Boise City, ID
18451	ID	Coeur d'Alene, ID
40996	ID	Idaho Falls, ID
49312	ID	Lewiston, ID—WA
60976	ID	Nampa, ID
70426	ID	Pocatello, ID
6760	IL	Beloit, WI—IL
8407	IL	Bloomington--Normal, IL
13537	IL	Cape Girardeau, MO—IL
13591	IL	Carbondale, IL
15211	IL	Champaign, IL
16264	IN	Chicago, IL—IN
22204	IL	Danville, IL
22366	IL	Davenport, IA—IL
22717	IL	Decatur, IL

ID	Postal Abbreviation	Urban Area Name
22960	IL	DeKalb, IL
43885	IL	Kankakee, IL
44506	IL	Kenosha, WI—IL
68509	IL	Peoria, IL
75718	IL	Rockford, IL
83899	IL	Springfield, IL
2386	IN	Anderson, IN
8380	IN	Bloomington, IN
19126	IN	Columbus, IN
26794	IN	Elkhart, IN—MI
28333	IN	Evansville, IN—KY
31087	IN	Fort Wayne, IN
41212	IN	Indianapolis, IN
45694	IN	Kokomo, IN
46018	IN	Lafayette, IN
56656	IN	Michigan City--La Porte, IN—MI
60625	IN	Muncie, IN
83116	IN	South Bend, IN—MI
87139	IN	Terre Haute, IN
2062	IA	Ames, IA
14752	IA	Cedar Rapids, IA
23743	IA	Des Moines, IA
24823	IA	Dubuque, IA—IL
41590	IA	Iowa City, IA
65269	IA	Omaha, NE—IA
82225	IA	Sioux City, IA--NE—SD
92593	IA	Waterloo, IA
48232	KS	Lawrence, KS
53848	KS	Manhattan, KS
88084	KS	Topeka, KS
95077	KS	Wichita, KS
9379	KY	Bowling Green, KY
26750	KY	Elizabethtown--Radcliff, KY
49582	KY	Lexington-Fayette, KY
51755	KY	Louisville/Jefferson County, KY—IN
66484	KY	Owensboro, KY
1279	LA	Alexandria, LA

ID	Postal Abbreviation	Urban Area Name
5680	LA	Baton Rouge, LA
36514	LA	Hammond, LA
40375	LA	Houma, LA
46045	LA	Lafayette, LA
46531	LA	Lake Charles, LA
53794	LA	Mandeville--Covington, LA
58330	LA	Monroe, LA
62677	LA	New Orleans, LA
81739	LA	Shreveport, LA
82468	LA	Slidell, LA
4951	ME	Bangor, ME
49339	ME	Lewiston, ME
71263	ME	Portland, ME
199	MD	Aberdeen--Bel Air South--Bel Air North, MD
4843	MD	Baltimore, MD
21745	MD	Cumberland, MD--WV—PA
31519	MD	Frederick, MD
36190	MD	Hagerstown, MD--WV—PA
49594	MD	Lexington Park--California--Chesapeake Ranch Estates, MD
78364	MD	Salisbury, MD—DE
91261	MD	Waldorf, MD
94294	MD	Westminster--Eldersburg, MD
5167	MA	Barnstable Town, MA
49096	MA	Leominster--Fitchburg, MA
61786	MA	New Bedford, MA
69778	MA	Pittsfield, MA
83926	MA	Springfield, MA—CT
97291	MA	Worcester, MA—CT
2602	MI	Ann Arbor, MI
5707	MI	Battle Creek, MI
5869	MI	Bay City, MI
7138	MI	Benton Harbor--St. Joseph--Fair Plain, MI
23824	MI	Detroit, MI
29872	MI	Flint, MI
34300	MI	Grand Rapids, MI
39430	MI	Holland, MI

ID	Postal Abbreviation	Urban Area Name
42157	MI	Jackson, MI
43723	MI	Kalamazoo, MI
47719	MI	Lansing, MI
56980	MI	Midland, MI
58357	MI	Monroe, MI
71155	MI	Port Huron, MI
77149	MI	Saginaw, MI
83332	MI	South Lyon--Howell, MI
24850	MN	Duluth, MN—WI
53983	MN	Mankato, MN
57628	MN	Minneapolis--St. Paul, MN—WI
75637	MN	Rochester, MN
77338	MN	St. Cloud, MN
35920	MS	Gulfport, MS
37594	MS	Hattiesburg, MS
42211	MS	Jackson, MS
67807	MS	Pascagoula, MS
1765	MO	Alton, IL—MO
18937	MO	Columbia, MO
42967	MO	Jefferson City, MO
43399	MO	Joplin, MO
43912	MO	Kansas City, MO—KS
48826	MO	Lee's Summit, MO
77743	MO	St. Joseph, MO—KS
77770	MO	St. Louis, MO—IL
83953	MO	Springfield, MO
7705	MT	Billings, MT
34759	MT	Great Falls, MT
57736	MT	Missoula, MT
34246	NE	Grand Island, NE
49933	NE	Lincoln, NE
14158	NV	Carson City, NV
47995	NV	Las Vegas--Henderson, NV
24607	NH	Dover--Rochester, NH—ME
53740	NH	Manchester, NH
61165	NH	Nashua, NH—MA
71506	NH	Portsmouth, NH—ME

ID	Postal Abbreviation	Urban Area Name
3898	NJ	Atlantic City, NJ
88462	NJ	Trenton, NJ
89263	NJ	Twin Rivers--Hightstown, NJ
90658	NJ	Villas, NJ
90730	NJ	Vineland, NJ
1171	NM	Albuquerque, NM
29278	NM	Farmington, NM
47935	NM	Las Cruces, NM
51499	NM	Los Lunas, NM
79363	NM	Santa Fe, NM
970	NY	Albany--Schenectady, NY
10162	NY	Bridgeport--Stamford, CT—NY
11350	NY	Buffalo, NY
27118	NY	Elmira, NY
33598	NY	Glens Falls, NY
41914	NY	Ithaca, NY
45262	NY	Kingston, NY
56899	NY	Middletown, NY
63217	NY	New York--Newark, NY--NJ—CT
71803	NY	Poughkeepsie--Newburgh, NY—NJ
75664	NY	Rochester, NY
79633	NY	Saratoga Springs, NY
86302	NY	Syracuse, NY
89785	NY	Utica, NY
92674	NY	Watertown, NY
3358	NC	Asheville, NC
11728	NC	Burlington, NC
19558	NC	Concord, NC
25228	NC	Durham, NC
29440	NC	Fayetteville, NC
32653	NC	Gastonia, NC—SC
33814	NC	Goldsboro, NC
35164	NC	Greensboro, NC
35380	NC	Greenville, NC
38647	NC	Hickory, NC
38809	NC	High Point, NC
42400	NC	Jacksonville, NC

ID	Postal Abbreviation	Urban Area Name
61840	NC	New Bern, NC
73261	NC	Raleigh, NC
75988	NC	Rocky Mount, NC
95833	NC	Wilmington, NC
96670	NC	Winston-Salem, NC
7921	ND	Bismarck, ND
29089	ND	Fargo, ND—MN
34219	ND	Grand Forks, ND—MN
766	OH	Akron, OH
13375	OH	Canton, OH
16885	OH	Cincinnati, OH--KY—IN
17668	OH	Cleveland, OH
19234	OH	Columbus, OH
22528	OH	Dayton, OH
49852	OH	Lima, OH
51364	OH	Lorain--Elyria, OH
54091	OH	Mansfield, OH
56926	OH	Middletown, OH
61705	OH	Newark, OH
83980	OH	Springfield, OH
87868	OH	Toledo, OH--MI
94726	OH	Wheeling, WV--OH
97831	OH	Youngstown, OH--PA
48394	OK	Lawton, OK
63433	OK	Norman, OK
65080	OK	Oklahoma City, OK
88948	OK	Tulsa, OK
955	OR	Albany, OR
6868	OR	Bend, OR
20422	OR	Corvallis, OR
28117	OR	Eugene, OR
34516	OR	Grants Pass, OR
55981	OR	Medford, OR
71317	OR	Portland, OR--WA
78229	OR	Salem, OR
91405	OR	Walla Walla, WA--OR
1495	PA	Allentown, PA--NJ

ID	Postal Abbreviation	Urban Area Name
1792	PA	Altoona, PA
7732	PA	Binghamton, NY--PA
8434	PA	Bloomsburg--Berwick, PA
15184	PA	Chambersburg, PA
25849	PA	East Stroudsburg, PA--NJ
27766	PA	Erie, PA
36784	PA	Hanover, PA
37081	PA	Harrisburg, PA
37945	PA	Hazleton, PA
43291	PA	Johnstown, PA
47530	PA	Lancaster, PA
48664	PA	Lebanon, PA
58168	PA	Monessen--California, PA
69076	PA	Philadelphia, PA--NJ--DE--MD
69697	PA	Pittsburgh, PA
71749	PA	Pottstown, PA
73693	PA	Reading, PA
80227	PA	Scranton, PA
84493	PA	State College, PA
89650	PA	Uniontown--Connellsville, PA
93592	PA	Weirton--Steubenville, WV--OH--PA
95455	PA	Williamsport, PA
97750	PA	York, PA
631	PR	Aguadilla--Isabela--San Sebastián, PR
3034	PR	Arecibo, PR
28981	PR	Fajardo, PR
30115	PR	Florida--Imbéry--Barceloneta, PR
35866	PR	Guayama, PR
43453	PR	Juana Díaz, PR
55738	PR	Mayagüez, PR
70642	PR	Ponce, PR
78985	PR	San Germán--Cabo Rojo--Sabana Grande, PR
79093	PR	San Juan, PR
97561	PR	Yauco, PR
9271	RI	Boston, MA--NH--RI
72505	RI	Providence, RI--MA
2413	SC	Anderson, SC

ID	Postal Abbreviation	Urban Area Name
4222	SC	Augusta-Richmond County, GA--SC
15508	SC	Charleston--North Charleston, SC
15670	SC	Charlotte, NC--SC
18964	SC	Columbia, SC
30061	SC	Florence, SC
35461	SC	Greenville, SC
39079	SC	Hilton Head Island, SC
55603	SC	Mauldin--Simpsonville, SC
60841	SC	Muskegon, MI
60895	SC	Myrtle Beach--Socastee, SC--NC
75745	SC	Rock Hill, SC
83548	SC	Spartanburg, SC
85708	SC	Sumter, SC
73396	SD	Rapid City, SD
82252	SD	Sioux Falls, SD
15832	TN	Chattanooga, TN--GA
17317	TN	Clarksville, TN--KY
17722	TN	Cleveland, TN
42265	TN	Jackson, TN
43210	TN	Johnson City, TN
45235	TN	Kingsport, TN--VA
45640	TN	Knoxville, TN
56116	TN	Memphis, TN--MS--AR
59410	TN	Morristown, TN
60733	TN	Murfreesboro, TN
61273	TN	Nashville-Davidson, TN
280	TX	Abilene, TX
1927	TX	Amarillo, TX
4384	TX	Austin, TX
6058	TX	Beaumont, TX
10972	TX	Brownsville, TX
18748	TX	College Station--Bryan, TX
19755	TX	Conroe--The Woodlands, TX
20287	TX	Corpus Christi, TX
22042	TX	Dallas--Fort Worth--Arlington, TX
23500	TX	Denton--Lewisville, TX
27253	TX	El Paso, TX--NM

ID	Postal Abbreviation	Urban Area Name
36892	TX	Harlingen, TX
40429	TX	Houston, TX
44992	TX	Killeen, TX
46801	TX	Lake Jackson--Angleton, TX
47854	TX	Laredo, TX
51256	TX	Longview, TX
51877	TX	Lubbock, TX
52390	TX	McAllen, TX
52687	TX	McKinney, TX
57007	TX	Midland, TX
64864	TX	Odessa, TX
70993	TX	Port Arthur, TX
78553	TX	San Angelo, TX
78580	TX	San Antonio, TX
79201	TX	San Marcos, TX
81631	TX	Sherman, TX
87058	TX	Temple, TX
87193	TX	Texarkana--Texarkana, TX--AR
87220	TX	Texas City, TX
89326	TX	Tyler, TX
90514	TX	Victoria, TX
91027	TX	Waco, TX
95104	TX	Wichita Falls, TX
50959	UT	Logan, UT
64945	UT	Ogden--Layton, UT
72559	UT	Provo--Orem, UT
77446	UT	St. George, UT
78499	UT	Salt Lake City--West Valley City, UT
11755	VT	Burlington, VT
8002	VA	Blacksburg, VA
10351	VA	Bristol--Bristol, TN--VA
15724	VA	Charlottesville, VA
31600	VA	Fredericksburg, VA
37162	VA	Harrisonburg, VA
52201	VA	Lynchburg, VA
74746	VA	Richmond, VA
75421	VA	Roanoke, VA

ID	Postal Abbreviation	Urban Area Name
84630	VA	Staunton--Waynesboro, VA
90892	VA	Virginia Beach, VA
95411	VA	Williamsburg, VA
96103	VA	Winchester, VA
6652	WA	Bellingham, WA
9946	WA	Bremerton, WA
44479	WA	Kennewick--Pasco, WA
51283	WA	Longview, WA--OR
55333	WA	Marysville, WA
60490	WA	Mount Vernon, WA
65242	WA	Olympia--Lacey, WA
80389	WA	Seattle, WA
83764	WA	Spokane, WA
93862	WA	Wenatchee, WA
97507	WA	Yakima, WA
6139	WV	Beckley, WV
15481	WV	Charleston, WV
40753	WV	Huntington, WV--KY--OH
59275	WV	Morgantown, WV
67672	WV	Parkersburg, WV--OH
2764	WI	Appleton, WI
26038	WI	Eau Claire, WI
30223	WI	Fond du Lac, WI
34813	WI	Green Bay, WI
42562	WI	Janesville, WI
45910	WI	La Crosse, WI--MN
53200	WI	Madison, WI
57466	WI	Milwaukee, WI
66160	WI	Oshkosh, WI
73153	WI	Racine, WI
76474	WI	Round Lake Beach--McHenry--Grayslake, IL--WI
81118	WI	Sheboygan, WI
93025	WI	Wausau, WI
93916	WI	West Bend, WI
14482	WY	Casper, WY
16237	WY	Cheyenne, WY

Urban Areas (From FMIS4)

ID	Postal Abbreviation	Urban Area Name
256	AK	ANCHORAGE
439	AK	FAIRBANKS
35	AL	BIRMINGHAM
67	AL	MOBILE
109	AL	COLUMBUS (GA)
115	AL	MONTGOMERY
125	AL	PENSACOLA
183	AL	TUSCALOOSA
184	AL	HUNTSVILLE
192	AL	GADSDEN
254	AL	ANNISTON
255	AL	FLORENCE
294	AL	AUBURN-OPELIKA
295	AL	DECATUR
296	AL	DOTHAN
732	AL	DAPHNE-FAIRHOPE
34	AR	MEMPHIS (TN-MS)
92	AR	LITTLE ROCK-NORTH LITTLE ROCK
202	AR	FORT SMITH (OK)
211	AR	TEXARKANA (AR-TX)
219	AR	PINE BLUFF
297	AR	FAYETTEVILLE-SPRINGDALE
452	AR	HOT SPRINGS
454	AR	JONESBORO
700	AR	FAYETTEVILLE-SPRINGDALE-ROGERS
33	AZ	PHOENIX, AZ
73	AZ	TUCSON
287	AZ	YUMA (CA)
420	AZ	FLAGSTAFF
424	AZ	AVONDALE
483	AZ	PRESCOTT
2	CA	LOS ANGELES, CA
6	CA	SAN FRANCISCO-OAKLAND, CA

23	CA	SAN DIEGO, CA
32	CA	SAN JOSE, CA
42	CA	SACRAMENTO
48	CA	SAN BERNARDINO-RIVERSIDE
80	CA	FRESNO
91	CA	POMONA-ONTARIO
117	CA	BAKERSFIELD
119	CA	STOCKTON
187	CA	SANTA BARBARA
191	CA	RENO
224	CA	OXNARD-VENTURA
229	CA	SALINAS
234	CA	MODESTO
235	CA	SANTA ROSA
236	CA	SEASIDE-MONTEREY
237	CA	SIMI VALLEY
257	CA	ANTIOCH-PITTSBURGH
258	CA	SANTA CRUZ
287	CA	YUMA (AZ)
298	CA	CHICO
299	CA	FAIRFIELD
300	CA	HEMET
301	CA	LANCASTER
302	CA	NAPA
303	CA	PALM SPRINGS
304	CA	REDDING
305	CA	SANTA MARIA
306	CA	VISALIA
307	CA	YUBA CITY
380	CA	MERCED
381	CA	DAVIS
391	CA	HESPERIA-APPLE VALLY-VICTORVILLE
396	CA	INDIA-COACHELLA
400	CA	LODI
402	CA	LOMPOC
410	CA	SAN LUIS OBISPO
417	CA	VACAVILLE
419	CA	WATSONVILLE

423	CA	ATASCADERO-ELPASO DE ROBLES
428	CA	CAMARILLO
433	CA	CONCORD
438	CA	EL CENTRO
445	CA	GILROY-MORGAN HILL
464	CA	LIVERMORE
466	CA	MADERA
468	CA	MANTECA
473	CA	MISSION VIEJO
481	CA	PETALUMA
482	CA	PORTERVILLE
493	CA	SANTA CLARITA
496	CA	TEMECULA-MURRIETA
498	CA	THOUSAND OAKS
499	CA	TRACY
500	CA	TURLOCK
503	CA	VALLEJO
510	CA	HANFORD
701	CA	INDIO-CATHEDRAL CITY
702	CA	LOS ANGELES-LONG BEACH-ANAHEIM
703	CA	MISSION VIEJO-LAKE FOREST-SAN CLEME
704	CA	MURRIETA-TEMECULA-MENIFEE
706	CA	SANTA CLARITA
707	CA	VICTORVILLE-HESPERIA
24	CO	DENVER, CO
149	CO	PUEBLO
153	CO	COLORADO SPRINGS
238	CO	BOULDER
308	CO	FORT COLLINS
309	CO	GRAND JUNCTION
310	CO	GREELEY
403	CO	LONGMONT
458	CO	LAFAYETTE-LOUISVILLE
1	CT	NEW YORK-NEWARK
43	CT	SPRINGFIELD-CHICOPEE-HOLYOKE (MA)
47	CT	HARTFORD
51	CT	BRIDGEPORT
64	CT	NEW HAVEN

76	CT	WORCESTER (MA)
103	CT	STAMFORD
118	CT	WATERBURY
154	CT	NEW BRITAIN
176	CT	NORWALK
212	CT	MERIDEN
239	CT	BRISTOL
240	CT	DANBURY (NY)
259	CT	NORWICH-NEW LONDON
406	CT	MERIDEN-NEW HAVEN
512	CT	BRIDGEPORT-STAMFORD-MILFORD(CT-NY)
8	DC	WASHINGTON (MD-VA)
4	DE	PHILADELPHIA
63	DE	WILMINGTON (NJ-MD-PA)
387	DE	DOVER
489	DE	SALISBURY
514	DE	PHILADELPHIA-WILMINGTON(PA-DE-NJ-MD)
21	FL	MIAMI-HIALEAH, FL
50	FL	JACKSONVILLE
57	FL	ST. PETERSBURG
58	FL	FORT LAUDERDALE-HOLLYWOOD-POMP
59	FL	TAMPA
87	FL	ORLANDO
97	FL	WEST PALM BEACH
125	FL	PENSACOLA
220	FL	TALLAHASSEE
241	FL	GAINESVILLE
260	FL	DAYTONA BEACH
261	FL	FORT MYERS-CAPE
262	FL	LAKELAND
263	FL	MELBOURNE-COCOA
264	FL	SARASOTA-BRADENTON
311	FL	FORT PIERCE-STUART
312	FL	FORT WALTON BEACH
313	FL	NAPLES
314	FL	OCALA
315	FL	PANAMA CITY
316	FL	WINTER HAVEN

385	FL	DELTONA
398	FL	KISSIMMEE
408	FL	PUNTA GORDA
412	FL	SPRING HILL
413	FL	STUART
415	FL	TAMPA-ST.PETERSBURG-CLEARWATER,FL
416	FL	TITUSVILLE
418	FL	VERO BEACH
457	FL	LADY LAKE
461	FL	LEESBURG-EUSTIS
485	FL	ST. AUGUSTINE
509	FL	ZEPHYRHILLS
513	FL	MIAMI-HIALEAH-FT.LAUD-HOL-WPALM
708	FL	BONITA SPRINGS
709	FL	PALM COAST-DAYTONA BEACH-PORT ORANG
25	GA	ATLANTA
86	GA	CHATTANOOGA (TN)
100	GA	SAVANNAH
109	GA	COLUMBUS (AL)
131	GA	AUGUSTA (SC)
143	GA	MACON
209	GA	ALBANY
317	GA	ATHENS
318	GA	ROME
319	GA	WARNER ROBINS
382	GA	BRUNSWICK
435	GA	DALTON
444	GA	GAINESVILLE
451	GA	HINESVILLE
502	GA	VALDOSTA
52	HI	HONOLULU
320	HI	KAILUA-KANEOHE
710	HI	URBAN HONOLULU
46	IA	OMAHA (NE)-IA
71	IA	DES MOINES
74	IA	DAVENPORT-ROCK ISLAND-MOLINE (IL)
148	IA	CEDAR RAPIDS
150	IA	WATERLOO

156	IA	SIOUX CITY (NE-SD)
206	IA	DUBUQUE (IL)
327	IA	IOWA CITY
422	IA	AMES
75	ID	SPOKANE
217	ID	BOISE CITY
321	ID	POCATELLO
395	ID	IDAHO FALLS
431	ID	COEUR D'ALENE
463	ID	LEWISTON
479	ID	NAMPA
3	IL	CHICAGO-NORTHWESTERN INDIANA (IN)
11	IL	ST. LOUIS (MO)-IL
74	IL	DAVENPORT-ROCK ISLAND-MOLINE (IA)
93	IL	PEORIA
99	IL	ROCKFORD
138	IL	JOLIET
146	IL	SPRINGFIELD
169	IL	DECATUR
172	IL	AURORA-ELGIN
181	IL	CHAMPAIGN-URBANA
206	IL	DUBUQUE (IA)
227	IL	BLOOMINGTON-NORMAL
265	IL	ALTON
291	IL	BELOIT (WI)
292	IL	AURORA
293	IL	ELGIN
322	IL	DANVILLE
323	IL	KANKAKEE
379	IL	ROUND LAKE BEACH
384	IL	CRYSTAL LAKE
436	IL	DEKALB
3	IN	CHICAGO-NORTHWESTERN INDIANA (IL)
17	IN	CINCINNATI
29	IN	INDIANAPOLIS
31	IN	LOUISVILLE (KY)-IN
77	IN	SOUTH BEND (MI)
94	IN	FORT WAYNE

114	IN	EVANSVILLE (KY)
178	IN	TERRE HAUTE
182	IN	MUNCIE
222	IN	LAFAYETTE-WEST LAFAYETTE
223	IN	ANDERSON
324	IN	BLOOMINGTON
325	IN	ELKHART-GOSHEN
326	IN	KOKOMO
432	IN	COLUMBUS
471	IN	MICHIGAN CITY
711	IN	LOUISVILLE/JEFFERSON COUNTY
19	KS	KANSAS CITY (MO)
62	KS	WICHITA
134	KS	TOPEKA
179	KS	ST. JOSEPH (MO)
328	KS	LAWRENCE
700	KS	MANHATTAN, KS
17	KY	CINCINNATI (OH)
31	KY	LOUISVILLE (IN)
105	KY	HUNTINGTON-ASHLAND (WV-OH)
114	KY	EVANSVILLE (IN)
144	KY	LEXINGTON-FAYETTE
242	KY	OWENSBORO
280	KY	CLARKSVILLE (TN)
427	KY	BOWLING GREEN
484	KY	RADCLIFF-ELIZABETHTOWN
711	KY	LOUISVILLE/JEFFERSON COUNTY
712	KY	HUNTINGTON
22	LA	NEW ORLEANS
85	LA	SHREVEPORT
88	LA	BATON ROUGE
171	LA	LAKE CHARLES
180	LA	MONROE
218	LA	LAFAYETTE
266	LA	ALEXANDRIA
329	LA	HOUMA
411	LA	SLIDELL
467	LA	MANDEVILLE-COVINGTON

7	MA	BOSTON
26	MA	PROVIDENCE-PAWTUCKET-WARWICK (RI)
43	MA	SPRINGFIELD-CHICOPEE-HOLYOKE (CT)
76	MA	WORCESTER, MA-CT
104	MA	LAWRENCE-HAVERHILL (NH)
127	MA	NEW BEDFORD
130	MA	FALL RIVER (RI)
136	MA	LOWELL (NH)
147	MA	BROCKTON
189	MA	FITCHBURG-LEOMINSTER
199	MA	PITTSFIELD
246	MA	NASHUA
332	MA	TAUNTON
394	MA	HYANNIS
511	MA	BOSTON-LAWRENCE-HAVERHILL(MA-NH-RI)
4	MD	PHILADELPHIA
8	MD	WASHINGTON (DC-MD-VA)
12	MD	BALTIMORE,MD
63	MD	WILMINGTON (DE-NJ-PA)
284	MD	HAGERSTOWN (PA)
285	MD	CUMBERLAND (WV)
331	MD	ANNAPOLIS
388	MD	FREDERICK
421	MD	ABERDEEN-HAVRE DE GRACE-BEL AIR
486	MD	ST. CHARLES
489	MD	SALISBURY
505	MD	WESTMINISTER
514	MD	PHILADELPHIA-WILMINGTON(PA-DE-NJ-MD)
716	MD	ABERDEEN-BEL AIR SOUTH--BEL AIR NOR
145	ME	PORTLAND
196	ME	LEWISTON-AUBURN
283	ME	PORTSMOUTH-DOVER-ROCHESTER (NH)
330	ME	BANGOR
437	ME	DOVER-ROCHESTER
5	MI	DETROIT,MI
44	MI	TOLEDO (OH)
61	MI	GRAND RAPIDS

65	MI	FLINT
77	MI	SOUTH BEND-MISHAWAKA, IN-MI
102	MI	LANSING
123	MI	SAGINAW
141	MI	KALAMAZOO
142	MI	ANN ARBOR
162	MI	MUSKEGON-MUSKEGON HEIGHTS
186	MI	BAY CITY
190	MI	JACKSON
197	MI	MIDLAND
267	MI	BATTLE CREEK
333	MI	BENTON HARBOR
334	MI	PORT HURON
360	MI	ELKHART
392	MI	HOLLAND
471	MI	MICHIGAN CITY
474	MI	MONROE
495	MI	SOUTH LYON-HOWELL-BRIGHTON
13	MN	MINNEAPOLIS-ST. PAU, MN
113	MN	DULUTH-SUPERIOR (WI)
188	MN	FARGO-MOORHEAD (ND)
243	MN	LA CROSSE (WI)
244	MN	ROCHESTER
268	MN	ST. CLOUD
289	MN	GRAND FORKS (ND)
701	MN	MANKATO, MN
11	MO	ST. LOUIS (IL)
19	MO	KANSAS CITY (KS)-MO
157	MO	SPRINGFIELD
179	MO	ST. JOSEPH (KS)
245	MO	COLUMBIA
337	MO	JOPLIN
453	MO	JEFFERSON CITY
462	MO	LEE'S SUMMITT
700	MO	FAYETTEVILLE--SPRINGDALE-ROGERS
34	MS	MEMPHIS (TN-AR)
112	MS	JACKSON
231	MS	BILOXI-GULFPORT

335	MS	HATTIESBURG
336	MS	PASCAGOULA-MOSS POINT
719	MS	GULFPORT
204	MT	BILLINGS
210	MT	GREAT FALLS
338	MT	MISSOULA
82	NC	CHARLOTTE
124	NC	WINSTON-SALEM
132	NC	GREENSBORO
163	NC	RALEIGH
173	NC	DURHAM
193	NC	ASHEVILLE
195	NC	HIGH POINT
221	NC	FAYETTEVILLE
226	NC	WILMINGTON
271	NC	BURLINGTON
272	NC	GASTONIA
343	NC	KANNAPOLIS
344	NC	GOLDSBORO
345	NC	HICKORY
346	NC	JACKSONVILLE
390	NC	GREENVILLE
409	NC	ROCKY MOUNT
725	NC	CONCORD
727	NC	MYRTLE BEACH-SOCASTEE
188	ND	FARGO-MOORHEAD (MN)
289	ND	GRAND FORKS (MN)
347	ND	BISMARCK-MANDAN
46	NE	OMAHA (IA)
121	NE	LINCOLN
156	NE	SIOUX CITY (IA-SD)
7	NH	BOSTON
104	NH	LAWRENCE-HAVERHILL (MA-NH)
136	NH	LOWELL (MA)
165	NH	MANCHESTER
246	NH	NASHUA
283	NH	PORTSMOUTH-DOVER-ROCHESTER (ME)
437	NH	DOVER-ROCHESTER

511	NH	BOSTON(NH)LAWREN-HAVERH,MA(MA-NH-RI
1	NJ	NEW YORK-NORTHEASTERN NJ (NY)
4	NJ	PHILADELPHIA (PA)
63	NJ	WILMINGTON (DE-MD-PA)
68	NJ	ALLENTOWN-BETHLEHEM-EASTON (PA)
69	NJ	TRENTON (PA)
128	NJ	ATLANTIC CITY
233	NJ	VINELAND-MILLVILLE
270	NJ	POUGHKEEPSIE--NEWBURGH
450	NJ	HIGHSTOWN
506	NJ	WILDWOOD-NORTH WILDWOOD-CAPE MAY
514	NJ	PHILADELPHIA-WILMINGTON(PA-DE-NJ-MD
723	NJ	ALLENTOWN
66	NM	EL PASO, TX-NM
70	NM	ALBUQUERQUE
339	NM	LAS CRUCES
340	NM	SANTA FE
441	NM	FARMINGTON
170	NV	LAS VEGAS
191	NV	RENO
429	NV	CARSON CITY
721	NV	LAS VEGAS-HENDERSON
1	NY	NEW YORK-NORTHEASTERN NJ (NJ)
16	NY	BUFFALO-NIAGARA FALLS, NY
39	NY	ROCHESTER
41	NY	ALBANY-SCHENECTADY-TROY
51	NY	BRIDGEPORT-STAMFORD
56	NY	SYRACUSE
89	NY	UTICA-ROME
110	NY	BINGHAMTON
240	NY	DANBURY (CT)
269	NY	ELMIRA
270	NY	POUGHKEEPSIE-NEWBURGH
341	NY	GLENS FALLS
342	NY	NEWBURGH
397	NY	ITHACA
456	NY	KINGSTON

