

CECW-CE

DEPARTMENT OF THE ARMY
U.S. Army Corps of Engineers
Washington, D.C. 20314-1000

EM 1110-2-1304
Amendment #9

Manual
No. 1110-2-1304

30 September 2016


Engineering and Design

CIVIL WORKS CONSTRUCTION COST INDEX SYSTEM (CWCCIS)

1. The appendix to Engineer Manual (EM) 1110-2-1304, Civil Works Construction Cost Index System (CWCCIS), provides technical instructions based upon tables and examples that are updated, each year in March and September, with the most current data available to develop historical and forecasted cost indexes for use in escalating United States Army Corps of Engineers civil works project costs.
2. Amendment #9 to EM 1110-2-1304, dated 31 May 2012, updates tables and examples in Appendix A to indices that are current as of 30 September 2016.
3. Office Memorandum 25-1-51, paragraph 15.d., delegates approval authority for amendments to appendices of publications (regulation, manual, or pamphlet--signed by the HQUSACE Chief of Staff) that contain engineer/technical instructions, which on occasion require amendments, to division chiefs of the originating offices.
4. The proponent for this Engineer Manual is Raymond Lynn, CECW-CE, (202) 761-5887; points of contact for the appendix are Kim Callan, CENWW-EC-X, (509) 527-7511, and John P. Skarbek, CENWW-EC-X, (509) 527-7514.

FOR THE COMMANDER:

Appendix A
Instructions for Adjusting Costs
Using Table


PAUL E. OWEN
COL, EN
Chief of Staff

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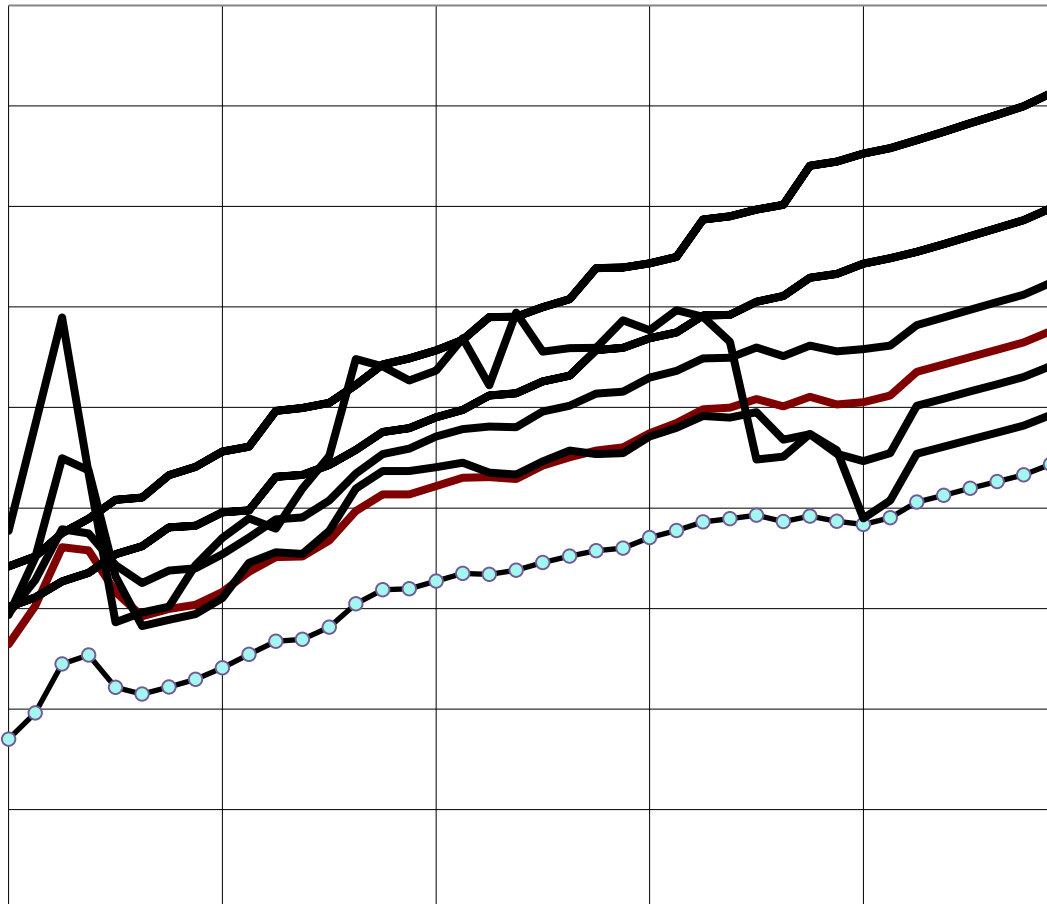


US Army Corps
of Engineers®

EM 1110-2-1304
31 March 2012

Amendment #9
Tables Revised as of 30 September 2016

Civil Works Construction Cost Index System (CWCCIS)



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EM 1110-2-1304

Manual
No. 1110-2-1304

31 March 2012

Engineering and Design
CIVIL WORKS CONSTRUCTION COST
INDEX SYSTEM (CWCCIS)

1. Purpose. This engineer manual (EM) is to provide historical and forecasted cost indexes for use in escalating United States Army Corps of Engineers (USACE) civil works project costs.
2. Applicability. This EM applies to all USACE commands having civil works design cost responsibilities.
3. Distribution Statement. Approved for public release, distribution is unlimited.
4. References.
 - a. ER 1105-2-100, Guidance for Conducting Civil Works Planning Studies.
 - b. ER 1110-2-1302, Civil Works Cost Engineering.
 - c. EP 1110-1-8, Construction Ownership and Operating Expense Schedule.
 - d. Corps of Engineers Civil Works Direct Program – Program Development Guidance for applicable fiscal year.
5. Availability. The complete text with updated cost index tables is available at the official HQUSACE documents webpage at www.usace.army.mil. Select "Library" and then select "Publications." The document is provided in Portable Document Format (PDF).
6. Policy. Engineer Regulations, specifically ER 1110-2-1302 and ER 1105-2-100, require this EM be used to update unit prices and other various project costs to current or forecasted price levels. Before using cost indexes to update project costs, check to ensure there have been no changes in the project design, schedule, and USACE policy. The recommended procedure is to re-estimate project costs using current labor, equipment, and material rates at least every two years and use indexed values to escalate for inflation during the interim. Using index values to update project costs more than two consecutive years is not recommended.

This Engineer Manual supersedes EM 1110-2-1304, dated 31 March 2000.

7. Use. The indexes presented in this manual are specifically designed for Civil Works construction, and are specific for each of the major Civil Works features. Only indexes for construction costs have been developed. The indexes are used to escalate or inflate various project cost features to current or future price levels. There are state adjustment factors included in this manual that allow a project estimated in one state to be adjusted to a project in another state.

8. Basis. A cost index is a ratio between composite costs at one period of time compared to the same composite cost at the base year. The index number thus indicates the change in cost between the base year and the later date. The base year for this manual is 1967; this year is the same base reference point used by several of the index sources.

9. Escalation of Project Costs. For programming and budget preparation purposes, project costs are escalated for inflation. Indexes used to escalate costs from the past to the present are developed from actual historic data. Indexes for future escalation are developed using the “Updating Factors” in Table 1, of the EC, Corps of Engineers Civil Works Direct Program – Program Development Guidance which are based on the current annual Office of Management and Budget (OMB) inflation factors.

10. Index Tables and Examples. An explanation of each index table and an example of how to use the indexes are included in the Appendix. The cost index tables will be updated each year in March and September.

11. Reliability. The user is cautioned that these index tables are made of historic indexes and projected indexes based on Office of Management and Budget (OMB) inflation factors. While the historic projections are reliable to update project costs, forecasting beyond two years may be unreliable.

12. Development of Cost Indexes and State Adjustment Factors.

a. Historical Basis. The basis for the development of these indexes was derived from over 80 detail government estimates. These estimates were used in developing the weighted relationship of labor, equipment, and material costs for various types of projects. This weighted relationship was used to develop a composite index for the various projects.

b. Civil Work Breakdown Structure (CWBS) Feature Code. The CWBS Feature Code can be found in ER 1110-2-1302. Civil Works cost estimates are summarized by the feature code levels listed in this and supporting documents. The feature code indexes listed in this manual were developed using the weighted relative costs taken from the 80 cost estimates. However, Feature 12, Navigation Ports & Harbors, was prepared using a weighted composite of: marine equipment cost, diesel fuel cost,

operating labor cost, and Facilities Capital Cost of Money only and did not use historical cost estimates.

13. Sources Used for Cost Indexes and State Adjustment Factors.

a. Sources Used to Develop Indexes. In developing the cost indexes, data for actual labor, equipment, and materials, are obtained from several sources. The data that makes up the indexes come from the following sources.

b. OMB Updating Factors. The yearly and quarterly projected cost indexes are forecasted several years into the future based on the updating factors provided by OMB. They are published each year in Table 1 of EC, Corps of Engineers Civil Works Direct Program – Program Development Guidance.

c. Producer Price Indexes (PPI). These historic indexes are the basis of the equipment and material resource portion of the cost indexes. The Bureau of Labor Statistics (BLS) prepares these indexes.

d. RS Means, Labor Rates for the Construction Industry and Building Construction Cost Data. The construction labor rate portion of the cost indexes is based on the “Average Historical Labor Rates for 30 Major Cities” for building construction trades wage rates. This data is published annually by R.S. Means Company.

e. Engineering News Record (ENR), Quarterly Cost Reports. The “20-City: Construction Cost Index” (CCI) is used to calculate the combined dredging index and “20-City: Builders Construction Index” (BCI) is used to calculate the cost indexes. The indexes are published quarterly by ENR magazine.

f. Bureau of Reclamation Construction Cost Trends. The “turbines and generators” index in this publication is used in the calculation of the cost indexes for Feature Code 07, Power Plants. This index is published quarterly by the Bureau of Reclamation.

g. EP 1110-1-8, Construction Equipment Ownership and Operating Expense Schedule. The equipment costs from this publication are used to develop the equipment element part of the state adjustment factors. The U.S. Army Corps of Engineers publishes this pamphlet every two years.

h. RS Means, Heavy Construction Cost Data. The “City Cost Index” installation labor index and materials index are used for the labor and materials portion of the cost indexes. This data is published annually by R.S. Means Company.

i. Cost of Money Rate (CMR). The CMR is used to develop the interest rate in the calculation of the cost indexes for Feature Code 12, Navigation Ports & Harbors. The

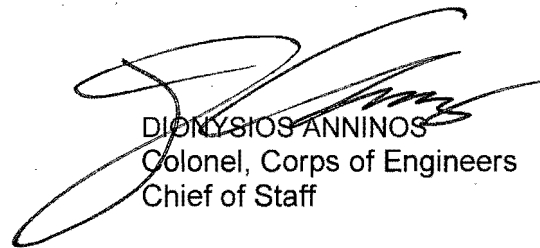
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31 Mar 12

Department of the Treasury adjusts the CMR (Prompt Payment Interest Rate) on or about 1 January and 1 July each year; these revisions are printed in the Federal Register.

14. Assistance. If assistance is required in understanding the methodology, or in obtaining updates of the cost index tables, contact the Chief, Cost Engineering Branch, CENWW-EC-X, U.S. Army Corps of Engineers, Walla Walla District, (509) 527-7510.

FOR THE COMMANDER:

Appendix A
Instructions for Adjusting
Costs Using Tables



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Colonel, Corps of Engineers
Chief of Staff

APPENDIX A

Instructions for Adjusting Costs Using Tables

A-1. Table Assumptions. Tables A-1 and Table A-2 are prepared by fiscal year (beginning 2 October, ending 30 September/1 October) with the indexes based on the first day of each quarter. These tables provide an acceptable means of updating existing project costs. For computation purposes, CWCCIS uses 1967 as the base year with an assigned value of 100.00.

a. TABLE A-1, Quarterly Cost Indexes by CWBS Feature Code. Table A-1 displays indexes on a quarterly basis for more exact short-term and long-term escalation. Table A-1 will be updated twice each year. See Figure A-1, How to Update/Escalate by Quarterly Indexes.

b. TABLE A-2, Yearly Cost Indexes by CWBS Feature Code. Table A-2 displays indexes on a yearly basis for long-term forecasting. These indexes are developed by averaging quarterly indexes for each year. Table A-2 will be updated twice each year. See Figure A-2, How to Update/Escalate by Yearly Indexes.

c. TABLE A-3, State Adjustment Factors. Table A-3 is prepared on a state-by-state basis. The state areas cost factors are developed from a representative breakdown of labor, materials and equipment. Table A-3 is used to compare or adjust a project cost prepared for a project in one state to a project located in another state. Note that Alaska and Hawaii are not considered in the national average. This table will be updated annually. See Figure A-3, How to Adjust Costs by Using State Adjustment Factors.

d. TABLE A-4, Historical State Adjustment Factors. Table A-4 is historical data. This table is used for information only and displays the last 10 years of state adjustment factors.

A-2. How to Update a Project Cost. Indexes used in any calculation must be from the same table and CWBS Feature Code. Before using a state adjustment factor, update the project costs to the price level of the project cost. The following figures illustrate the use of each of the tables.

A-3. Engineering/Technical Instruction Updates and Approval. The tables and examples in this appendix are updated as follows: updates to Table A-1, Table A-2, Figure A-1, and Figure A-2 occur in March and September; updates to Table A-3, Table A-4, and Figure A-3 occur in March. This amendment is approved by the Chief of the Engineering and Construction Division.

**EXAMPLE COMPUTATION
USING TABLE A-1,
Quarterly Cost Indexes by CWBS Feature Code**

The following formula is used for the purpose of updating/escalating an existing project cost.

Cost Index: Quarter A
----- X Cost in Quarter B (Known) = Cost in Quarter A (Unknown)
Cost Index: Quarter B

Cost Index A is the cost index for the Quarter the project costs are updated to.
Cost Index B is the cost index for the Quarter the project costs are updated from.

Note: Both cost indexes must be from the same Table and Feature Code.