472	NY	MIDDLETOWN
494	NY	SARATOGA SPRINGS
512	NY	BRIDGEPORT-STAMFORD-MILFORD(CT-NY)
724	NY	ALBANY--SCHENECTADY
10	OH	CLEVELAND, OH
17	OH	CINCINNATI (KY)
30	OH	COLUMBUS
38	OH	DAYTON
40	OH	AKRON
44	OH	TOLEDO (MI)
49	OH	YOUNGSTOWN-WARREN
79	OH	CANTON
105	OH	HUNTINGTON-ASHLAND (WV-KY)
116	OH	LORAIN-ELYRIA
155	OH	WHEELING (WV)
167	OH	SPRINGFIELD
168	OH	HAMILTON
177	OH	STEUBENVILLE-WEIRTON (WV-PA)
198	OH	LIMA
228	OH	MANSFIELD
273	OH	PARKERSBURG (WV)
290	OH	SHARON (PA)
348	OH	MIDDLETOWN
349	OH	NEWARK
490	OH	SANDUSKY
712	OH	HUNTINGTON
45	OK	OKLAHOMA CITY
60	OK	TULSA
200	OK	LAWTON
202	OK	FORT SMITH (AR)
350	OK	ENID
480	OK	NORMAN
27	OR	PORTLAND (WA)
161	OR	EUGENE
225	OR	SALEM
286	OR	LONGVIEW (WA)
351	OR	MEDFORD
425	OR	BEND

434	OR	CORVALLIS
4	PA	PHILADELPIA (NJ)
9	PA	PITTSBURGH , PA
49	PA	YOUNGSTOWN
63	PA	WILMINGTON (DE-MD-NJ)
68	PA	ALLENTOWN-BETHLEHEM-EASTON (NJ)
69	PA	TRENTON (NJ)
72	PA	WILKES-BARRE
81	PA	SCRANTON
83	PA	HARRISBURG
95	PA	ERIE
107	PA	READING
110	PA	BINGHAMTON
152	PA	YORK
159	PA	JOHNSTOWN
164	PA	LANCASTER
175	PA	ALTOONA
177	PA	STEUBENVILLE-WEIRTON (OH-WV)
274	PA	WILLIAMSPORT
281	PA	SCRANTON--WILKES-BARRE
284	PA	HAGERSTOWN (MD)
285	PA	CUMBERLAND
290	PA	SHARON (OH)
352	PA	MONESSEN
353	PA	STATE COLLEGE
407	PA	POTTSTOWN
449	PA	HAZLETON
460	PA	LEBANON
501	PA	UNIONTOWN-CONNELLSVILLE
514	PA	PHILADELPH-WILMINGTON (PA-DE-NJ-MD)
723	PA	ALLENTOWN
214	PR	SAN JUAN
215	PR	PONCE
216	PR	MAYAGUEZ
247	PR	CAGUAS
376	PR	AGUDILLA
377	PR	ARECIBO
378	PR	VEGA BAJA-MANATI

383	PR	CAYEY
393	PR	HUMACAO
440	PR	FAJARDO
442	PR	FLORIDA-BARCELONETA-BAJADERO
446	PR	GUAVAMA
455	PR	JUANA DIAZ
491	PR	SAN GERMAN-CABO ROJO-SABANA GRANDE
508	PR	YAUCO
1	PY	NEW YORK-NORTHEASTERN NJ (NJ)
7	RI	BOSTON
26	RI	PROVIDENCE-PAWTUCKET-WARWICK (MA)
130	RI	FALL RIVER (MA)
259	RI	NORWICH-NEW LONDON
354	RI	NEWPORT
511	RI	BOSTON(RI)LAWREN-HAVERH,MA(MA-NH-RI
82	SC	CHARLOTTE
106	SC	COLUMBIA
108	SC	CHARLESTON
126	SC	GREENVILLE
131	SC	AUGUSTA (GA)
275	SC	SPARTANBURG
355	SC	ANDERSON
356	SC	FLORENCE
357	SC	ROCK HILL
404	SC	MYRTLE BEACH
414	SC	SUMTER
470	SC	MAULDIN-SIMPSONVILLE
727	SC	MYRTLE BEACH--SOCASTEE
156	SD	SIOUX CITY (IA-NE)
194	SD	SIOUX FALLS
358	SD	RAPID CITY
34	TN	MEMPHIS (AR-MS)
54	TN	NASHVILLE-DAVIDSON
86	TN	CHATTANOOGA (GA)
98	TN	KNOXVILLE
276	TN	KINGSPORT (VA)
280	TN	CLARKSVILLE (KY)

288	TN	BRISTOL TN- VA
359	TN	JACKSON
360	TN	JOHNSON CITY
430	TN	CLEVELAND
476	TN	MORRISTOWN
478	TN	MURFREESBORO
15	TX	HOUSTON
18	TX	DALLAS
28	TX	SAN ANTONIO
37	TX	FORT WORTH
66	TX	EL PASO
90	TX	AUSTIN
96	TX	CORPUS CHRISTI
120	TX	AMARILLO
122	TX	LUBBOCK
135	TX	BEAUMONT
137	TX	GALVESTON
139	TX	PORT ARTHUR
140	TX	WACO
151	TX	WICHITA FALLS
166	TX	ABILENE
174	TX	ODESSA
197	TX	MIDLAND
201	TX	HARLINGEN-SAN BENITO
205	TX	LAREDO
208	TX	SAN ANGELO
211	TX	TEXARKANA (TX-AR)
213	TX	TYLER
230	TX	MCALLEN-PHARR-EDINBURG
232	TX	SHERMAN-DENISON
248	TX	BROWNSVILLE
249	TX	BRYAN-COLLEGE STATION
250	TX	TEXAS CITY- LA MARQUE
277	TX	KILLEEN
282	TX	DALLAS-FORT WORTH
361	TX	LONGVIEW
362	TX	TEMPLE
363	TX	VICTORIA

386	TX	DENTON
399	TX	LEWISVILLE
459	TX	LAKE JACKSON-ANGLETON
465	TX	MCKINNEY
497	TX	THE WOODLANDS
729	TX	CONROE--THE WOODLANDS
53	UT	SALT LAKE CITY
133	UT	OGDEN
203	UT	PROVO-OREM
401	UT	LOGAN
487	UT	ST. GEORGE
730	UT	SALT LAKE CITY--WEST VALLEY CITY
8	VA	WASHINGTON (DC-MD-VA)
36	VA	NORFOLK-PORTSMOUTH
55	VA	RICHMOND
84	VA	NEWPORT NEWS-HAMPTON
129	VA	ROANOKE
207	VA	LYNCHBURG
251	VA	PETERSBURG-COLONIAL HEIGHTS
276	VA	KINGSPORT (TN)
288	VA	BRISTOL (VA-TN)
365	VA	CHARLOTTESVILLE
366	VA	DANVILLE
389	VA	FREDERICKSBURG
405	VA	NEWP NEWS-HAMPTON-VA BEACH-NORFOLK
426	VA	BLACKSBURG
448	VA	HARRISONBURG
507	VA	WINCHESTER
508	VA	STAUNTON-WAYNESBORO
364	VT	BURLINGTON
20	WA	SEATTLE, WA
27	WA	PORTLAND-VANCOUVER, OR-WA
75	WA	SPOKANE
78	WA	TACOMA
278	WA	RICHLAND-KENNEWICK
279	WA	YAKIMA
286	WA	LONGVIEW (OR)
367	WA	BELLINGHAM

368	WA	BREMERTON
369	WA	OLYMPIA
427	WA	BOIWLING GREEN
463	WA	LEWISTON
469	WA	MARYVILLE
477	WA	MOUNT VERNON
504	WA	WENATCHEE
515	WA	SEATTLE-TACOMA, WA
731	WA	KENNEWICK—PASCO
13	WI	MINNEAPOLIS--ST PAUL
14	WI	MILWAUKEE
111	WI	MADISON
113	WI	DULUTH-SUPERIOR (MN)
158	WI	GREEN BAY
160	WI	RACINE
185	WI	KENOSHA
243	WI	LA CROSSE (MN)
252	WI	APPLETON
253	WI	OSHKOSH
291	WI	BELOIT (IL)
370	WI	EAU CLAIRE
371	WI	JANESVILLE
372	WI	SHEBOYGAN
373	WI	WAUSAU
379	WI	ROUND LAKE BEACH-MCHENRY GRAVELAKE
443	WI	FOND DU LAC
916	WI	WEST BEND
101	WV	CHARLESTON
105	WV	HUNTINGTON-ASHLAND (KY-OH)
155	WV	WHEELING (OH)
177	WV	STEUBENVILLE-WEIRTON (OH-PA)
273	WV	PARKERSBURG (OH)
284	WV	HAGERSTOWN
285	WV	CUMBERLAND (MD)
712	WV	HUNTINGTON
374	WY	CASPER
375	WY	CHEYENNE
475	WY	MORGANTOWN

Congressional Districts

State Code	Postal Abbreviation	District Code	Congressional District Name
1	AL	1	Congressional District 1
1	AL	2	Congressional District 2
1	AL	3	Congressional District 3
1	AL	4	Congressional District 4
1	AL	5	Congressional District 5
1	AL	6	Congressional District 6
1	AL	7	Congressional District 7
2	AK	0	Congressional District (at Large)
4	AZ	1	Congressional District 1
4	AZ	2	Congressional District 2
4	AZ	3	Congressional District 3
4	AZ	4	Congressional District 4
4	AZ	5	Congressional District 5
4	AZ	6	Congressional District 6
4	AZ	7	Congressional District 7
4	AZ	8	Congressional District 8
4	AZ	9	Congressional District 9
5	AR	1	Congressional District 1
5	AR	2	Congressional District 2
5	AR	3	Congressional District 3
5	AR	4	Congressional District 4
6	CA	1	Congressional District 1
6	CA	2	Congressional District 2
6	CA	3	Congressional District 3
6	CA	4	Congressional District 4
6	CA	5	Congressional District 5
6	CA	6	Congressional District 6
6	CA	7	Congressional District 7
6	CA	8	Congressional District 8
6	CA	9	Congressional District 9
6	CA	10	Congressional District 10
6	CA	11	Congressional District 11
6	CA	12	Congressional District 12
6	CA	13	Congressional District 13
6	CA	14	Congressional District 14
6	CA	15	Congressional District 15
6	CA	16	Congressional District 16
6	CA	17	Congressional District 17
6	CA	18	Congressional District 18
6	CA	19	Congressional District 19
6	CA	20	Congressional District 20

State Code	Postal Abbreviation	District Code	Congressional District Name
6	CA	21	Congressional District 21
6	CA	22	Congressional District 22
6	CA	23	Congressional District 23
6	CA	24	Congressional District 24
6	CA	25	Congressional District 25
6	CA	26	Congressional District 26
6	CA	27	Congressional District 27
6	CA	28	Congressional District 28
6	CA	29	Congressional District 29
6	CA	30	Congressional District 30
6	CA	31	Congressional District 31
6	CA	32	Congressional District 32
6	CA	33	Congressional District 33
6	CA	34	Congressional District 34
6	CA	35	Congressional District 35
6	CA	36	Congressional District 36
6	CA	37	Congressional District 37
6	CA	38	Congressional District 38
6	CA	39	Congressional District 39
6	CA	40	Congressional District 40
6	CA	41	Congressional District 41
6	CA	42	Congressional District 42
6	CA	43	Congressional District 43
6	CA	44	Congressional District 44
6	CA	45	Congressional District 45
6	CA	46	Congressional District 46
6	CA	47	Congressional District 47
6	CA	48	Congressional District 48
6	CA	49	Congressional District 49
6	CA	50	Congressional District 50
6	CA	51	Congressional District 51
6	CA	52	Congressional District 52
6	CA	53	Congressional District 53
8	CO	1	Congressional District 1
8	CO	2	Congressional District 2
8	CO	3	Congressional District 3
8	CO	4	Congressional District 4
8	CO	5	Congressional District 5
8	CO	6	Congressional District 6
8	CO	7	Congressional District 7
9	CT	1	Congressional District 1
9	CT	2	Congressional District 2
9	CT	3	Congressional District 3
9	CT	4	Congressional District 4

State Code	Postal Abbreviation	District Code	Congressional District Name
9	CT	5	Congressional District 5
10	DE	0	Congressional District (at Large)
11	DC	98	Delegate District (at Large)
12	FL	1	Congressional District 1
12	FL	2	Congressional District 2
12	FL	3	Congressional District 3
12	FL	4	Congressional District 4
12	FL	5	Congressional District 5
12	FL	6	Congressional District 6
12	FL	7	Congressional District 7
12	FL	8	Congressional District 8
12	FL	9	Congressional District 9
12	FL	10	Congressional District 10
12	FL	11	Congressional District 11
12	FL	12	Congressional District 12
12	FL	13	Congressional District 13
12	FL	14	Congressional District 14
12	FL	15	Congressional District 15
12	FL	16	Congressional District 16
12	FL	17	Congressional District 17
12	FL	18	Congressional District 18
12	FL	19	Congressional District 19
12	FL	20	Congressional District 20
12	FL	21	Congressional District 21
12	FL	22	Congressional District 22
12	FL	23	Congressional District 23
12	FL	24	Congressional District 24
12	FL	25	Congressional District 25
12	FL	26	Congressional District 26
12	FL	27	Congressional District 27
13	GA	1	Congressional District 1
13	GA	2	Congressional District 2
13	GA	3	Congressional District 3
13	GA	4	Congressional District 4
13	GA	5	Congressional District 5
13	GA	6	Congressional District 6
13	GA	7	Congressional District 7
13	GA	8	Congressional District 8
13	GA	9	Congressional District 9
13	GA	10	Congressional District 10
13	GA	11	Congressional District 11
13	GA	12	Congressional District 12
13	GA	13	Congressional District 13
13	GA	14	Congressional District 14

State Code	Postal Abbreviation	District Code	Congressional District Name
15	HI	1	Congressional District 1
15	HI	2	Congressional District 2
16	ID	1	Congressional District 1
16	ID	2	Congressional District 2
17	IL	1	Congressional District 1
17	IL	2	Congressional District 2
17	IL	3	Congressional District 3
17	IL	4	Congressional District 4
17	IL	5	Congressional District 5
17	IL	6	Congressional District 6
17	IL	7	Congressional District 7
17	IL	8	Congressional District 8
17	IL	9	Congressional District 9
17	IL	10	Congressional District 10
17	IL	11	Congressional District 11
17	IL	12	Congressional District 12
17	IL	13	Congressional District 13
17	IL	14	Congressional District 14
17	IL	15	Congressional District 15
17	IL	16	Congressional District 16
17	IL	17	Congressional District 17
17	IL	18	Congressional District 18
18	IN	1	Congressional District 1
18	IN	2	Congressional District 2
18	IN	3	Congressional District 3
18	IN	4	Congressional District 4
18	IN	5	Congressional District 5
18	IN	6	Congressional District 6
18	IN	7	Congressional District 7
18	IN	8	Congressional District 8
18	IN	9	Congressional District 9
19	IA	1	Congressional District 1
19	IA	2	Congressional District 2
19	IA	3	Congressional District 3
19	IA	4	Congressional District 4
20	KS	1	Congressional District 1
20	KS	2	Congressional District 2
20	KS	3	Congressional District 3
20	KS	4	Congressional District 4
21	KY	1	Congressional District 1
21	KY	2	Congressional District 2
21	KY	3	Congressional District 3
21	KY	4	Congressional District 4
21	KY	5	Congressional District 5

State Code	Postal Abbreviation	District Code	Congressional District Name
21	KY	6	Congressional District 6
22	LA	1	Congressional District 1
22	LA	2	Congressional District 2
22	LA	3	Congressional District 3
22	LA	4	Congressional District 4
22	LA	5	Congressional District 5
22	LA	6	Congressional District 6
23	ME	1	Congressional District 1
23	ME	2	Congressional District 2
24	MD	1	Congressional District 1
24	MD	2	Congressional District 2
24	MD	3	Congressional District 3
24	MD	4	Congressional District 4
24	MD	5	Congressional District 5
24	MD	6	Congressional District 6
24	MD	7	Congressional District 7
24	MD	8	Congressional District 8
25	MA	1	Congressional District 1
25	MA	2	Congressional District 2
25	MA	3	Congressional District 3
25	MA	4	Congressional District 4
25	MA	5	Congressional District 5
25	MA	6	Congressional District 6
25	MA	7	Congressional District 7
25	MA	8	Congressional District 8
25	MA	9	Congressional District 9
26	MI	1	Congressional District 1
26	MI	2	Congressional District 2
26	MI	3	Congressional District 3
26	MI	4	Congressional District 4
26	MI	5	Congressional District 5
26	MI	6	Congressional District 6
26	MI	7	Congressional District 7
26	MI	8	Congressional District 8
26	MI	9	Congressional District 9
26	MI	10	Congressional District 10
26	MI	11	Congressional District 11
26	MI	12	Congressional District 12
26	MI	13	Congressional District 13
26	MI	14	Congressional District 14
27	MN	1	Congressional District 1
27	MN	2	Congressional District 2
27	MN	3	Congressional District 3
27	MN	4	Congressional District 4

State Code	Postal Abbreviation	District Code	Congressional District Name
27	MN	5	Congressional District 5
27	MN	6	Congressional District 6
27	MN	7	Congressional District 7
27	MN	8	Congressional District 8
28	MS	1	Congressional District 1
28	MS	2	Congressional District 2
28	MS	3	Congressional District 3
28	MS	4	Congressional District 4
29	MO	1	Congressional District 1
29	MO	2	Congressional District 2
29	MO	3	Congressional District 3
29	MO	4	Congressional District 4
29	MO	5	Congressional District 5
29	MO	6	Congressional District 6
29	MO	7	Congressional District 7
29	MO	8	Congressional District 8
30	MT	0	Congressional District (at Large)
31	NE	1	Congressional District 1
31	NE	2	Congressional District 2
31	NE	3	Congressional District 3
32	NV	1	Congressional District 1
32	NV	2	Congressional District 2
32	NV	3	Congressional District 3
32	NV	4	Congressional District 4
33	NH	1	Congressional District 1
33	NH	2	Congressional District 2
34	NJ	1	Congressional District 1
34	NJ	2	Congressional District 2
34	NJ	3	Congressional District 3
34	NJ	4	Congressional District 4
34	NJ	5	Congressional District 5
34	NJ	6	Congressional District 6
34	NJ	7	Congressional District 7
34	NJ	8	Congressional District 8
34	NJ	9	Congressional District 9
34	NJ	10	Congressional District 10
34	NJ	11	Congressional District 11
34	NJ	12	Congressional District 12
35	NM	1	Congressional District 1
35	NM	2	Congressional District 2
35	NM	3	Congressional District 3
36	NY	1	Congressional District 1
36	NY	2	Congressional District 2
36	NY	3	Congressional District 3

State Code	Postal Abbreviation	District Code	Congressional District Name
36	NY	4	Congressional District 4
36	NY	5	Congressional District 5
36	NY	6	Congressional District 6
36	NY	7	Congressional District 7
36	NY	8	Congressional District 8
36	NY	9	Congressional District 9
36	NY	10	Congressional District 10
36	NY	11	Congressional District 11
36	NY	12	Congressional District 12
36	NY	13	Congressional District 13
36	NY	14	Congressional District 14
36	NY	15	Congressional District 15
36	NY	16	Congressional District 16
36	NY	17	Congressional District 17
36	NY	18	Congressional District 18
36	NY	19	Congressional District 19
36	NY	20	Congressional District 20
36	NY	21	Congressional District 21
36	NY	22	Congressional District 22
36	NY	23	Congressional District 23
36	NY	24	Congressional District 24
36	NY	25	Congressional District 25
36	NY	26	Congressional District 26
36	NY	27	Congressional District 27
37	NC	1	Congressional District 1
37	NC	2	Congressional District 2
37	NC	3	Congressional District 3
37	NC	4	Congressional District 4
37	NC	5	Congressional District 5
37	NC	6	Congressional District 6
37	NC	7	Congressional District 7
37	NC	8	Congressional District 8
37	NC	9	Congressional District 9
37	NC	10	Congressional District 10
37	NC	11	Congressional District 11
37	NC	12	Congressional District 12
37	NC	13	Congressional District 13
38	ND	0	Congressional District (at Large)
39	OH	1	Congressional District 1
39	OH	2	Congressional District 2
39	OH	3	Congressional District 3
39	OH	4	Congressional District 4
39	OH	5	Congressional District 5
39	OH	6	Congressional District 6

State Code	Postal Abbreviation	District Code	Congressional District Name
39	OH	7	Congressional District 7
39	OH	8	Congressional District 8
39	OH	9	Congressional District 9
39	OH	10	Congressional District 10
39	OH	11	Congressional District 11
39	OH	12	Congressional District 12
39	OH	13	Congressional District 13
39	OH	14	Congressional District 14
39	OH	15	Congressional District 15
39	OH	16	Congressional District 16
40	OK	1	Congressional District 1
40	OK	2	Congressional District 2
40	OK	3	Congressional District 3
40	OK	4	Congressional District 4
40	OK	5	Congressional District 5
41	OR	1	Congressional District 1
41	OR	2	Congressional District 2
41	OR	3	Congressional District 3
41	OR	4	Congressional District 4
41	OR	5	Congressional District 5
42	PA	1	Congressional District 1
42	PA	2	Congressional District 2
42	PA	3	Congressional District 3
42	PA	4	Congressional District 4
42	PA	5	Congressional District 5
42	PA	6	Congressional District 6
42	PA	7	Congressional District 7
42	PA	8	Congressional District 8
42	PA	9	Congressional District 9
42	PA	10	Congressional District 10
42	PA	11	Congressional District 11
42	PA	12	Congressional District 12
42	PA	13	Congressional District 13
42	PA	14	Congressional District 14
42	PA	15	Congressional District 15
42	PA	16	Congressional District 16
42	PA	17	Congressional District 17
42	PA	18	Congressional District 18
44	RI	1	Congressional District 1
44	RI	2	Congressional District 2
45	SC	1	Congressional District 1
45	SC	2	Congressional District 2
45	SC	3	Congressional District 3
45	SC	4	Congressional District 4

State Code	Postal Abbreviation	District Code	Congressional District Name
45	SC	5	Congressional District 5
45	SC	6	Congressional District 6
45	SC	7	Congressional District 7
46	SD	0	Congressional District (at Large)
47	TN	1	Congressional District 1
47	TN	2	Congressional District 2
47	TN	3	Congressional District 3
47	TN	4	Congressional District 4
47	TN	5	Congressional District 5
47	TN	6	Congressional District 6
47	TN	7	Congressional District 7
47	TN	8	Congressional District 8
47	TN	9	Congressional District 9
48	TX	1	Congressional District 1
48	TX	2	Congressional District 2
48	TX	3	Congressional District 3
48	TX	4	Congressional District 4
48	TX	5	Congressional District 5
48	TX	6	Congressional District 6
48	TX	7	Congressional District 7
48	TX	8	Congressional District 8
48	TX	9	Congressional District 9
48	TX	10	Congressional District 10
48	TX	11	Congressional District 11
48	TX	12	Congressional District 12
48	TX	13	Congressional District 13
48	TX	14	Congressional District 14
48	TX	15	Congressional District 15
48	TX	16	Congressional District 16
48	TX	17	Congressional District 17
48	TX	18	Congressional District 18
48	TX	19	Congressional District 19
48	TX	20	Congressional District 20
48	TX	21	Congressional District 21
48	TX	22	Congressional District 22
48	TX	23	Congressional District 23
48	TX	24	Congressional District 24
48	TX	25	Congressional District 25
48	TX	26	Congressional District 26
48	TX	27	Congressional District 27
48	TX	28	Congressional District 28
48	TX	29	Congressional District 29
48	TX	30	Congressional District 30
48	TX	31	Congressional District 31

State Code	Postal Abbreviation	District Code	Congressional District Name
48	TX	32	Congressional District 32
48	TX	33	Congressional District 33
48	TX	34	Congressional District 34
48	TX	35	Congressional District 35
48	TX	36	Congressional District 36
49	UT	1	Congressional District 1
49	UT	2	Congressional District 2
49	UT	3	Congressional District 3
49	UT	4	Congressional District 4
50	VT	0	Congressional District (at Large)
51	VA	1	Congressional District 1
51	VA	2	Congressional District 2
51	VA	3	Congressional District 3
51	VA	4	Congressional District 4
51	VA	5	Congressional District 5
51	VA	6	Congressional District 6
51	VA	7	Congressional District 7
51	VA	8	Congressional District 8
51	VA	9	Congressional District 9
51	VA	10	Congressional District 10
51	VA	11	Congressional District 11
53	WA	1	Congressional District 1
53	WA	2	Congressional District 2
53	WA	3	Congressional District 3
53	WA	4	Congressional District 4
53	WA	5	Congressional District 5
53	WA	6	Congressional District 6
53	WA	7	Congressional District 7
53	WA	8	Congressional District 8
53	WA	9	Congressional District 9
53	WA	10	Congressional District 10
54	WV	1	Congressional District 1
54	WV	2	Congressional District 2
54	WV	3	Congressional District 3
55	WI	1	Congressional District 1
55	WI	2	Congressional District 2
55	WI	3	Congressional District 3
55	WI	4	Congressional District 4
55	WI	5	Congressional District 5
55	WI	6	Congressional District 6
55	WI	7	Congressional District 7
55	WI	8	Congressional District 8
56	WY	0	Congressional District (at Large)
60	AS	98	Delegate District (at Large)

State Code	Postal Abbreviation	District Code	Congressional District Name
66	GU	98	Delegate District (at Large)
69		98	Delegate District (at Large)
72	PR	98	Resident Commissioner District (at Large)
78	VI	98	Delegate District (at Large)

Counties

State Code	Postal Abbreviation	County ID	County Name
1	AL	1	Autauga
1	AL	3	Baldwin
1	AL	5	Barbour
1	AL	7	Bibb
1	AL	9	Blount
1	AL	11	Bullock
1	AL	13	Butler
1	AL	15	Calhoun
1	AL	17	Chambers
1	AL	19	Cherokee
1	AL	21	Chilton
1	AL	23	Choctaw
1	AL	25	Clarke
1	AL	27	Clay
1	AL	29	Cleburne
1	AL	31	Coffee
1	AL	33	Colbert
1	AL	35	Conecuh
1	AL	37	Coosa
1	AL	39	Covington
1	AL	41	Crenshaw
1	AL	43	Cullman
1	AL	45	Dale
1	AL	47	Dallas
1	AL	49	DeKalb
1	AL	51	Elmore
1	AL	53	Escambia
1	AL	55	Etowah
1	AL	57	Fayette
1	AL	59	Franklin
1	AL	61	Geneva
1	AL	63	Greene

State Code	Postal Abbreviation	County ID	County Name
1	AL	65	Hale
1	AL	67	Henry
1	AL	69	Houston
1	AL	71	Jackson
1	AL	73	Jefferson
1	AL	75	Lamar
1	AL	77	Lauderdale
1	AL	79	Lawrence
1	AL	81	Lee
1	AL	83	Limestone
1	AL	85	Lowndes
1	AL	87	Macon
1	AL	89	Madison
1	AL	91	Marengo
1	AL	93	Marion
1	AL	95	Marshall
1	AL	97	Mobile
1	AL	99	Monroe
1	AL	101	Montgomery
1	AL	103	Morgan
1	AL	105	Perry
1	AL	107	Pickens
1	AL	109	Pike
1	AL	111	Randolph
1	AL	113	Russell
1	AL	115	St. Clair
1	AL	117	Shelby
1	AL	119	Sumter
1	AL	121	Talladega
1	AL	123	Tallapoosa
1	AL	125	Tuscaloosa
1	AL	127	Walker
1	AL	129	Washington
1	AL	131	Wilcox
1	AL	133	Winston
1	AL	999	Statewide
2	AK	13	Aleutians East
2	AK	16	Aleutians West
2	AK	20	Anchorage
2	AK	50	Bethel
2	AK	60	Bristol Bay
2	AK	68	Denali
2	AK	70	Dillingham
2	AK	90	Fairbanks North Star

State Code	Postal Abbreviation	County ID	County Name
2	AK	100	Haines
2	AK	105	Hoonah-Angoon
2	AK	110	Juneau
2	AK	122	Kenai Peninsula
2	AK	130	Ketchikan Gateway
2	AK	150	Kodiak Island
2	AK	164	Lake and Peninsula
2	AK	170	Matanuska-Susitna
2	AK	180	Nome
2	AK	185	North Slope
2	AK	188	Northwest Arctic
2	AK	195	Petersburg
2	AK	198	Prince of Wales-Hyder
2	AK	220	Sitka
2	AK	230	Skagway
2	AK	240	Southeast Fairbanks
2	AK	261	Valdez-Cordova
2	AK	270	Wade Hampton
2	AK	275	Wrangell
2	AK	282	Yakutat
2	AK	290	Yukon-Koyukuk
2	AK	999	Statewide
4	AZ	1	Apache
4	AZ	3	Cochise
4	AZ	5	Coconino
4	AZ	7	Gila
4	AZ	9	Graham
4	AZ	11	Greenlee
4	AZ	12	La Paz
4	AZ	13	Maricopa
4	AZ	15	Mohave
4	AZ	17	Navajo
4	AZ	19	Pima
4	AZ	21	Pinal
4	AZ	23	Santa Cruz
4	AZ	25	Yavapai
4	AZ	27	Yuma
4	AZ	999	Statewide
5	AR	1	Arkansas
5	AR	3	Ashley
5	AR	5	Baxter
5	AR	7	Benton
5	AR	9	Boone
5	AR	11	Bradley

State Code	Postal Abbreviation	County ID	County Name
5	AR	13	Calhoun
5	AR	15	Carroll
5	AR	17	Chicot
5	AR	19	Clark
5	AR	21	Clay
5	AR	23	Cleburne
5	AR	25	Cleveland
5	AR	27	Columbia
5	AR	29	Conway
5	AR	31	Craighead
5	AR	33	Crawford
5	AR	35	Crittenden
5	AR	37	Cross
5	AR	39	Dallas
5	AR	41	Desha
5	AR	43	Drew
5	AR	45	Faulkner
5	AR	47	Franklin
5	AR	49	Fulton
5	AR	51	Garland
5	AR	53	Grant
5	AR	55	Greene
5	AR	57	Hempstead
5	AR	59	Hot Spring
5	AR	61	Howard
5	AR	63	Independence
5	AR	65	Izard
5	AR	67	Jackson
5	AR	69	Jefferson
5	AR	71	Johnson
5	AR	73	Lafayette
5	AR	75	Lawrence
5	AR	77	Lee
5	AR	79	Lincoln
5	AR	81	Little River
5	AR	83	Logan
5	AR	85	Lonoke
5	AR	87	Madison
5	AR	89	Marion
5	AR	91	Miller
5	AR	93	Mississippi
5	AR	95	Monroe
5	AR	97	Montgomery
5	AR	99	Nevada

State Code	Postal Abbreviation	County ID	County Name
5	AR	101	Newton
5	AR	103	Ouachita
5	AR	105	Perry
5	AR	107	Phillips
5	AR	109	Pike
5	AR	111	Poinsett
5	AR	113	Polk
5	AR	115	Pope
5	AR	117	Prairie
5	AR	119	Pulaski
5	AR	121	Randolph
5	AR	123	St. Francis
5	AR	125	Saline
5	AR	127	Scott
5	AR	129	Searcy
5	AR	131	Sebastian
5	AR	133	Sevier
5	AR	135	Sharp
5	AR	137	Stone
5	AR	139	Union
5	AR	141	Van Buren
5	AR	143	Washington
5	AR	145	White
5	AR	147	Woodruff
5	AR	149	Yell
5	AR	999	Statewide
6	CA	1	Alameda
6	CA	3	Alpine
6	CA	5	Amador
6	CA	7	Butte
6	CA	9	Calaveras
6	CA	11	Colusa
6	CA	13	Contra Costa
6	CA	15	Del Norte
6	CA	17	El Dorado
6	CA	19	Fresno
6	CA	21	Glenn
6	CA	23	Humboldt
6	CA	25	Imperial
6	CA	27	Inyo
6	CA	29	Kern
6	CA	31	Kings
6	CA	33	Lake
6	CA	35	Lassen

State Code	Postal Abbreviation	County ID	County Name
6	CA	37	Los Angeles
6	CA	39	Madera
6	CA	41	Marin
6	CA	43	Mariposa
6	CA	45	Mendocino
6	CA	47	Merced
6	CA	49	Modoc
6	CA	51	Mono
6	CA	53	Monterey
6	CA	55	Napa
6	CA	57	Nevada
6	CA	59	Orange
6	CA	61	Placer
6	CA	63	Plumas
6	CA	65	Riverside
6	CA	67	Sacramento
6	CA	69	San Benito
6	CA	71	San Bernardino
6	CA	73	San Diego
6	CA	75	San Francisco
6	CA	77	San Joaquin
6	CA	79	San Luis Obispo
6	CA	81	San Mateo
6	CA	83	Santa Barbara
6	CA	85	Santa Clara
6	CA	87	Santa Cruz
6	CA	89	Shasta
6	CA	91	Sierra
6	CA	93	Siskiyou
6	CA	95	Solano
6	CA	97	Sonoma
6	CA	99	Stanislaus
6	CA	101	Sutter
6	CA	103	Tehama
6	CA	105	Trinity
6	CA	107	Tulare
6	CA	109	Tuolumne
6	CA	111	Ventura
6	CA	113	Yolo
6	CA	115	Yuba
6	CA	999	Statewide
8	CO	1	Adams
8	CO	3	Alamosa
8	CO	5	Arapahoe

State Code	Postal Abbreviation	County ID	County Name
8	CO	7	Archuleta
8	CO	9	Baca
8	CO	11	Bent
8	CO	13	Boulder
8	CO	14	Broomfield
8	CO	15	Chaffee
8	CO	17	Cheyenne
8	CO	19	Clear Creek
8	CO	21	Conejos
8	CO	23	Costilla
8	CO	25	Crowley
8	CO	27	Custer
8	CO	29	Delta
8	CO	31	Denver
8	CO	33	Dolores
8	CO	35	Douglas
8	CO	37	Eagle
8	CO	39	Elbert
8	CO	41	El Paso
8	CO	43	Fremont
8	CO	45	Garfield
8	CO	47	Gilpin
8	CO	49	Grand
8	CO	51	Gunnison
8	CO	53	Hinsdale
8	CO	55	Huerfano
8	CO	57	Jackson
8	CO	59	Jefferson
8	CO	61	Kiowa
8	CO	63	Kit Carson
8	CO	65	Lake
8	CO	67	La Plata
8	CO	69	Larimer
8	CO	71	Las Animas
8	CO	73	Lincoln
8	CO	75	Logan
8	CO	77	Mesa
8	CO	79	Mineral
8	CO	81	Moffat
8	CO	83	Montezuma
8	CO	85	Montrose
8	CO	87	Morgan
8	CO	89	Otero
8	CO	91	Ouray

State Code	Postal Abbreviation	County ID	County Name
8	CO	93	Park
8	CO	95	Phillips
8	CO	97	Pitkin
8	CO	99	Prowers
8	CO	101	Pueblo
8	CO	103	Rio Blanco
8	CO	105	Rio Grande
8	CO	107	Routt
8	CO	109	Saguache
8	CO	111	San Juan
8	CO	113	San Miguel
8	CO	115	Sedgwick
8	CO	117	Summit
8	CO	119	Teller
8	CO	121	Washington
8	CO	123	Weld
8	CO	125	Yuma
8	CO	999	Statewide
9	CT	1	Fairfield
9	CT	3	Hartford
9	CT	5	Litchfield
9	CT	7	Middlesex
9	CT	9	New Haven
9	CT	11	New London
9	CT	13	Tolland
9	CT	15	Windham
9	CT	999	Statewide
10	DE	1	Kent
10	DE	3	New Castle
10	DE	5	Sussex
10	DE	999	Statewide
11	DC	1	District of Columbia
11	DC	999	Statewide
12	FL	1	Alachua
12	FL	3	Baker
12	FL	5	Bay
12	FL	7	Bradford
12	FL	9	Brevard
12	FL	11	Broward
12	FL	13	Calhoun
12	FL	15	Charlotte
12	FL	17	Citrus
12	FL	19	Clay
12	FL	21	Collier

State Code	Postal Abbreviation	County ID	County Name
12	FL	23	Columbia
12	FL	27	DeSoto
12	FL	29	Dixie
12	FL	31	Duval
12	FL	33	Escambia
12	FL	35	Flagler
12	FL	37	Franklin
12	FL	39	Gadsden
12	FL	41	Gilchrist
12	FL	43	Glades
12	FL	45	Gulf
12	FL	47	Hamilton
12	FL	49	Hardee
12	FL	51	Hendry
12	FL	53	Hernando
12	FL	55	Highlands
12	FL	57	Hillsborough
12	FL	59	Holmes
12	FL	61	Indian River
12	FL	63	Jackson
12	FL	65	Jefferson
12	FL	67	Lafayette
12	FL	69	Lake
12	FL	71	Lee
12	FL	73	Leon
12	FL	75	Levy
12	FL	77	Liberty
12	FL	79	Madison
12	FL	81	Manatee
12	FL	83	Marion
12	FL	85	Martin
12	FL	86	Miami-Dade
12	FL	87	Monroe
12	FL	89	Nassau
12	FL	91	Okaloosa
12	FL	93	Okeechobee
12	FL	95	Orange
12	FL	97	Osceola
12	FL	99	Palm Beach
12	FL	101	Pasco
12	FL	103	Pinellas
12	FL	105	Polk
12	FL	107	Putnam
12	FL	109	St. Johns

State Code	Postal Abbreviation	County ID	County Name
12	FL	111	St. Lucie
12	FL	113	Santa Rosa
12	FL	115	Sarasota
12	FL	117	Seminole
12	FL	119	Sumter
12	FL	121	Suwannee
12	FL	123	Taylor
12	FL	125	Union
12	FL	127	Volusia
12	FL	129	Wakulla
12	FL	131	Walton
12	FL	133	Washington
12	FL	999	Statewide
13	GA	1	Appling
13	GA	3	Atkinson
13	GA	5	Bacon
13	GA	7	Baker
13	GA	9	Baldwin
13	GA	11	Banks
13	GA	13	Barrow
13	GA	15	Bartow
13	GA	17	Ben Hill
13	GA	19	Berrien
13	GA	21	Bibb
13	GA	23	Bleckley
13	GA	25	Brantley
13	GA	27	Brooks
13	GA	29	Bryan
13	GA	31	Bulloch
13	GA	33	Burke
13	GA	35	Butts
13	GA	37	Calhoun
13	GA	39	Camden
13	GA	43	Candler
13	GA	45	Carroll
13	GA	47	Catoosa
13	GA	49	Charlton
13	GA	51	Chatham
13	GA	53	Chattahoochee
13	GA	55	Chattooga
13	GA	57	Cherokee
13	GA	59	Clarke
13	GA	61	Clay
13	GA	63	Clayton

State Code	Postal Abbreviation	County ID	County Name
13	GA	65	Clinch
13	GA	67	Cobb
13	GA	69	Coffee
13	GA	71	Colquitt
13	GA	73	Columbia
13	GA	75	Cook
13	GA	77	Coweta
13	GA	79	Crawford
13	GA	81	Crisp
13	GA	83	Dade
13	GA	85	Dawson
13	GA	87	Decatur
13	GA	89	DeKalb
13	GA	91	Dodge
13	GA	93	Dooly
13	GA	95	Dougherty
13	GA	97	Douglas
13	GA	99	Early
13	GA	101	Echols
13	GA	103	Effingham
13	GA	105	Elbert
13	GA	107	Emanuel
13	GA	109	Evans
13	GA	111	Fannin
13	GA	113	Fayette
13	GA	115	Floyd
13	GA	117	Forsyth
13	GA	119	Franklin
13	GA	121	Fulton
13	GA	123	Gilmer
13	GA	125	Glascocock
13	GA	127	Glynn
13	GA	129	Gordon
13	GA	131	Grady
13	GA	133	Greene
13	GA	135	Gwinnett
13	GA	137	Habersham
13	GA	139	Hall
13	GA	141	Hancock
13	GA	143	Haralson
13	GA	145	Harris
13	GA	147	Hart
13	GA	149	Heard
13	GA	151	Henry

State Code	Postal Abbreviation	County ID	County Name
13	GA	153	Houston
13	GA	155	Irwin
13	GA	157	Jackson
13	GA	159	Jasper
13	GA	161	Jeff Davis
13	GA	163	Jefferson
13	GA	165	Jenkins
13	GA	167	Johnson
13	GA	169	Jones
13	GA	171	Lamar
13	GA	173	Lanier
13	GA	175	Laurens
13	GA	177	Lee
13	GA	179	Liberty
13	GA	181	Lincoln
13	GA	183	Long
13	GA	185	Lowndes
13	GA	187	Lumpkin
13	GA	189	McDuffie
13	GA	191	McIntosh
13	GA	193	Macon
13	GA	195	Madison
13	GA	197	Marion
13	GA	199	Meriwether
13	GA	201	Miller
13	GA	205	Mitchell
13	GA	207	Monroe
13	GA	209	Montgomery
13	GA	211	Morgan
13	GA	213	Murray
13	GA	215	Muscogee
13	GA	217	Newton
13	GA	219	Oconee
13	GA	221	Oglethorpe
13	GA	223	Paulding
13	GA	225	Peach
13	GA	227	Pickens
13	GA	229	Pierce
13	GA	231	Pike
13	GA	233	Polk
13	GA	235	Pulaski
13	GA	237	Putnam
13	GA	239	Quitman
13	GA	241	Rabun

State Code	Postal Abbreviation	County ID	County Name
13	GA	243	Randolph
13	GA	245	Richmond
13	GA	247	Rockdale
13	GA	249	Schley
13	GA	251	Screven
13	GA	253	Seminole
13	GA	255	Spalding
13	GA	257	Stephens
13	GA	259	Stewart
13	GA	261	Sumter
13	GA	263	Talbot
13	GA	265	Taliaferro
13	GA	267	Tattnall
13	GA	269	Taylor
13	GA	271	Telfair
13	GA	273	Terrell
13	GA	275	Thomas
13	GA	277	Tift
13	GA	279	Toombs
13	GA	281	Towns
13	GA	283	Treutlen
13	GA	285	Troup
13	GA	287	Turner
13	GA	289	Twiggs
13	GA	291	Union
13	GA	293	Upson
13	GA	295	Walker
13	GA	297	Walton
13	GA	299	Ware
13	GA	301	Warren
13	GA	303	Washington
13	GA	305	Wayne
13	GA	307	Webster
13	GA	309	Wheeler
13	GA	311	White
13	GA	313	Whitfield
13	GA	315	Wilcox
13	GA	317	Wilkes
13	GA	319	Wilkinson
13	GA	321	Worth
13	GA	999	Statewide
15	HI	1	Hawaii
15	HI	3	Honolulu
15	HI	5	Kalawao

State Code	Postal Abbreviation	County ID	County Name
15	HI	7	Kauai
15	HI	9	Maui
15	HI	999	Statewide
16	ID	1	Ada
16	ID	3	Adams
16	ID	5	Bannock
16	ID	7	Bear Lake
16	ID	9	Benewah
16	ID	11	Bingham
16	ID	13	Blaine
16	ID	15	Boise
16	ID	17	Bonner
16	ID	19	Bonneville
16	ID	21	Boundary
16	ID	23	Butte
16	ID	25	Camas
16	ID	27	Canyon
16	ID	29	Caribou
16	ID	31	Cassia
16	ID	33	Clark
16	ID	35	Clearwater
16	ID	37	Custer
16	ID	39	Elmore
16	ID	41	Franklin
16	ID	43	Fremont
16	ID	45	Gem
16	ID	47	Gooding
16	ID	49	Idaho
16	ID	51	Jefferson
16	ID	53	Jerome
16	ID	55	Kootenai
16	ID	57	Latah
16	ID	59	Lemhi
16	ID	61	Lewis
16	ID	63	Lincoln
16	ID	65	Madison
16	ID	67	Minidoka
16	ID	69	Nez Perce
16	ID	71	Oneida
16	ID	73	Owyhee
16	ID	75	Payette
16	ID	77	Power
16	ID	79	Shoshone
16	ID	81	Teton

State Code	Postal Abbreviation	County ID	County Name
16	ID	83	Twin Falls
16	ID	85	Valley
16	ID	87	Washington
16	ID	999	Statewide
17	IL	1	Adams
17	IL	3	Alexander
17	IL	5	Bond
17	IL	7	Boone
17	IL	9	Brown
17	IL	11	Bureau
17	IL	13	Calhoun
17	IL	15	Carroll
17	IL	17	Cass
17	IL	19	Champaign
17	IL	21	Christian
17	IL	23	Clark
17	IL	25	Clay
17	IL	27	Clinton
17	IL	29	Coles
17	IL	31	Cook
17	IL	33	Crawford
17	IL	35	Cumberland
17	IL	37	DeKalb
17	IL	39	De Witt
17	IL	41	Douglas
17	IL	43	DuPage
17	IL	45	Edgar
17	IL	47	Edwards
17	IL	49	Effingham
17	IL	51	Fayette
17	IL	53	Ford
17	IL	55	Franklin
17	IL	57	Fulton
17	IL	59	Gallatin
17	IL	61	Greene
17	IL	63	Grundy
17	IL	65	Hamilton
17	IL	67	Hancock
17	IL	69	Hardin
17	IL	71	Henderson
17	IL	73	Henry
17	IL	75	Iroquois
17	IL	77	Jackson
17	IL	79	Jasper

State Code	Postal Abbreviation	County ID	County Name
17	IL	81	Jefferson
17	IL	83	Jersey
17	IL	85	Jo Daviess
17	IL	87	Johnson
17	IL	89	Kane
17	IL	91	Kankakee
17	IL	93	Kendall
17	IL	95	Knox
17	IL	97	Lake
17	IL	99	LaSalle
17	IL	101	Lawrence
17	IL	103	Lee
17	IL	105	Livingston
17	IL	107	Logan
17	IL	109	McDonough
17	IL	111	McHenry
17	IL	113	McLean
17	IL	115	Macon
17	IL	117	Macoupin
17	IL	119	Madison
17	IL	121	Marion
17	IL	123	Marshall
17	IL	125	Mason
17	IL	127	Massac
17	IL	129	Menard
17	IL	131	Mercer
17	IL	133	Monroe
17	IL	135	Montgomery
17	IL	137	Morgan
17	IL	139	Moultrie
17	IL	141	Ogle
17	IL	143	Peoria
17	IL	145	Perry
17	IL	147	Piatt
17	IL	149	Pike
17	IL	151	Pope
17	IL	153	Pulaski
17	IL	155	Putnam
17	IL	157	Randolph
17	IL	159	Richland
17	IL	161	Rock Island
17	IL	163	St. Clair
17	IL	165	Saline
17	IL	167	Sangamon

State Code	Postal Abbreviation	County ID	County Name
17	IL	169	Schuyler
17	IL	171	Scott
17	IL	173	Shelby
17	IL	175	Stark
17	IL	177	Stephenson
17	IL	179	Tazewell
17	IL	181	Union
17	IL	183	Vermilion
17	IL	185	Wabash
17	IL	187	Warren
17	IL	189	Washington
17	IL	191	Wayne
17	IL	193	White
17	IL	195	Whiteside
17	IL	197	Will
17	IL	199	Williamson
17	IL	201	Winnebago
17	IL	203	Woodford
17	IL	999	Statewide
18	IN	1	Adams
18	IN	3	Allen
18	IN	5	Bartholomew
18	IN	7	Benton
18	IN	9	Blackford
18	IN	11	Boone
18	IN	13	Brown
18	IN	15	Carroll
18	IN	17	Cass
18	IN	19	Clark
18	IN	21	Clay
18	IN	23	Clinton
18	IN	25	Crawford
18	IN	27	Daviess
18	IN	29	Dearborn
18	IN	31	Decatur
18	IN	33	DeKalb
18	IN	35	Delaware
18	IN	37	Dubois
18	IN	39	Elkhart
18	IN	41	Fayette
18	IN	43	Floyd
18	IN	45	Fountain
18	IN	47	Franklin
18	IN	49	Fulton

State Code	Postal Abbreviation	County ID	County Name
18	IN	51	Gibson
18	IN	53	Grant
18	IN	55	Greene
18	IN	57	Hamilton
18	IN	59	Hancock
18	IN	61	Harrison
18	IN	63	Hendricks
18	IN	65	Henry
18	IN	67	Howard
18	IN	69	Huntington
18	IN	71	Jackson
18	IN	73	Jasper
18	IN	75	Jay
18	IN	77	Jefferson
18	IN	79	Jennings
18	IN	81	Johnson
18	IN	83	Knox
18	IN	85	Kosciusko
18	IN	87	LaGrange
18	IN	89	Lake
18	IN	91	LaPorte
18	IN	93	Lawrence
18	IN	95	Madison
18	IN	97	Marion
18	IN	99	Marshall
18	IN	101	Martin
18	IN	103	Miami
18	IN	105	Monroe
18	IN	107	Montgomery
18	IN	109	Morgan
18	IN	111	Newton
18	IN	113	Noble
18	IN	115	Ohio
18	IN	117	Orange
18	IN	119	Owen
18	IN	121	Parke
18	IN	123	Perry
18	IN	125	Pike
18	IN	127	Porter
18	IN	129	Posey
18	IN	131	Pulaski
18	IN	133	Putnam
18	IN	135	Randolph
18	IN	137	Ripley

State Code	Postal Abbreviation	County ID	County Name
18	IN	139	Rush
18	IN	141	St. Joseph
18	IN	143	Scott
18	IN	145	Shelby
18	IN	147	Spencer
18	IN	149	Starke
18	IN	151	Steuben
18	IN	153	Sullivan
18	IN	155	Switzerland
18	IN	157	Tippecanoe
18	IN	159	Tipton
18	IN	161	Union
18	IN	163	Vanderburgh
18	IN	165	Vermillion
18	IN	167	Vigo
18	IN	169	Wabash
18	IN	171	Warren
18	IN	173	Warrick
18	IN	175	Washington
18	IN	177	Wayne
18	IN	179	Wells
18	IN	181	White
18	IN	183	Whitley
18	IN	999	Statewide
19	IA	1	Adair
19	IA	3	Adams
19	IA	5	Allamakee
19	IA	7	Appanoose
19	IA	9	Audubon
19	IA	11	Benton
19	IA	13	Black Hawk
19	IA	15	Boone
19	IA	17	Bremer
19	IA	19	Buchanan
19	IA	21	Buena Vista
19	IA	23	Butler
19	IA	25	Calhoun
19	IA	27	Carroll
19	IA	29	Cass
19	IA	31	Cedar
19	IA	33	Cerro Gordo
19	IA	35	Cherokee
19	IA	37	Chickasaw
19	IA	39	Clarke

State Code	Postal Abbreviation	County ID	County Name
19	IA	41	Clay
19	IA	43	Clayton
19	IA	45	Clinton
19	IA	47	Crawford
19	IA	49	Dallas
19	IA	51	Davis
19	IA	53	Decatur
19	IA	55	Delaware
19	IA	57	Des Moines
19	IA	59	Dickinson
19	IA	61	Dubuque
19	IA	63	Emmet
19	IA	65	Fayette
19	IA	67	Floyd
19	IA	69	Franklin
19	IA	71	Fremont
19	IA	73	Greene
19	IA	75	Grundy
19	IA	77	Guthrie
19	IA	79	Hamilton
19	IA	81	Hancock
19	IA	83	Hardin
19	IA	85	Harrison
19	IA	87	Henry
19	IA	89	Howard
19	IA	91	Humboldt
19	IA	93	Ida
19	IA	95	Iowa
19	IA	97	Jackson
19	IA	99	Jasper
19	IA	101	Jefferson
19	IA	103	Johnson
19	IA	105	Jones
19	IA	107	Keokuk
19	IA	109	Kossuth
19	IA	111	Lee
19	IA	113	Linn
19	IA	115	Louisa
19	IA	117	Lucas
19	IA	119	Lyon
19	IA	121	Madison
19	IA	123	Mahaska
19	IA	125	Marion
19	IA	127	Marshall

State Code	Postal Abbreviation	County ID	County Name
19	IA	129	Mills
19	IA	131	Mitchell
19	IA	133	Monona
19	IA	135	Monroe
19	IA	137	Montgomery
19	IA	139	Muscatine
19	IA	141	O'Brien
19	IA	143	Osceola
19	IA	145	Page
19	IA	147	Palo Alto
19	IA	149	Plymouth
19	IA	151	Pocahontas
19	IA	153	Polk
19	IA	155	Pottawattamie
19	IA	157	Poweshiek
19	IA	159	Ringgold
19	IA	161	Sac
19	IA	163	Scott
19	IA	165	Shelby
19	IA	167	Sioux
19	IA	169	Story
19	IA	171	Tama
19	IA	173	Taylor
19	IA	175	Union
19	IA	177	Van Buren
19	IA	179	Wapello
19	IA	181	Warren
19	IA	183	Washington
19	IA	185	Wayne
19	IA	187	Webster
19	IA	189	Winnebago
19	IA	191	Winneshiek
19	IA	193	Woodbury
19	IA	195	Worth
19	IA	197	Wright
19	IA	999	Statewide
20	KS	1	Allen
20	KS	3	Anderson
20	KS	5	Atchison
20	KS	7	Barber
20	KS	9	Barton
20	KS	11	Bourbon
20	KS	13	Brown
20	KS	15	Butler

State Code	Postal Abbreviation	County ID	County Name
20	KS	17	Chase
20	KS	19	Chautauqua
20	KS	21	Cherokee
20	KS	23	Cheyenne
20	KS	25	Clark
20	KS	27	Clay
20	KS	29	Cloud
20	KS	31	Coffey
20	KS	33	Comanche
20	KS	35	Cowley
20	KS	37	Crawford
20	KS	39	Decatur
20	KS	41	Dickinson
20	KS	43	Doniphan
20	KS	45	Douglas
20	KS	47	Edwards
20	KS	49	Elk
20	KS	51	Ellis
20	KS	53	Ellsworth
20	KS	55	Finney
20	KS	57	Ford
20	KS	59	Franklin
20	KS	61	Geary
20	KS	63	Gove
20	KS	65	Graham
20	KS	67	Grant
20	KS	69	Gray
20	KS	71	Greeley
20	KS	73	Greenwood
20	KS	75	Hamilton
20	KS	77	Harper
20	KS	79	Harvey
20	KS	81	Haskell
20	KS	83	Hodgeman
20	KS	85	Jackson
20	KS	87	Jefferson
20	KS	89	Jewell
20	KS	91	Johnson
20	KS	93	Kearny
20	KS	95	Kingman
20	KS	97	Kiowa
20	KS	99	Labette
20	KS	101	Lane
20	KS	103	Leavenworth

State Code	Postal Abbreviation	County ID	County Name
20	KS	105	Lincoln
20	KS	107	Linn
20	KS	109	Logan
20	KS	111	Lyon
20	KS	113	McPherson
20	KS	115	Marion
20	KS	117	Marshall
20	KS	119	Meade
20	KS	121	Miami
20	KS	123	Mitchell
20	KS	125	Montgomery
20	KS	127	Morris
20	KS	129	Morton
20	KS	131	Nemaha
20	KS	133	Neosho
20	KS	135	Ness
20	KS	137	Norton
20	KS	139	Osage
20	KS	141	Osborne
20	KS	143	Ottawa
20	KS	145	Pawnee
20	KS	147	Phillips
20	KS	149	Pottawatomie
20	KS	151	Pratt
20	KS	153	Rawlins
20	KS	155	Reno
20	KS	157	Republic
20	KS	159	Rice
20	KS	161	Riley
20	KS	163	Rooks
20	KS	165	Rush
20	KS	167	Russell
20	KS	169	Saline
20	KS	171	Scott
20	KS	173	Sedgwick
20	KS	175	Seward
20	KS	177	Shawnee
20	KS	179	Sheridan
20	KS	181	Sherman
20	KS	183	Smith
20	KS	185	Stafford
20	KS	187	Stanton
20	KS	189	Stevens
20	KS	191	Sumner

State Code	Postal Abbreviation	County ID	County Name
20	KS	193	Thomas
20	KS	195	Trego
20	KS	197	Wabaunsee
20	KS	199	Wallace
20	KS	201	Washington
20	KS	203	Wichita
20	KS	205	Wilson
20	KS	207	Woodson
20	KS	209	Wyandotte
20	KS	999	Statewide
21	KY	1	Adair
21	KY	3	Allen
21	KY	5	Anderson
21	KY	7	Ballard
21	KY	9	Barren
21	KY	11	Bath
21	KY	13	Bell
21	KY	15	Boone
21	KY	17	Bourbon
21	KY	19	Boyd
21	KY	21	Boyle
21	KY	23	Bracken
21	KY	25	Breathitt
21	KY	27	Breckinridge
21	KY	29	Bullitt
21	KY	31	Butler
21	KY	33	Caldwell
21	KY	35	Calloway
21	KY	37	Campbell
21	KY	39	Carlisle
21	KY	41	Carroll
21	KY	43	Carter
21	KY	45	Casey
21	KY	47	Christian
21	KY	49	Clark
21	KY	51	Clay
21	KY	53	Clinton
21	KY	55	Crittenden
21	KY	57	Cumberland
21	KY	59	Daviess
21	KY	61	Edmonson
21	KY	63	Elliott
21	KY	65	Estill
21	KY	67	Fayette

State Code	Postal Abbreviation	County ID	County Name
21	KY	69	Fleming
21	KY	71	Floyd
21	KY	73	Franklin
21	KY	75	Fulton
21	KY	77	Gallatin
21	KY	79	Garrard
21	KY	81	Grant
21	KY	83	Graves
21	KY	85	Grayson
21	KY	87	Green
21	KY	89	Greenup
21	KY	91	Hancock
21	KY	93	Hardin
21	KY	95	Harlan
21	KY	97	Harrison
21	KY	99	Hart
21	KY	101	Henderson
21	KY	103	Henry
21	KY	105	Hickman
21	KY	107	Hopkins
21	KY	109	Jackson
21	KY	111	Jefferson
21	KY	113	Jessamine
21	KY	115	Johnson
21	KY	117	Kenton
21	KY	119	Knott
21	KY	121	Knox
21	KY	123	Larue
21	KY	125	Laurel
21	KY	127	Lawrence
21	KY	129	Lee
21	KY	131	Leslie
21	KY	133	Letcher
21	KY	135	Lewis
21	KY	137	Lincoln
21	KY	139	Livingston
21	KY	141	Logan
21	KY	143	Lyon
21	KY	145	McCracken
21	KY	147	McCreary
21	KY	149	McLean
21	KY	151	Madison
21	KY	153	Magoffin
21	KY	155	Marion

State Code	Postal Abbreviation	County ID	County Name
21	KY	157	Marshall
21	KY	159	Martin
21	KY	161	Mason
21	KY	163	Meade
21	KY	165	Menifee
21	KY	167	Mercer
21	KY	169	Metcalfe
21	KY	171	Monroe
21	KY	173	Montgomery
21	KY	175	Morgan
21	KY	177	Muhlenberg
21	KY	179	Nelson
21	KY	181	Nicholas
21	KY	183	Ohio
21	KY	185	Oldham
21	KY	187	Owen
21	KY	189	Owsley
21	KY	191	Pendleton
21	KY	193	Perry
21	KY	195	Pike
21	KY	197	Powell
21	KY	199	Pulaski
21	KY	201	Robertson
21	KY	203	Rockcastle
21	KY	205	Rowan
21	KY	207	Russell
21	KY	209	Scott
21	KY	211	Shelby
21	KY	213	Simpson
21	KY	215	Spencer
21	KY	217	Taylor
21	KY	219	Todd
21	KY	221	Trigg
21	KY	223	Trimble
21	KY	225	Union
21	KY	227	Warren
21	KY	229	Washington
21	KY	231	Wayne
21	KY	233	Webster
21	KY	235	Whitley
21	KY	237	Wolfe
21	KY	239	Woodford
21	KY	999	Statewide
22	LA	1	Acadia

State Code	Postal Abbreviation	County ID	County Name
22	LA	3	Allen
22	LA	5	Ascension
22	LA	7	Assumption
22	LA	9	Avoyelles
22	LA	11	Beauregard
22	LA	13	Bienville
22	LA	15	Bossier
22	LA	17	Caddo
22	LA	19	Calcasieu
22	LA	21	Caldwell
22	LA	23	Cameron
22	LA	25	Catahoula
22	LA	27	Claiborne
22	LA	29	Concordia
22	LA	31	De Soto
22	LA	33	East Baton Rouge
22	LA	35	East Carroll
22	LA	37	East Feliciana
22	LA	39	Evangeline
22	LA	41	Franklin
22	LA	43	Grant
22	LA	45	Iberia
22	LA	47	Iberville
22	LA	49	Jackson
22	LA	51	Jefferson
22	LA	53	Jefferson Davis
22	LA	55	Lafayette
22	LA	57	Lafourche
22	LA	59	LaSalle
22	LA	61	Lincoln
22	LA	63	Livingston
22	LA	65	Madison
22	LA	67	Morehouse
22	LA	69	Natchitoches
22	LA	71	Orleans
22	LA	73	Ouachita
22	LA	75	Plaquemines
22	LA	77	Pointe Coupee
22	LA	79	Rapides
22	LA	81	Red River
22	LA	83	Richland
22	LA	85	Sabine
22	LA	87	St. Bernard
22	LA	89	St. Charles