EXAMPLE - Assume the following:

You have a project cost of \$500,000
Date of the project cost is 1 Nov 2013 (1st QTR FY14)
Feature Code is 04, Dams - Cost Index is **789.65**

You want to escalate the project cost to 1 Mar 2016 (2nd QTR FY16)
Feature Code is 04, Dams - Cost Index is **812.80**

FY16 QTR 2: **812.80**
(Feature Code 04)

----- X \$500,000 (1st QTR FY14) = Cost in 2nd QTR FY16

FY14 QTR 1: **789.65**
(Feature Code 04)

$$1.029 \quad X \quad \$500,000 \quad = \quad \$514,500$$

Figure A-1. How to Update/Escalate by Quarterly Cost Indexes

**EXAMPLE COMPUTATION
USING TABLE A-2,
Yearly Cost Indexes by CWBS Feature Code**

The following formula is used for the purpose of updating/escalating an existing project cost.

$$\frac{\text{Cost Index: Year A}}{\text{Cost Index: Year B}} \times \text{Cost in Year B (Known)} = \text{Cost in Year A (Unknown)}$$

Cost Index A is the cost index for the Year the project costs are updated to.
Cost Index B is the cost index for the Year the project costs are updated from.

Note: Both cost indexes must be from the same Table and Feature Code.

EXAMPLE - Assume the following:

You have a project cost of \$500,000
Date of the project cost is 1 Oct 2011 (FY12)
Feature Code is 04, Dams - Cost Index is **762.98**

You want to escalate the project cost to 1 Oct 2016 (FY17)
Feature Code is 04, Dams - Cost Index is **836.22**

$$\frac{\text{FY17: } \mathbf{836.22} \text{ (Feature Code 04)}}{\text{FY12: } \mathbf{762.98} \text{ (Feature Code 04)}} \times \$500,000 \text{ (FY12)} = \text{Cost in FY17}$$

$$\mathbf{1.096} \quad \mathbf{X} \quad \mathbf{\$500,000} \quad \quad \quad \mathbf{= \quad \$548,000}$$

Figure A-2. How to Update/Escalate by Yearly Cost Indexes

**EXAMPLE COMPUTATION
USING TABLE A-3,
State Adjustment Factors**

The following formula is used to adjust or compare project costs from one state to another.

$$\frac{\text{State Factor for State A}}{\text{State Factor for State B}} \times \text{Cost in State B (Known)} = \text{Cost in State A (Unknown)}$$

State Factor for State A is the factor for the State where the project costs are needed.

State Factor for State B is the factor for the State where project costs were developed.

Note: First, update project costs to the desired year by using Table A-1 or A-2. Then use the state adjustment factor to change the cost to another state. In addition, use Figures A-1 or Figure A-2 for methods to compute the escalation.

EXAMPLE - Assume the following:

You have a project cost of \$500,000 developed in the State of Washington,
Dated or escalated to current FY
Location of the project: Washington State (State B)
State Adjustment Factor for Washington State is **1.05**

Location of the State for adjustment or comparison: Pennsylvania (State A)
State Factor for Pennsylvania is **1.09**

PA State: **1.09**
----- X \$500,000 (WA) = Cost in State A (Pennsylvania)
WA State: **1.05**

$$1.038 \times \$500,000 = \$519,000$$

Figure A-3. How to Adjust Costs Using State Adjustment Factors

TABLE A-1, QUARTERLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| | | 1Q80 | 2Q80 | 3Q80 | 4Q80 | 1Q81 | 2Q81 | 3Q81 | 4Q81 | |
|---|---|------|--------|--------|--------|--------|--------|--------|--------|--------|
| 02 | RELOCATIONS | 5% | 271.87 | 274.31 | 285.26 | 289.30 | 295.10 | 301.18 | 312.75 | 315.63 |
| 03 | RESERVOIRS | 5% | 274.70 | 276.51 | 293.22 | 297.80 | 300.01 | 305.39 | 325.04 | 330.69 |
| 04 | DAMS | 15% | 268.61 | 272.52 | 281.67 | 285.68 | 291.27 | 297.99 | 308.49 | 311.94 |
| 05 | LOCKS | 2% | 267.29 | 271.45 | 280.61 | 285.09 | 290.51 | 297.43 | 307.88 | 311.66 |
| 06 | FISH & WILDLIFE FACILITIES | 5% | 272.96 | 276.04 | 284.61 | 287.69 | 293.79 | 300.00 | 309.83 | 312.44 |
| 07 | POWER PLANT | 10% | 254.91 | 261.92 | 271.80 | 276.78 | 282.49 | 290.30 | 299.66 | 305.47 |
| 08 | ROADS, RAILROADS & BRIDGES | 10% | 271.87 | 274.31 | 285.26 | 289.30 | 295.10 | 301.18 | 312.75 | 315.63 |
| 09 | CHANNELS & CANALS | 3% | 265.64 | 270.82 | 281.65 | 287.98 | 293.61 | 301.38 | 313.41 | 317.89 |
| 10 | BREAKWATER & SEAWALLS | 5% | 268.87 | 275.43 | 284.94 | 291.47 | 297.87 | 307.00 | 317.48 | 322.03 |
| 11 | LEVEES & FLOODWALLS | 5% | 270.52 | 275.78 | 285.60 | 291.08 | 296.16 | 303.75 | 315.68 | 320.28 |
| 12 | NAVIGATION PORTS & HARBORS | 10% | 296.30 | 313.31 | 320.93 | 319.65 | 330.51 | 349.87 | 353.82 | 359.31 |
| 13 | PUMPING PLANT | 5% | 269.79 | 273.86 | 281.34 | 285.41 | 291.55 | 298.07 | 308.21 | 311.18 |
| 14 | RECREATION FACILITIES | 5% | 269.79 | 273.86 | 281.34 | 285.41 | 291.55 | 298.07 | 308.21 | 311.18 |
| 15 | FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 272.96 | 276.04 | 284.61 | 287.69 | 293.79 | 300.00 | 309.83 | 312.44 |
| 16 | BANK STABILIZATION | 2% | 252.82 | 257.63 | 266.45 | 273.32 | 279.15 | 286.12 | 295.88 | 299.36 |
| 17 | BEACH REPLENISHMENT | 2% | 262.51 | 266.77 | 278.85 | 284.04 | 287.68 | 293.48 | 307.19 | 311.48 |
| 18 | CULTURAL RESOURCE PRESERVATION | 2% | 269.79 | 273.86 | 281.34 | 285.41 | 291.55 | 298.07 | 308.21 | 311.18 |
| 19 | BUILDINGS, GROUNDS & UTILITIES | 5% | 269.79 | 273.86 | 281.34 | 285.41 | 291.55 | 298.07 | 308.21 | 311.18 |
| 20 | PERMANENT OPERATING EQUIPMENT | 2% | 269.79 | 273.86 | 281.34 | 285.41 | 291.55 | 298.07 | 308.21 | 311.18 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | | 100% | 270.89 | 276.33 | 285.85 | 289.76 | 295.87 | 303.91 | 314.31 | 318.24 |

Note: FY* indicates data developed based on OMB projections.

[1st QTR = 2 OCT THRU 31 DEC/ 1 JAN] [2nd QTR = 2 JAN THRU 31 MAR/ 1 APR] [3rd QTR = 2 APR THRU 30 JUN/ 1 JUL] [4th QTR = 2 JUL THRU 30 SEPT/ 1 OCT]

Amendment #9, 30 Sep 16
EM 1110-2-1304 (31 Mar 12)

TABLE A-1, QUARTERLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| | | 1Q82 | 2Q82 | 3Q82 | 4Q82 | 1Q83 | 2Q83 | 3Q83 | 4Q83 | |
|---|---|------|--------|--------|--------|--------|--------|--------|--------|--------|
| 02 | RELOCATIONS | 5% | 320.53 | 322.08 | 333.33 | 333.67 | 335.14 | 338.18 | 345.35 | 344.78 |
| 03 | RESERVOIRS | 5% | 335.73 | 336.83 | 356.25 | 357.68 | 359.13 | 360.28 | 370.01 | 370.86 |
| 04 | DAMS | 15% | 317.12 | 318.98 | 328.96 | 329.62 | 329.81 | 331.82 | 337.99 | 339.43 |
| 05 | LOCKS | 2% | 316.52 | 318.59 | 328.44 | 329.30 | 329.66 | 332.24 | 338.19 | 339.29 |
| 06 | FISH & WILDLIFE FACILITIES | 5% | 317.17 | 318.26 | 327.74 | 327.83 | 327.53 | 329.77 | 336.78 | 337.58 |
| 07 | POWER PLANT | 10% | 309.82 | 312.20 | 318.60 | 318.44 | 319.76 | 322.14 | 326.42 | 328.13 |
| 08 | ROADS, RAILROADS & BRIDGES | 10% | 320.53 | 322.08 | 333.33 | 333.67 | 335.14 | 338.18 | 345.35 | 344.78 |
| 09 | CHANNELS & CANALS | 3% | 325.51 | 328.36 | 339.24 | 340.71 | 342.10 | 343.64 | 348.71 | 349.82 |
| 10 | BREAKWATER & SEAWALLS | 5% | 329.54 | 332.77 | 341.40 | 342.84 | 344.42 | 346.28 | 350.15 | 351.06 |
| 11 | LEVEES & FLOODWALLS | 5% | 326.15 | 328.53 | 339.43 | 340.60 | 341.33 | 343.87 | 349.13 | 350.51 |
| 12 | NAVIGATION PORTS & HARBORS | 10% | 366.59 | 368.34 | 376.27 | 376.98 | 380.06 | 363.25 | 364.66 | 368.73 |
| 13 | PUMPING PLANT | 5% | 314.92 | 316.12 | 324.53 | 324.95 | 325.26 | 328.39 | 333.91 | 335.74 |
| 14 | RECREATION FACILITIES | 5% | 314.92 | 316.12 | 324.53 | 324.95 | 325.26 | 328.39 | 333.91 | 335.74 |
| 15 | FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 317.17 | 318.26 | 327.74 | 327.83 | 327.53 | 329.77 | 336.78 | 337.58 |
| 16 | BANK STABILIZATION | 2% | 305.34 | 308.27 | 318.02 | 320.08 | 321.52 | 322.52 | 327.18 | 327.81 |
| 17 | BEACH REPLENISHMENT | 2% | 317.47 | 319.47 | 334.99 | 336.48 | 338.31 | 339.12 | 345.40 | 346.48 |
| 18 | CULTURAL RESOURCE PRESERVATION | 2% | 314.92 | 316.12 | 324.53 | 324.95 | 325.26 | 328.39 | 333.91 | 335.74 |
| 19 | BUILDINGS, GROUNDS & UTILITIES | 5% | 314.92 | 316.12 | 324.53 | 324.95 | 325.26 | 328.39 | 333.91 | 335.74 |
| 20 | PERMANENT OPERATING EQUIPMENT | 2% | 314.92 | 316.12 | 324.53 | 324.95 | 325.26 | 328.39 | 333.91 | 335.74 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | | 100% | 323.45 | 325.24 | 335.09 | 335.72 | 336.75 | 337.22 | 342.77 | 344.12 |

Note: FY* indicates data developed based on OMB projection

[1st QTR = 2 OCT THRU 31 DEC/ 1 JAN] [2nd QTR = 2 JAN THRU 31 MAR/ 1 APR] [3rd QTR = 2 APR THRU 30 JUN/ 1 JUL] [4th QTR = 2 JUL THRU 30 SEPT/ 1 OCT]

TABLE A-1, QUARTERLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| | | 1Q84 | 2Q84 | 3Q84 | 4Q84 | 1Q85 | 2Q85 | 3Q85 | 4Q85 | |
|---|---|------|--------|--------|--------|--------|--------|--------|--------|--------|
| 02 | RELOCATIONS | 5% | 345.52 | 348.83 | 352.68 | 351.02 | 353.13 | 354.92 | 357.91 | 355.77 |
| 03 | RESERVOIRS | 5% | 371.61 | 372.33 | 379.08 | 378.13 | 379.31 | 381.22 | 383.57 | 383.71 |
| 04 | DAMS | 15% | 339.85 | 343.07 | 347.13 | 346.95 | 348.18 | 350.26 | 351.95 | 351.50 |
| 05 | LOCKS | 2% | 339.75 | 342.69 | 346.67 | 346.19 | 345.85 | 348.00 | 349.90 | 349.39 |
| 06 | FISH & WILDLIFE FACILITIES | 5% | 337.59 | 341.90 | 345.41 | 344.61 | 344.74 | 346.93 | 349.22 | 347.84 |
| 07 | POWER PLANT | 10% | 329.23 | 331.22 | 336.05 | 336.13 | 335.55 | 336.98 | 338.59 | 338.98 |
| 08 | ROADS, RAILROADS & BRIDGES | 10% | 345.52 | 348.83 | 352.68 | 351.02 | 353.13 | 354.92 | 357.91 | 355.77 |
| 09 | CHANNELS & CANALS | 3% | 350.85 | 352.53 | 357.12 | 357.17 | 356.12 | 357.80 | 359.39 | 359.65 |
| 10 | BREAKWATER & SEAWALLS | 5% | 351.96 | 353.84 | 357.66 | 357.81 | 360.20 | 360.88 | 362.49 | 363.08 |
| 11 | LEVEES & FLOODWALLS | 5% | 351.28 | 353.23 | 357.74 | 357.71 | 357.94 | 359.12 | 360.80 | 360.91 |
| 12 | NAVIGATION PORTS & HARBORS | 10% | 373.05 | 379.74 | 381.11 | 385.87 | 385.63 | 374.08 | 376.90 | 371.31 |
| 13 | PUMPING PLANT | 5% | 336.79 | 340.00 | 343.84 | 343.63 | 344.18 | 345.83 | 347.56 | 346.91 |
| 14 | RECREATION FACILITIES | 5% | 336.79 | 340.00 | 343.84 | 343.63 | 344.18 | 345.83 | 347.56 | 346.91 |
| 15 | FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 337.59 | 341.90 | 345.41 | 344.61 | 344.74 | 346.93 | 349.22 | 347.84 |
| 16 | BANK STABILIZATION | 2% | 329.24 | 331.83 | 336.53 | 336.61 | 339.50 | 342.69 | 344.67 | 344.96 |
| 17 | BEACH REPLENISHMENT | 2% | 347.61 | 348.80 | 354.71 | 354.44 | 356.26 | 357.84 | 360.19 | 360.68 |
| 18 | CULTURAL RESOURCE PRESERVATION | 2% | 336.79 | 340.00 | 343.84 | 343.63 | 344.18 | 345.83 | 347.56 | 346.91 |
| 19 | BUILDINGS, GROUNDS & UTILITIES | 5% | 336.79 | 340.00 | 343.84 | 343.63 | 344.18 | 345.83 | 347.56 | 346.91 |
| 20 | PERMANENT OPERATING EQUIPMENT | 2% | 336.79 | 340.00 | 343.84 | 343.63 | 344.18 | 345.83 | 347.56 | 346.91 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | | 100% | 345.25 | 348.43 | 352.39 | 352.45 | 353.23 | 353.64 | 355.73 | 354.66 |