State Code	Postal Abbreviation	County ID	County Name
22	LA	91	St. Helena
22	LA	93	St. James
22	LA	95	St. John the Baptist
22	LA	97	St. Landry
22	LA	99	St. Martin
22	LA	101	St. Mary
22	LA	103	St. Tammany
22	LA	105	Tangipahoa
22	LA	107	Tensas
22	LA	109	Terrebonne
22	LA	111	Union
22	LA	113	Vermilion
22	LA	115	Vernon
22	LA	117	Washington
22	LA	119	Webster
22	LA	121	West Baton Rouge
22	LA	123	West Carroll
22	LA	125	West Feliciana
22	LA	127	Winn
22	LA	999	Statewide
23	ME	1	Androscoggin
23	ME	3	Aroostook
23	ME	5	Cumberland
23	ME	7	Franklin
23	ME	9	Hancock
23	ME	11	Kennebec
23	ME	13	Knox
23	ME	15	Lincoln
23	ME	17	Oxford
23	ME	19	Penobscot
23	ME	21	Piscataquis
23	ME	23	Sagadahoc
23	ME	25	Somerset
23	ME	27	Waldo
23	ME	29	Washington
23	ME	31	York
23	ME	999	Statewide
24	MD	1	Allegany
24	MD	3	Anne Arundel
24	MD	5	Baltimore
24	MD	9	Calvert
24	MD	11	Caroline
24	MD	13	Carroll
24	MD	15	Cecil

State Code	Postal Abbreviation	County ID	County Name
24	MD	17	Charles
24	MD	19	Dorchester
24	MD	21	Frederick
24	MD	23	Garrett
24	MD	25	Harford
24	MD	27	Howard
24	MD	29	Kent
24	MD	31	Montgomery
24	MD	33	Prince George's
24	MD	35	Queen Anne's
24	MD	37	St. Mary's
24	MD	39	Somerset
24	MD	41	Talbot
24	MD	43	Washington
24	MD	45	Wicomico
24	MD	47	Worcester
24	MD	510	Baltimore
24	MD	999	Statewide
25	MA	1	Barnstable
25	MA	3	Berkshire
25	MA	5	Bristol
25	MA	7	Dukes
25	MA	9	Essex
25	MA	11	Franklin
25	MA	13	Hampden
25	MA	15	Hampshire
25	MA	17	Middlesex
25	MA	19	Nantucket
25	MA	21	Norfolk
25	MA	23	Plymouth
25	MA	25	Suffolk
25	MA	27	Worcester
25	MA	999	Statewide
26	MI	1	Alcona
26	MI	3	Alger
26	MI	5	Allegan
26	MI	7	Alpena
26	MI	9	Antrim
26	MI	11	Arenac
26	MI	13	Baraga
26	MI	15	Barry
26	MI	17	Bay
26	MI	19	Benzie
26	MI	21	Berrien

State Code	Postal Abbreviation	County ID	County Name
26	MI	23	Branch
26	MI	25	Calhoun
26	MI	27	Cass
26	MI	29	Charlevoix
26	MI	31	Cheboygan
26	MI	33	Chippewa
26	MI	35	Clare
26	MI	37	Clinton
26	MI	39	Crawford
26	MI	41	Delta
26	MI	43	Dickinson
26	MI	45	Eaton
26	MI	47	Emmet
26	MI	49	Genesee
26	MI	51	Gladwin
26	MI	53	Gogebic
26	MI	55	Grand Traverse
26	MI	57	Gratiot
26	MI	59	Hillsdale
26	MI	61	Houghton
26	MI	63	Huron
26	MI	65	Ingham
26	MI	67	Ionia
26	MI	69	Iosco
26	MI	71	Iron
26	MI	73	Isabella
26	MI	75	Jackson
26	MI	77	Kalamazoo
26	MI	79	Kalkaska
26	MI	81	Kent
26	MI	83	Keweenaw
26	MI	85	Lake
26	MI	87	Lapeer
26	MI	89	Leelanau
26	MI	91	Lenawee
26	MI	93	Livingston
26	MI	95	Luce
26	MI	97	Mackinac
26	MI	99	Macomb
26	MI	101	Manistee
26	MI	103	Marquette
26	MI	105	Mason
26	MI	107	Mecosta
26	MI	109	Menominee

State Code	Postal Abbreviation	County ID	County Name
26	MI	111	Midland
26	MI	113	Missaukee
26	MI	115	Monroe
26	MI	117	Montcalm
26	MI	119	Montmorency
26	MI	121	Muskegon
26	MI	123	Newaygo
26	MI	125	Oakland
26	MI	127	Oceana
26	MI	129	Ogemaw
26	MI	131	Ontonagon
26	MI	133	Osceola
26	MI	135	Oscoda
26	MI	137	Otsego
26	MI	139	Ottawa
26	MI	141	Presque Isle
26	MI	143	Roscommon
26	MI	145	Saginaw
26	MI	147	St. Clair
26	MI	149	St. Joseph
26	MI	151	Sanilac
26	MI	153	Schoolcraft
26	MI	155	Shiawassee
26	MI	157	Tuscola
26	MI	159	Van Buren
26	MI	161	Washtenaw
26	MI	163	Wayne
26	MI	165	Wexford
26	MI	999	Statewide
27	MN	1	Aitkin
27	MN	3	Anoka
27	MN	5	Becker
27	MN	7	Beltrami
27	MN	9	Benton
27	MN	11	Big Stone
27	MN	13	Blue Earth
27	MN	15	Brown
27	MN	17	Carlton
27	MN	19	Carver
27	MN	21	Cass
27	MN	23	Chippewa
27	MN	25	Chisago
27	MN	27	Clay
27	MN	29	Clearwater

State Code	Postal Abbreviation	County ID	County Name
27	MN	31	Cook
27	MN	33	Cottonwood
27	MN	35	Crow Wing
27	MN	37	Dakota
27	MN	39	Dodge
27	MN	41	Douglas
27	MN	43	Faribault
27	MN	45	Fillmore
27	MN	47	Freeborn
27	MN	49	Goodhue
27	MN	51	Grant
27	MN	53	Hennepin
27	MN	55	Houston
27	MN	57	Hubbard
27	MN	59	Isanti
27	MN	61	Itasca
27	MN	63	Jackson
27	MN	65	Kanabec
27	MN	67	Kandiyohi
27	MN	69	Kittson
27	MN	71	Koochiching
27	MN	73	Lac qui Parle
27	MN	75	Lake
27	MN	77	Lake of the Woods
27	MN	79	Le Sueur
27	MN	81	Lincoln
27	MN	83	Lyon
27	MN	85	McLeod
27	MN	87	Mahnomen
27	MN	89	Marshall
27	MN	91	Martin
27	MN	93	Meeker
27	MN	95	Mille Lacs
27	MN	97	Morrison
27	MN	99	Mower
27	MN	101	Murray
27	MN	103	Nicollet
27	MN	105	Nobles
27	MN	107	Norman
27	MN	109	Olmsted
27	MN	111	Otter Tail
27	MN	113	Pennington
27	MN	115	Pine
27	MN	117	Pipestone

State Code	Postal Abbreviation	County ID	County Name
27	MN	119	Polk
27	MN	121	Pope
27	MN	123	Ramsey
27	MN	125	Red Lake
27	MN	127	Redwood
27	MN	129	Renville
27	MN	131	Rice
27	MN	133	Rock
27	MN	135	Roseau
27	MN	137	St. Louis
27	MN	139	Scott
27	MN	141	Sherburne
27	MN	143	Sibley
27	MN	145	Stearns
27	MN	147	Steele
27	MN	149	Stevens
27	MN	151	Swift
27	MN	153	Todd
27	MN	155	Traverse
27	MN	157	Wabasha
27	MN	159	Wadena
27	MN	161	Waseca
27	MN	163	Washington
27	MN	165	Watonwan
27	MN	167	Wilkin
27	MN	169	Winona
27	MN	171	Wright
27	MN	173	Yellow Medicine
27	MN	999	Statewide
28	MS	1	Adams
28	MS	3	Alcorn
28	MS	5	Amite
28	MS	7	Attala
28	MS	9	Benton
28	MS	11	Bolivar
28	MS	13	Calhoun
28	MS	15	Carroll
28	MS	17	Chickasaw
28	MS	19	Choctaw
28	MS	21	Claiborne
28	MS	23	Clarke
28	MS	25	Clay
28	MS	27	Coahoma
28	MS	29	Copiah

State Code	Postal Abbreviation	County ID	County Name
28	MS	31	Covington
28	MS	33	DeSoto
28	MS	35	Forrest
28	MS	37	Franklin
28	MS	39	George
28	MS	41	Greene
28	MS	43	Grenada
28	MS	45	Hancock
28	MS	47	Harrison
28	MS	49	Hinds
28	MS	51	Holmes
28	MS	53	Humphreys
28	MS	55	Issaquena
28	MS	57	Itawamba
28	MS	59	Jackson
28	MS	61	Jasper
28	MS	63	Jefferson
28	MS	65	Jefferson Davis
28	MS	67	Jones
28	MS	69	Kemper
28	MS	71	Lafayette
28	MS	73	Lamar
28	MS	75	Lauderdale
28	MS	77	Lawrence
28	MS	79	Leake
28	MS	81	Lee
28	MS	83	Leflore
28	MS	85	Lincoln
28	MS	87	Lowndes
28	MS	89	Madison
28	MS	91	Marion
28	MS	93	Marshall
28	MS	95	Monroe
28	MS	97	Montgomery
28	MS	99	Neshoba
28	MS	101	Newton
28	MS	103	Noxubee
28	MS	105	Oktibbeha
28	MS	107	Panola
28	MS	109	Pearl River
28	MS	111	Perry
28	MS	113	Pike
28	MS	115	Pontotoc
28	MS	117	Prentiss

State Code	Postal Abbreviation	County ID	County Name
28	MS	119	Quitman
28	MS	121	Rankin
28	MS	123	Scott
28	MS	125	Sharkey
28	MS	127	Simpson
28	MS	129	Smith
28	MS	131	Stone
28	MS	133	Sunflower
28	MS	135	Tallahatchie
28	MS	137	Tate
28	MS	139	Tippah
28	MS	141	Tishomingo
28	MS	143	Tunica
28	MS	145	Union
28	MS	147	Walthall
28	MS	149	Warren
28	MS	151	Washington
28	MS	153	Wayne
28	MS	155	Webster
28	MS	157	Wilkinson
28	MS	159	Winston
28	MS	161	Yalobusha
28	MS	163	Yazoo
28	MS	999	Statewide
29	MO	1	Adair
29	MO	3	Andrew
29	MO	5	Atchison
29	MO	7	Audrain
29	MO	9	Barry
29	MO	11	Barton
29	MO	13	Bates
29	MO	15	Benton
29	MO	17	Bollinger
29	MO	19	Boone
29	MO	21	Buchanan
29	MO	23	Butler
29	MO	25	Caldwell
29	MO	27	Callaway
29	MO	29	Camden
29	MO	31	Cape Girardeau
29	MO	33	Carroll
29	MO	35	Carter
29	MO	37	Cass
29	MO	39	Cedar

State Code	Postal Abbreviation	County ID	County Name
29	MO	41	Chariton
29	MO	43	Christian
29	MO	45	Clark
29	MO	47	Clay
29	MO	49	Clinton
29	MO	51	Cole
29	MO	53	Cooper
29	MO	55	Crawford
29	MO	57	Dade
29	MO	59	Dallas
29	MO	61	Daviess
29	MO	63	DeKalb
29	MO	65	Dent
29	MO	67	Douglas
29	MO	69	Dunklin
29	MO	71	Franklin
29	MO	73	Gasconade
29	MO	75	Gentry
29	MO	77	Greene
29	MO	79	Grundy
29	MO	81	Harrison
29	MO	83	Henry
29	MO	85	Hickory
29	MO	87	Holt
29	MO	89	Howard
29	MO	91	Howell
29	MO	93	Iron
29	MO	95	Jackson
29	MO	97	Jasper
29	MO	99	Jefferson
29	MO	101	Johnson
29	MO	103	Knox
29	MO	105	Laclede
29	MO	107	Lafayette
29	MO	109	Lawrence
29	MO	111	Lewis
29	MO	113	Lincoln
29	MO	115	Linn
29	MO	117	Livingston
29	MO	119	McDonald
29	MO	121	Macon
29	MO	123	Madison
29	MO	125	Maries
29	MO	127	Marion

State Code	Postal Abbreviation	County ID	County Name
29	MO	129	Mercer
29	MO	131	Miller
29	MO	133	Mississippi
29	MO	135	Moniteau
29	MO	137	Monroe
29	MO	139	Montgomery
29	MO	141	Morgan
29	MO	143	New Madrid
29	MO	145	Newton
29	MO	147	Nodaway
29	MO	149	Oregon
29	MO	151	Osage
29	MO	153	Ozark
29	MO	155	Pemiscot
29	MO	157	Perry
29	MO	159	Pettis
29	MO	161	Phelps
29	MO	163	Pike
29	MO	165	Platte
29	MO	167	Polk
29	MO	169	Pulaski
29	MO	171	Putnam
29	MO	173	Ralls
29	MO	175	Randolph
29	MO	177	Ray
29	MO	179	Reynolds
29	MO	181	Ripley
29	MO	183	St. Charles
29	MO	185	St. Clair
29	MO	186	Ste. Genevieve
29	MO	187	St. Francois
29	MO	189	St. Louis
29	MO	195	Saline
29	MO	197	Schuyler
29	MO	199	Scotland
29	MO	201	Scott
29	MO	203	Shannon
29	MO	205	Shelby
29	MO	207	Stoddard
29	MO	209	Stone
29	MO	211	Sullivan
29	MO	213	Taney
29	MO	215	Texas
29	MO	217	Vernon

State Code	Postal Abbreviation	County ID	County Name
29	MO	219	Warren
29	MO	221	Washington
29	MO	223	Wayne
29	MO	225	Webster
29	MO	227	Worth
29	MO	229	Wright
29	MO	510	St. Louis
29	MO	999	Statewide
30	MT	1	Beaverhead
30	MT	3	Big Horn
30	MT	5	Blaine
30	MT	7	Broadwater
30	MT	9	Carbon
30	MT	11	Carter
30	MT	13	Cascade
30	MT	15	Chouteau
30	MT	17	Custer
30	MT	19	Daniels
30	MT	21	Dawson
30	MT	23	Deer Lodge
30	MT	25	Fallon
30	MT	27	Fergus
30	MT	29	Flathead
30	MT	31	Gallatin
30	MT	33	Garfield
30	MT	35	Glacier
30	MT	37	Golden Valley
30	MT	39	Granite
30	MT	41	Hill
30	MT	43	Jefferson
30	MT	45	Judith Basin
30	MT	47	Lake
30	MT	49	Lewis and Clark
30	MT	51	Liberty
30	MT	53	Lincoln
30	MT	55	McCone
30	MT	57	Madison
30	MT	59	Meagher
30	MT	61	Mineral
30	MT	63	Missoula
30	MT	65	Musselshell
30	MT	67	Park
30	MT	69	Petroleum
30	MT	71	Phillips

State Code	Postal Abbreviation	County ID	County Name
30	MT	73	Pondera
30	MT	75	Powder River
30	MT	77	Powell
30	MT	79	Prairie
30	MT	81	Ravalli
30	MT	83	Richland
30	MT	85	Roosevelt
30	MT	87	Rosebud
30	MT	89	Sanders
30	MT	91	Sheridan
30	MT	93	Silver Bow
30	MT	95	Stillwater
30	MT	97	Sweet Grass
30	MT	99	Teton
30	MT	101	Toole
30	MT	103	Treasure
30	MT	105	Valley
30	MT	107	Wheatland
30	MT	109	Wibaux
30	MT	111	Yellowstone
30	MT	999	Statewide
31	NE	1	Adams
31	NE	3	Antelope
31	NE	5	Arthur
31	NE	7	Banner
31	NE	9	Blaine
31	NE	11	Boone
31	NE	13	Box Butte
31	NE	15	Boyd
31	NE	17	Brown
31	NE	19	Buffalo
31	NE	21	Burt
31	NE	23	Butler
31	NE	25	Cass
31	NE	27	Cedar
31	NE	29	Chase
31	NE	31	Cherry
31	NE	33	Cheyenne
31	NE	35	Clay
31	NE	37	Colfax
31	NE	39	Cuming
31	NE	41	Custer
31	NE	43	Dakota
31	NE	45	Dawes

State Code	Postal Abbreviation	County ID	County Name
31	NE	47	Dawson
31	NE	49	Deuel
31	NE	51	Dixon
31	NE	53	Dodge
31	NE	55	Douglas
31	NE	57	Dundy
31	NE	59	Fillmore
31	NE	61	Franklin
31	NE	63	Frontier
31	NE	65	Furnas
31	NE	67	Gage
31	NE	69	Garden
31	NE	71	Garfield
31	NE	73	Gosper
31	NE	75	Grant
31	NE	77	Greeley
31	NE	79	Hall
31	NE	81	Hamilton
31	NE	83	Harlan
31	NE	85	Hayes
31	NE	87	Hitchcock
31	NE	89	Holt
31	NE	91	Hooker
31	NE	93	Howard
31	NE	95	Jefferson
31	NE	97	Johnson
31	NE	99	Kearney
31	NE	101	Keith
31	NE	103	Keya Paha
31	NE	105	Kimball
31	NE	107	Knox
31	NE	109	Lancaster
31	NE	111	Lincoln
31	NE	113	Logan
31	NE	115	Loup
31	NE	117	McPherson
31	NE	119	Madison
31	NE	121	Merrick
31	NE	123	Morrill
31	NE	125	Nance
31	NE	127	Nemaha
31	NE	129	Nuckolls
31	NE	131	Otoe
31	NE	133	Pawnee

State Code	Postal Abbreviation	County ID	County Name
31	NE	135	Perkins
31	NE	137	Phelps
31	NE	139	Pierce
31	NE	141	Platte
31	NE	143	Polk
31	NE	145	Red Willow
31	NE	147	Richardson
31	NE	149	Rock
31	NE	151	Saline
31	NE	153	Sarpy
31	NE	155	Saunders
31	NE	157	Scotts Bluff
31	NE	159	Seward
31	NE	161	Sheridan
31	NE	163	Sherman
31	NE	165	Sioux
31	NE	167	Stanton
31	NE	169	Thayer
31	NE	171	Thomas
31	NE	173	Thurston
31	NE	175	Valley
31	NE	177	Washington
31	NE	179	Wayne
31	NE	181	Webster
31	NE	183	Wheeler
31	NE	185	York
31	NE	999	Statewide
32	NV	1	Churchill
32	NV	3	Clark
32	NV	5	Douglas
32	NV	7	Elko
32	NV	9	Esmeralda
32	NV	11	Eureka
32	NV	13	Humboldt
32	NV	15	Lander
32	NV	17	Lincoln
32	NV	19	Lyon
32	NV	21	Mineral
32	NV	23	Nye
32	NV	27	Pershing
32	NV	29	Storey
32	NV	31	Washoe
32	NV	33	White Pine
32	NV	510	Carson City

State Code	Postal Abbreviation	County ID	County Name
32	NV	999	Statewide
33	NH	1	Belknap
33	NH	3	Carroll
33	NH	5	Cheshire
33	NH	7	Coos
33	NH	9	Grafton
33	NH	11	Hillsborough
33	NH	13	Merrimack
33	NH	15	Rockingham
33	NH	17	Strafford
33	NH	19	Sullivan
33	NH	999	Statewide
34	NJ	1	Atlantic
34	NJ	3	Bergen
34	NJ	5	Burlington
34	NJ	7	Camden
34	NJ	9	Cape May
34	NJ	11	Cumberland
34	NJ	13	Essex
34	NJ	15	Gloucester
34	NJ	17	Hudson
34	NJ	19	Hunterdon
34	NJ	21	Mercer
34	NJ	23	Middlesex
34	NJ	25	Monmouth
34	NJ	27	Morris
34	NJ	29	Ocean
34	NJ	31	Passaic
34	NJ	33	Salem
34	NJ	35	Somerset
34	NJ	37	Sussex
34	NJ	39	Union
34	NJ	41	Warren
34	NJ	999	Statewide
35	NM	1	Bernalillo
35	NM	3	Catron
35	NM	5	Chaves
35	NM	6	Cibola
35	NM	7	Colfax
35	NM	9	Curry
35	NM	11	De Baca
35	NM	13	Doña Ana
35	NM	15	Eddy
35	NM	17	Grant

State Code	Postal Abbreviation	County ID	County Name
35	NM	19	Guadalupe
35	NM	21	Harding
35	NM	23	Hidalgo
35	NM	25	Lea
35	NM	27	Lincoln
35	NM	28	Los Alamos
35	NM	29	Luna
35	NM	31	McKinley
35	NM	33	Mora
35	NM	35	Otero
35	NM	37	Quay
35	NM	39	Rio Arriba
35	NM	41	Roosevelt
35	NM	43	Sandoval
35	NM	45	San Juan
35	NM	47	San Miguel
35	NM	49	Santa Fe
35	NM	51	Sierra
35	NM	53	Socorro
35	NM	55	Taos
35	NM	57	Torrance
35	NM	59	Union
35	NM	61	Valencia
35	NM	999	Statewide
36	NY	1	Albany
36	NY	3	Allegany
36	NY	5	Bronx
36	NY	7	Broome
36	NY	9	Cattaraugus
36	NY	11	Cayuga
36	NY	13	Chautauqua
36	NY	15	Chemung
36	NY	17	Chenango
36	NY	19	Clinton
36	NY	21	Columbia
36	NY	23	Cortland
36	NY	25	Delaware
36	NY	27	Dutchess
36	NY	29	Erie
36	NY	31	Essex
36	NY	33	Franklin
36	NY	35	Fulton
36	NY	37	Genesee
36	NY	39	Greene

State Code	Postal Abbreviation	County ID	County Name
36	NY	41	Hamilton
36	NY	43	Herkimer
36	NY	45	Jefferson
36	NY	47	Kings
36	NY	49	Lewis
36	NY	51	Livingston
36	NY	53	Madison
36	NY	55	Monroe
36	NY	57	Montgomery
36	NY	59	Nassau
36	NY	61	New York
36	NY	63	Niagara
36	NY	65	Oneida
36	NY	67	Onondaga
36	NY	69	Ontario
36	NY	71	Orange
36	NY	73	Orleans
36	NY	75	Oswego
36	NY	77	Otsego
36	NY	79	Putnam
36	NY	81	Queens
36	NY	83	Rensselaer
36	NY	85	Richmond
36	NY	87	Rockland
36	NY	89	St. Lawrence
36	NY	91	Saratoga
36	NY	93	Schenectady
36	NY	95	Schoharie
36	NY	97	Schuyler
36	NY	99	Seneca
36	NY	101	Steuben
36	NY	103	Suffolk
36	NY	105	Sullivan
36	NY	107	Tioga
36	NY	109	Tompkins
36	NY	111	Ulster
36	NY	113	Warren
36	NY	115	Washington
36	NY	117	Wayne
36	NY	119	Westchester
36	NY	121	Wyoming
36	NY	123	Yates
36	NY	999	Statewide
37	NC	1	Alamance

State Code	Postal Abbreviation	County ID	County Name
37	NC	3	Alexander
37	NC	5	Alleghany
37	NC	7	Anson
37	NC	9	Ashe
37	NC	11	Avery
37	NC	13	Beaufort
37	NC	15	Bertie
37	NC	17	Bladen
37	NC	19	Brunswick
37	NC	21	Buncombe
37	NC	23	Burke
37	NC	25	Cabarrus
37	NC	27	Caldwell
37	NC	29	Camden
37	NC	31	Carteret
37	NC	33	Caswell
37	NC	35	Catawba
37	NC	37	Chatham
37	NC	39	Cherokee
37	NC	41	Chowan
37	NC	43	Clay
37	NC	45	Cleveland
37	NC	47	Columbus
37	NC	49	Craven
37	NC	51	Cumberland
37	NC	53	Currituck
37	NC	55	Dare
37	NC	57	Davidson
37	NC	59	Davie
37	NC	61	Duplin
37	NC	63	Durham
37	NC	65	Edgecombe
37	NC	67	Forsyth
37	NC	69	Franklin
37	NC	71	Gaston
37	NC	73	Gates
37	NC	75	Graham
37	NC	77	Granville
37	NC	79	Greene
37	NC	81	Guilford
37	NC	83	Halifax
37	NC	85	Harnett
37	NC	87	Haywood
37	NC	89	Henderson

State Code	Postal Abbreviation	County ID	County Name
37	NC	91	Hertford
37	NC	93	Hoke
37	NC	95	Hyde
37	NC	97	Iredell
37	NC	99	Jackson
37	NC	101	Johnston
37	NC	103	Jones
37	NC	105	Lee
37	NC	107	Lenoir
37	NC	109	Lincoln
37	NC	111	McDowell
37	NC	113	Macon
37	NC	115	Madison
37	NC	117	Martin
37	NC	119	Mecklenburg
37	NC	121	Mitchell
37	NC	123	Montgomery
37	NC	125	Moore
37	NC	127	Nash
37	NC	129	New Hanover
37	NC	131	Northampton
37	NC	133	Onslow
37	NC	135	Orange
37	NC	137	Pamlico
37	NC	139	Pasquotank
37	NC	141	Pender
37	NC	143	Perquimans
37	NC	145	Person
37	NC	147	Pitt
37	NC	149	Polk
37	NC	151	Randolph
37	NC	153	Richmond
37	NC	155	Robeson
37	NC	157	Rockingham
37	NC	159	Rowan
37	NC	161	Rutherford
37	NC	163	Sampson
37	NC	165	Scotland
37	NC	167	Stanly
37	NC	169	Stokes
37	NC	171	Surry
37	NC	173	Swain
37	NC	175	Transylvania
37	NC	177	Tyrrell

State Code	Postal Abbreviation	County ID	County Name
37	NC	179	Union
37	NC	181	Vance
37	NC	183	Wake
37	NC	185	Warren
37	NC	187	Washington
37	NC	189	Watauga
37	NC	191	Wayne
37	NC	193	Wilkes
37	NC	195	Wilson
37	NC	197	Yadkin
37	NC	199	Yancey
37	NC	999	Statewide
38	ND	1	Adams
38	ND	3	Barnes
38	ND	5	Benson
38	ND	7	Billings
38	ND	9	Bottineau
38	ND	11	Bowman
38	ND	13	Burke
38	ND	15	Burleigh
38	ND	17	Cass
38	ND	19	Cavalier
38	ND	21	Dickey
38	ND	23	Divide
38	ND	25	Dunn
38	ND	27	Eddy
38	ND	29	Emmons
38	ND	31	Foster
38	ND	33	Golden Valley
38	ND	35	Grand Forks
38	ND	37	Grant
38	ND	39	Griggs
38	ND	41	Hettinger
38	ND	43	Kidder
38	ND	45	LaMoure
38	ND	47	Logan
38	ND	49	McHenry
38	ND	51	McIntosh
38	ND	53	McKenzie
38	ND	55	McLean
38	ND	57	Mercer
38	ND	59	Morton
38	ND	61	Mountrail
38	ND	63	Nelson

State Code	Postal Abbreviation	County ID	County Name
38	ND	65	Oliver
38	ND	67	Pembina
38	ND	69	Pierce
38	ND	71	Ramsey
38	ND	73	Ransom
38	ND	75	Renville
38	ND	77	Richland
38	ND	79	Rolette
38	ND	81	Sargent
38	ND	83	Sheridan
38	ND	85	Sioux
38	ND	87	Slope
38	ND	89	Stark
38	ND	91	Steele
38	ND	93	Stutsman
38	ND	95	Towner
38	ND	97	Traill
38	ND	99	Walsh
38	ND	101	Ward
38	ND	103	Wells
38	ND	105	Williams
38	ND	999	Statewide
39	OH	1	Adams
39	OH	3	Allen
39	OH	5	Ashland
39	OH	7	Ashtabula
39	OH	9	Athens
39	OH	11	Auglaize
39	OH	13	Belmont
39	OH	15	Brown
39	OH	17	Butler
39	OH	19	Carroll
39	OH	21	Champaign
39	OH	23	Clark
39	OH	25	Clermont
39	OH	27	Clinton
39	OH	29	Columbiana
39	OH	31	Coshocton
39	OH	33	Crawford
39	OH	35	Cuyahoga
39	OH	37	Darke
39	OH	39	Defiance
39	OH	41	Delaware
39	OH	43	Erie

State Code	Postal Abbreviation	County ID	County Name
39	OH	45	Fairfield
39	OH	47	Fayette
39	OH	49	Franklin
39	OH	51	Fulton
39	OH	53	Gallia
39	OH	55	Geauga
39	OH	57	Greene
39	OH	59	Guernsey
39	OH	61	Hamilton
39	OH	63	Hancock
39	OH	65	Hardin
39	OH	67	Harrison
39	OH	69	Henry
39	OH	71	Highland
39	OH	73	Hocking
39	OH	75	Holmes
39	OH	77	Huron
39	OH	79	Jackson
39	OH	81	Jefferson
39	OH	83	Knox
39	OH	85	Lake
39	OH	87	Lawrence
39	OH	89	Licking
39	OH	91	Logan
39	OH	93	Lorain
39	OH	95	Lucas
39	OH	97	Madison
39	OH	99	Mahoning
39	OH	101	Marion
39	OH	103	Medina
39	OH	105	Meigs
39	OH	107	Mercer
39	OH	109	Miami
39	OH	111	Monroe
39	OH	113	Montgomery
39	OH	115	Morgan
39	OH	117	Morrow
39	OH	119	Muskingum
39	OH	121	Noble
39	OH	123	Ottawa
39	OH	125	Paulding
39	OH	127	Perry
39	OH	129	Pickaway
39	OH	131	Pike

State Code	Postal Abbreviation	County ID	County Name
39	OH	133	Portage
39	OH	135	Preble
39	OH	137	Putnam
39	OH	139	Richland
39	OH	141	Ross
39	OH	143	Sandusky
39	OH	145	Scioto
39	OH	147	Seneca
39	OH	149	Shelby
39	OH	151	Stark
39	OH	153	Summit
39	OH	155	Trumbull
39	OH	157	Tuscarawas
39	OH	159	Union
39	OH	161	Van Wert
39	OH	163	Vinton
39	OH	165	Warren
39	OH	167	Washington
39	OH	169	Wayne
39	OH	171	Williams
39	OH	173	Wood
39	OH	175	Wyandot
39	OH	999	Statewide
40	OK	1	Adair
40	OK	3	Alfalfa
40	OK	5	Atoka
40	OK	7	Beaver
40	OK	9	Beckham
40	OK	11	Blaine
40	OK	13	Bryan
40	OK	15	Caddo
40	OK	17	Canadian
40	OK	19	Carter
40	OK	21	Cherokee
40	OK	23	Choctaw
40	OK	25	Cimarron
40	OK	27	Cleveland
40	OK	29	Coal
40	OK	31	Comanche
40	OK	33	Cotton
40	OK	35	Craig
40	OK	37	Creek
40	OK	39	Custer
40	OK	41	Delaware

State Code	Postal Abbreviation	County ID	County Name
40	OK	43	Dewey
40	OK	45	Ellis
40	OK	47	Garfield
40	OK	49	Garvin
40	OK	51	Grady
40	OK	53	Grant
40	OK	55	Greer
40	OK	57	Harmon
40	OK	59	Harper
40	OK	61	Haskell
40	OK	63	Hughes
40	OK	65	Jackson
40	OK	67	Jefferson
40	OK	69	Johnston
40	OK	71	Kay
40	OK	73	Kingfisher
40	OK	75	Kiowa
40	OK	77	Latimer
40	OK	79	Le Flore
40	OK	81	Lincoln
40	OK	83	Logan
40	OK	85	Love
40	OK	87	McClain
40	OK	89	McCurtain
40	OK	91	McIntosh
40	OK	93	Major
40	OK	95	Marshall
40	OK	97	Mayes
40	OK	99	Murray
40	OK	101	Muskogee
40	OK	103	Noble
40	OK	105	Nowata
40	OK	107	Okfuskee
40	OK	109	Oklahoma
40	OK	111	Okmulgee
40	OK	113	Osage
40	OK	115	Ottawa
40	OK	117	Pawnee
40	OK	119	Payne
40	OK	121	Pittsburg
40	OK	123	Pontotoc
40	OK	125	Pottawatomie
40	OK	127	Pushmataha
40	OK	129	Roger Mills

State Code	Postal Abbreviation	County ID	County Name
40	OK	131	Rogers
40	OK	133	Seminole
40	OK	135	Sequoyah
40	OK	137	Stephens
40	OK	139	Texas
40	OK	141	Tillman
40	OK	143	Tulsa
40	OK	145	Wagoner
40	OK	147	Washington
40	OK	149	Washita
40	OK	151	Woods
40	OK	153	Woodward
40	OK	999	Statewide
41	OR	1	Baker
41	OR	3	Benton
41	OR	5	Clackamas
41	OR	7	Clatsop
41	OR	9	Columbia
41	OR	11	Coos
41	OR	13	Crook
41	OR	15	Curry
41	OR	17	Deschutes
41	OR	19	Douglas
41	OR	21	Gilliam
41	OR	23	Grant
41	OR	25	Harney
41	OR	27	Hood River
41	OR	29	Jackson
41	OR	31	Jefferson
41	OR	33	Josephine
41	OR	35	Klamath
41	OR	37	Lake
41	OR	39	Lane
41	OR	41	Lincoln
41	OR	43	Linn
41	OR	45	Malheur
41	OR	47	Marion
41	OR	49	Morrow
41	OR	51	Multnomah
41	OR	53	Polk
41	OR	55	Sherman
41	OR	57	Tillamook
41	OR	59	Umatilla
41	OR	61	Union

State Code	Postal Abbreviation	County ID	County Name
41	OR	63	Wallowa
41	OR	65	Wasco
41	OR	67	Washington
41	OR	69	Wheeler
41	OR	71	Yamhill
41	OR	999	Statewide
42	PA	1	Adams
42	PA	3	Allegheny
42	PA	5	Armstrong
42	PA	7	Beaver
42	PA	9	Bedford
42	PA	11	Berks
42	PA	13	Blair
42	PA	15	Bradford
42	PA	17	Bucks
42	PA	19	Butler
42	PA	21	Cambria
42	PA	23	Cameron
42	PA	25	Carbon
42	PA	27	Centre
42	PA	29	Chester
42	PA	31	Clarion
42	PA	33	Clearfield
42	PA	35	Clinton
42	PA	37	Columbia
42	PA	39	Crawford
42	PA	41	Cumberland
42	PA	43	Dauphin
42	PA	45	Delaware
42	PA	47	Elk
42	PA	49	Erie
42	PA	51	Fayette
42	PA	53	Forest
42	PA	55	Franklin
42	PA	57	Fulton
42	PA	59	Greene
42	PA	61	Huntingdon
42	PA	63	Indiana
42	PA	65	Jefferson
42	PA	67	Juniata
42	PA	69	Lackawanna
42	PA	71	Lancaster
42	PA	73	Lawrence
42	PA	75	Lebanon

State Code	Postal Abbreviation	County ID	County Name
42	PA	77	Lehigh
42	PA	79	Luzerne
42	PA	81	Lycoming
42	PA	83	McKean
42	PA	85	Mercer
42	PA	87	Mifflin
42	PA	89	Monroe
42	PA	91	Montgomery
42	PA	93	Montour
42	PA	95	Northampton
42	PA	97	Northumberland
42	PA	99	Perry
42	PA	101	Philadelphia
42	PA	103	Pike
42	PA	105	Potter
42	PA	107	Schuylkill
42	PA	109	Snyder
42	PA	111	Somerset
42	PA	113	Sullivan
42	PA	115	Susquehanna
42	PA	117	Tioga
42	PA	119	Union
42	PA	121	Venango
42	PA	123	Warren
42	PA	125	Washington
42	PA	127	Wayne
42	PA	129	Westmoreland
42	PA	131	Wyoming
42	PA	133	York
42	PA	999	Statewide
44	RI	1	Bristol
44	RI	3	Kent
44	RI	5	Newport
44	RI	7	Providence
44	RI	9	Washington
44	RI	999	Statewide
45	SC	1	Abbeville
45	SC	3	Aiken
45	SC	5	Allendale
45	SC	7	Anderson
45	SC	9	Bamberg
45	SC	11	Barnwell
45	SC	13	Beaufort
45	SC	15	Berkeley

State Code	Postal Abbreviation	County ID	County Name
45	SC	17	Calhoun
45	SC	19	Charleston
45	SC	21	Cherokee
45	SC	23	Chester
45	SC	25	Chesterfield
45	SC	27	Clarendon
45	SC	29	Colleton
45	SC	31	Darlington
45	SC	33	Dillon
45	SC	35	Dorchester
45	SC	37	Edgefield
45	SC	39	Fairfield
45	SC	41	Florence
45	SC	43	Georgetown
45	SC	45	Greenville
45	SC	47	Greenwood
45	SC	49	Hampton
45	SC	51	Horry
45	SC	53	Jasper
45	SC	55	Kershaw
45	SC	57	Lancaster
45	SC	59	Laurens
45	SC	61	Lee
45	SC	63	Lexington
45	SC	65	McCormick
45	SC	67	Marion
45	SC	69	Marlboro
45	SC	71	Newberry
45	SC	73	Oconee
45	SC	75	Orangeburg
45	SC	77	Pickens
45	SC	79	Richland
45	SC	81	Saluda
45	SC	83	Spartanburg
45	SC	85	Sumter
45	SC	87	Union
45	SC	89	Williamsburg
45	SC	91	York
45	SC	999	Statewide
46	SD	3	Aurora
46	SD	5	Beadle
46	SD	7	Bennett
46	SD	9	Bon Homme
46	SD	11	Brookings

State Code	Postal Abbreviation	County ID	County Name
46	SD	13	Brown
46	SD	15	Brule
46	SD	17	Buffalo
46	SD	19	Butte
46	SD	21	Campbell
46	SD	23	Charles Mix
46	SD	25	Clark
46	SD	27	Clay
46	SD	29	Codington
46	SD	31	Corson
46	SD	33	Custer
46	SD	35	Davison
46	SD	37	Day
46	SD	39	Deuel
46	SD	41	Dewey
46	SD	43	Douglas
46	SD	45	Edmunds
46	SD	47	Fall River
46	SD	49	Faulk
46	SD	51	Grant
46	SD	53	Gregory
46	SD	55	Haakon
46	SD	57	Hamlin
46	SD	59	Hand
46	SD	61	Hanson
46	SD	63	Harding
46	SD	65	Hughes
46	SD	67	Hutchinson
46	SD	69	Hyde
46	SD	71	Jackson
46	SD	73	Jerauld
46	SD	75	Jones
46	SD	77	Kingsbury
46	SD	79	Lake
46	SD	81	Lawrence
46	SD	83	Lincoln
46	SD	85	Lyman
46	SD	87	McCook
46	SD	89	McPherson
46	SD	91	Marshall
46	SD	93	Meade
46	SD	95	Mellette
46	SD	97	Miner
46	SD	99	Minnehaha

State Code	Postal Abbreviation	County ID	County Name
46	SD	101	Moody
46	SD	103	Pennington
46	SD	105	Perkins
46	SD	107	Potter
46	SD	109	Roberts
46	SD	111	Sanborn
46	SD	113	Shannon
46	SD	115	Spink
46	SD	117	Stanley
46	SD	119	Sully
46	SD	121	Todd
46	SD	123	Tripp
46	SD	125	Turner
46	SD	127	Union
46	SD	129	Walworth
46	SD	135	Yankton
46	SD	137	Ziebach
46	SD	999	Statewide
47	TN	1	Anderson
47	TN	3	Bedford
47	TN	5	Benton
47	TN	7	Bledsoe
47	TN	9	Blount
47	TN	11	Bradley
47	TN	13	Campbell
47	TN	15	Cannon
47	TN	17	Carroll
47	TN	19	Carter
47	TN	21	Cheatham
47	TN	23	Chester
47	TN	25	Claiborne
47	TN	27	Clay
47	TN	29	Cocke
47	TN	31	Coffee
47	TN	33	Crockett
47	TN	35	Cumberland
47	TN	37	Davidson
47	TN	39	Decatur
47	TN	41	DeKalb
47	TN	43	Dickson
47	TN	45	Dyer
47	TN	47	Fayette
47	TN	49	Fentress
47	TN	51	Franklin

State Code	Postal Abbreviation	County ID	County Name
47	TN	53	Gibson
47	TN	55	Giles
47	TN	57	Grainger
47	TN	59	Greene
47	TN	61	Grundy
47	TN	63	Hamblen
47	TN	65	Hamilton
47	TN	67	Hancock
47	TN	69	Hardeman
47	TN	71	Hardin
47	TN	73	Hawkins
47	TN	75	Haywood
47	TN	77	Henderson
47	TN	79	Henry
47	TN	81	Hickman
47	TN	83	Houston
47	TN	85	Humphreys
47	TN	87	Jackson
47	TN	89	Jefferson
47	TN	91	Johnson
47	TN	93	Knox
47	TN	95	Lake
47	TN	97	Lauderdale
47	TN	99	Lawrence
47	TN	101	Lewis
47	TN	103	Lincoln
47	TN	105	Loudon
47	TN	107	McMinn
47	TN	109	McNairy
47	TN	111	Macon
47	TN	113	Madison
47	TN	115	Marion
47	TN	117	Marshall
47	TN	119	Maury
47	TN	121	Meigs
47	TN	123	Monroe
47	TN	125	Montgomery
47	TN	127	Moore
47	TN	129	Morgan
47	TN	131	Obion
47	TN	133	Overton
47	TN	135	Perry
47	TN	137	Pickett
47	TN	139	Polk

State Code	Postal Abbreviation	County ID	County Name
47	TN	141	Putnam
47	TN	143	Rhea
47	TN	145	Roane
47	TN	147	Robertson
47	TN	149	Rutherford
47	TN	151	Scott
47	TN	153	Sequatchie
47	TN	155	Sevier
47	TN	157	Shelby
47	TN	159	Smith
47	TN	161	Stewart
47	TN	163	Sullivan
47	TN	165	Sumner
47	TN	167	Tipton
47	TN	169	Trousdale
47	TN	171	Unicoi
47	TN	173	Union
47	TN	175	Van Buren
47	TN	177	Warren
47	TN	179	Washington
47	TN	181	Wayne
47	TN	183	Weakley
47	TN	185	White
47	TN	187	Williamson
47	TN	189	Wilson
47	TN	999	Statewide
48	TX	1	Anderson
48	TX	3	Andrews
48	TX	5	Angelina
48	TX	7	Aransas
48	TX	9	Archer
48	TX	11	Armstrong
48	TX	13	Atascosa
48	TX	15	Austin
48	TX	17	Bailey
48	TX	19	Bandera
48	TX	21	Bastrop
48	TX	23	Baylor
48	TX	25	Bee
48	TX	27	Bell
48	TX	29	Bexar
48	TX	31	Blanco
48	TX	33	Borden
48	TX	35	Bosque

State Code	Postal Abbreviation	County ID	County Name
48	TX	37	Bowie
48	TX	39	Brazoria
48	TX	41	Brazos
48	TX	43	Brewster
48	TX	45	Briscoe
48	TX	47	Brooks
48	TX	49	Brown
48	TX	51	Burleson
48	TX	53	Burnet
48	TX	55	Caldwell
48	TX	57	Calhoun
48	TX	59	Callahan
48	TX	61	Cameron
48	TX	63	Camp
48	TX	65	Carson
48	TX	67	Cass
48	TX	69	Castro
48	TX	71	Chambers
48	TX	73	Cherokee
48	TX	75	Childress
48	TX	77	Clay
48	TX	79	Cochran
48	TX	81	Coke
48	TX	83	Coleman
48	TX	85	Collin
48	TX	87	Collingsworth
48	TX	89	Colorado
48	TX	91	Comal
48	TX	93	Comanche
48	TX	95	Concho
48	TX	97	Cooke
48	TX	99	Coryell
48	TX	101	Cottle
48	TX	103	Crane
48	TX	105	Crockett
48	TX	107	Crosby
48	TX	109	Culberson
48	TX	111	Dallam
48	TX	113	Dallas
48	TX	115	Dawson
48	TX	117	Deaf Smith
48	TX	119	Delta
48	TX	121	Denton
48	TX	123	DeWitt

State Code	Postal Abbreviation	County ID	County Name
48	TX	125	Dickens
48	TX	127	Dimmit
48	TX	129	Donley
48	TX	131	Duval
48	TX	133	Eastland
48	TX	135	Ector
48	TX	137	Edwards
48	TX	139	Ellis
48	TX	141	El Paso
48	TX	143	Erath
48	TX	145	Falls
48	TX	147	Fannin
48	TX	149	Fayette
48	TX	151	Fisher
48	TX	153	Floyd
48	TX	155	Foard
48	TX	157	Fort Bend
48	TX	159	Franklin
48	TX	161	Freestone
48	TX	163	Frio
48	TX	165	Gaines
48	TX	167	Galveston
48	TX	169	Garza
48	TX	171	Gillespie
48	TX	173	Glasscock
48	TX	175	Goliad
48	TX	177	Gonzales
48	TX	179	Gray
48	TX	181	Grayson
48	TX	183	Gregg
48	TX	185	Grimes
48	TX	187	Guadalupe
48	TX	189	Hale
48	TX	191	Hall
48	TX	193	Hamilton
48	TX	195	Hansford
48	TX	197	Hardeman
48	TX	199	Hardin
48	TX	201	Harris
48	TX	203	Harrison
48	TX	205	Hartley
48	TX	207	Haskell
48	TX	209	Hays
48	TX	211	Hemphill

State Code	Postal Abbreviation	County ID	County Name
48	TX	213	Henderson
48	TX	215	Hidalgo
48	TX	217	Hill
48	TX	219	Hockley
48	TX	221	Hood
48	TX	223	Hopkins
48	TX	225	Houston
48	TX	227	Howard
48	TX	229	Hudspeth
48	TX	231	Hunt
48	TX	233	Hutchinson
48	TX	235	Irion
48	TX	237	Jack
48	TX	239	Jackson
48	TX	241	Jasper
48	TX	243	Jeff Davis
48	TX	245	Jefferson
48	TX	247	Jim Hogg
48	TX	249	Jim Wells
48	TX	251	Johnson
48	TX	253	Jones
48	TX	255	Karnes
48	TX	257	Kaufman
48	TX	259	Kendall
48	TX	261	Kenedy
48	TX	263	Kent
48	TX	265	Kerr
48	TX	267	Kimble
48	TX	269	King
48	TX	271	Kinney
48	TX	273	Kleberg
48	TX	275	Knox
48	TX	277	Lamar
48	TX	279	Lamb
48	TX	281	Lampasas
48	TX	283	La Salle
48	TX	285	Lavaca
48	TX	287	Lee
48	TX	289	Leon
48	TX	291	Liberty
48	TX	293	Limestone
48	TX	295	Lipscomb
48	TX	297	Live Oak
48	TX	299	Llano

State Code	Postal Abbreviation	County ID	County Name
48	TX	301	Loving
48	TX	303	Lubbock
48	TX	305	Lynn
48	TX	307	McCulloch
48	TX	309	McLennan
48	TX	311	McMullen
48	TX	313	Madison
48	TX	315	Marion
48	TX	317	Martin
48	TX	319	Mason
48	TX	321	Matagorda
48	TX	323	Maverick
48	TX	325	Medina
48	TX	327	Menard
48	TX	329	Midland
48	TX	331	Milam
48	TX	333	Mills
48	TX	335	Mitchell
48	TX	337	Montague
48	TX	339	Montgomery
48	TX	341	Moore
48	TX	343	Morris
48	TX	345	Motley
48	TX	347	Nacogdoches
48	TX	349	Navarro
48	TX	351	Newton
48	TX	353	Nolan
48	TX	355	Nueces
48	TX	357	Ochiltree
48	TX	359	Oldham
48	TX	361	Orange
48	TX	363	Palo Pinto
48	TX	365	Panola
48	TX	367	Parker
48	TX	369	Parmer
48	TX	371	Pecos
48	TX	373	Polk
48	TX	375	Potter
48	TX	377	Presidio
48	TX	379	Rains
48	TX	381	Randall
48	TX	383	Reagan
48	TX	385	Real
48	TX	387	Red River

State Code	Postal Abbreviation	County ID	County Name
48	TX	389	Reeves
48	TX	391	Refugio
48	TX	393	Roberts
48	TX	395	Robertson
48	TX	397	Rockwall
48	TX	399	Runnels
48	TX	401	Rusk
48	TX	403	Sabine
48	TX	405	San Augustine
48	TX	407	San Jacinto
48	TX	409	San Patricio
48	TX	411	San Saba
48	TX	413	Schleicher
48	TX	415	Scurry
48	TX	417	Shackelford
48	TX	419	Shelby
48	TX	421	Sherman
48	TX	423	Smith
48	TX	425	Somervell
48	TX	427	Starr
48	TX	429	Stephens
48	TX	431	Sterling
48	TX	433	Stonewall
48	TX	435	Sutton
48	TX	437	Swisher
48	TX	439	Tarrant
48	TX	441	Taylor
48	TX	443	Terrell
48	TX	445	Terry
48	TX	447	Throckmorton
48	TX	449	Titus
48	TX	451	Tom Green
48	TX	453	Travis
48	TX	455	Trinity
48	TX	457	Tyler
48	TX	459	Upshur
48	TX	461	Upton
48	TX	463	Uvalde
48	TX	465	Val Verde
48	TX	467	Van Zandt
48	TX	469	Victoria
48	TX	471	Walker
48	TX	473	Waller
48	TX	475	Ward

State Code	Postal Abbreviation	County ID	County Name
48	TX	477	Washington
48	TX	479	Webb
48	TX	481	Wharton
48	TX	483	Wheeler
48	TX	485	Wichita
48	TX	487	Wilbarger
48	TX	489	Willacy
48	TX	491	Williamson
48	TX	493	Wilson
48	TX	495	Winkler
48	TX	497	Wise
48	TX	499	Wood
48	TX	501	Yoakum
48	TX	503	Young
48	TX	505	Zapata
48	TX	507	Zavala
48	TX	999	Statewide
49	UT	1	Beaver
49	UT	3	Box Elder
49	UT	5	Cache
49	UT	7	Carbon
49	UT	9	Daggett
49	UT	11	Davis
49	UT	13	Duchesne
49	UT	15	Emery
49	UT	17	Garfield
49	UT	19	Grand
49	UT	21	Iron
49	UT	23	Juab
49	UT	25	Kane
49	UT	27	Millard
49	UT	29	Morgan
49	UT	31	Piute
49	UT	33	Rich
49	UT	35	Salt Lake
49	UT	37	San Juan
49	UT	39	Sanpete
49	UT	41	Sevier
49	UT	43	Summit
49	UT	45	Tooele
49	UT	47	Uintah
49	UT	49	Utah
49	UT	51	Wasatch
49	UT	53	Washington

State Code	Postal Abbreviation	County ID	County Name
49	UT	55	Wayne
49	UT	57	Weber
49	UT	999	Statewide
50	VT	1	Addison
50	VT	3	Bennington
50	VT	5	Caledonia
50	VT	7	Chittenden
50	VT	9	Essex
50	VT	11	Franklin
50	VT	13	Grand Isle
50	VT	15	Lamoille
50	VT	17	Orange
50	VT	19	Orleans
50	VT	21	Rutland
50	VT	23	Washington
50	VT	25	Windham
50	VT	27	Windsor
50	VT	999	Statewide
51	VA	1	Accomack
51	VA	3	Albemarle
51	VA	5	Alleghany
51	VA	7	Amelia
51	VA	9	Amherst
51	VA	11	Appomattox
51	VA	13	Arlington
51	VA	15	Augusta
51	VA	17	Bath
51	VA	19	Bedford
51	VA	21	Bland
51	VA	23	Botetourt
51	VA	25	Brunswick
51	VA	27	Buchanan
51	VA	29	Buckingham
51	VA	31	Campbell
51	VA	33	Caroline
51	VA	35	Carroll
51	VA	36	Charles City
51	VA	37	Charlotte
51	VA	41	Chesterfield
51	VA	43	Clarke
51	VA	45	Craig
51	VA	47	Culpeper
51	VA	49	Cumberland
51	VA	51	Dickenson

State Code	Postal Abbreviation	County ID	County Name
51	VA	53	Dinwiddie
51	VA	57	Essex
51	VA	59	Fairfax
51	VA	61	Fauquier
51	VA	63	Floyd
51	VA	65	Fluvanna
51	VA	67	Franklin
51	VA	69	Frederick
51	VA	71	Giles
51	VA	73	Gloucester
51	VA	75	Goochland
51	VA	77	Grayson
51	VA	79	Greene
51	VA	81	Greensville
51	VA	83	Halifax
51	VA	85	Hanover
51	VA	87	Henrico
51	VA	89	Henry
51	VA	91	Highland
51	VA	93	Isle of Wight
51	VA	95	James City
51	VA	97	King and Queen
51	VA	99	King George
51	VA	101	King William
51	VA	103	Lancaster
51	VA	105	Lee
51	VA	107	Loudoun
51	VA	109	Louisa
51	VA	111	Lunenburg
51	VA	113	Madison
51	VA	115	Mathews
51	VA	117	Mecklenburg
51	VA	119	Middlesex
51	VA	121	Montgomery
51	VA	125	Nelson
51	VA	127	New Kent
51	VA	131	Northampton
51	VA	133	Northumberland
51	VA	135	Nottoway
51	VA	137	Orange
51	VA	139	Page
51	VA	141	Patrick
51	VA	143	Pittsylvania
51	VA	145	Powhatan

State Code	Postal Abbreviation	County ID	County Name
51	VA	147	Prince Edward
51	VA	149	Prince George
51	VA	153	Prince William
51	VA	155	Pulaski
51	VA	157	Rappahannock
51	VA	159	Richmond
51	VA	161	Roanoke
51	VA	163	Rockbridge
51	VA	165	Rockingham
51	VA	167	Russell
51	VA	169	Scott
51	VA	171	Shenandoah
51	VA	173	Smyth
51	VA	175	Southampton
51	VA	177	Spotsylvania
51	VA	179	Stafford
51	VA	181	Surry
51	VA	183	Sussex
51	VA	185	Tazewell
51	VA	187	Warren
51	VA	191	Washington
51	VA	193	Westmoreland
51	VA	195	Wise
51	VA	197	Wythe
51	VA	199	York
51	VA	510	Alexandria
51	VA	515	Bedford
51	VA	520	Bristol
51	VA	530	Buena Vista
51	VA	540	Charlottesville
51	VA	550	Chesapeake
51	VA	570	Colonial Heights
51	VA	580	Covington
51	VA	590	Danville
51	VA	595	Emporia
51	VA	600	Fairfax
51	VA	610	Falls Church
51	VA	620	Franklin
51	VA	630	Fredericksburg
51	VA	640	Galax
51	VA	650	Hampton
51	VA	660	Harrisonburg
51	VA	670	Hopewell
51	VA	678	Lexington

State Code	Postal Abbreviation	County ID	County Name
51	VA	680	Lynchburg
51	VA	683	Manassas
51	VA	685	Manassas Park
51	VA	690	Martinsville
51	VA	700	Newport News
51	VA	710	Norfolk
51	VA	720	Norton
51	VA	730	Petersburg
51	VA	735	Poquoson
51	VA	740	Portsmouth
51	VA	750	Radford
51	VA	760	Richmond
51	VA	770	Roanoke
51	VA	775	Salem
51	VA	790	Staunton
51	VA	800	Suffolk
51	VA	810	Virginia Beach
51	VA	820	Waynesboro
51	VA	830	Williamsburg
51	VA	840	Winchester
51	VA	999	Statewide
53	WA	1	Adams
53	WA	3	Asotin
53	WA	5	Benton
53	WA	7	Chelan
53	WA	9	Clallam
53	WA	11	Clark
53	WA	13	Columbia
53	WA	15	Cowlitz
53	WA	17	Douglas
53	WA	19	Ferry
53	WA	21	Franklin
53	WA	23	Garfield
53	WA	25	Grant
53	WA	27	Grays Harbor
53	WA	29	Island
53	WA	31	Jefferson
53	WA	33	King
53	WA	35	Kitsap
53	WA	37	Kittitas
53	WA	39	Klickitat
53	WA	41	Lewis
53	WA	43	Lincoln
53	WA	45	Mason

State Code	Postal Abbreviation	County ID	County Name
53	WA	47	Okanogan
53	WA	49	Pacific
53	WA	51	Pend Oreille
53	WA	53	Pierce
53	WA	55	San Juan
53	WA	57	Skagit
53	WA	59	Skamania
53	WA	61	Snohomish
53	WA	63	Spokane
53	WA	65	Stevens
53	WA	67	Thurston
53	WA	69	Wahkiakum
53	WA	71	Walla Walla
53	WA	73	Whatcom
53	WA	75	Whitman
53	WA	77	Yakima
53	WA	999	Statewide
54	WV	1	Barbour
54	WV	3	Berkeley
54	WV	5	Boone
54	WV	7	Braxton
54	WV	9	Brooke
54	WV	11	Cabell
54	WV	13	Calhoun
54	WV	15	Clay
54	WV	17	Doddridge
54	WV	19	Fayette
54	WV	21	Gilmer
54	WV	23	Grant
54	WV	25	Greenbrier
54	WV	27	Hampshire
54	WV	29	Hancock
54	WV	31	Hardy
54	WV	33	Harrison
54	WV	35	Jackson
54	WV	37	Jefferson
54	WV	39	Kanawha
54	WV	41	Lewis
54	WV	43	Lincoln
54	WV	45	Logan
54	WV	47	McDowell
54	WV	49	Marion
54	WV	51	Marshall
54	WV	53	Mason

State Code	Postal Abbreviation	County ID	County Name
54	WV	55	Mercer
54	WV	57	Mineral
54	WV	59	Mingo
54	WV	61	Monongalia
54	WV	63	Monroe
54	WV	65	Morgan
54	WV	67	Nicholas
54	WV	69	Ohio
54	WV	71	Pendleton
54	WV	73	Pleasants
54	WV	75	Pocahontas
54	WV	77	Preston
54	WV	79	Putnam
54	WV	81	Raleigh
54	WV	83	Randolph
54	WV	85	Ritchie
54	WV	87	Roane
54	WV	89	Summers
54	WV	91	Taylor
54	WV	93	Tucker
54	WV	95	Tyler
54	WV	97	Upshur
54	WV	99	Wayne
54	WV	101	Webster
54	WV	103	Wetzel
54	WV	105	Wirt
54	WV	107	Wood
54	WV	109	Wyoming
54	WV	999	Statewide
55	WI	1	Adams
55	WI	3	Ashland
55	WI	5	Barron
55	WI	7	Bayfield
55	WI	9	Brown
55	WI	11	Buffalo
55	WI	13	Burnett
55	WI	15	Calumet
55	WI	17	Chippewa
55	WI	19	Clark
55	WI	21	Columbia
55	WI	23	Crawford
55	WI	25	Dane
55	WI	27	Dodge
55	WI	29	Door

State Code	Postal Abbreviation	County ID	County Name
55	WI	31	Douglas
55	WI	33	Dunn
55	WI	35	Eau Claire
55	WI	37	Florence
55	WI	39	Fond du Lac
55	WI	41	Forest
55	WI	43	Grant
55	WI	45	Green
55	WI	47	Green Lake
55	WI	49	Iowa
55	WI	51	Iron
55	WI	53	Jackson
55	WI	55	Jefferson
55	WI	57	Juneau
55	WI	59	Kenosha
55	WI	61	Kewaunee
55	WI	63	La Crosse
55	WI	65	Lafayette
55	WI	67	Langlade
55	WI	69	Lincoln
55	WI	71	Manitowoc
55	WI	73	Marathon
55	WI	75	Marinette
55	WI	77	Marquette
55	WI	78	Menominee
55	WI	79	Milwaukee
55	WI	81	Monroe
55	WI	83	Oconto
55	WI	85	Oneida
55	WI	87	Outagamie
55	WI	89	Ozaukee
55	WI	91	Pepin
55	WI	93	Pierce
55	WI	95	Polk
55	WI	97	Portage
55	WI	99	Price
55	WI	101	Racine
55	WI	103	Richland
55	WI	105	Rock
55	WI	107	Rusk
55	WI	109	St. Croix
55	WI	111	Sauk
55	WI	113	Sawyer
55	WI	115	Shawano