Note: FY* indicates data developed based on OMB projection

[1st QTR = 2 OCT THRU 31 DEC/ 1 JAN] [2nd QTR = 2 JAN THRU 31 MAR/ 1 APR] [3rd QTR = 2 APR THRU 30 JUN/ 1 JUL] [4th QTR = 2 JUL THRU 30 SEPT/ 1 OCT]

Amendment #9, 30 Sep 16
EM 1110-2-1304 (31 Mar 12)

TABLE A-1, QUARTERLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| | | 1Q86 | 2Q86 | 3Q86 | 4Q86 | 1Q87 | 2Q87 | 3Q87 | 4Q87 | |
|---|---|------|--------|--------|--------|--------|--------|--------|--------|--------|
| 02 | RELOCATIONS | 5% | 355.59 | 359.01 | 359.28 | 359.55 | 361.04 | 363.87 | 368.87 | 371.50 |
| 03 | RESERVOIRS | 5% | 384.37 | 386.05 | 387.94 | 388.09 | 389.18 | 390.97 | 398.32 | 399.74 |
| 04 | DAMS | 15% | 351.32 | 353.16 | 353.43 | 353.83 | 355.05 | 356.86 | 360.95 | 363.11 |
| 05 | LOCKS | 2% | 348.48 | 350.45 | 351.03 | 351.44 | 352.56 | 354.80 | 358.68 | 361.30 |
| 06 | FISH & WILDLIFE FACILITIES | 5% | 347.27 | 349.61 | 349.34 | 349.75 | 350.28 | 352.65 | 356.54 | 359.07 |
| 07 | POWER PLANT | 10% | 339.42 | 341.68 | 342.40 | 343.89 | 344.84 | 346.64 | 350.24 | 352.88 |
| 08 | ROADS, RAILROADS & BRIDGES | 10% | 355.59 | 359.01 | 359.28 | 359.55 | 361.04 | 363.87 | 368.87 | 371.50 |
| 09 | CHANNELS & CANALS | 3% | 360.57 | 362.65 | 364.20 | 364.30 | 367.72 | 369.39 | 374.27 | 375.45 |
| 10 | BREAKWATER & SEAWALLS | 5% | 364.15 | 366.12 | 367.26 | 367.48 | 371.39 | 372.87 | 376.57 | 377.70 |
| 11 | LEVEES & FLOODWALLS | 5% | 360.26 | 362.26 | 363.58 | 363.91 | 366.29 | 368.16 | 372.27 | 374.39 |
| 12 | NAVIGATION PORTS & HARBORS | 10% | 372.96 | 368.74 | 374.47 | 365.23 | 360.11 | 354.30 | 355.95 | 366.15 |
| 13 | PUMPING PLANT | 5% | 345.43 | 347.52 | 347.92 | 348.46 | 349.49 | 351.39 | 354.69 | 357.81 |
| 14 | RECREATION FACILITIES | 5% | 345.43 | 347.52 | 347.92 | 348.46 | 349.49 | 351.39 | 354.69 | 357.81 |
| 15 | FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 347.27 | 349.61 | 349.34 | 349.75 | 350.28 | 352.65 | 356.54 | 359.07 |
| 16 | BANK STABILIZATION | 2% | 346.37 | 349.19 | 351.15 | 351.23 | 354.50 | 357.36 | 360.96 | 362.01 |
| 17 | BEACH REPLENISHMENT | 2% | 361.64 | 364.59 | 366.87 | 366.99 | 370.06 | 371.75 | 376.20 | 377.19 |
| 18 | CULTURAL RESOURCE PRESERVATION | 2% | 345.43 | 347.52 | 347.92 | 348.46 | 349.49 | 351.39 | 354.69 | 357.81 |
| 19 | BUILDINGS, GROUNDS & UTILITIES | 5% | 345.43 | 347.52 | 347.92 | 348.46 | 349.49 | 351.39 | 354.69 | 357.81 |
| 20 | PERMANENT OPERATING EQUIPMENT | 2% | 345.43 | 347.52 | 347.92 | 348.46 | 349.49 | 351.39 | 354.69 | 357.81 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | | 100% | 354.60 | 356.25 | 357.40 | 356.91 | 357.75 | 359.01 | 362.94 | 366.08 |

Note: FY* indicates data developed based on OMB projection

[1st QTR = 2 OCT THRU 31 DEC/ 1 JAN] [2nd QTR = 2 JAN THRU 31 MAR/ 1 APR] [3rd QTR = 2 APR THRU 30 JUN/ 1 JUL] [4th QTR = 2 JUL THRU 30 SEPT/ 1 OCT]

TABLE A-1, QUARTERLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| | | 1Q88 | 2Q88 | 3Q88 | 4Q88 | 1Q89 | 2Q89 | 3Q89 | 4Q89 | |
|---|---|------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 02 | RELOCATIONS | 5% | 374.44 | 379.38 | 383.85 | 384.02 | 388.26 | 393.87 | 398.10 | 398.06 |
| 03 | RESERVOIRS | 5% | 402.12 | 405.81 | 410.03 | 411.79 | 414.93 | 418.28 | 423.45 | 424.66 |
| 04 | DAMS | 15% | 366.73 | 370.67 | 374.28 | 375.60 | 380.19 | 383.99 | 387.52 | 388.29 |
| 05 | LOCKS | 2% | 365.49 | 370.09 | 373.68 | 374.96 | 378.98 | 383.12 | 385.90 | 386.53 |
| 06 | FISH & WILDLIFE FACILITIES | 5% | 362.38 | 367.09 | 370.86 | 371.49 | 374.97 | 379.49 | 382.47 | 382.81 |
| 07 | POWER PLANT | 10% | 355.43 | 359.77 | 362.57 | 365.95 | 370.58 | 375.63 | 379.26 | 380.68 |
| 08 | ROADS, RAILROADS & BRIDGES | 10% | 374.44 | 379.38 | 383.85 | 384.02 | 388.26 | 393.87 | 398.10 | 398.06 |
| 09 | CHANNELS & CANALS | 3% | 378.91 | 381.47 | 386.02 | 387.57 | 394.41 | 397.56 | 404.46 | 406.00 |
| 10 | BREAKWATER & SEAWALLS | 5% | 381.39 | 383.48 | 387.91 | 389.42 | 399.19 | 402.23 | 408.93 | 410.56 |
| 11 | LEVEES & FLOODWALLS | 5% | 378.80 | 382.73 | 386.70 | 388.36 | 394.83 | 398.49 | 402.75 | 404.00 |
| 12 | NAVIGATION PORTS & HARBORS | 10% | 366.80 | 368.08 | 366.12 | 371.23 | 374.55 | 379.56 | 381.82 | 389.13 |
| 13 | PUMPING PLANT | 5% | 362.28 | 368.41 | 372.76 | 374.35 | 378.56 | 383.86 | 385.02 | 385.11 |
| 14 | RECREATION FACILITIES | 5% | 362.28 | 368.41 | 372.76 | 374.35 | 378.56 | 383.86 | 385.02 | 385.11 |
| 15 | FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 362.38 | 367.09 | 370.86 | 371.49 | 374.97 | 379.49 | 382.47 | 382.81 |
| 16 | BANK STABILIZATION | 2% | 365.31 | 368.11 | 370.12 | 371.45 | 376.09 | 379.56 | 383.04 | 384.58 |
| 17 | BEACH REPLENISHMENT | 2% | 380.01 | 382.40 | 385.05 | 386.60 | 394.09 | 397.39 | 402.05 | 404.39 |
| 18 | CULTURAL RESOURCE PRESERVATION | 2% | 362.28 | 368.41 | 372.76 | 374.35 | 378.56 | 383.86 | 385.02 | 385.11 |
| 19 | BUILDINGS, GROUNDS & UTILITIES | 5% | 362.28 | 368.41 | 372.76 | 374.35 | 378.56 | 383.86 | 385.02 | 385.11 |
| 20 | PERMANENT OPERATING EQUIPMENT | 2% | 362.28 | 368.41 | 372.76 | 374.35 | 378.56 | 383.86 | 385.02 | 385.11 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | | 100% | 369.30 | 373.44 | 376.76 | 378.56 | 383.22 | 387.78 | 391.19 | 392.55 |

Note: FY* indicates data developed based on OMB projection

[1st QTR = 2 OCT THRU 31 DEC/1 JAN] [2nd QTR = 2 JAN THRU 31 MAR/ 1 APR] [3rd QTR = 2 APR THRU 30 JUN/ 1 JUL] [4th QTR = 2 JUL THRU 30 SEPT/ 1 OCT]

Amendment #9, 30 Sep 16
EM 1110-2-1304 (31 Mar 12)

TABLE A-1, QUARTERLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| | | 1Q90 | 2Q90 | 3Q90 | 4Q90 | 1Q91 | 2Q91 | 3Q91 | 4Q91 | |
|---|---|------|--------|--------|--------|--------|--------|--------|--------|--------|
| 02 | RELOCATIONS | 5% | 397.70 | 402.35 | 406.27 | 405.48 | 407.61 | 409.79 | 415.17 | 412.51 |
| 03 | RESERVOIRS | 5% | 426.62 | 432.72 | 440.03 | 441.87 | 443.75 | 445.96 | 448.72 | 449.90 |
| 04 | DAMS | 15% | 389.13 | 392.24 | 396.69 | 397.57 | 400.37 | 402.16 | 404.98 | 404.39 |
| 05 | LOCKS | 2% | 386.61 | 389.75 | 393.42 | 393.88 | 396.33 | 398.06 | 400.61 | 399.93 |
| 06 | FISH & WILDLIFE FACILITIES | 5% | 382.10 | 385.48 | 388.93 | 389.01 | 391.31 | 393.28 | 396.94 | 395.33 |
| 07 | POWER PLANT | 10% | 382.72 | 385.98 | 390.04 | 392.37 | 395.96 | 398.37 | 400.46 | 401.16 |
| 08 | ROADS, RAILROADS & BRIDGES | 10% | 397.70 | 402.35 | 406.27 | 405.48 | 407.61 | 409.79 | 415.17 | 412.51 |
| 09 | CHANNELS & CANALS | 3% | 408.91 | 412.18 | 419.85 | 421.37 | 423.64 | 426.24 | 429.12 | 429.87 |
| 10 | BREAKWATER & SEAWALLS | 5% | 416.23 | 418.83 | 426.15 | 427.58 | 431.75 | 434.02 | 436.95 | 437.42 |
| 11 | LEVEES & FLOODWALLS | 5% | 405.46 | 408.36 | 414.01 | 415.03 | 417.23 | 419.02 | 421.70 | 422.01 |
| 12 | NAVIGATION PORTS & HARBORS | 10% | 390.24 | 388.71 | 385.42 | 423.17 | 409.44 | 394.25 | 398.68 | 406.79 |
| 13 | PUMPING PLANT | 5% | 383.69 | 386.00 | 388.53 | 388.78 | 390.85 | 391.74 | 394.01 | 392.82 |
| 14 | RECREATION FACILITIES | 5% | 383.69 | 386.00 | 388.53 | 388.78 | 390.85 | 391.74 | 394.01 | 392.82 |
| 15 | FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 382.10 | 385.48 | 388.93 | 389.01 | 391.31 | 393.28 | 396.94 | 395.33 |
| 16 | BANK STABILIZATION | 2% | 386.68 | 391.12 | 394.94 | 396.05 | 398.72 | 402.16 | 404.24 | 405.03 |
| 17 | BEACH REPLENISHMENT | 2% | 408.11 | 411.77 | 417.43 | 418.79 | 421.46 | 424.52 | 427.62 | 429.07 |
| 18 | CULTURAL RESOURCE PRESERVATION | 2% | 383.69 | 386.00 | 388.53 | 388.78 | 390.85 | 391.74 | 394.01 | 392.82 |
| 19 | BUILDINGS, GROUNDS & UTILITIES | 5% | 383.69 | 386.00 | 388.53 | 388.78 | 390.85 | 391.74 | 394.01 | 392.82 |
| 20 | PERMANENT OPERATING EQUIPMENT | 2% | 383.69 | 386.00 | 388.53 | 388.78 | 390.85 | 391.74 | 394.01 | 392.82 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | | 100% | 393.28 | 396.19 | 399.75 | 404.15 | 405.07 | 405.25 | 408.48 | 408.68 |

Note: FY* indicates data developed based on OMB projection

[1st QTR = 2 OCT THRU 31 DEC/ 1 JAN] [2nd QTR = 2 JAN THRU 31 MAR/ 1 APR] [3rd QTR = 2 APR THRU 30 JUN/ 1 JUL] [4th QTR = 2 JUL THRU 30 SEPT/ 1 OCT]