State Code	Postal Abbreviation	County ID	County Name
55	WI	117	Sheboygan
55	WI	119	Taylor
55	WI	121	Trempealeau
55	WI	123	Vernon
55	WI	125	Vilas
55	WI	127	Walworth
55	WI	129	Washburn
55	WI	131	Washington
55	WI	133	Waukesha
55	WI	135	Waupaca
55	WI	137	Waushara
55	WI	139	Winnebago
55	WI	141	Wood
55	WI	999	Statewide
56	WY	1	Albany
56	WY	3	Big Horn
56	WY	5	Campbell
56	WY	7	Carbon
56	WY	9	Converse
56	WY	11	Crook
56	WY	13	Fremont
56	WY	15	Goshen
56	WY	17	Hot Springs
56	WY	19	Johnson
56	WY	21	Laramie
56	WY	23	Lincoln
56	WY	25	Natrona
56	WY	27	Niobrara
56	WY	29	Park
56	WY	31	Platte
56	WY	33	Sheridan
56	WY	35	Sublette
56	WY	37	Sweetwater
56	WY	39	Teton
56	WY	41	Uinta
56	WY	43	Washakie
56	WY	45	Weston
56	WY	999	Statewide
60	AS	10	Eastern
60	AS	20	Manu'a
60	AS	30	Rose Island
60	AS	40	Swains Island
60	AS	50	Western
60	AS	999	Statewide

State Code	Postal Abbreviation	County ID	County Name
66	GU	10	Guam
66	GU	999	Statewide
69	MP	85	Northern Islands
69	MP	100	Rota
69	MP	110	Saipan
69	MP	120	Tinian
69	MP	999	Statewide
72	PR	1	Adjuntas
72	PR	3	Aguada
72	PR	5	Aguadilla
72	PR	7	Aguas Buenas
72	PR	9	Aibonito
72	PR	11	Añasco
72	PR	13	Arecibo
72	PR	15	Arroyo
72	PR	17	Barceloneta
72	PR	19	Barranquitas
72	PR	21	Bayamón
72	PR	23	Cabo Rojo
72	PR	25	Caguas
72	PR	27	Camuy
72	PR	29	Canóvanas
72	PR	31	Carolina
72	PR	33	Cataño
72	PR	35	Cayey
72	PR	37	Ceiba
72	PR	39	Ciales
72	PR	41	Cidra
72	PR	43	Coamo
72	PR	45	Comerio
72	PR	47	Corozal
72	PR	49	Culebra
72	PR	51	Dorado
72	PR	53	Fajardo
72	PR	54	Florida
72	PR	55	Guánica
72	PR	57	Guayama
72	PR	59	Guayanilla
72	PR	61	Guaynabo
72	PR	63	Gurabo
72	PR	65	Hatillo
72	PR	67	Hormigueros
72	PR	69	Humacao
72	PR	71	Isabela

State Code	Postal Abbreviation	County ID	County Name
72	PR	73	Jayuya
72	PR	75	Juana Díaz
72	PR	77	Juncos
72	PR	79	Lajas
72	PR	81	Lares
72	PR	83	Las Marías
72	PR	85	Las Piedras
72	PR	87	Loíza
72	PR	89	Luquillo
72	PR	91	Manatí
72	PR	93	Maricao
72	PR	95	Maunabo
72	PR	97	Mayagüez
72	PR	99	Moca
72	PR	101	Morovis
72	PR	103	Naguabo
72	PR	105	Naranjito
72	PR	107	Orocovis
72	PR	109	Patillas
72	PR	111	Peñuelas
72	PR	113	Ponce
72	PR	115	Quebradillas
72	PR	117	Rincón
72	PR	119	Río Grande
72	PR	121	Sabana Grande
72	PR	123	Salinas
72	PR	125	San Germán
72	PR	127	San Juan
72	PR	129	San Lorenzo
72	PR	131	San Sebastián
72	PR	133	Santa Isabel
72	PR	135	Toa Alta
72	PR	137	Toa Baja
72	PR	139	Trujillo Alto
72	PR	141	Utua
72	PR	143	Vega Alta
72	PR	145	Vega Baja
72	PR	147	Vieques
72	PR	149	Villalba
72	PR	151	Yabucoa
72	PR	153	Yauco
72	PR	999	Statewide
78	VI	10	St. Croix
78	VI	20	St. John

State Code	Postal Abbreviation	County ID	County Name
78	VI	30	St. Thomas
78	VI	999	Statewide
81		1	Alberta
81		2	British Columbia
81		3	Manitoba
81		4	New Brunswick
81		5	Newfoundland & Labrador
81		6	Northwest Territories
81		7	Nova Scotia
81		8	Ontario
81		9	Prince Edward Island
81		10	Quebec
81		11	Saskatchewan
81		12	Yukon Territory
81		13	Nunavut
81		999	Statewide

Withdrawal Areas

Withdrawal Area	Postal Abbreviation	Name
10	AZ	Tucson
20	CA	Sacramento
30	CA	San Francisco
40	CO	Denver
50	CT	Bolton to Killingly
60	CT	Hartford
70	CT	Hartford - New Britain
80	CT	Killingly
90	DC	Washington
1	DE	Wilmington 1
3	DE	Wilmington 2
100	GA	Atlanta
130	IA	Waterloo
110	IL	Chicago
120	IN	Indianapolis
140	MD	Baltimore
150	MD	Bowie to Millersville
170	MI	Fall River to Providence
180	MN	Duluth
190	MN	Minneapolis - St. Paul
200	NE	Omaha
160	NH	Boston

210	NY	New York City
230	NY	New York City to Trenton
240	NY	Albany
250	OH	Cleveland
260	OR	Portland
270	OR	Salem
220	PA	Philadelphia
280	PA	Pittsburgh
290	RI	Rhode Island
300	TN	Memphis

Appendix B – NBI Number Relocation Spreadsheet

Steps for Creating and Submitting the Relocation Spreadsheet

1. **Identify projects for which your State will provide relocation instructions:** Review projects for your State in the first tab of the “Bridge Relocation Worksheets”. This spreadsheet is being provided along with this State Preparation Guide. The sample below shows four NBI numbers sharing the same program code/improvement type within the same FMIS project. Your State can provide conversion instructions for all, some, or none of such projects. Projects where your State is likely to change the project agreement using FMIS 5.0 (not including Close or Withdraw) are good candidates for providing relocation instructions.

Sample from “Bridge Projects with Shared Improvement Type/Program Code”

STATE FIPS	PROJ_NO	NBI_STRUCTURE_NO	PROGRAM_CODE	IMPROVEMENT_TYPE
1	0000001	999999	C240	14
1	0000001	888888	C240	14
1	0000001	777777	C240	14
1	0000001	666666	C240	14

2. **Identify Project Details:** Assume the project AL 0000001 above has three detail lines, two of which match the shared program code/improvement type C240/14. The State needs to provide instructions on how to associate bridges 999999, 888888, 777777, and 666666 with the funds on detail lines 1 and 2, since the program code/improvement type for these lines matches these three NBI numbers.

Project Detail Lines on AL 0000001

DETAIL #	PROGRAM_CODE	IMPROVEMENT_TYPE	FEDERAL FUNDS	AC FUNDS	STATE FUNDS	LOCAL FUNDS	PRIVATE FUNDS	NON-MONETARY FUNDS	OTHER FUNDS
01	C240	14	\$500.00	\$0.00	\$200.00	\$0.00	\$0.00	\$0.00	\$0.00
02	C240	14	\$1000.00	\$0.00	\$500.00	\$0.00	\$0.00	\$0.00	\$0.00
03	CXYZ	17	\$400.00	\$0.00	\$200.00	\$0.00	\$0.00	\$0.00	\$0.00

3. **Create the Relocation Spreadsheet:** A sample from the State’s relocation instructions spreadsheet appears below. Your State’s relocation instructions need to contain the same columns depicted in this sample, and must conform to rules which appear below the sample. The second tab of the “Bridge Relocation Worksheets” contains a template that can be used as a starting point for your State’s relocation spreadsheet.

Sample Relocation Instructions

ST_FIPS	Proj#	NBI Structure#	Program Code	Improvement Type	Detail#	% of Funds	AC Funds	Federal Funds	State Funds	Local Funds	Private Funds	Non-Monetary Funds	Other Funds
1	0000001	888888	C240	14	1	62.20							
1	0000001	666666	C240	14	1	37.80							
1	0000001	777777	C240	14	2		\$0.00	\$500.00	\$250.00	\$0.00	\$0.00	\$0.00	\$0.00
1	0000001	888888	C240	14	2		\$0.00	\$250.00	\$125.00	\$0.00	\$0.00	\$0.00	\$0.00
1	0000001	999999	C240	14	2		\$0.00	\$250.00	\$125.00	\$0.00	\$0.00	\$0.00	\$0.00

As depicted above, your State has the option to assign funds to bridges either using a percentage of funds (see detail #1), or by supplying the individual fund amounts for each bridge (see detail #2). You cannot mix the percent option with the individual amount option within the same detail line.

The following are the rules when providing the % of Funds:

- a. Percent of funds for each detail line must total 100%. In the example above, 62.2% of funds for line 1 are assigned to NBI number 888888 and 37.8% of funds are assigned to 666666, for a total of 100%.
- b. The percent of funds applies to all fund amounts, including AC, State, local, private, non-monetary, and “other”. For example, the \$500.00 in Federal and \$200.00 in State funds from Detail #1 will be assigned to NBI numbers 888888 and 666666 as shown in the table below.

NBI Structure #	Percent of Funds	Federal Funds	State Funds
888888	62.20%	\$311.00	\$124.40
666666	37.80%	\$189.00	\$75.60
		\$500.00	\$200.00

The following rule applies when providing the individual fund amounts:

- c. The total of each fund amount across all bridges must match the fund amount that is already on the detail line. In the above example, detail# 2 has \$1000.00 in Federal Funds and \$500.00 in State Funds. There are three bridges on that detail line and the total federal funds across all three bridges must equal \$1000.00 and the total state funds across all three bridges must equal \$500.00. This rule applies for all fund amounts on the detail line (Local, Private etc.,) .

The following rules always apply irrespective of whether % of Funds or the individual fund amounts are provided:

- d. The State must include all detail lines within a project which reference a shared program code/improvement type. If the project above contained three or more detail lines that shared program code/improvement type C240/14, then all such lines must be included in the relocation spreadsheet.
- e. All shared program code/improvement types within a project must be addressed. The project in the example below has two program code/improvement types that are shared by more than one bridge. If the State includes this project in its relocation spreadsheet, then all detail lines referencing C240/14 and C240/47 must be included on the spreadsheet.

STATE FIPS	PROJ_NO	NBI_STRUCTURE_NO	PROGRAM_CODE	IMPROVEMENT_TYPE
1	5000001	999999	C240	14
1	5000001	888888	C240	14
1	5000001	777777	C240	47
1	5000001	888888	C240	47

- 4. **Verify Relocation Results in FMIS 5.0** – Once the FMIS 5.0 test database is available in May 2014 you will be able to submit your State’s relocation spreadsheet so that it you can review your relocation results in FMIS 5.0. More detailed instructions regarding how to submit your spreadsheet and review results will be available prior to when the FMIS 5.0 test database becomes available.
- 5. **Updates to your State’s Relocation Instructions Spreadsheet:** Since FMIS is a production system, the projects requiring conversion instructions will change over time. The “Bridge Projects with Shared Improvement Type/Program Code” spreadsheet will be updated quarterly following its initial release. It will be distributed to the States through the Division Offices and will also be posted to the FMIS User News and Information (FUNI) web site, which can be reached using the Help menu in production FMIS. States have the option to revise and resubmit their NBI relocation spreadsheets in response to these quarterly updates. Your State must submit a best and final relocation spreadsheet prior to FHWA’s migration of data from current FMIS to FMIS 5.0. A cutoff date for this final submission is TBD.

Appendix C – SFTP Instructions

EDS Instructions

I. Introduction

This document is for the introduction of using FMIS5 EDS services via the FHWA SFTP server (FHWAWAR1) in compliance with the DOT security standard and requirements. The purpose of this document is to explain how to use the SFTP server to upload FMIS5 EDS project files and to receive the FMIS5 EDS project downloads (extracts).

II. SFTP Account & Registration

To access FHWAWAR1 server and to use the EDS service, you need the following:

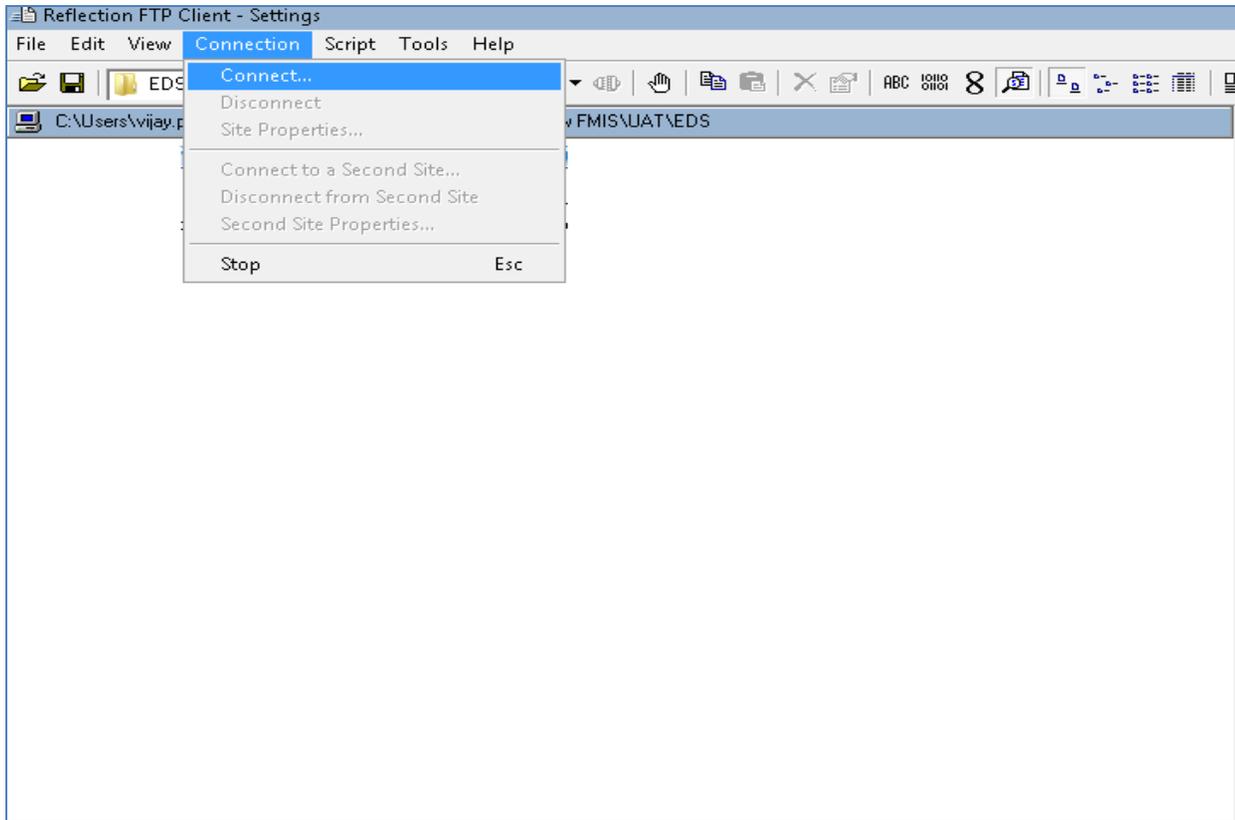
- 1) A SFTP client program that is **FIPS 140-2 validated**.
- 2) Name of SFTP server: The name for FHWA Secure FTP Server is "**fhwawar1.fhwa.dot.gov**".
- 3) Login credentials: FHWAWAR1 server accounts are assigned based on individual persons. So every state user will need to have a SFTP user ID and password to access the FHWA SFTP Server (FHWAWAR1).

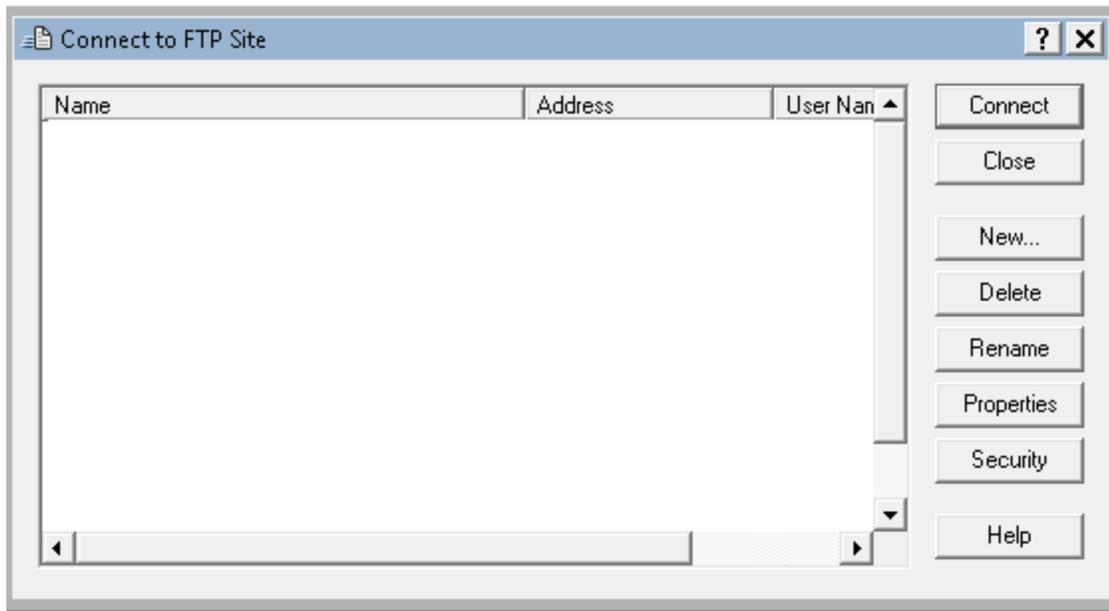
Note: For the registration and approval of new user ids for SFTP, please contact Jane Nitchals at jane.nitchals@dot.gov or (785) 271-2448 x222 with the full name of the State DOT user and their email address. For other technical issues, please contact the FMIS Team via email FMISTEAM@dot.gov.

III. SFTP Secure Access

To send or receive FMIS 5.0 EDS files through the Internet, you must have access to the Internet. If you have a firewall preventing interactive connections with some sites, you may want to add FHWA address to your firewall's permissible site list. The name for FHWA Secure FTP Server (FHWAWAR1) is "**fhwawar1.fhwa.dot.gov**". Please use the name as the server reference because it is permanent.

1. The user will need to use a secure FTP client which is FIPS 140-2 validated. One example is Attachmate Reflection FTP client. The key for the client program is to communicate via SFTP-compatible protocol with at least 128 bit encryption. Attachmate Reflection FTP client is used as an example for Secure FTP client in this document. These schemes are representative of a SFTP client executed from a workstation.
 - a) In the Reflection FTP Client, click the Connection → Connect option in the menu. It will display the "Connect to FTP Site" window





- b) Click the "New" button in the "Connect to FTP Site" window. The "Add FTP Site" window is displayed. Enter "fhwawar1.fhwa.dot.gov" as the host name and click Next. Click Next on the next window as well (Login Information window).

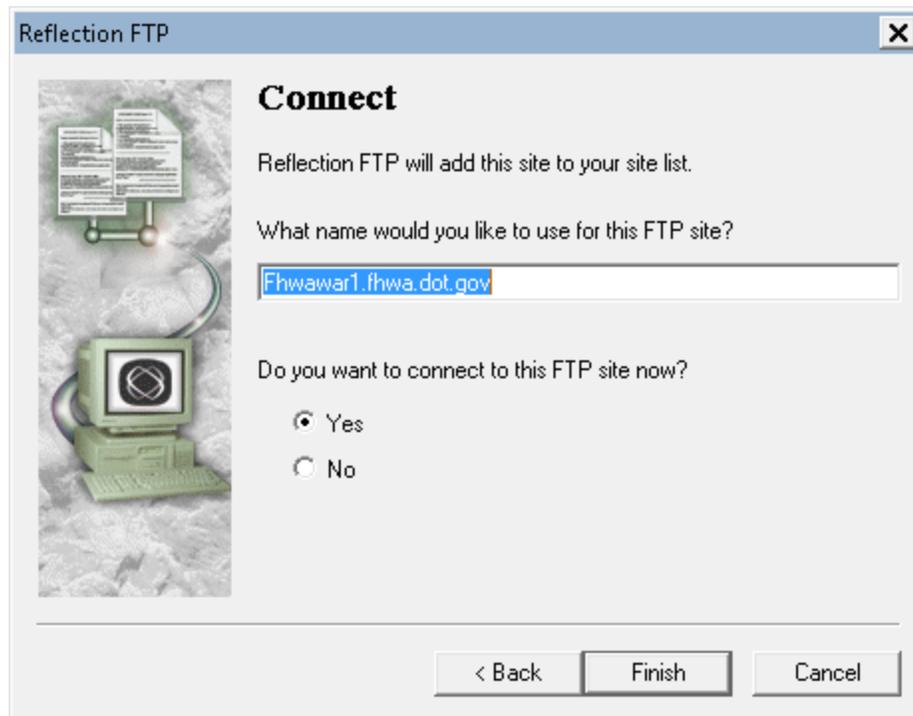




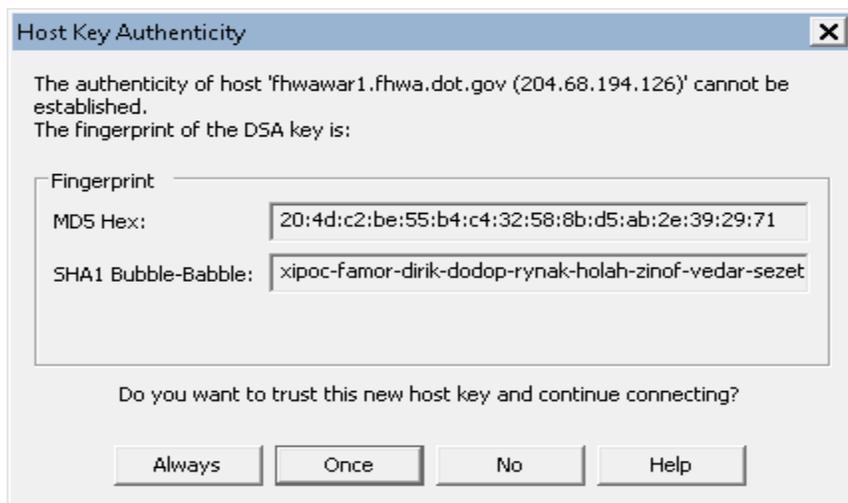
c) In the "FTP User Login" window, enter the SFTP account user name and click Next.



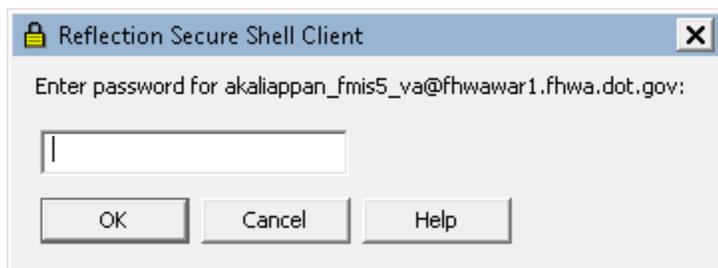
d) Click Finish in the "Connect" window



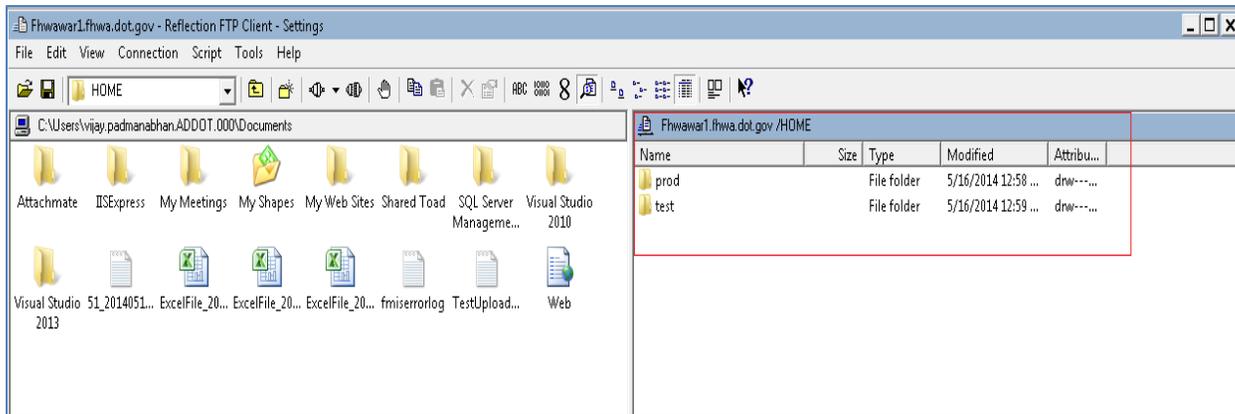
e) Click "Always" button in the "Host Key Authenticity" window.



f) In the password prompt window, enter your SFTP account password and click OK.

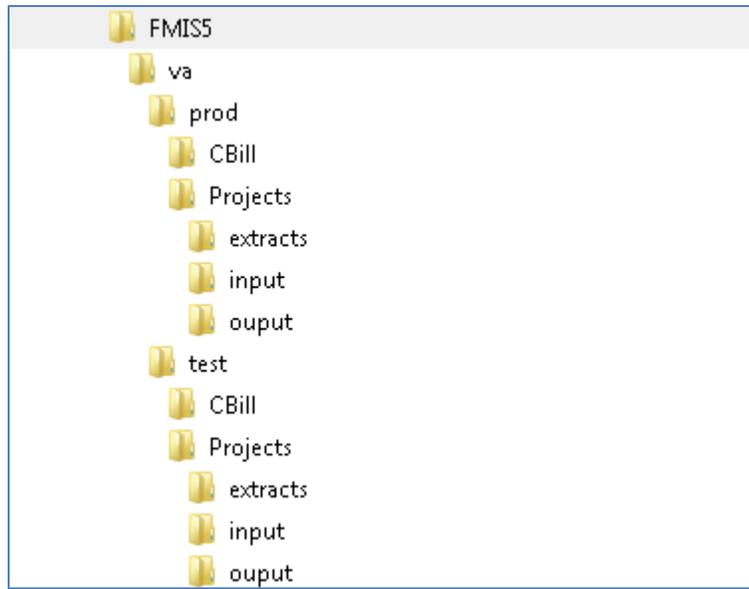


g) Upon successful password validation, you will be taken to the Home folder in the SFTP site.



IV. FMIS5 SFTP File structure

The SFTP FMIS5 file structure is shown in the figure below. Each state/recipient will have the similar folder structure. The file structure for Virginia (VA) state is shown below. There will be two main folders – **prod & test**. The Home folder for the user’s SFTP account will be set up in such a way that when the users login they will see the prod and test folders assigned to them. The prod folder will be used for the FMIS5 Production environment and the test folder will be used for FMIS5 test environment. The test and prod folders will have the **Projects** sub-folder which will have the following 3 sub-folders: **input, output and extracts**. The input & output folder will be used for the FMIS5 EDS Projects upload and the extracts folder will be used for the FMIS5 EDS Projects Download.



V. Transfer FMIS5 EDS Upload files to FHWA using SFTP

A) EDS Upload in FMIS5 Test environment

The following are the steps that need to be followed for uploading a Projects file to the FMIS5 Test environment:

- 1) Connect to the SFTP server (fhwawar1.fhwa.dot.gov) using a FIPS 140-2 Validated FTP client
- 2) From the SFTP Home folder, navigate to the **input** folder under test\Projects. In the local folder panel, maneuver to the folder containing the EDS file to be transferred. Copy the EDS file from the local folder and place it in the SFTP input folder. Note: In FMIS5, the new XML file structure is required. So the file to be placed must have the .xml extension otherwise the file will not be processed. The suggested file name convention is the following:

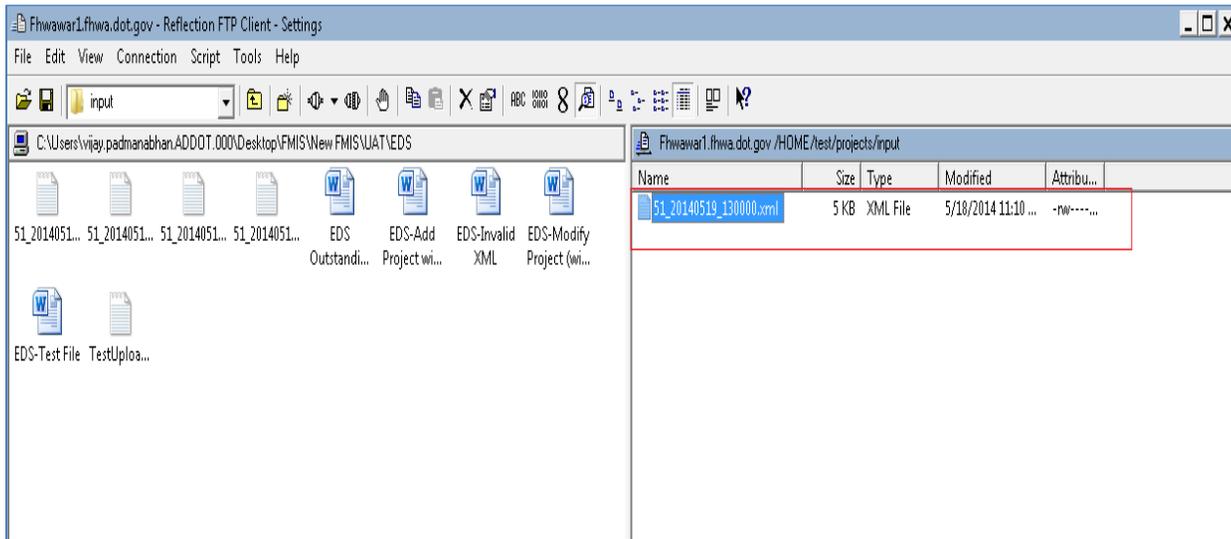
[RecipID]_[yyyymmdd]_[hhmmss].xml

[RecipID]_[yyyymmdd]_[hhmmss] represents the following:

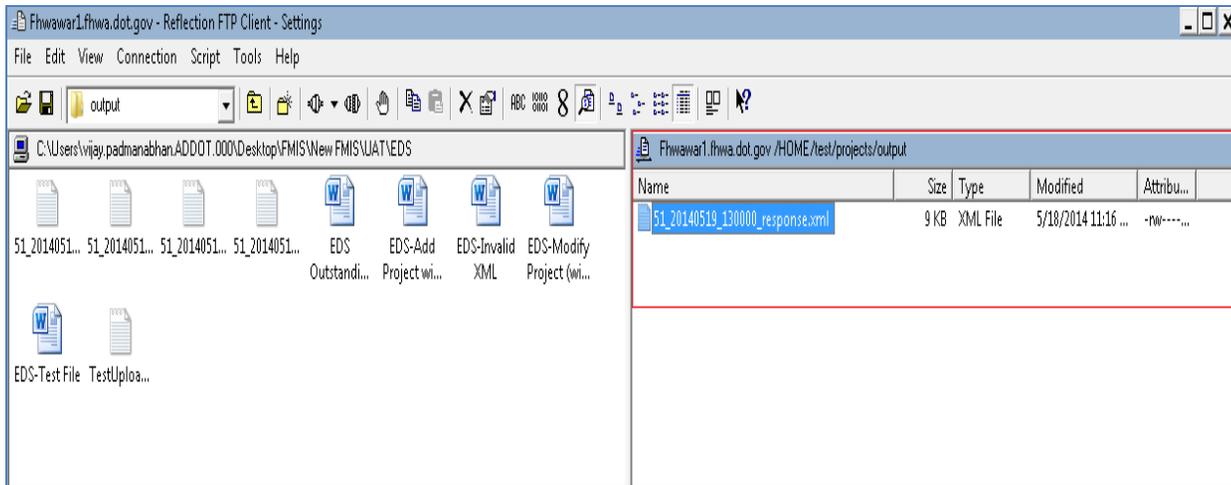
RecipID: Numeric ID for the Recipient

[yyyymmdd][hhmmss]: File creation date & time in year, month, day, hour, minutes, and seconds. Hours should be in military format, e.g. 11:00pm = 230000.