TABLE A-1, QUARTERLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| | | 1Q92 | 2Q92 | 3Q92 | 4Q92 | 1Q93 | 2Q93 | 3Q93 | 4Q93 | |
|---|---|------|--------|--------|--------|--------|--------|--------|--------|--------|
| 02 | RELOCATIONS | 5% | 416.60 | 423.90 | 424.33 | 424.64 | 432.27 | 444.84 | 440.26 | 444.40 |
| 03 | RESERVOIRS | 5% | 452.29 | 455.74 | 459.63 | 460.86 | 463.31 | 466.47 | 468.97 | 469.52 |
| 04 | DAMS | 15% | 406.60 | 409.86 | 412.20 | 412.60 | 416.86 | 423.16 | 424.30 | 426.50 |
| 05 | LOCKS | 2% | 402.01 | 405.84 | 407.64 | 407.90 | 411.78 | 418.65 | 419.50 | 422.06 |
| 06 | FISH & WILDLIFE FACILITIES | 5% | 398.09 | 402.68 | 403.56 | 403.94 | 409.21 | 419.09 | 417.86 | 421.18 |
| 07 | POWER PLANT | 10% | 403.39 | 406.10 | 407.68 | 408.81 | 411.75 | 415.92 | 417.30 | 419.18 |
| 08 | ROADS, RAILROADS & BRIDGES | 10% | 416.60 | 423.90 | 424.33 | 424.64 | 432.27 | 444.84 | 440.26 | 444.40 |
| 09 | CHANNELS & CANALS | 3% | 432.46 | 436.45 | 440.83 | 441.51 | 444.91 | 448.13 | 451.04 | 451.92 |
| 10 | BREAKWATER & SEAWALLS | 5% | 440.32 | 444.65 | 449.52 | 450.14 | 453.92 | 457.10 | 459.86 | 459.59 |
| 11 | LEVEES & FLOODWALLS | 5% | 424.47 | 428.96 | 433.01 | 433.35 | 436.37 | 441.40 | 444.14 | 445.43 |
| 12 | NAVIGATION PORTS & HARBORS | 10% | 402.75 | 404.05 | 409.82 | 414.28 | 415.43 | 419.76 | 419.60 | 421.51 |
| 13 | PUMPING PLANT | 5% | 395.72 | 399.85 | 400.53 | 400.17 | 403.93 | 411.62 | 411.97 | 415.02 |
| 14 | RECREATION FACILITIES | 5% | 395.72 | 399.85 | 400.53 | 400.17 | 403.93 | 411.62 | 411.97 | 415.02 |
| 15 | FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 398.09 | 402.68 | 403.56 | 403.94 | 409.21 | 419.09 | 417.86 | 421.18 |
| 16 | BANK STABILIZATION | 2% | 406.86 | 411.41 | 414.73 | 415.36 | 419.18 | 423.02 | 424.66 | 427.08 |
| 17 | BEACH REPLENISHMENT | 2% | 431.08 | 437.09 | 443.07 | 443.82 | 446.08 | 450.52 | 454.06 | 454.39 |
| 18 | CULTURAL RESOURCE PRESERVATION | 2% | 395.72 | 399.85 | 400.53 | 400.17 | 403.93 | 411.62 | 411.97 | 415.02 |
| 19 | BUILDINGS, GROUNDS & UTILITIES | 5% | 395.72 | 399.85 | 400.53 | 400.17 | 403.93 | 411.62 | 411.97 | 415.02 |
| 20 | PERMANENT OPERATING EQUIPMENT | 2% | 395.72 | 399.85 | 400.53 | 400.17 | 403.93 | 411.62 | 411.97 | 415.02 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | | 100% | 410.77 | 414.89 | 417.22 | 418.01 | 422.05 | 428.85 | 429.04 | 431.40 |

Note: FY* indicates data developed based on OMB projection

[1st QTR = 2 OCT THRU 31 DEC/ 1 JAN] [2nd QTR = 2 JAN THRU 31 MAR/ 1 APR] [3rd QTR = 2 APR THRU 30 JUN/ 1 JUL] [4th QTR = 2 JUL THRU 30 SEPT/ 1 OCT]

Amendment #9, 30 Sep 16
EM 1110-2-1304 (31 Mar 12)

TABLE A-1, QUARTERLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| | | 1Q94 | 2Q94 | 3Q94 | 4Q94 | 1Q95 | 2Q95 | 3Q95 | 4Q95 | |
|---|---|------|--------|--------|--------|--------|--------|--------|--------|--------|
| 02 | RELOCATIONS | 5% | 453.13 | 453.19 | 455.09 | 455.63 | 459.16 | 463.37 | 466.65 | 466.20 |
| 03 | RESERVOIRS | 5% | 471.63 | 476.39 | 481.00 | 481.85 | 483.22 | 489.04 | 494.52 | 495.36 |
| 04 | DAMS | 15% | 430.77 | 434.22 | 437.46 | 439.04 | 443.10 | 449.75 | 453.64 | 453.85 |
| 05 | LOCKS | 2% | 426.64 | 429.83 | 432.86 | 434.57 | 438.73 | 445.29 | 449.25 | 449.32 |
| 06 | FISH & WILDLIFE FACILITIES | 5% | 427.15 | 429.69 | 432.59 | 434.12 | 438.14 | 444.64 | 447.98 | 447.96 |
| 07 | POWER PLANT | 10% | 422.20 | 424.51 | 426.70 | 429.08 | 432.79 | 437.55 | 440.85 | 442.10 |
| 08 | ROADS, RAILROADS & BRIDGES | 10% | 453.13 | 453.19 | 455.09 | 455.63 | 459.16 | 463.37 | 466.65 | 466.20 |
| 09 | CHANNELS & CANALS | 3% | 455.98 | 459.44 | 460.96 | 462.02 | 464.74 | 469.56 | 473.89 | 474.38 |
| 10 | BREAKWATER & SEAWALLS | 5% | 464.97 | 467.37 | 469.13 | 470.36 | 473.69 | 477.42 | 480.99 | 481.23 |
| 11 | LEVEES & FLOODWALLS | 5% | 449.93 | 453.36 | 455.18 | 456.83 | 460.62 | 466.66 | 471.12 | 471.24 |
| 12 | NAVIGATION PORTS & HARBORS | 10% | 416.32 | 421.58 | 422.01 | 431.00 | 429.50 | 437.84 | 436.89 | 434.34 |
| 13 | PUMPING PLANT | 5% | 421.19 | 423.94 | 426.49 | 428.02 | 433.65 | 440.00 | 442.92 | 442.30 |
| 14 | RECREATION FACILITIES | 5% | 421.19 | 423.94 | 426.49 | 428.02 | 433.65 | 440.00 | 442.92 | 442.30 |
| 15 | FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 427.15 | 429.69 | 432.59 | 434.12 | 438.14 | 444.64 | 447.98 | 447.96 |
| 16 | BANK STABILIZATION | 2% | 430.35 | 433.67 | 435.18 | 436.35 | 439.89 | 444.59 | 449.63 | 450.08 |
| 17 | BEACH REPLENISHMENT | 2% | 457.05 | 460.68 | 462.35 | 463.56 | 465.83 | 471.98 | 479.09 | 479.43 |
| 18 | CULTURAL RESOURCE PRESERVATION | 2% | 421.19 | 423.94 | 426.49 | 428.02 | 433.65 | 440.00 | 442.92 | 442.30 |
| 19 | BUILDINGS, GROUNDS & UTILITIES | 5% | 421.19 | 423.94 | 426.49 | 428.02 | 433.65 | 440.00 | 442.92 | 442.30 |
| 20 | PERMANENT OPERATING EQUIPMENT | 2% | 421.19 | 423.94 | 426.49 | 428.02 | 433.65 | 440.00 | 442.92 | 442.30 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | | 100% | 435.65 | 438.47 | 440.77 | 442.92 | 446.34 | 452.21 | 455.44 | 455.24 |

Note: FY* indicates data developed based on OMB projection

[1st QTR = 2 OCT THRU 31 DEC/1 JAN] [2nd QTR = 2 JAN THRU 31 MAR/ 1 APR] [3rd QTR = 2 APR THRU 30 JUN/ 1 JUL] [4th QTR = 2 JUL THRU 30 SEPT/ 1 OCT]

TABLE A-1, QUARTERLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| | | 1Q96 | 2Q96 | 3Q96 | 4Q96 | 1Q97 | 2Q97 | 3Q97 | 4Q97 | |
|---|---|------|--------|--------|--------|--------|--------|--------|--------|--------|
| 02 | RELOCATIONS | 5% | 466.08 | 471.21 | 477.34 | 478.46 | 481.69 | 487.33 | 488.95 | 487.00 |
| 03 | RESERVOIRS | 5% | 497.21 | 501.71 | 505.90 | 506.27 | 507.40 | 510.01 | 512.10 | 514.82 |
| 04 | DAMS | 15% | 455.02 | 458.98 | 462.87 | 463.99 | 465.98 | 470.03 | 472.01 | 473.15 |
| 05 | LOCKS | 2% | 449.94 | 453.54 | 457.63 | 458.66 | 460.32 | 464.19 | 466.28 | 467.21 |
| 06 | FISH & WILDLIFE FACILITIES | 5% | 447.80 | 452.65 | 457.78 | 459.09 | 461.23 | 466.40 | 468.57 | 468.40 |
| 07 | POWER PLANT | 10% | 441.89 | 444.43 | 446.64 | 447.38 | 447.10 | 450.74 | 453.52 | 455.29 |
| 08 | ROADS, RAILROADS & BRIDGES | 10% | 466.08 | 471.21 | 477.34 | 478.46 | 481.69 | 487.33 | 488.95 | 487.00 |
| 09 | CHANNELS & CANALS | 3% | 478.30 | 482.06 | 485.40 | 485.86 | 488.99 | 492.02 | 493.05 | 494.60 |
| 10 | BREAKWATER & SEAWALLS | 5% | 486.30 | 489.30 | 492.45 | 493.39 | 497.41 | 499.61 | 500.41 | 501.47 |
| 11 | LEVEES & FLOODWALLS | 5% | 473.49 | 476.42 | 480.07 | 480.75 | 482.63 | 485.59 | 487.37 | 489.24 |
| 12 | NAVIGATION PORTS & HARBORS | 10% | 439.35 | 449.73 | 446.82 | 469.89 | 465.98 | 463.12 | 458.42 | 465.36 |
| 13 | PUMPING PLANT | 5% | 441.66 | 444.01 | 447.85 | 448.80 | 450.05 | 454.32 | 457.23 | 458.34 |
| 14 | RECREATION FACILITIES | 5% | 441.66 | 444.01 | 447.85 | 448.80 | 450.05 | 454.32 | 457.23 | 458.34 |
| 15 | FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 447.80 | 452.65 | 457.78 | 459.09 | 461.23 | 466.40 | 468.57 | 468.40 |
| 16 | BANK STABILIZATION | 2% | 453.16 | 456.47 | 459.29 | 459.90 | 462.50 | 464.94 | 466.65 | 467.64 |
| 17 | BEACH REPLENISHMENT | 2% | 482.58 | 486.02 | 489.99 | 490.51 | 492.64 | 494.85 | 496.49 | 498.23 |
| 18 | CULTURAL RESOURCE PRESERVATION | 2% | 441.66 | 444.01 | 447.85 | 448.80 | 450.05 | 454.32 | 457.23 | 458.34 |
| 19 | BUILDINGS, GROUNDS & UTILITIES | 5% | 441.66 | 444.01 | 447.85 | 448.80 | 450.05 | 454.32 | 457.23 | 458.34 |
| 20 | PERMANENT OPERATING EQUIPMENT | 2% | 441.66 | 444.01 | 447.85 | 448.80 | 450.05 | 454.32 | 457.23 | 458.34 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | | 100% | 456.46 | 460.75 | 464.13 | 467.28 | 468.60 | 471.96 | 473.39 | 474.74 |

Note: FY* indicates data developed based on OMB projection

[1st QTR = 2 OCT THRU 31 DEC/1 JAN] [2nd QTR = 2 JAN THRU 31 MAR/ 1 APR] [3rd QTR = 2 APR THRU 30 JUN/ 1 JUL] [4th QTR = 2 JUL THRU 30 SEPT/ 1 OCT]

Amendment #9, 30 Sep 16
EM 1110-2-1304 (31 Mar 12)

TABLE A-1, QUARTERLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| | | 1Q98 | 2Q98 | 3Q98 | 4Q98 | 1Q99 | 2Q99 | 3Q99 | 4Q99 | |
|---|---|------|--------|--------|--------|--------|--------|--------|--------|--------|
| 02 | RELOCATIONS | 5% | 488.93 | 492.32 | 491.10 | 488.69 | 492.81 | 499.56 | 509.16 | 503.04 |
| 03 | RESERVOIRS | 5% | 517.40 | 520.17 | 522.70 | 525.43 | 532.68 | 539.36 | 544.82 | 545.17 |
| 04 | DAMS | 15% | 475.97 | 479.55 | 480.64 | 480.07 | 482.40 | 487.32 | 492.58 | 491.25 |
| 05 | LOCKS | 2% | 469.68 | 473.13 | 474.11 | 472.96 | 474.43 | 478.77 | 484.44 | 482.76 |
| 06 | FISH & WILDLIFE FACILITIES | 5% | 469.97 | 474.07 | 474.38 | 472.57 | 474.86 | 480.31 | 487.47 | 483.86 |
| 07 | POWER PLANT | 10% | 457.05 | 458.84 | 460.27 | 459.69 | 461.41 | 464.12 | 467.99 | 467.98 |
| 08 | ROADS, RAILROADS & BRIDGES | 10% | 488.93 | 492.32 | 491.10 | 488.69 | 492.81 | 499.56 | 509.16 | 503.04 |
| 09 | CHANNELS & CANALS | 3% | 500.35 | 503.18 | 504.72 | 505.95 | 509.67 | 515.79 | 519.24 | 519.75 |
| 10 | BREAKWATER & SEAWALLS | 5% | 508.28 | 510.27 | 511.29 | 512.16 | 515.93 | 520.56 | 523.14 | 523.68 |
| 11 | LEVEES & FLOODWALLS | 5% | 493.85 | 496.31 | 497.18 | 496.64 | 497.88 | 502.33 | 506.75 | 506.45 |
| 12 | NAVIGATION PORTS & HARBORS | 10% | 459.69 | 457.07 | 454.85 | 458.59 | 455.42 | 459.42 | 466.91 | 480.03 |
| 13 | PUMPING PLANT | 5% | 459.51 | 461.72 | 460.32 | 456.04 | 455.05 | 458.29 | 465.05 | 462.25 |
| 14 | RECREATION FACILITIES | 5% | 459.51 | 461.72 | 460.32 | 456.04 | 455.05 | 458.29 | 465.05 | 462.25 |
| 15 | FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 469.97 | 474.07 | 474.38 | 472.57 | 474.86 | 480.31 | 487.47 | 483.86 |
| 16 | BANK STABILIZATION | 2% | 472.31 | 476.13 | 478.33 | 479.14 | 483.67 | 488.48 | 492.81 | 493.47 |
| 17 | BEACH REPLENISHMENT | 2% | 503.53 | 506.24 | 508.40 | 510.21 | 514.77 | 520.48 | 525.81 | 526.51 |
| 18 | CULTURAL RESOURCE PRESERVATION | 2% | 459.51 | 461.72 | 460.32 | 456.04 | 455.05 | 458.29 | 465.05 | 462.25 |
| 19 | BUILDINGS, GROUNDS & UTILITIES | 5% | 459.51 | 461.72 | 460.32 | 456.04 | 455.05 | 458.29 | 465.05 | 462.25 |
| 20 | PERMANENT OPERATING EQUIPMENT | 2% | 469.97 | 461.72 | 460.32 | 456.04 | 455.05 | 458.29 | 465.05 | 462.25 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | | 100% | 476.72 | 478.83 | 478.86 | 478.01 | 479.74 | 484.42 | 490.61 | 490.05 |

Note: FY* indicates data developed based on OMB projection

[1st QTR = 2 OCT THRU 31 DEC/ 1 JAN] [2nd QTR = 2 JAN THRU 31 MAR/ 1 APR] [3rd QTR = 2 APR THRU 30 JUN/ 1 JUL] [4th QTR = 2 JUL THRU 30 SEPT/ 1 OCT]

TABLE A-1, QUARTERLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| | | 1Q00 | 2Q00 | 3Q00 | 4Q00 | 1Q01 | 2Q01 | 3Q01 | 4Q01 | |
|---|---|------|--------|--------|--------|--------|--------|--------|--------|--------|
| 02 | RELOCATIONS | 5% | 506.82 | 508.77 | 508.18 | 508.11 | 508.75 | 510.79 | 516.87 | 516.78 |
| 03 | RESERVOIRS | 5% | 546.17 | 549.66 | 554.69 | 558.99 | 563.32 | 563.43 | 570.76 | 574.83 |
| 04 | DAMS | 15% | 494.04 | 496.25 | 498.01 | 498.82 | 500.65 | 501.87 | 505.85 | 507.48 |
| 05 | LOCKS | 2% | 485.77 | 488.74 | 490.22 | 490.80 | 492.11 | 493.23 | 497.55 | 498.84 |
| 06 | FISH & WILDLIFE FACILITIES | 5% | 487.08 | 489.21 | 489.75 | 489.55 | 490.33 | 491.91 | 496.69 | 497.31 |
| 07 | POWER PLANT | 10% | 469.50 | 472.63 | 473.85 | 474.95 | 476.65 | 478.03 | 481.14 | 482.73 |
| 08 | ROADS, RAILROADS & BRIDGES | 10% | 506.82 | 508.77 | 508.18 | 508.11 | 508.75 | 510.79 | 516.87 | 516.78 |
| 09 | CHANNELS & CANALS | 3% | 522.70 | 525.67 | 528.21 | 530.31 | 533.17 | 533.64 | 537.32 | 539.98 |
| 10 | BREAKWATER & SEAWALLS | 5% | 526.04 | 526.70 | 528.42 | 530.28 | 533.00 | 532.90 | 535.39 | 537.42 |
| 11 | LEVEES & FLOODWALLS | 5% | 509.22 | 512.18 | 514.03 | 515.05 | 516.54 | 516.31 | 519.93 | 521.86 |
| 12 | NAVIGATION PORTS & HARBORS | 10% | 485.60 | 495.16 | 501.01 | 519.15 | 512.19 | 502.64 | 505.06 | 499.47 |
| 13 | PUMPING PLANT | 5% | 466.30 | 468.39 | 469.29 | 468.22 | 468.84 | 470.57 | 474.22 | 475.09 |
| 14 | RECREATION FACILITIES | 5% | 466.30 | 468.39 | 469.29 | 468.22 | 468.84 | 470.57 | 474.22 | 475.09 |
| 15 | FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 487.08 | 489.21 | 489.75 | 489.55 | 490.33 | 491.91 | 496.69 | 497.31 |
| 16 | BANK STABILIZATION | 2% | 496.20 | 500.74 | 503.53 | 505.51 | 508.86 | 511.15 | 515.13 | 516.86 |
| 17 | BEACH REPLENISHMENT | 2% | 527.91 | 531.22 | 534.34 | 537.36 | 540.77 | 539.82 | 544.75 | 547.51 |
| 18 | CULTURAL RESOURCE PRESERVATION | 2% | 466.30 | 468.39 | 469.29 | 468.22 | 468.84 | 470.57 | 474.22 | 475.09 |
| 19 | BUILDINGS, GROUNDS & UTILITIES | 5% | 466.30 | 468.39 | 469.29 | 468.22 | 468.84 | 470.57 | 474.22 | 475.09 |
| 20 | PERMANENT OPERATING EQUIPMENT | 2% | 466.30 | 468.39 | 469.29 | 468.22 | 468.84 | 470.57 | 474.22 | 475.09 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | | 100% | 493.28 | 496.38 | 498.13 | 500.48 | 501.17 | 501.33 | 505.47 | 506.11 |

Note: FY* indicates data developed based on OMB projection

[1st QTR = 2 OCT THRU 31 DEC/ 1 JAN] [2nd QTR = 2 JAN THRU 31 MAR/ 1 APR] [3rd QTR = 2 APR THRU 30 JUN/ 1 JUL] [4th QTR = 2 JUL THRU 30 SEPT/ 1 OCT]

Amendment #9, 30 Sep 16
EM 1110-2-1304 (31 Mar 12)

TABLE A-1, QUARTERLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| | | 1Q02 | 2Q02 | 3Q02 | 4Q02 | 1Q03 | 2Q03 | 3Q03 | 4Q03 |
|--|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 02 | RELOCATIONS 5% | 519.56 | 530.58 | 535.25 | 534.41 | 535.70 | 538.79 | 543.21 | 549.21 |
| 03 | RESERVOIRS 5% | 578.45 | 588.04 | 596.92 | 597.44 | 599.30 | 601.96 | 608.05 | 612.58 |
| 04 | DAMS 15% | 509.54 | 517.86 | 523.54 | 523.71 | 524.83 | 527.44 | 530.53 | 535.00 |
| 05 | LOCKS 2% | 500.92 | 510.32 | 516.30 | 516.21 | 517.34 | 520.67 | 523.36 | 528.58 |
| 06 | FISH & WILDLIFE FACILITIES 5% | 499.28 | 508.67 | 514.07 | 513.82 | 514.15 | 516.87 | 520.35 | 525.69 |
| 07 | POWER PLANT 10% | 483.76 | 489.01 | 493.68 | 493.88 | 494.64 | 496.80 | 499.15 | 502.53 |
| 08 | ROADS, RAILROADS & BRIDGES 10% | 519.56 | 530.58 | 535.25 | 534.41 | 535.70 | 538.79 | 543.21 | 549.21 |
| 09 | CHANNELS & CANALS 3% | 543.14 | 552.98 | 556.82 | 557.30 | 562.22 | 565.12 | 566.01 | 568.24 |
| 10 | BREAKWATER & SEAWALLS 5% | 539.67 | 551.63 | 554.03 | 554.89 | 560.30 | 563.87 | 564.09 | 566.98 |
| 11 | LEVEES & FLOODWALLS 5% | 523.80 | 536.25 | 541.49 | 541.59 | 545.36 | 549.52 | 550.19 | 554.42 |
| 12 | NAVIGATION PORTS & HARBORS 10% | 491.92 | 502.81 | 509.07 | 521.20 | 525.66 | 527.04 | 524.41 | 529.19 |
| 13 | PUMPING PLANT 5% | 476.18 | 485.23 | 492.07 | 491.16 | 491.18 | 495.32 | 498.09 | 505.00 |
| 14 | RECREATION FACILITIES 5% | 476.18 | 485.23 | 492.07 | 491.16 | 491.18 | 495.32 | 498.09 | 505.00 |
| 15 | FLOODWAY CONTROL & DIVERSION STRUCTURE 2% | 499.28 | 508.67 | 514.07 | 513.82 | 514.15 | 516.87 | 520.35 | 525.69 |
| 16 | BANK STABILIZATION 2% | 519.90 | 530.24 | 534.49 | 534.58 | 538.56 | 542.73 | 544.59 | 547.71 |
| 17 | BEACH REPLENISHMENT 2% | 550.76 | 568.85 | 574.22 | 574.58 | 580.20 | 585.05 | 585.18 | 588.23 |
| 18 | CULTURAL RESOURCE PRESERVATION 2% | 476.18 | 485.23 | 492.07 | 491.16 | 491.18 | 495.32 | 498.09 | 505.00 |
| 19 | BUILDINGS, GROUNDS & UTILITIES 5% | 476.18 | 485.23 | 492.07 | 491.16 | 491.18 | 495.32 | 498.09 | 505.00 |
| 20 | PERMANENT OPERATING EQUIPMENT 2% | 476.18 | 485.23 | 492.07 | 491.16 | 491.18 | 495.32 | 498.09 | 505.00 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) 100% | | 507.18 | 516.82 | 522.40 | 523.44 | 525.26 | 528.30 | 530.64 | 535.59 |

Note: FY* indicates data developed based on OMB projection

[1st QTR = 2 OCT THRU 31 DEC/1 JAN] [2nd QTR = 2 JAN THRU 31 MAR/ 1 APR] [3rd QTR = 2 APR THRU 30 JUN/ 1 JUL] [4th QTR = 2 JUL THRU 30 SEPT/ 1 OCT]

TABLE A-1, QUARTERLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| | | 1Q04 | 2Q04 | 3Q04 | 4Q04 | 1Q05 | 2Q05 | 3Q05 | 4Q05 | |
|---|---|------|--------|--------|--------|--------|--------|--------|--------|--------|
| 02 | RELOCATIONS | 5% | 559.04 | 583.39 | 595.63 | 608.05 | 612.78 | 617.37 | 619.16 | 625.19 |
| 03 | RESERVOIRS | 5% | 618.26 | 622.07 | 631.33 | 636.79 | 643.64 | 648.68 | 655.31 | 659.06 |
| 04 | DAMS | 15% | 543.14 | 561.95 | 574.06 | 587.47 | 594.90 | 598.72 | 603.91 | 611.03 |
| 05 | LOCKS | 2% | 537.81 | 560.55 | 572.89 | 588.45 | 595.76 | 599.22 | 602.17 | 610.26 |
| 06 | FISH & WILDLIFE FACILITIES | 5% | 534.75 | 558.90 | 571.55 | 586.56 | 593.35 | 597.76 | 600.97 | 608.18 |
| 07 | POWER PLANT | 10% | 508.32 | 524.12 | 534.82 | 545.00 | 550.58 | 555.21 | 557.62 | 565.16 |
| 08 | ROADS, RAILROADS & BRIDGES | 10% | 559.04 | 583.39 | 595.63 | 608.05 | 612.78 | 617.37 | 619.16 | 625.19 |
| 09 | CHANNELS & CANALS | 3% | 574.07 | 580.55 | 589.71 | 593.18 | 602.74 | 606.87 | 617.59 | 621.31 |
| 10 | BREAKWATER & SEAWALLS | 5% | 572.43 | 579.15 | 587.47 | 594.67 | 603.21 | 607.88 | 618.82 | 622.23 |
| 11 | LEVEES & FLOODWALLS | 5% | 563.84 | 582.42 | 594.09 | 607.65 | 615.61 | 618.00 | 623.58 | 630.33 |
| 12 | NAVIGATION PORTS & HARBORS | 10% | 537.22 | 562.46 | 569.88 | 608.44 | 592.73 | 617.25 | 632.02 | 688.11 |
| 13 | PUMPING PLANT | 5% | 520.69 | 557.62 | 576.08 | 600.71 | 605.19 | 603.75 | 600.77 | 612.17 |
| 14 | RECREATION FACILITIES | 5% | 520.69 | 557.62 | 576.08 | 600.71 | 605.19 | 603.75 | 600.77 | 612.17 |
| 15 | FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 534.75 | 558.90 | 571.55 | 586.56 | 593.35 | 597.76 | 600.97 | 608.18 |
| 16 | BANK STABILIZATION | 2% | 553.65 | 561.04 | 568.83 | 574.20 | 584.95 | 591.30 | 599.32 | 603.93 |
| 17 | BEACH REPLENISHMENT | 2% | 593.35 | 597.42 | 605.82 | 610.94 | 619.98 | 626.28 | 635.25 | 639.56 |
| 18 | CULTURAL RESOURCE PRESERVATION | 2% | 520.69 | 557.62 | 576.08 | 600.71 | 605.19 | 603.75 | 600.77 | 612.17 |
| 19 | BUILDINGS, GROUNDS & UTILITIES | 5% | 520.69 | 557.62 | 576.08 | 600.71 | 605.19 | 603.75 | 600.77 | 612.17 |
| 20 | PERMANENT OPERATING EQUIPMENT | 2% | 520.69 | 557.62 | 576.08 | 600.71 | 605.19 | 603.75 | 600.77 | 612.17 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | | 100% | 544.89 | 566.51 | 578.67 | 595.09 | 599.22 | 604.49 | 608.79 | 620.94 |

Note: FY* indicates data developed based on OMB projection

[1st QTR = 2 OCT THRU 31 DEC/ 1 JAN] [2nd QTR = 2 JAN THRU 31 MAR/ 1 APR] [3rd QTR = 2 APR THRU 30 JUN/ 1 JUL] [4th QTR = 2 JUL THRU 30 SEPT/ 1 OCT]

Amendment #9, 30 Sep 16
EM 1110-2-1304 (31 Mar 12)