The file example used in this document is 51_20140519_130000.xml



- 3) The FMIS5 EDS Test process will pick up this file and will process it in the FMIS5 Test environment. Once the file is picked up for processing, the file will be renamed with an ".done" extension. Once the processing is completed, the response file for the upload process will be placed in the output folder. The file name will be the same as the uploaded file with the word "_response" added to the end of the file name. e.g., 51_20140519_130000_response.xml. You can navigate to the **output** folder under test\Projects to retrieve the response file.



B) EDS Upload in FMIS5 Prod environment

The following are the steps that need to be followed for uploading a Projects file to the FMIS5 Prod environment:

- 1) Connect to the SFTP server (fhwawar1.fhwa.dot.gov) using a FIPS 140-2 Validated FTP client
- 2) From the SFTP Home folder, navigate to the **input** folder under prod\Projects. In the local folder panel, maneuver to the folder containing the EDS file to be transferred. Copy the EDS file from the local folder and place it in the SFTP input folder. Note: In FMIS5, the new XML file structure is required. So the file to be placed must have the .xml extension otherwise the file will not be processed. The suggested file name convention shall be following:

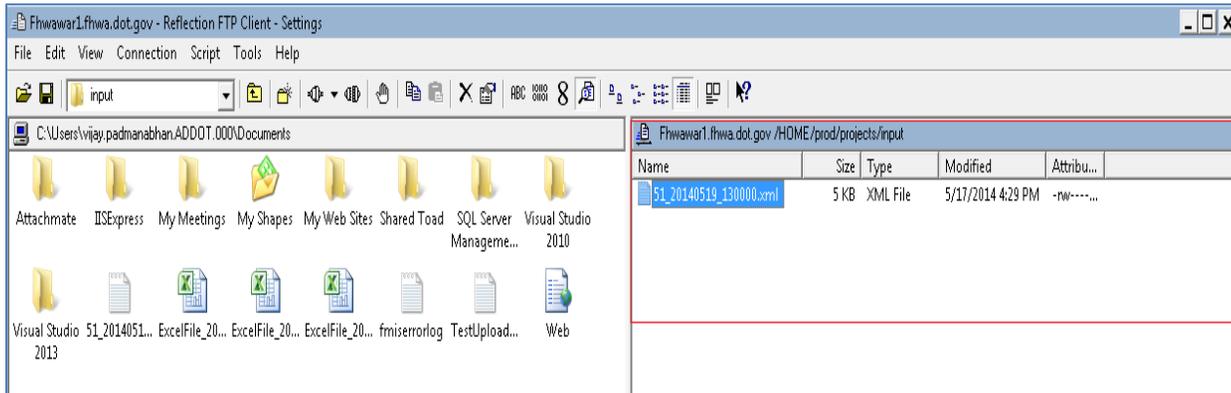
[RecipID]_[yyyymmdd]_[hhmmss].xml

[RecipID]_[yyyymmdd]_[hhmmss] represents the following:

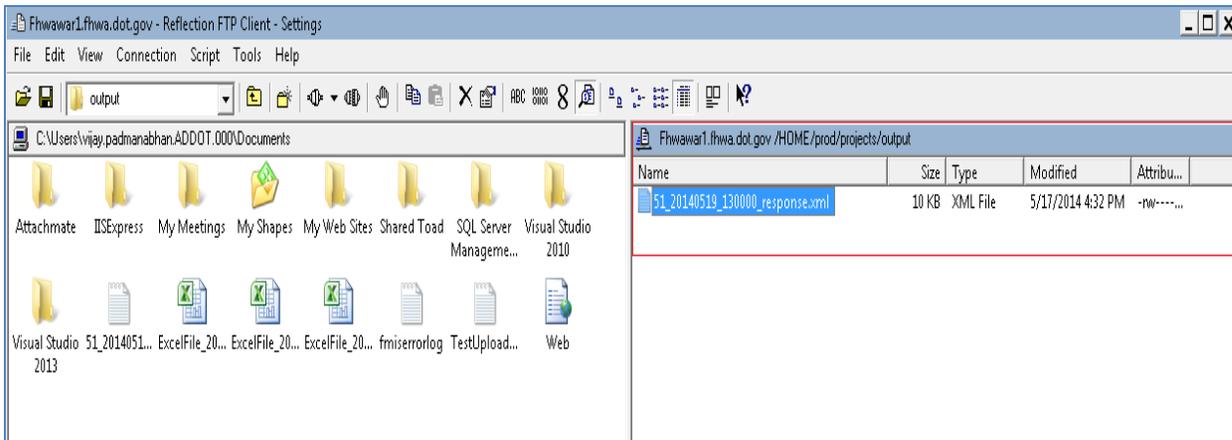
RecipID: Numeric ID for the Recipient

[yyyyymmdd]_[hhmmss]: File creation date & time in year, month, day, hour, minutes, and seconds. Hours should be in military format, e.g. 11:00pm = 230000.

The file example used in this document is 51_20140519_130000.xml



- 3) The FMIS5 Production EDS process will pick up this file and will process it in FMIS5 Production environment. Once the file is picked up for processing, the file will be renamed with an ".done" extension. Once the processing is completed, the response file for the upload process will be placed in the output folder. The file name will be the same as the uploaded file with the word "_response" added to the end of the file name. e.g., 51_20140519_130000_response.xml. You can navigate to the **output** folder under prod\Projects to retrieve the response file.



VI. Download EDS Daily Project extracts from FHWA using SFTP

A) Download Project extracts from FMIS5 Test environment

The following are the steps that need to be followed for downloading Project extracts from the FMIS5 Test environment:

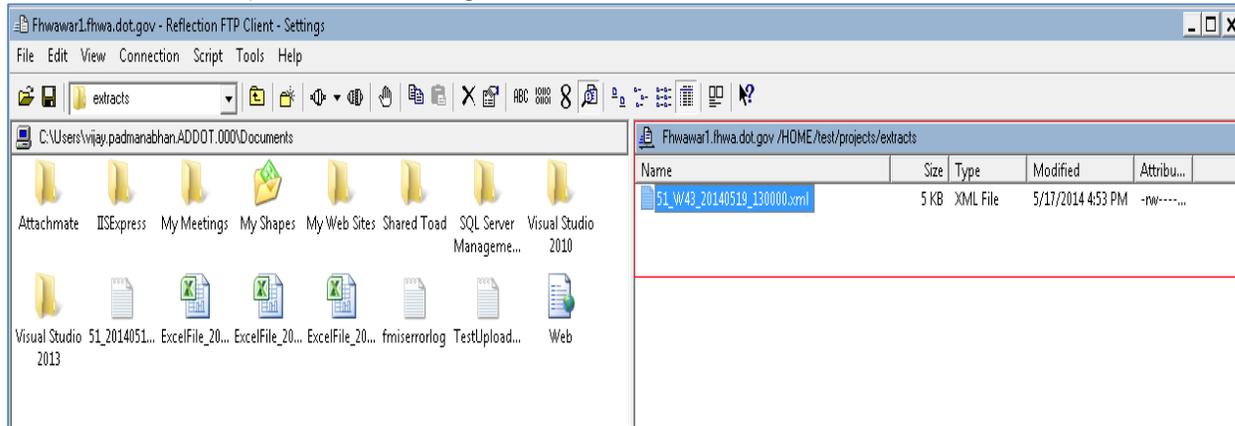
- 1) Connect to the SFTP server (fhwawar1.fhwa.dot.gov) using a FIPS 140-2 Validated FTP client
- 2) From the SFTP Home folder, navigate to the **extracts** folder under test\Projects. The Project extracts will be available in this folder.

EDS extract files are named **[RecipID]_[type]_[yyyymmdd]_[hhmmss].xml**

where [RecipID]_[type]_[yyyymmdd]_[hhmmss] represents the following:

- RecipID - Numeric ID for the Recipient
- Type – Denotes the type of Extract. A value of **W40** indicates that the file contains both Projects which received final electronic signature the previous day, as well as projects for which expenditures were updated the previous day. A value of **W41** indicates that the file contains only Projects which received final electronic signature the previous day. **W43** is the name of the file that is created when a state wants a copy of all their projects in the system.
- [yyyymmdd]_[hhmmss] – The date & time on which the extracts were generated.

The file example shown in the figure below is 51_W43_20140519_010000.xml



B) Download Project extracts from FMIS5 Prod environment

The following are the steps that need to be followed for downloading Project extracts from the FMIS5 Prod environment:

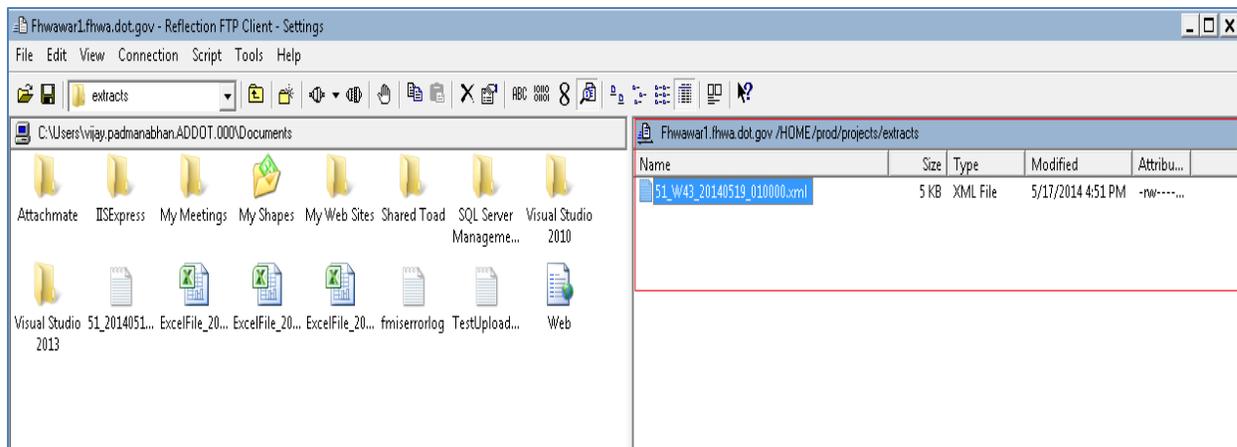
- 1) Connect to the SFTP server (fhwawar1.fhwa.dot.gov) using a FIPS 140-2 Validated FTP client
- 2) From the SFTP Home folder, navigate to the **extracts** folder under prod\Projects. The Project extracts will be available in this folder.

EDS extract files are named **[RecipID]_[type]_[yyyymmdd]_[hhmmss].xml**

where [RecipID]_[type]_[yyyymmdd]_[hhmmss] represents the following:

- RecipID - Numeric ID for the Recipient
- Type – Denotes the type of Extract. A value of **W40** indicates that the file contains both Projects which received final electronic signature the previous day, as well as projects for which expenditures were updated the previous day. A value of **W41** indicates that the file contains only Projects which received final electronic signature the previous day. **W43** is the name of the file that is created when a state wants a copy of all their projects in the system.
- [yyyymmdd]_[hhmmss] – The date & time on which the extracts were generated.

The file example shown in the figure below is 51_W43_20140519_010000.xml



Current Bill Instructions

I. Introduction

One of the methods by which STATE DOTs and MPOs can transmit data to FHWA is by SFTP (secure FTP). The purpose of this document is to explain how to use the SFTP server to upload Current Bill files.

II. SFTP Account & Registration

To access FHWAWAR1 server, you need the following:

- 1) A SFTP client program that is **FIPS 140-2 validated**.
- 2) Name of SFTP server: The name for FHWA Secure FTP Server is "**fhwawar1.fhwa.dot.gov**".
- 3) Login credentials: FHWAWAR1 server accounts are assigned based on individual persons. So every state user will need to a SFTP user ID and password to access the FHWA SFTP Server (FHWAWAR1).

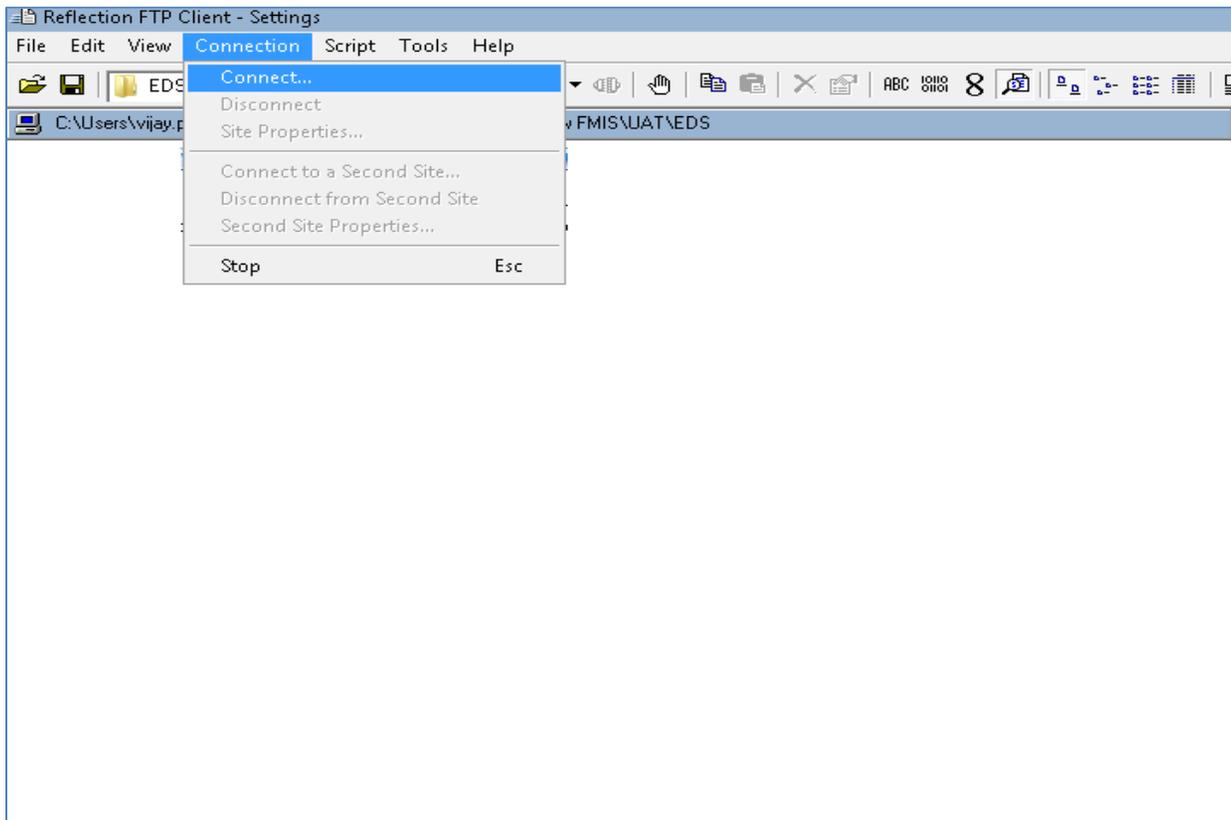
Note: For the registration and approval of new user ids for SFTP, please contact Jane Nitchals at jane.nitchals@dot.gov or (785) 271-2448 x222 with the full name of the State DOT user and their email address. For Current Bill technical issues, please contact Rochelle Zellars-Crawford at FHWA Office of The Chief Financial Officer (OCFO) at (202) 366-2862 or email rochelle.zellars-crawford@dot.gov

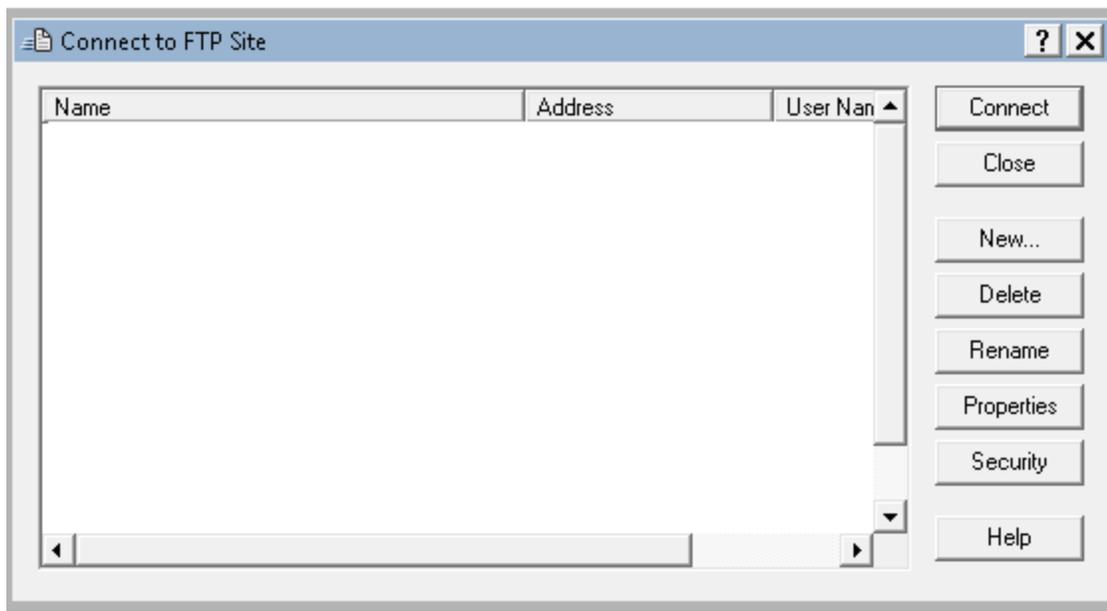
III. SFTP Secure Access

To send or receive FMIS 5.0 Current Bill files through the Internet, you must have access to the Internet. If you have a firewall preventing interactive connections with some sites, you may want to add FHWA address to your firewall's permissible site list. The name for FHWA Secure FTP Server (FHWAWAR1) is "**fhwawar1.fhwa.dot.gov**". Please use the name as the server reference because it is permanent.

1. The user will need to use a secure FTP client which is FIPS 140-2 validated. One example is Attachmate Reflection FTP client. The key for the client program is to communicate via SFTP-compatible protocol with at least 128 bit encryption. Attachmate Reflection FTP client is used as an example for Secure FTP client in this document. These schemes are representative of a SFTP client executed from a workstation.

a) In the Reflection FTP Client, click the Connection → Connect option in the menu. It will display the “Connect to FTP Site” window





- b) Click the "New" button in the "Connect to FTP Site" window. The "Add FTP Site" window is displayed. Enter "fhwawar1.fhwa.dot.gov" as the host name and click Next. Click Next on the next window as well (Login Information window).

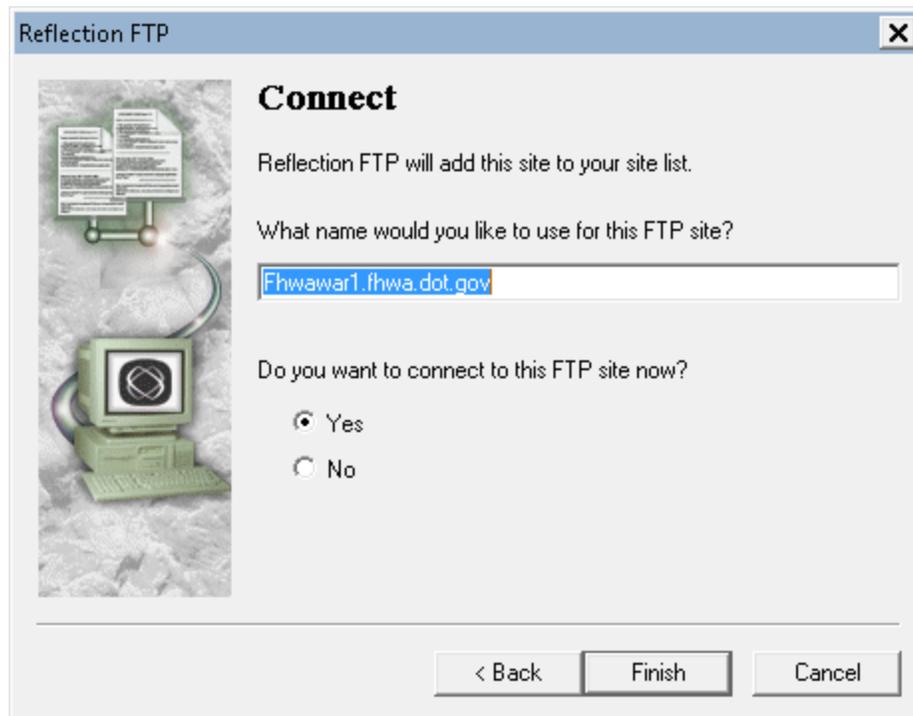




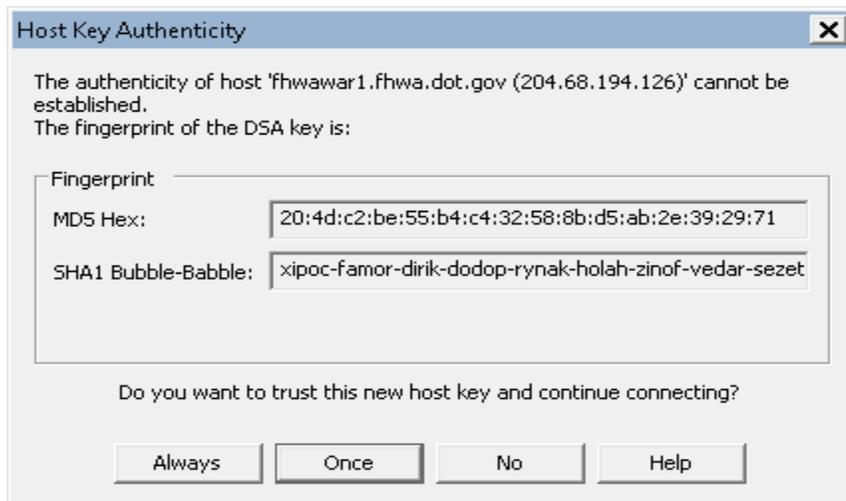
c) In the "FTP User Login" window, enter the SFTP account user name and click Next.



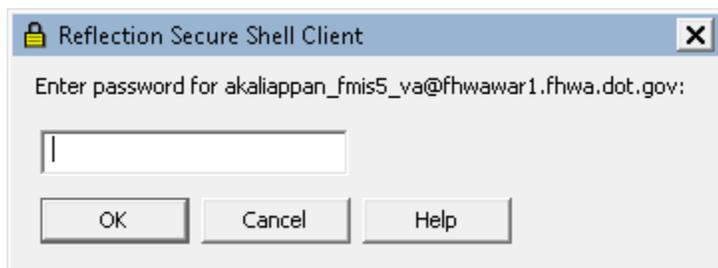
d) Click Finish in the "Connect" window



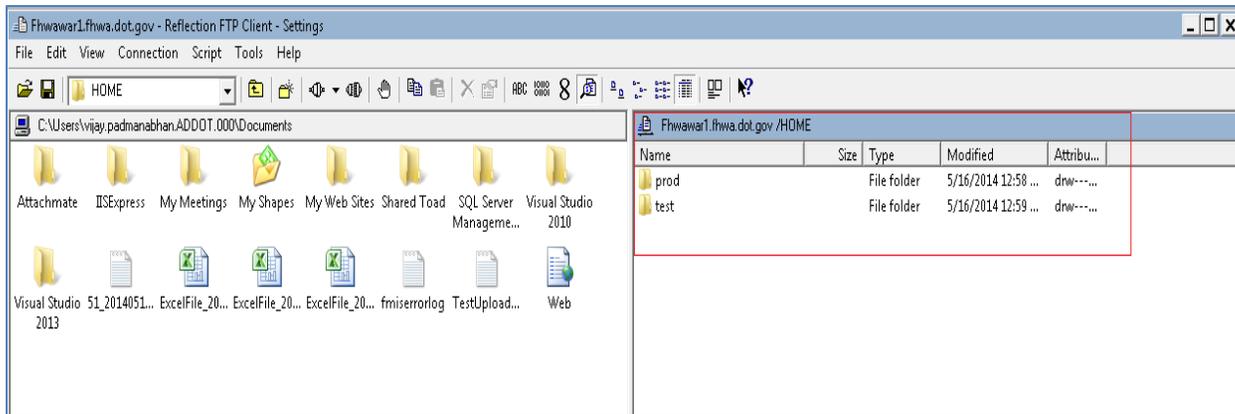
e) Click "Always" button in the "Host Key Authenticity" window.



f) In the password prompt window, enter your SFTP account password and click OK.

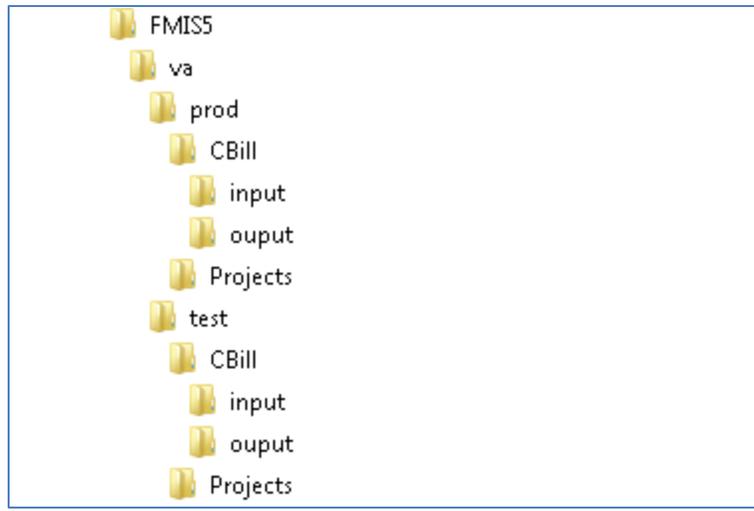


g) Upon successful password validation, you will be taken to the Home folder in the SFTP site.



IV. FMIS5 SFTP File structure

The SFTP FMIS5 file structure is shown in the figure below. Each state/recipient will have the similar folder structure. The file structure for Virginia (VA) state is shown below. There will be two main folders – **prod & test**. The Home folder for the user’s SFTP account will be set up in such a way that when the users login they will see the prod and test folders assigned to them. The prod folder will be used for the FMIS5 Production environment and the test folder will be used for FMIS5 test environment. The test and prod folders will have the **CBill** sub-folder which will have the following 2 sub-folders: **input and output**. The input & output folder will be used for the Current Bill upload process.



V. Transfer Current Bill files to FHWA using SFTP

A) Current Bill Upload in FMIS5 Test environment Via SFTP

The following are the steps that need to be followed for uploading a Current Bill file to the FMIS5 Test environment:

- 1) Connect to the SFTP server (fhwawar1.fhwa.dot.gov) using a FIPS 140-2 Validated FTP client
- 2) From the SFTP Home folder, navigate to the **input** folder under test\CBill. In the local folder panel, maneuver to the folder containing Current Bill file to be transferred. Copy the Current Bill file from the local folder and place it in the SFTP input folder. Note: In FMIS5, the new pipe-delimited text file is required. So the file to be placed must have the .txt extension otherwise the file will not be processed. The suggested file name convention is the following:

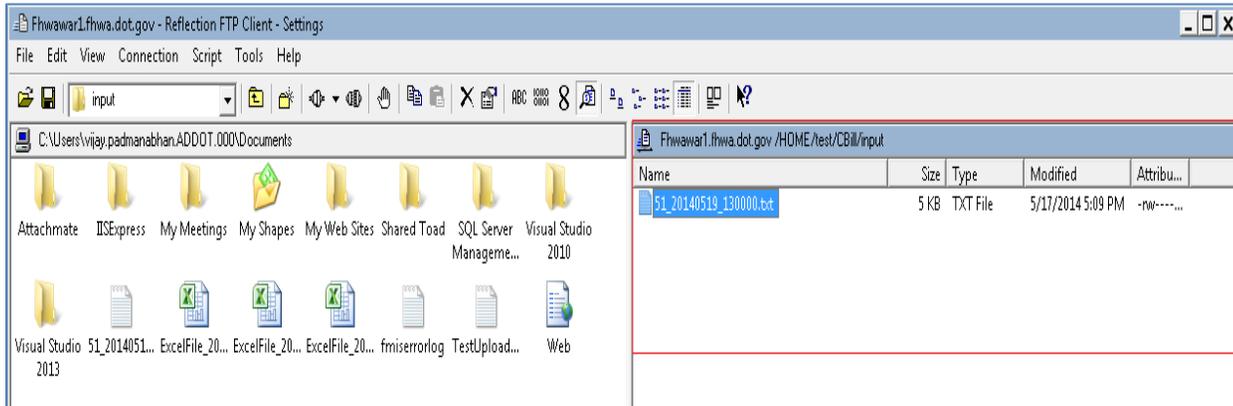
[RecipID]_[yyyymmdd]_[hhmmss].txt

[RecipID]_[yyyymmdd]_[hhmmss] represents the following:

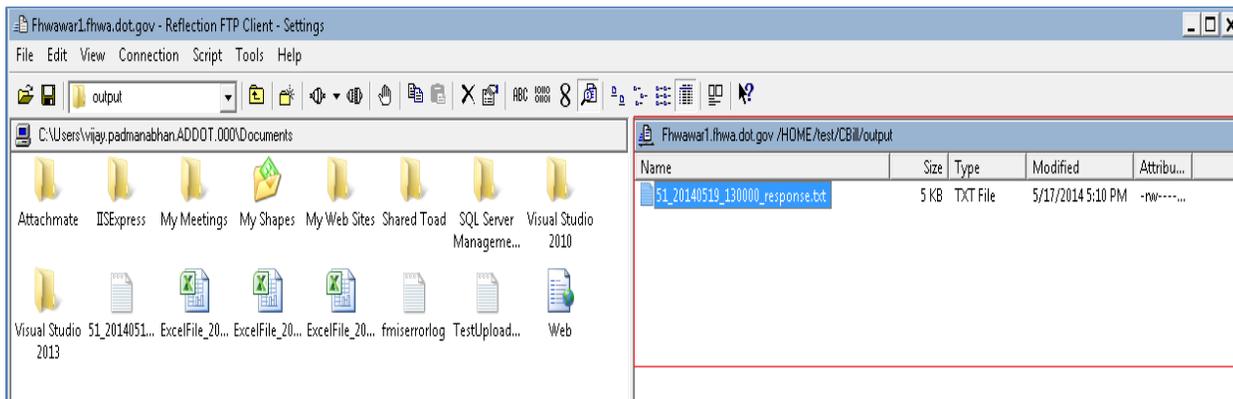
RecipID: Numeric ID for the Recipient

[yyyymmdd]_[hhmmss]: File creation date & time in year, month, day, hour, minutes, and seconds. Hours should be in military format, e.g. 11:00pm = 230000.