TABLE A-1, QUARTERLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| | | 1Q06 | 2Q06 | 3Q06 | 4Q06 | 1Q07 | 2Q07 | 3Q07 | 4Q07 | |
|---|---|------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 02 | RELOCATIONS | 5% | 639.51 | 643.94 | 647.71 | 655.73 | 660.22 | 678.49 | 685.41 | 681.90 |
| 03 | RESERVOIRS | 5% | 666.12 | 668.01 | 669.42 | 686.51 | 694.10 | 706.17 | 718.54 | 718.99 |
| 04 | DAMS | 15% | 625.48 | 631.20 | 637.92 | 647.39 | 651.74 | 668.81 | 674.55 | 673.90 |
| 05 | LOCKS | 2% | 624.39 | 630.30 | 638.40 | 648.48 | 652.21 | 671.85 | 677.88 | 676.32 |
| 06 | FISH & WILDLIFE FACILITIES | 5% | 624.32 | 630.14 | 636.39 | 645.47 | 649.01 | 668.79 | 674.11 | 671.55 |
| 07 | POWER PLANT | 10% | 578.01 | 583.39 | 591.74 | 602.27 | 605.88 | 621.78 | 628.04 | 628.54 |
| 08 | ROADS, RAILROADS & BRIDGES | 10% | 639.51 | 643.94 | 647.71 | 655.73 | 660.22 | 678.49 | 685.41 | 681.90 |
| 09 | CHANNELS & CANALS | 3% | 634.12 | 639.70 | 643.34 | 650.07 | 658.19 | 666.22 | 672.31 | 674.92 |
| 10 | BREAKWATER & SEAWALLS | 5% | 633.85 | 640.07 | 642.80 | 647.89 | 654.97 | 660.82 | 666.40 | 668.25 |
| 11 | LEVEES & FLOODWALLS | 5% | 644.64 | 651.23 | 658.68 | 666.93 | 669.92 | 687.06 | 693.47 | 691.82 |
| 12 | NAVIGATION PORTS & HARBORS | 10% | 649.53 | 675.74 | 683.98 | 688.30 | 692.60 | 696.34 | 706.31 | 713.66 |
| 13 | PUMPING PLANT | 5% | 632.03 | 638.50 | 649.88 | 661.67 | 658.14 | 689.31 | 692.87 | 687.19 |
| 14 | RECREATION FACILITIES | 5% | 632.03 | 638.50 | 649.88 | 661.67 | 658.14 | 689.31 | 692.87 | 687.19 |
| 15 | FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 624.32 | 630.14 | 636.39 | 645.47 | 649.01 | 668.79 | 674.11 | 671.55 |
| 16 | BANK STABILIZATION | 2% | 619.29 | 627.39 | 632.75 | 642.25 | 654.93 | 666.89 | 672.89 | 678.39 |
| 17 | BEACH REPLENISHMENT | 2% | 650.69 | 658.21 | 661.81 | 669.01 | 676.88 | 686.56 | 696.00 | 698.14 |
| 18 | CULTURAL RESOURCE PRESERVATION | 2% | 632.03 | 638.50 | 649.88 | 661.67 | 658.14 | 689.31 | 692.87 | 687.19 |
| 19 | BUILDINGS, GROUNDS & UTILITIES | 5% | 632.03 | 638.50 | 649.88 | 661.67 | 658.14 | 689.31 | 692.87 | 687.19 |
| 20 | PERMANENT OPERATING EQUIPMENT | 2% | 632.03 | 638.50 | 649.88 | 661.67 | 658.14 | 689.31 | 692.87 | 687.19 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | | 100% | 630.43 | 638.08 | 644.95 | 654.19 | 657.49 | 674.89 | 681.29 | 680.42 |

Note: FY* indicates data developed based on OMB projection

[1st QTR = 2 OCT THRU 31 DEC/1 JAN] [2nd QTR = 2 JAN THRU 31 MAR/ 1 APR] [3rd QTR = 2 APR THRU 30 JUN/ 1 JUL] [4th QTR = 2 JUL THRU 30 SEPT/ 1 OCT]

TABLE A-1, QUARTERLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| | | 1Q08 | 2Q08 | 3Q08 | 4Q08 | 1Q09 | 2Q09 | 3Q09 | 4Q09 | |
|---|---|------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 02 | RELOCATIONS | 5% | 685.16 | 701.29 | 728.77 | 727.11 | 708.97 | 699.50 | 706.43 | 707.53 |
| 03 | RESERVOIRS | 5% | 720.94 | 725.82 | 737.53 | 744.72 | 754.07 | 755.10 | 766.33 | 770.44 |
| 04 | DAMS | 15% | 678.85 | 694.86 | 719.14 | 720.13 | 705.76 | 697.72 | 701.88 | 701.98 |
| 05 | LOCKS | 2% | 682.18 | 701.14 | 730.54 | 728.97 | 708.16 | 696.16 | 699.79 | 701.92 |
| 06 | FISH & WILDLIFE FACILITIES | 5% | 675.58 | 693.72 | 722.13 | 719.86 | 698.29 | 686.42 | 689.95 | 691.34 |
| 07 | POWER PLANT | 10% | 635.04 | 648.10 | 672.38 | 676.86 | 660.73 | 657.37 | 660.93 | 664.75 |
| 08 | ROADS, RAILROADS & BRIDGES | 10% | 685.16 | 701.29 | 728.77 | 727.11 | 708.97 | 699.50 | 706.43 | 707.53 |
| 09 | CHANNELS & CANALS | 3% | 679.00 | 687.99 | 696.83 | 700.63 | 708.75 | 714.03 | 722.16 | 718.60 |
| 10 | BREAKWATER & SEAWALLS | 5% | 672.17 | 679.90 | 689.75 | 696.20 | 704.84 | 708.10 | 714.70 | 707.23 |
| 11 | LEVEES & FLOODWALLS | 5% | 697.52 | 714.17 | 739.43 | 737.40 | 721.64 | 712.69 | 718.95 | 719.93 |
| 12 | NAVIGATION PORTS & HARBORS | 10% | 738.66 | 791.33 | 844.82 | 767.18 | 693.15 | 698.10 | 700.97 | 721.64 |
| 13 | PUMPING PLANT | 5% | 696.70 | 725.23 | 774.76 | 768.74 | 715.95 | 691.26 | 694.39 | 697.18 |
| 14 | RECREATION FACILITIES | 5% | 696.70 | 725.23 | 774.76 | 768.74 | 715.95 | 691.26 | 694.39 | 697.18 |
| 15 | FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 675.58 | 693.72 | 722.13 | 719.86 | 698.29 | 686.42 | 689.95 | 691.34 |
| 16 | BANK STABILIZATION | 2% | 685.50 | 693.62 | 705.31 | 710.77 | 718.39 | 722.75 | 726.93 | 725.05 |
| 17 | BEACH REPLENISHMENT | 2% | 700.69 | 705.47 | 713.50 | 717.74 | 727.05 | 730.99 | 740.35 | 741.15 |
| 18 | CULTURAL RESOURCE PRESERVATION | 2% | 696.70 | 725.23 | 774.76 | 768.74 | 715.95 | 691.26 | 694.39 | 697.18 |
| 19 | BUILDINGS, GROUNDS & UTILITIES | 5% | 696.70 | 725.23 | 774.76 | 768.74 | 715.95 | 691.26 | 694.39 | 697.18 |
| 20 | PERMANENT OPERATING EQUIPMENT | 2% | 696.70 | 725.23 | 774.76 | 768.74 | 715.95 | 691.26 | 694.39 | 697.18 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | | 100% | 687.90 | 708.36 | 738.89 | 731.03 | 705.87 | 697.73 | 702.67 | 705.72 |

Note: FY* indicates data developed based on OMB projection

[1st QTR = 2 OCT THRU 31 DEC/1 JAN] [2nd QTR = 2 JAN THRU 31 MAR/ 1 APR] [3rd QTR = 2 APR THRU 30 JUN/ 1 JUL] [4th QTR = 2 JUL THRU 30 SEPT/ 1 OCT]

Amendment #9, 30 Sep 16
EM 1110-2-1304 (31 Mar 12)

TABLE A-1, QUARTERLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| | | 1Q10 | 2Q10 | 3Q10 | 4Q10 | 1Q11 | 2Q11 | 3Q11 | 4Q11 | |
|---|---|------|--------|--------|--------|--------|--------|--------|--------|--------|
| 02 | RELOCATIONS | 5% | 715.45 | 727.79 | 733.68 | 732.86 | 741.60 | 754.50 | 762.57 | 763.99 |
| 03 | RESERVOIRS | 5% | 778.06 | 780.49 | 798.39 | 799.72 | 802.29 | 811.14 | 821.33 | 824.47 |
| 04 | DAMS | 15% | 708.05 | 715.18 | 723.36 | 723.26 | 729.81 | 742.73 | 751.52 | 752.53 |
| 05 | LOCKS | 2% | 708.17 | 718.31 | 725.64 | 725.88 | 733.84 | 748.48 | 756.76 | 756.73 |
| 06 | FISH & WILDLIFE FACILITIES | 5% | 696.93 | 707.21 | 712.33 | 711.42 | 718.73 | 732.94 | 740.70 | 740.08 |
| 07 | POWER PLANT | 10% | 670.51 | 677.22 | 683.75 | 684.61 | 690.66 | 702.31 | 709.32 | 709.88 |
| 08 | ROADS, RAILROADS & BRIDGES | 10% | 715.45 | 727.79 | 733.68 | 732.86 | 741.60 | 754.50 | 762.57 | 763.99 |
| 09 | CHANNELS & CANALS | 3% | 726.21 | 727.34 | 738.67 | 740.12 | 745.50 | 752.01 | 763.20 | 769.05 |
| 10 | BREAKWATER & SEAWALLS | 5% | 714.39 | 715.35 | 722.61 | 723.34 | 730.49 | 737.82 | 747.94 | 753.93 |
| 11 | LEVEES & FLOODWALLS | 5% | 726.98 | 735.23 | 744.32 | 745.35 | 753.70 | 767.06 | 776.75 | 779.51 |
| 12 | NAVIGATION PORTS & HARBORS | 10% | 735.18 | 744.79 | 739.80 | 759.65 | 775.94 | 824.07 | 820.39 | 813.49 |
| 13 | PUMPING PLANT | 5% | 705.25 | 722.76 | 728.03 | 727.14 | 738.68 | 759.69 | 768.44 | 768.35 |
| 14 | RECREATION FACILITIES | 5% | 705.25 | 722.76 | 728.03 | 727.14 | 738.68 | 759.69 | 768.44 | 768.35 |
| 15 | FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 696.93 | 707.21 | 712.33 | 711.42 | 718.73 | 732.94 | 740.70 | 740.08 |
| 16 | BANK STABILIZATION | 2% | 731.87 | 734.65 | 743.86 | 745.72 | 751.63 | 757.16 | 765.44 | 765.87 |
| 17 | BEACH REPLENISHMENT | 2% | 747.83 | 748.86 | 765.59 | 766.53 | 771.39 | 778.88 | 787.89 | 789.66 |
| 18 | CULTURAL RESOURCE PRESERVATION | 2% | 705.25 | 722.76 | 728.03 | 727.14 | 738.68 | 759.69 | 768.44 | 768.35 |
| 19 | BUILDINGS, GROUNDS & UTILITIES | 5% | 705.25 | 722.76 | 728.03 | 727.14 | 738.68 | 759.69 | 768.44 | 768.35 |
| 20 | PERMANENT OPERATING EQUIPMENT | 2% | 705.25 | 722.76 | 728.03 | 727.14 | 738.68 | 759.69 | 768.44 | 768.35 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | | 100% | 713.39 | 722.89 | 729.23 | 731.19 | 739.86 | 756.92 | 764.34 | 764.82 |

Note: FY* indicates data developed based on OMB projection

[1st QTR = 2 OCT THRU 31 DEC/ 1 JAN] [2nd QTR = 2 JAN THRU 31 MAR/ 1 APR] [3rd QTR = 2 APR THRU 30 JUN/ 1 JUL] [4th QTR = 2 JUL THRU 30 SEPT/ 1 OCT]

TABLE A-1, QUARTERLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| | | 1Q12 | 2Q12 | 3Q12 | 4Q12 | 1Q13 | 2Q13 | 3Q13 | 4Q13 | |
|---|---|------|--------|--------|--------|--------|--------|--------|--------|--------|
| 02 | RELOCATIONS | 5% | 768.33 | 774.53 | 776.41 | 776.53 | 787.84 | 795.56 | 794.68 | 797.33 |
| 03 | RESERVOIRS | 5% | 828.38 | 833.59 | 844.93 | 845.07 | 849.84 | 853.83 | 869.35 | 869.57 |
| 04 | DAMS | 15% | 758.31 | 763.62 | 764.46 | 765.52 | 772.81 | 776.78 | 781.78 | 782.77 |
| 05 | LOCKS | 2% | 760.93 | 765.02 | 765.35 | 764.34 | 771.04 | 775.23 | 778.58 | 780.15 |
| 06 | FISH & WILDLIFE FACILITIES | 5% | 744.72 | 749.69 | 749.60 | 749.46 | 758.43 | 764.29 | 764.90 | 766.75 |
| 07 | POWER PLANT | 10% | 713.57 | 717.40 | 717.04 | 718.99 | 722.83 | 725.97 | 728.72 | 730.08 |
| 08 | ROADS, RAILROADS & BRIDGES | 10% | 768.33 | 774.53 | 776.41 | 776.53 | 787.84 | 795.56 | 794.68 | 797.33 |
| 09 | CHANNELS & CANALS | 3% | 779.45 | 787.23 | 792.32 | 796.23 | 804.86 | 806.09 | 816.37 | 817.99 |
| 10 | BREAKWATER & SEAWALLS | 5% | 757.76 | 764.47 | 768.52 | 772.18 | 782.00 | 784.60 | 792.86 | 792.77 |
| 11 | LEVEES & FLOODWALLS | 5% | 785.64 | 789.19 | 790.48 | 790.25 | 798.03 | 800.91 | 806.93 | 807.90 |
| 12 | NAVIGATION PORTS & HARBORS | 10% | 818.43 | 834.42 | 811.06 | 847.13 | 827.74 | 829.45 | 829.74 | 843.32 |
| 13 | PUMPING PLANT | 5% | 770.37 | 772.58 | 767.66 | 766.57 | 773.09 | 778.60 | 776.77 | 777.31 |
| 14 | RECREATION FACILITIES | 5% | 770.37 | 772.58 | 767.66 | 766.57 | 773.09 | 778.60 | 776.77 | 777.31 |
| 15 | FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 744.72 | 749.69 | 749.60 | 749.46 | 758.43 | 764.29 | 764.90 | 766.75 |
| 16 | BANK STABILIZATION | 2% | 771.70 | 779.14 | 784.52 | 784.53 | 790.84 | 793.64 | 801.54 | 805.25 |
| 17 | BEACH REPLENISHMENT | 2% | 795.15 | 798.73 | 806.02 | 807.05 | 812.95 | 815.76 | 828.49 | 829.61 |
| 18 | CULTURAL RESOURCE PRESERVATION | 2% | 770.37 | 772.58 | 767.66 | 766.57 | 773.09 | 778.60 | 776.77 | 777.31 |
| 19 | BUILDINGS, GROUNDS & UTILITIES | 5% | 770.37 | 772.58 | 767.66 | 766.57 | 773.09 | 778.60 | 776.77 | 777.31 |
| 20 | PERMANENT OPERATING EQUIPMENT | 2% | 770.37 | 772.58 | 767.66 | 766.57 | 773.09 | 778.60 | 776.77 | 777.31 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | | 100% | 769.23 | 775.01 | 773.35 | 777.41 | 782.27 | 786.67 | 789.56 | 792.07 |