The file example used in this document is 51_20140519_130000.txt



- 3) The FMIS5 Current Bill Test process will pick up this file and will process it in the FMIS5 Test environment. Once the file is picked up for processing, the file will be renamed with an ".done" extension. Once the processing is completed, the response file for the upload process will be placed in the output folder. The file name will be the same as the uploaded file with the word "_response" added to the end of the file name. e.g., 51_20140519_130000_response.txt. You can navigate to the **output** folder under test\CBill to retrieve the response file.



B) Current Bill Upload in FMIS5 Prod environment Via SFTP

The following are the steps that need to be followed for uploading a Projects file to the FMIS5 Prod environment:

- 1) Connect to the SFTP server (fhwawar1.fhwa.dot.gov) using a FIPS 140-2 Validated FTP client
- 2) From the SFTP Home folder, navigate to the **input** folder under prod/CBill. In the local folder panel, maneuver to the folder containing Current Bill file to be transferred. Copy the Current Bill file from the local folder and place it in the SFTP input folder. Note: In FMIS5, the new pipe-delimited text file is required. So the file to be placed must have the .txt extension otherwise the file will not be processed. The suggested file name convention shall be following:

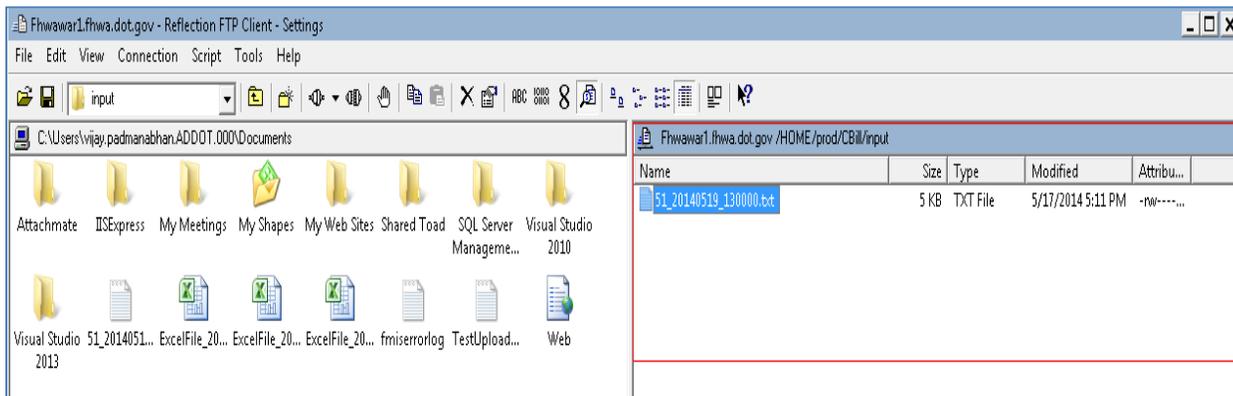
[RecipID]_[yyyymmdd]_[hhmmss].txt

[RecipID]_[yyyymmdd]_[hhmmss] represents the following:

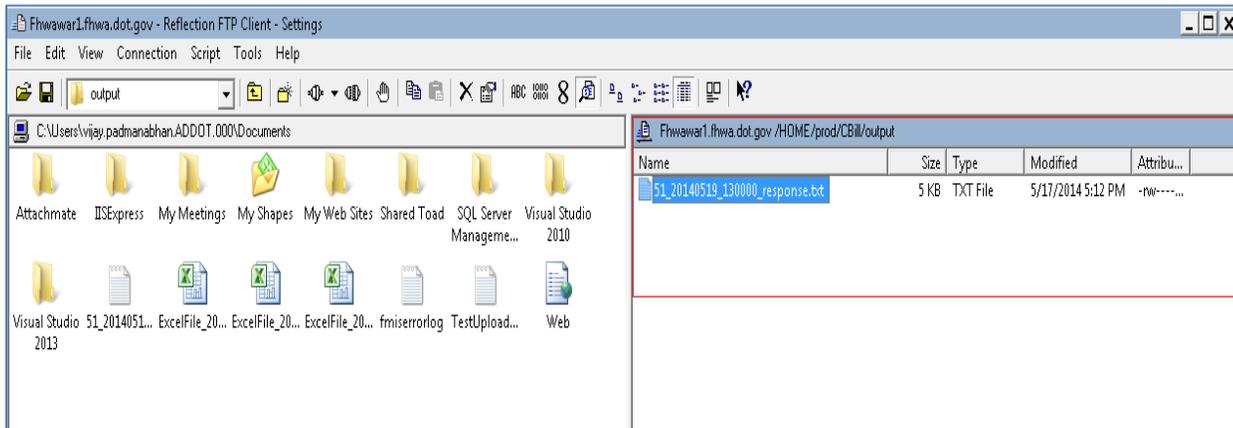
RecipID: Numeric ID for the Recipient

[yyyymmdd]_[hhmmss]: File creation date & time in year, month, day, hour, minutes, and seconds. Hours should be in military format, e.g. 11:00pm = 230000.

The file example used in this document is 51_20140519_130000.txt



- 3) The FMIS5 Production Current Bill process will pick up this file and will process it in FMIS5 Production environment. Once the file is picked up for processing, the file will be renamed with an “.done” extension. Once the processing is completed, the response file for the upload process will be placed in the output folder. The file name will be the same as the uploaded file with the word “_response” added to the end of the file name. e.g., 51_20140519_130000_response.txt. You can navigate to the **output** folder under prod\CBill to retrieve the response file.



Appendix D – FMIS 4 – FMIS 5 Crosswalk

Tag	FMIS 5 (new FMIS) XML Download Element	EDS Download Record Type	FMIS 4 (old FMIS) Element Name	Position	Comments
<Project>	<RecipientId/>	A	State Code	1-2	
<Project>	<FederalProjectNumber/>	A	Project Number	3-9	
<RecipientProjectNumbers/>	<RecipientProjectNumber/>	F	State Project Number 1 through 18	14-247	
<Project>	<ProjectType/>	A	Project Type	35	
<Project>	<ProjectStatus/>	A	Project Status	244-245	
<Project>	<ProjectAction/>	NA	NA	NA	This item exists in FMIS-4, but is not included in the FMIS-4 EDS download.
<Project>	<LastActionDate/>	A	LastActionDate	236-243	
<Project>	<DUNS/>	C	DUNS#	231-239	
<Project>	<ProjectTitle/>	A	ProjectDescription	106-235	The FMIS 5 Project Title is the same thing as the FMIS 4 Project Description. FMIS 5 has an element called Project Description, but it is 2000 characters long, so it is not the brief, one-sentence description that

Tag	FMIS 5 (new FMIS) XML Download Element	EDS Download Record Type	FMIS 4 (old FMIS) Element Name	Position	Comments
					FMIS 4 had.
<Project>	<ProjectDescription/>	NA	NA	NA	New in FMIS 5. 2,000 character text description of the project.
<Project>	<CompleteDate/>	A	ProjectCompletedDate	54-61	
<Project>	<FinalVoucherDate/>	C	FinalVoucherPaidDate	175-182	
<Project>	<LatestPaymentDate/>	NA	NA	NA	This item exists in FMIS-4, but is not included in the FMIS-4 EDS download.
<Project>		A	Estimated Construction Date	48-53	Will be a recipient defined field in FMIS 5. Future versions of the State Guidance XML will not show this tag.
<Project>	<AuthPEDate/>	C	Division PE Date	183-190	
<Project>	<AuthROWDate/>	C	Division ROW Date	191-198	
<Project>	<AuthConstDate/>	C	Division Construction Date	199-206	
<Project>	<AuthSPRDate/>	C	Division SPR Date	207-214	
<Project>	<AuthOtherDate/>	C	Division Other Date	215-222	
<Project>	<ProjectOversight/>	A	Project Oversight	62	
<Project>	<STIPReference/>	A	STIP Reference	86-105	
<Project>	<IsEREligible/>	N	ER Eligible	14	
<Project>	<DisasterFY/>	A	Disaster Fiscal Year	65-68	

Tag	FMIS 5 (new FMIS) XML Download Element	EDS Download Record Type	FMIS 4 (old FMIS) Element Name	Position	Comments
<Project>	<DisasterSeq/>	A	Disaster Sequence Number	69-70	
<Project>	<ERCode/>	N	ER Code	15-22	
<Project>	<RecipientRemarks/>	D	State Remarks	14-213	
<Project>	<DivisionRemarks/>	E	Division Remarks	14-213	
<Project>	<NoStateSigReason/>	NA	NA	NA	New in FMIS 5.
<Project>	<SingleSignatureJust/>	NA	NA	NA	This item exists in FMIS-4, but is not included in the FMIS-4 EDS download.
<Project>	<RecCertifierSignature />	B	State Certified Signature	38-62	
<Project>	<RecCertifierSigDate />	B	State Certified Date	14-21	
<Project>	<RecRecommenderSignature />	B	State Recommended Signature	63-87	
<Project>	<RecRecommenderSigDate />	B	State Recommended Date	22-29	
<Project>	<RecApproverSignature />	B	State Authorized Signature	88-112	
<Project>	<RecApproverSigDate />	B	State Authorized Date	30-37	
<Project>	<DivReviewerSignature/>	B	Division Review Signature	137-161	
<Project>	<DivReviewerSigDate/>	B	Division Review Date	113-120	
<Project>	<DivRecommenderSignature/>	B	Division Recommended Signature	162-186	

Tag	FMIS 5 (new FMIS) XML Download Element	EDS Download Record Type	FMIS 4 (old FMIS) Element Name	Position	Comments
<Project>	<DivRecommenderSigDate/>	B	Division Recommended Date	121-128	
<Project>	<DivApproverSignature/>	B	Division Authorized Signature	187-211	
<Project>	<DivApproverSigDate/>	B	Division Authorized Date	129-136	
<Project>	<ModificationCount/>	B	Modification Number	224-226	
<Project>	<CreatedBy/>	NA	NA	NA	This item exists in FMIS-4, but is not included in the download.
<Project>	<CreatedOn/>	NA	NA	NA	This item exists in FMIS-4, but is not included in the download.
<Project>	<TransactionDate/>	B	Transaction Date	212 219	
<Project>	<TransactionNumber/>	B	Transaction Sequence Number	220-223	
<ProjectGroup>	<GroupCategory/>	D	Proj Group Type 1 through 2		In FMIS 4 a one-character code is downloaded. In FMIS 5, the name of the project group category is downloaded, and will have a value of either "Major", Pooled Fund or "Other".
<ProjectGroup>	<GroupCode/>	D	Proj Group Code		

Tag	FMIS 5 (new FMIS) XML Download Element	EDS Download Record Type	FMIS 4 (old FMIS) Element Name	Position	Comments
<ProjectGroup>	<GroupName/>	D	Proj Group Code 1 through 2		In FMIS 4, a 13- character ID code is downloaded. In FMIS 5, the project group name is downloaded. Examples include "Woodrow Wilson Bridge" or "Central Artery Tunnel" .
<RelatedProjects>	<RelatedProject>	G	Related Projects 1 - 15	14-223	
<RelatedProject>	<RecipientId/>	G	Related State Code 1 - 15		
<RelatedProject>	<FederalProjectNumber />	G	Related Project Number 1 - 15		In cases where the 7-character federal project number is not unique within a State, project number will be appended with a hyphen and a 2 digit suffix. Example: ppppppp-01 This requirement is subject to a future change. Please see the reference to

Tag	FMIS 5 (new FMIS) XML Download Element	EDS Download Record Type	FMIS 4 (old FMIS) Element Name	Position	Comments
					'Suffix' in Appendix F.
<RelatedProject>	<RelationshipType/>	G	Project Relationship 1 - 15		Relationship between the project and the to-be related project
<RelatedProject>	<ReverseRelationshipType/>				Relationship between the to-be related project and the project
<UserDefinedFields>	<UserDefinedField>	C	State Defined Project Data Field 1-6 OR Division Defined Project Data Field 1-4	14-109(State) OR 110-174(Division)	FieldType determines if an item is Recipient or Division defined.
<Project> <UserDefinedField>	<FieldName />	NA	NA	NA	The name of a State or Division Defined field. This item is not part of the FMIS 4 download.
<Project> <UserDefinedField>	<FieldType />	NA	NA	NA	Will have a value of "Recipient" for a Recipient Defined field, and a value of "Division" for a Division Defined field. FMIS 5 needs this element because both State and Division items are

Tag	FMIS 5 (new FMIS) XML Download Element	EDS Download Record Type	FMIS 4 (old FMIS) Element Name	Position	Comments
					combined under <UserDefinedFields>. FMIS 4 does not carry this element, because State and Division defined values are carried under separate names in the file layout.
<Project> <UserDefinedField>	<ValueText />	C	State Defined Project Data Field 1 through 3 OR Division Defined Project Data Field 1 and 2	14-73(State) OR 110- 149(Division)	Field type indicates if the field is Division or State Defined. If the user defined field is text, then this item will contain a value, and the <ValueNumber /> and <ValueDate /> tags will be empty
<Project> <UserDefinedField>	<ValueNumber />	C	State Defined Project Data Field 4 through 6 OR Division Defined Project Data Field 3 and 4	74-109 (State) OR 150- 160(Division)	Field type indicates if the field is Division or State Defined. If the user defined field is numeric, then this item will contain a number, and the

Tag	FMIS 5 (new FMIS) XML Download Element	EDS Download Record Type	FMIS 4 (old FMIS) Element Name	Position	Comments
					<ValueText /> and <ValueDate /> tags will be empty
<Project> <UserDefinedField>	<ValueDate />	C	State Defined Project Data Field 1 through 6 OR Division Defined Project Data Field 1 through 4	14-109(State) OR 110- 174(Division)	Field type indicates if the field is Division or State Defined. If the user defined field is a date, then this item will contain a date, and the <ValueText /> and <ValueNumber /> tags will be empty. FMIS 4 did not have a "date" data type for user defined fields, therefore any existing dates may have been stored either as "Numeric" or " Alpha/Numeric" values.
<Project> <UserDefinedField>	<ValueBoolean />				Field type indicates if the field is Division or State Defined. If the user defined field is a boolean,

Tag	FMIS 5 (new FMIS) XML Download Element	EDS Download Record Type	FMIS 4 (old FMIS) Element Name	Position	Comments
					then this item will contain a Y or N, and the <ValueText /> , <ValueNumber /> and <ValueDate> tags will be empty.
<LegacyBridgeInfo>	<Bridge>	H	NBI Structure Data 1 - 11	14-244	Note that a project that contains data within <LegacyBridgeInfo > will not have any bridge data embedded on the detail lines.
<Bridge>	<NBINumber/>	H	NBI Number 1 - 11		
<Bridge>	<ProgramCode/>	H	Program Code 1 - 11		
<Bridge>	<ImprovementType/>	H	Improvement Type 1 - 11		
<Detail>	<LineNumber/>	I	Detail Number	18-19	
<Detail>	<ProgramCode/>	I	Program Code	14-17	
<Detail>	<ImprovementType/>	I	Improvement Type	25-26	
<Detail>	<DetailStatus/>	I	Active or Withdrawn		
<Detail>	<DemoId/>	I	Demonstration Project Identification	200-204	
<Detail>	<WithdrawalArea/>	I	Withdrawal Area	55-57	
<Detail>	<Prefix/>	I	Prefix	58-67	

Tag	FMIS 5 (new FMIS) XML Download Element	EDS Download Record Type	FMIS 4 (old FMIS) Element Name	Position	Comments
<Detail>	<LastActionDate/>	I	Last Action Date	188-195	
<Detail>	<ACConvAmount/>	I	Converted Funds	133-145	
<Detail>	<SoftMatchAmount/>	I	Soft Match Amount	162-174	
<Detail>	<PctFederalShare/>	I	Percent of Federal Share	20-24	
<Detail>	<IsToll/>	I	Toll Road	33	
<Detail>	<IsSafety/>	I	100% Safety	34	
<Detail>	<IsTempMatch/>	I	Temporary Match	35	
<Detail>	<IsIndianReserv/>	I	Indian Reservation	36	
<Detail>	<IsAppalachia/>	I	Appalachia	207	
<Detail>	<IsConstruction/>	I	Type of Work	159	FMIS 4 carries a "C" in this item to indicate construction. FMIS 5 will carry "Y" to indicate construction, otherwise "N"
<Detail>	<IsDesignBuild/>	I	Design Build	198	
<Detail>	<IsCMGC/>	I	CMGC	205	
<Detail>	<IsOtherSep14/>	I	Other-SEP-14	206	
<Detail>	<IsHwysForLife/>	I	Hwys for Life	199	
<Detail>		I	FHWA Area	160-161	Will be a Division defined field in FMIS 5. Future versions of the State Guidance XML will not show this tag.
<Detail>	<NoGisReason/>	NA	NA	NA	New in FMIS 5

Tag	FMIS 5 (new FMIS) XML Download Element	EDS Download Record Type	FMIS 4 (old FMIS) Element Name	Position	Comments
<Detail>	<Locations>				In FMIS 5, a single detail line can have multiple locations. This in turn means that a single detail line can have multiple values for county, functional system, federal funds, and all data items that fall within a location.
<Locations> <NonGIS>	<StateId/>	NA	NA	NA	New in FMIS 5
<Locations> <NonGIS>	<CongDistId/>	K	Congressional District 1-20	20-119	
<Locations> <NonGIS>	<CountyId/>	I	County Code	27-29	
<Locations> <NonGIS>	<UrbanId/>	I	Urbanized Area	52-54	
<Locations> <NonGIS>	<UrbanOrRural />	I	Rural or Urban	30	
<Locations> <NonGIS>	<FunctionalSystem/>	I	Functional System	31	
<Locations> <NonGIS>	<SystemCode/>	I	Federal Aid System	32	
<Locations> <NonGIS>	<GeneralOwnership/>	I	Ownership	208	
<Locations> <NonGIS>	<StructureNumber/>				Note that a project that contains <StructureNumber /> within a project detail line will never have data within <LegacyBridgeInfo

Tag	FMIS 5 (new FMIS) XML Download Element	EDS Download Record Type	FMIS 4 (old FMIS) Element Name	Position	Comments
					>.
<Locations> <NonGIS>	<PercentFunds/>	NA	NA	NA	
<Locations> <NonGIS>	<ACFunds/>	I	Advance Construction Funds	146-158	
<Locations> <NonGIS>	<FederalFunds/>	I	Federal Funds Amount	39-51	
<Locations> <NonGIS>	<StateFunds/>	I	State Funds Amount	68-80	
<Locations> <NonGIS>	<LocalFunds/>	I	Local Funds Amount	120-132	
<Locations> <NonGIS>	<PrivateFunds/>	I	Private Funds Amount	81-93	
<Locations> <NonGIS>	<NonMonetaryFunds />	I	Non-Monetary Amount	107-119	
<Locations> <NonGIS>	<OtherFunds/>	I	Other Funds	175-187	
<Locations> <NonGIS>	<TotalCost/>	I	Total Cost Amount	94-106	
<Locations> <GIS>	<StateId/>	NA	NA	NA	New in FMIS 5
<Locations> <GIS>	<RouteId/>	NA	NA	NA	New in FMIS 5
<Locations> <GIS>	<BeginPoint/>	NA	NA	NA	New in FMIS 5
<Locations> <GIS>	<EndPoint/>	NA	NA	NA	New in FMIS 5
<Locations> <GIS>	<StructureNumber/>				Note that a project that contains <StructureNumber /> within a project detail line will never have data within <LegacyBridgeInfo >.
<Locations> <GIS>	<PercentFunds/>	NA	NA	NA	New in FMIS 5

Tag	FMIS 5 (new FMIS) XML Download Element	EDS Download Record Type	FMIS 4 (old FMIS) Element Name	Position	Comments
<Locations> <GIS>	<ACFunds/>	I	Advance Construction Funds	146-158	
<Locations> <GIS>	<FederalFunds/>	I	Federal Funds Amount	39-51	
<Locations> <GIS>	<StateFunds/>	I	State Funds Amount	68-80	
<Locations> <GIS>	<LocalFunds/>	I	Local Funds Amount	120-132	
<Locations> <GIS>	<PrivateFunds/>	I	Private Funds Amount	81-93	
<Locations> <GIS>	<NonMonetaryFunds />	I	Non-Monetary Amount	107-119	
<Locations> <GIS>	<OtherFunds/>	I	Other Funds	175-187	
<Locations> <GIS>	<TotalCost>	I	Total Cost Amount	94-106	
<GIS> <GISBreakdown>	<CongDistId/>	K	Congressional District 1-20	20-119	
<GIS> <GISBreakdown>	<CountyId/>	I	County Code	27-29	
<GIS> <GISBreakdown>	<UrbanId/>	I	Urbanized Area	52-54	
<GIS> <GISBreakdown>	<UrbanOrRural />	I	Rural or Urban	30	
<GIS> <GISBreakdown>	<FunctionalSystem/>	I	Functional System	31	
<GIS> <GISBreakdown>	<SystemCode/>	I	Federal Aid System	32	
<GIS> <GISBreakdown>	<GeneralOwnership/>	I	Ownership	208	
<GIS> <GISBreakdown>	<ACFunds/>	I	Advance Construction Funds	146-158	
<GIS> <GISBreakdown>	<FederalFunds/>	I	Federal Funds Amount	39-51	
<GIS> <GISBreakdown>	<StateFunds/>	I	State Funds Amount	68-80	
<GIS> <GISBreakdown>	<LocalFunds/>	I	Local Funds Amount	120-132	
<GIS> <GISBreakdown>	<PrivateFunds/>	I	Private Funds	81-93	

Tag	FMIS 5 (new FMIS) XML Download Element	EDS Download Record Type	FMIS 4 (old FMIS) Element Name	Position	Comments
			Amount		
<GIS> <GISBreakdown>	<NonMonetaryFunds />	I	Non-Monetary Amount	107-119	
<GIS> <GISBreakdown>	<OtherFunds/>	I	Other Funds	175-187	
<GIS> <GISBreakdown>	<TotalCost/>				
<Detail> <UserDefinedFields>	<UserDefinedField>	J	State Defined Detail Data Field 1- 6 OR Division Defined Project Data Field 1-4	20-115 (State) OR 116-180 (Division)	FieldType determines if an item is Recipient or Division defined.
<Detail> <UserDefinedFields>	<FieldName />	NA	NA	NA	The name of a State or Division Defined field. This item is not part of the FMIS 4 download.
<Detail> <UserDefinedFields>	<FieldType />	NA	NA	NA	Will have a value of "Recipient" for a Recipient Defined field, and a value of "Division" for a Division Defined field. FMIS 5 needs this element because both State and Division items are combined under <UserDefinedField s>. FMIS 4 does not carry this element, because

Tag	FMIS 5 (new FMIS) XML Download Element	EDS Download Record Type	FMIS 4 (old FMIS) Element Name	Position	Comments
					State and Division defined values are carried under separate names in the file layout.
<Detail> <UserDefinedFields>	<ValueText />	J	State Defined Detail Data Field 1 through 3 OR Division Defined Detail Data Field 1 and 2	20-79 (State) OR 116-155 (Division)	Field type indicates if the field is Division or State Defined. If the user defined field is text, then this item will contain a value, and the <ValueNumber /> and <ValueDate /> tags will be empty.
<Detail> <UserDefinedFields>	<ValueNumber />	J	State Defined Project Data Field 4 through 6 OR Division Defined Detail Data Field 3 and 4	80-115 (State) OR 156-180 (Division)	Field type indicates if the field is Division or State Defined. If the user defined field is numeric, then this item will contain a number, and the <ValueText /> and <ValueDate /> tags will be empty
<Detail> <UserDefinedFields>	<ValueDate />	J	State Defined Project Data Field	20-115 (State) OR	Field type indicates if the

Tag	FMIS 5 (new FMIS) XML Download Element	EDS Download Record Type	FMIS 4 (old FMIS) Element Name	Position	Comments
			1 through 6 OR Division Defined Data Data Field 1 through 4	116-180 (Division)	field is Division or State Defined. If the user defined field is a date, then this item will contain a date, and the <ValueText /> and <ValueNumber /> tags will be empty. FMIS 4 did not have a "date" data type for user defined fields, therefore any existing dates may have been stored either as "Numeric" or " Alpha/Numeric" values.
<Detail> <UserDefinedFields>	<ValueBoolean />				Field type indicates if the field is Division or State Defined. If the user defined field is a boolean, then this item will contain a Y or N, and the <ValueText /> , <ValueNumber /> and <ValueDate>

Tag	FMIS 5 (new FMIS) XML Download Element	EDS Download Record Type	FMIS 4 (old FMIS) Element Name	Position	Comments
					tags will be empty.
<Expenditures>	<ROWRevolvingFunds/>	L	102 Expenditure 1 - 7	31-43	
<Expenditures>	<Expenditure>	L	Expenditures Data 1-7		
<Expenditure>	<ProgramCode/>	L	Program Code 1 - 7		
<Expenditure>	<DemoId/>	NA	NA	NA	Not part of the FMIS-4 download
<Expenditure>	<Amount/>	L	Expenditure Amount 1-7	14-223	



Appendix E – Download Links for Geospatial Shapes

Geospatial shape files for congressional districts, Counties and Urban Areas can be downloaded at the following census URL:
<http://www.census.gov/geo/maps-data/data/tiger-line.html>

Appendix F – Future Changes

The following changes to FMIS 5 business rules are planned but are not yet reflected in this version of the State Preparation Guide or the FMIS software. These changes will be implemented prior to FMIS 5 going live in October. Updates on the status of these and any additional changes will be posted on the FUNI website.

1. **FHWA Area** - States will be allowed to update the “FHWA Area” Division Defined field. Division defined fields other than FHWA will be protected from update by the States.
2. **User Defined Fields** - The number of State and Division defined fields will be increased as follows:
 - Max Division defined fields on the header: 15 (can be any combination of number, date, Boolean or text)
 - Max State defined fields on the header: 15 (can be any combination of number, date, Boolean or text)
 - Max Division defined fields on the detail : 15 (can be any combination of number, date, Boolean or text)
 - Max State defined fields on the detail: 15 (can be any combination of number, date, Boolean or text)
3. **Subsidiary Training** - Allow Improvement Types 49 and 55 on project detail lines that reference “subsidiary training” program codes.
4. **Optional NBI Number** - NBI will be allowed but not required on “New Bridge” and selected non-Bridge improvement types.
5. **Federal Funds Change** –
 - Only an increase in federal funds should require geospatial data to be added to a detail line that does not already have it. The current requirements say that geospatial data will be required if any funding amount is changed in any way.
 - In addition, location related data such as congressional district, Functional System, etc, will be reassessed by FMIS only if federal funds are increased on a detail line. An increase or decrease in fund amounts other than federal funds, or a decrease in federal funds would not trigger a reassessment of location data.
6. **Urbanized Area** - The rules for urbanized area will change so that it is always user supplied and is never derived from geospatial data. This change is necessary to allow urban attributable funds to be used anywhere within a Metropolitan Planning Area.
7. **Expired Program** – The rule which indicates that a new detail line cannot reference an expired program code is incorrect and will be removed. There is no restriction on the use of expired program codes to obligate funds

8. **Federal Project Number** – The definition of Federal Project Number will be changed so that the project number never is appended with a suffix, and is always seven characters long without exception.
 - **Upload** - The current FMIS 5 rules say that States may append project suffix to the project number, separated by a hyphen (ppppppp-sss). The suffix will no longer be allowed in Federal Project project number when uploading.
 - **Download** - The current FMIS 5 rules say that if a project has a suffix, it will be appended to project number separated by a hyphen (ppppppp-sss). Suffix will no longer be appended to project number under any circumstances.
9. **Disaster Sequence** Disaster sequence will be limited to two digits, with a maximum value of 99. The current FMIS 5 rules say that Disaster Sequence can have three digits with a maximum value of 255.
10. **Project Status** - Project Status codes will be changed back to the codes from FMIS 4, so that they have values that are familiar to users. Note that "Rejected by Division", which is new in FMIS 5, will be added to the list below, and will be assigned a value which does not conflict with the other status codes.

FMIS 4 Project Status Codes

1	State Certification Signature needed
2	Unsigned, State Certification Signature needed
3	State Recommendation Signature needed
4	State Authorization Signature needed
5	State Modification Signature needed
6	Division Review Signature needed
7	Division Recommendation Signature needed
8	Division Authorization Signature needed
10	Active
11	Closed
12	Closed Pending Expenditures
13	Withdrawn
14	Withdrawn Pending Expenditures
15	Reopened

11. **Northern Mariana** – The code for Northern Mariana will be reverted to “75” which is the value that it had in FMIS 4. This change will assure continuity for projects, allocations, and apportionments etc. which already reference a value of “75”.