Note: FY* indicates data developed based on OMB projection

[1st QTR = 2 OCT THRU 31 DEC/ 1 JAN] [2nd QTR = 2 JAN THRU 31 MAR/ 1 APR] [3rd QTR = 2 APR THRU 30 JUN/ 1 JUL] [4th QTR = 2 JUL THRU 30 SEPT/ 1 OCT]

Amendment #9, 30 Sep 16
EM 1110-2-1304 (31 Mar 12)

TABLE A-1, QUARTERLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| | | 1Q14 | 2Q14 | 3Q14 | 4Q14 | 1Q15 | 2Q15 | 3Q15 | 4Q15 | |
|---|---|------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 02 | RELOCATIONS | 5% | 805.10 | 809.41 | 817.50 | 818.24 | 822.62 | 817.79 | 825.50 | 820.72 |
| 03 | RESERVOIRS | 5% | 871.75 | 874.82 | 893.52 | 895.08 | 898.38 | 900.90 | 920.24 | 922.38 |
| 04 | DAMS | 15% | 789.65 | 794.60 | 799.78 | 800.70 | 807.10 | 804.97 | 809.36 | 806.30 |
| 05 | LOCKS | 2% | 787.10 | 792.29 | 799.14 | 799.98 | 804.23 | 800.49 | 805.36 | 801.48 |
| 06 | FISH & WILDLIFE FACILITIES | 5% | 774.03 | 779.64 | 785.65 | 786.93 | 792.02 | 788.66 | 793.12 | 788.51 |
| 07 | POWER PLANT | 10% | 735.33 | 738.70 | 743.11 | 744.66 | 746.47 | 743.20 | 745.99 | 743.39 |
| 08 | ROADS, RAILROADS & BRIDGES | 10% | 805.10 | 809.41 | 817.50 | 818.24 | 822.62 | 817.79 | 825.50 | 820.72 |
| 09 | CHANNELS & CANALS | 3% | 825.51 | 827.50 | 833.72 | 834.66 | 843.99 | 845.53 | 854.33 | 855.68 |
| 10 | BREAKWATER & SEAWALLS | 5% | 800.38 | 802.68 | 807.76 | 806.83 | 818.17 | 818.72 | 824.48 | 824.10 |
| 11 | LEVEES & FLOODWALLS | 5% | 814.93 | 818.17 | 824.49 | 824.81 | 829.76 | 825.49 | 830.81 | 827.98 |
| 12 | NAVIGATION PORTS & HARBORS | 10% | 838.49 | 848.40 | 845.17 | 832.72 | 774.14 | 775.50 | 786.88 | 778.77 |
| 13 | PUMPING PLANT | 5% | 785.64 | 789.93 | 795.77 | 795.00 | 797.68 | 784.02 | 786.63 | 776.94 |
| 14 | RECREATION FACILITIES | 5% | 785.64 | 789.93 | 795.77 | 795.00 | 797.68 | 784.02 | 786.63 | 776.94 |
| 15 | FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 774.03 | 779.64 | 785.65 | 786.93 | 792.02 | 788.66 | 793.12 | 788.51 |
| 16 | BANK STABILIZATION | 2% | 812.74 | 817.68 | 824.94 | 825.65 | 833.88 | 837.55 | 844.72 | 846.91 |
| 17 | BEACH REPLENISHMENT | 2% | 834.45 | 837.27 | 845.68 | 846.05 | 852.65 | 855.40 | 864.56 | 866.46 |
| 18 | CULTURAL RESOURCE PRESERVATION | 2% | 785.64 | 789.93 | 795.77 | 795.00 | 797.68 | 784.02 | 786.63 | 776.94 |
| 19 | BUILDINGS, GROUNDS & UTILITIES | 5% | 785.64 | 789.93 | 795.77 | 795.00 | 797.68 | 784.02 | 786.63 | 776.94 |
| 20 | PERMANENT OPERATING EQUIPMENT | 2% | 785.64 | 789.93 | 795.77 | 795.00 | 797.68 | 784.02 | 786.63 | 776.94 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | | 100% | 797.85 | 802.53 | 808.31 | 807.52 | 805.97 | 801.94 | 808.19 | 803.77 |

Note: FY* indicates data developed based on OMB projection

[1st QTR = 2 OCT THRU 31 DEC/1 JAN] [2nd QTR = 2 JAN THRU 31 MAR/ 1 APR] [3rd QTR = 2 APR THRU 30 JUN/ 1 JUL] [4th QTR = 2 JUL THRU 30 SEPT/ 1 OCT]

TABLE A-1, QUARTERLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| | | 1Q16 | 2Q16 | 3Q16* | 4Q16* | 1Q17* | 2Q17* | 3Q17* | 4Q17* | |
|---|---|------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 02 | RELOCATIONS | 5% | 823.25 | 827.92 | 839.93 | 843.71 | 847.49 | 851.27 | 855.05 | 860.79 |
| 03 | RESERVOIRS | 5% | 926.33 | 929.06 | 933.00 | 937.20 | 941.40 | 945.60 | 949.79 | 956.18 |
| 04 | DAMS | 15% | 809.87 | 812.80 | 822.78 | 826.48 | 830.19 | 833.89 | 837.59 | 843.22 |
| 05 | LOCKS | 2% | 802.59 | 805.92 | 817.68 | 821.36 | 825.04 | 828.72 | 832.40 | 837.99 |
| 06 | FISH & WILDLIFE FACILITIES | 5% | 790.90 | 795.09 | 807.55 | 811.18 | 814.82 | 818.45 | 822.09 | 827.61 |
| 07 | POWER PLANT | 10% | 741.76 | 745.13 | 752.96 | 756.35 | 759.73 | 763.12 | 766.51 | 771.66 |
| 08 | ROADS, RAILROADS & BRIDGES | 10% | 823.25 | 827.92 | 839.93 | 843.71 | 847.49 | 851.27 | 855.05 | 860.79 |
| 09 | CHANNELS & CANALS | 3% | 863.89 | 865.14 | 868.91 | 872.82 | 876.73 | 880.64 | 884.55 | 890.49 |
| 10 | BREAKWATER & SEAWALLS | 5% | 831.82 | 831.91 | 833.63 | 837.38 | 841.13 | 844.88 | 848.64 | 854.34 |
| 11 | LEVEES & FLOODWALLS | 5% | 829.00 | 830.77 | 841.04 | 844.82 | 848.61 | 852.39 | 856.18 | 861.93 |
| 12 | NAVIGATION PORTS & HARBORS | 10% | 744.87 | 753.77 | 776.95 | 780.45 | 783.94 | 787.44 | 790.94 | 796.25 |
| 13 | PUMPING PLANT | 5% | 773.31 | 777.31 | 800.79 | 804.39 | 808.00 | 811.60 | 815.20 | 820.68 |
| 14 | RECREATION FACILITIES | 5% | 773.31 | 777.31 | 800.79 | 804.39 | 808.00 | 811.60 | 815.20 | 820.68 |
| 15 | FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 790.90 | 795.09 | 807.55 | 811.18 | 814.82 | 818.45 | 822.09 | 827.61 |
| 16 | BANK STABILIZATION | 2% | 856.95 | 861.30 | 866.77 | 870.67 | 874.57 | 878.47 | 882.37 | 888.30 |
| 17 | BEACH REPLENISHMENT | 2% | 871.59 | 874.20 | 877.37 | 881.32 | 885.27 | 889.21 | 893.16 | 899.16 |
| 18 | CULTURAL RESOURCE PRESERVATION | 2% | 773.31 | 777.31 | 800.79 | 804.39 | 808.00 | 811.60 | 815.20 | 820.68 |
| 19 | BUILDINGS, GROUNDS & UTILITIES | 5% | 773.31 | 777.31 | 800.79 | 804.39 | 808.00 | 811.60 | 815.20 | 820.68 |
| 20 | PERMANENT OPERATING EQUIPMENT | 2% | 773.31 | 777.31 | 800.79 | 804.39 | 808.00 | 811.60 | 815.20 | 820.68 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | | 100% | 801.82 | 805.71 | 818.76 | 822.45 | 826.13 | 829.82 | 833.50 | 839.10 |

Note: FY* indicates data developed based on OMB projection

[1st QTR = 2 OCT THRU 31 DEC/ 1 JAN] [2nd QTR = 2 JAN THRU 31 MAR/ 1 APR] [3rd QTR = 2 APR THRU 30 JUN/ 1 JUL] [4th QTR = 2 JUL THRU 30 SEPT/ 1 OCT]

Amendment #9, 30 Sep 16
EM 1110-2-1304 (31 Mar 12)

TABLE A-1, QUARTERLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| | | 1Q18* | 2Q18* | 3Q18* | 4Q18* | 1Q19* | 2Q19* | 3Q19* | 4Q19* | |
|---|---|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 02 | RELOCATIONS | 5% | 863.15 | 867.06 | 870.97 | 874.88 | 879.75 | 884.18 | 888.61 | 893.04 |
| 03 | RESERVOIRS | 5% | 958.79 | 963.14 | 967.48 | 971.82 | 977.23 | 982.15 | 987.08 | 992.00 |
| 04 | DAMS | 15% | 845.53 | 849.36 | 853.19 | 857.02 | 861.79 | 866.13 | 870.47 | 874.81 |
| 05 | LOCKS | 2% | 840.29 | 844.09 | 847.90 | 851.71 | 856.44 | 860.76 | 865.07 | 869.39 |
| 06 | FISH & WILDLIFE FACILITIES | 5% | 829.88 | 833.63 | 837.39 | 841.15 | 845.83 | 850.09 | 854.36 | 858.62 |
| 07 | POWER PLANT | 10% | 773.77 | 777.28 | 780.78 | 784.29 | 788.65 | 792.63 | 796.60 | 800.57 |
| 08 | ROADS, RAILROADS & BRIDGES | 10% | 863.15 | 867.06 | 870.97 | 874.88 | 879.75 | 884.18 | 888.61 | 893.04 |
| 09 | CHANNELS & CANALS | 3% | 892.93 | 896.98 | 901.02 | 905.07 | 910.10 | 914.69 | 919.27 | 923.86 |
| 10 | BREAKWATER & SEAWALLS | 5% | 856.68 | 860.56 | 864.44 | 868.32 | 873.15 | 877.55 | 881.95 | 886.35 |
| 11 | LEVEES & FLOODWALLS | 5% | 864.29 | 868.21 | 872.12 | 876.04 | 880.91 | 885.35 | 889.79 | 894.22 |
| 12 | NAVIGATION PORTS & HARBORS | 10% | 798.43 | 802.05 | 805.66 | 809.28 | 813.78 | 817.88 | 821.98 | 826.08 |
| 13 | PUMPING PLANT | 5% | 822.93 | 826.66 | 830.38 | 834.11 | 838.75 | 842.98 | 847.20 | 851.43 |
| 14 | RECREATION FACILITIES | 5% | 822.93 | 826.66 | 830.38 | 834.11 | 838.75 | 842.98 | 847.20 | 851.43 |
| 15 | FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 829.88 | 833.63 | 837.39 | 841.15 | 845.83 | 850.09 | 854.36 | 858.62 |
| 16 | BANK STABILIZATION | 2% | 890.73 | 894.77 | 898.80 | 902.84 | 907.86 | 912.43 | 917.01 | 921.58 |
| 17 | BEACH REPLENISHMENT | 2% | 901.63 | 905.71 | 909.80 | 913.88 | 918.96 | 923.59 | 928.22 | 932.85 |
| 18 | CULTURAL RESOURCE PRESERVATION | 2% | 822.93 | 826.66 | 830.38 | 834.11 | 838.75 | 842.98 | 847.20 | 851.43 |
| 19 | BUILDINGS, GROUNDS & UTILITIES | 5% | 822.93 | 826.66 | 830.38 | 834.11 | 838.75 | 842.98 | 847.20 | 851.43 |
| 20 | PERMANENT OPERATING EQUIPMENT | 2% | 822.93 | 826.66 | 830.38 | 834.11 | 838.75 | 842.98 | 847.20 | 851.43 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | | 100% | 841.40 | 845.21 | 849.02 | 852.83 | 857.58 | 861.90 | 866.22 | 870.54 |

Note: FY* indicates data developed based on OMB projection

[1st QTR = 2 OCT THRU 31 DEC/1 JAN] [2nd QTR = 2 JAN THRU 31 MAR/ 1 APR] [3rd QTR = 2 APR THRU 30 JUN/ 1 JUL] [4th QTR = 2 JUL THRU 30 SEPT/ 1 OCT]

TABLE A-1, QUARTERLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| | | 1Q20* | 2Q20* | 3Q20* | 4Q20* | 1Q21* | 2Q21* | 3Q21* | 4Q21* | |
|---|---|-------|--------|---------|---------|---------|---------|---------|---------|---------|
| 02 | RELOCATIONS | 5% | 897.34 | 901.86 | 906.38 | 910.91 | 915.29 | 919.90 | 924.51 | 929.12 |
| 03 | RESERVOIRS | 5% | 996.78 | 1001.80 | 1006.82 | 1011.84 | 1016.71 | 1021.83 | 1026.95 | 1032.08 |
| 04 | DAMS | 15% | 879.02 | 883.45 | 887.88 | 892.31 | 896.60 | 901.12 | 905.64 | 910.15 |
| 05 | LOCKS | 2% | 873.57 | 877.97 | 882.37 | 886.78 | 891.04 | 895.53 | 900.02 | 904.51 |
| 06 | FISH & WILDLIFE FACILITIES | 5% | 862.75 | 867.10 | 871.44 | 875.79 | 880.01 | 884.44 | 888.87 | 893.31 |
| 07 | POWER PLANT | 10% | 804.43 | 808.48 | 812.53 | 816.58 | 820.51 | 824.65 | 828.78 | 832.92 |
| 08 | ROADS, RAILROADS & BRIDGES | 10% | 897.34 | 901.86 | 906.38 | 910.91 | 915.29 | 919.90 | 924.51 | 929.12 |
| 09 | CHANNELS & CANALS | 3% | 928.30 | 932.98 | 937.66 | 942.33 | 946.87 | 951.64 | 956.41 | 961.18 |
| 10 | BREAKWATER & SEAWALLS | 5% | 890.61 | 895.10 | 899.59 | 904.07 | 908.43 | 913.00 | 917.58 | 922.15 |
| 11 | LEVEES & FLOODWALLS | 5% | 898.53 | 903.06 | 907.58 | 912.11 | 916.50 | 921.12 | 925.73 | 930.35 |
| 12 | NAVIGATION PORTS & HARBORS | 10% | 830.06 | 834.24 | 838.42 | 842.60 | 846.66 | 850.92 | 855.19 | 859.46 |
| 13 | PUMPING PLANT | 5% | 855.53 | 859.84 | 864.15 | 868.46 | 872.64 | 877.03 | 881.43 | 885.83 |
| 14 | RECREATION FACILITIES | 5% | 855.53 | 859.84 | 864.15 | 868.46 | 872.64 | 877.03 | 881.43 | 885.83 |
| 15 | FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 862.75 | 867.10 | 871.44 | 875.79 | 880.01 | 884.44 | 888.87 | 893.31 |
| 16 | BANK STABILIZATION | 2% | 926.02 | 930.68 | 935.35 | 940.01 | 944.54 | 949.30 | 954.06 | 958.81 |
| 17 | BEACH REPLENISHMENT | 2% | 937.34 | 942.06 | 946.79 | 951.51 | 956.09 | 960.91 | 965.72 | 970.54 |
| 18 | CULTURAL RESOURCE PRESERVATION | 2% | 855.53 | 859.84 | 864.15 | 868.46 | 872.64 | 877.03 | 881.43 | 885.83 |
| 19 | BUILDINGS, GROUNDS & UTILITIES | 5% | 855.53 | 859.84 | 864.15 | 868.46 | 872.64 | 877.03 | 881.43 | 885.83 |
| 20 | PERMANENT OPERATING EQUIPMENT | 2% | 855.53 | 859.84 | 864.15 | 868.46 | 872.64 | 877.03 | 881.43 | 885.83 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | | 100% | 874.73 | 879.14 | 883.54 | 887.95 | 892.22 | 896.72 | 901.21 | 905.71 |

Note: FY* indicates data developed based on OMB projection

[1st QTR = 2 OCT THRU 31 DEC/ 1 JAN] [2nd QTR = 2 JAN THRU 31 MAR/ 1 APR] [3rd QTR = 2 APR THRU 30 JUN/ 1 JUL] [4th QTR = 2 JUL THRU 30 SEPT/ 1 OCT]

Amendment #9, 30 Sep 16
EM 1110-2-1304 (31 Mar 12)

TABLE A-1, QUARTERLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| | | 1Q22* | 2Q22* | 3Q22* | 4Q22* | 1Q23* | 2Q23* | 3Q23* | 4Q23* | |
|---|---|-------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 02 | RELOCATIONS | 5% | 933.60 | 938.30 | 943.00 | 947.71 | 952.27 | 957.07 | 961.86 | 966.66 |
| 03 | RESERVOIRS | 5% | 1037.05 | 1042.27 | 1047.49 | 1052.72 | 1057.79 | 1063.11 | 1068.44 | 1073.77 |
| 04 | DAMS | 15% | 914.53 | 919.14 | 923.75 | 928.36 | 932.82 | 937.52 | 942.22 | 946.92 |
| 05 | LOCKS | 2% | 908.86 | 913.44 | 918.02 | 922.60 | 927.04 | 931.71 | 936.38 | 941.05 |
| 06 | FISH & WILDLIFE FACILITIES | 5% | 897.61 | 902.13 | 906.65 | 911.17 | 915.56 | 920.17 | 924.78 | 929.39 |
| 07 | POWER PLANT | 10% | 836.92 | 841.14 | 845.36 | 849.57 | 853.66 | 857.96 | 862.26 | 866.56 |
| 08 | ROADS, RAILROADS & BRIDGES | 10% | 933.60 | 938.30 | 943.00 | 947.71 | 952.27 | 957.07 | 961.86 | 966.66 |
| 09 | CHANNELS & CANALS | 3% | 965.81 | 970.67 | 975.54 | 980.40 | 985.12 | 990.09 | 995.05 | 1000.01 |
| 10 | BREAKWATER & SEAWALLS | 5% | 926.59 | 931.26 | 935.93 | 940.60 | 945.13 | 949.89 | 954.65 | 959.41 |
| 11 | LEVEES & FLOODWALLS | 5% | 934.83 | 939.54 | 944.25 | 948.96 | 953.53 | 958.33 | 963.13 | 967.94 |
| 12 | NAVIGATION PORTS & HARBORS | 10% | 863.59 | 867.94 | 872.29 | 876.64 | 880.86 | 885.30 | 889.74 | 894.18 |
| 13 | PUMPING PLANT | 5% | 890.09 | 894.58 | 899.06 | 903.54 | 907.89 | 912.47 | 917.04 | 921.61 |
| 14 | RECREATION FACILITIES | 5% | 890.09 | 894.58 | 899.06 | 903.54 | 907.89 | 912.47 | 917.04 | 921.61 |
| 15 | FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 897.61 | 902.13 | 906.65 | 911.17 | 915.56 | 920.17 | 924.78 | 929.39 |
| 16 | BANK STABILIZATION | 2% | 963.43 | 968.28 | 973.14 | 977.99 | 982.70 | 987.65 | 992.60 | 997.55 |
| 17 | BEACH REPLENISHMENT | 2% | 975.21 | 980.12 | 985.04 | 989.95 | 994.72 | 999.73 | 1004.74 | 1009.75 |
| 18 | CULTURAL RESOURCE PRESERVATION | 2% | 890.09 | 894.58 | 899.06 | 903.54 | 907.89 | 912.47 | 917.04 | 921.61 |
| 19 | BUILDINGS, GROUNDS & UTILITIES | 5% | 890.09 | 894.58 | 899.06 | 903.54 | 907.89 | 912.47 | 917.04 | 921.61 |
| 20 | PERMANENT OPERATING EQUIPMENT | 2% | 890.09 | 894.58 | 899.06 | 903.54 | 907.89 | 912.47 | 917.04 | 921.61 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | | 100% | 910.07 | 914.65 | 919.24 | 923.82 | 928.27 | 932.95 | 937.62 | 942.30 |

Note: FY* indicates data developed based on OMB projection

[1st QTR = 2 OCT THRU 31 DEC/ 1 JAN] [2nd QTR = 2 JAN THRU 31 MAR/ 1 APR] [3rd QTR = 2 APR THRU 30 JUN/ 1 JUL] [4th QTR = 2 JUL THRU 30 SEPT/ 1 OCT]

TABLE A-1, QUARTERLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| | | 1Q24* | 2Q24* | 3Q24* | 4Q24* | 1Q25* | 2Q25* | 3Q25* | 4Q25* | |
|---|---|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 02 | RELOCATIONS | 5% | 971.31 | 976.21 | 981.10 | 985.99 | 990.74 | 995.73 | 1000.72 | 1005.71 |
| 03 | RESERVOIRS | 5% | 1078.94 | 1084.38 | 1089.81 | 1095.25 | 1100.52 | 1106.06 | 1111.61 | 1117.15 |
| 04 | DAMS | 15% | 951.48 | 956.27 | 961.07 | 965.86 | 970.51 | 975.40 | 980.29 | 985.18 |
| 05 | LOCKS | 2% | 945.58 | 950.35 | 955.11 | 959.87 | 964.49 | 969.35 | 974.21 | 979.07 |
| 06 | FISH & WILDLIFE FACILITIES | 5% | 933.87 | 938.57 | 943.28 | 947.98 | 952.55 | 957.34 | 962.14 | 966.94 |
| 07 | POWER PLANT | 10% | 870.74 | 875.12 | 879.51 | 883.90 | 888.15 | 892.63 | 897.10 | 901.57 |
| 08 | ROADS, RAILROADS & BRIDGES | 10% | 971.31 | 976.21 | 981.10 | 985.99 | 990.74 | 995.73 | 1000.72 | 1005.71 |
| 09 | CHANNELS & CANALS | 3% | 1004.83 | 1009.89 | 1014.95 | 1020.01 | 1024.92 | 1030.09 | 1035.25 | 1040.41 |
| 10 | BREAKWATER & SEAWALLS | 5% | 964.03 | 968.88 | 973.74 | 978.60 | 983.31 | 988.26 | 993.22 | 998.17 |
| 11 | LEVEES & FLOODWALLS | 5% | 972.60 | 977.50 | 982.40 | 987.30 | 992.05 | 997.05 | 1002.04 | 1007.04 |
| 12 | NAVIGATION PORTS & HARBORS | 10% | 898.48 | 903.01 | 907.53 | 912.06 | 916.45 | 921.07 | 925.69 | 930.30 |
| 13 | PUMPING PLANT | 5% | 926.05 | 930.72 | 935.38 | 940.05 | 944.57 | 949.33 | 954.09 | 958.85 |
| 14 | RECREATION FACILITIES | 5% | 926.05 | 930.72 | 935.38 | 940.05 | 944.57 | 949.33 | 954.09 | 958.85 |
| 15 | FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 933.87 | 938.57 | 943.28 | 947.98 | 952.55 | 957.34 | 962.14 | 966.94 |
| 16 | BANK STABILIZATION | 2% | 1002.35 | 1007.40 | 1012.45 | 1017.50 | 1022.40 | 1027.55 | 1032.70 | 1037.85 |
| 17 | BEACH REPLENISHMENT | 2% | 1014.61 | 1019.72 | 1024.83 | 1029.94 | 1034.90 | 1040.12 | 1045.33 | 1050.54 |
| 18 | CULTURAL RESOURCE PRESERVATION | 2% | 926.05 | 930.72 | 935.38 | 940.05 | 944.57 | 949.33 | 954.09 | 958.85 |
| 19 | BUILDINGS, GROUNDS & UTILITIES | 5% | 926.05 | 930.72 | 935.38 | 940.05 | 944.57 | 949.33 | 954.09 | 958.85 |
| 20 | PERMANENT OPERATING EQUIPMENT | 2% | 926.05 | 930.72 | 935.38 | 940.05 | 944.57 | 949.33 | 954.09 | 958.85 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | | 100% | 946.84 | 951.61 | 956.38 | 961.15 | 965.77 | 970.64 | 975.50 | 980.37 |

Note: FY* indicates data developed based on OMB projection

[1st QTR = 2 OCT THRU 31 DEC/ 1 JAN] [2nd QTR = 2 JAN THRU 31 MAR/ 1 APR] [3rd QTR = 2 APR THRU 30 JUN/ 1 JUL] [4th QTR = 2 JUL THRU 30 SEPT/ 1 OCT]

Amendment #9, 30 Sep 16
EM 1110-2-1304 (31 Mar 12)

TABLE A-1, QUARTERLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| | | 1Q26* | 2Q26* | 3Q26* | 4Q26* | 1Q27* | 2Q27* | 3Q27* | 4Q27* | |
|---|---|-------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|
| 02 | RELOCATIONS | 5% | 1010.55 | 1015.65 | 1020.74 | 1025.83 | 1030.77 | 1035.96 | 1041.15 | 1046.34 |
| 03 | RESERVOIRS | 5% | 1122.53 | 1128.19 | 1133.84 | 1139.50 | 1144.98 | 1150.75 | 1156.52 | 1162.29 |
| 04 | DAMS | 15% | 989.92 | 994.91 | 999.89 | 1004.88 | 1009.72 | 1014.81 | 1019.89 | 1024.98 |
| 05 | LOCKS | 2% | 983.78 | 988.74 | 993.70 | 998.65 | 1003.46 | 1008.52 | 1013.57 | 1018.63 |
| 06 | FISH & WILDLIFE FACILITIES | 5% | 971.60 | 976.49 | 981.39 | 986.28 | 991.03 | 996.02 | 1001.01 | 1006.01 |
| 07 | POWER PLANT | 10% | 905.91 | 910.48 | 915.04 | 919.61 | 924.03 | 928.69 | 933.34 | 938.00 |
| 08 | ROADS, RAILROADS & BRIDGES | 10% | 1010.55 | 1015.65 | 1020.74 | 1025.83 | 1030.77 | 1035.96 | 1041.15 | 1046.34 |
| 09 | CHANNELS & CANALS | 3% | 1045.42 | 1050.69 | 1055.95 | 1061.22 | 1066.33 | 1071.70 | 1077.07 | 1082.45 |
| 10 | BREAKWATER & SEAWALLS | 5% | 1002.97 | 1008.03 | 1013.08 | 1018.13 | 1023.03 | 1028.19 | 1033.34 | 1038.50 |
| 11 | LEVEES & FLOODWALLS | 5% | 1011.89 | 1016.99 | 1022.09 | 1027.18 | 1032.13 | 1037.33 | 1042.53 | 1047.73 |
| 12 | NAVIGATION PORTS & HARBORS | 10% | 934.78 | 939.49 | 944.20 | 948.91 | 953.48 | 958.28 | 963.08 | 967.89 |
| 13 | PUMPING PLANT | 5% | 963.46 | 968.32 | 973.17 | 978.02 | 982.73 | 987.68 | 992.63 | 997.59 |
| 14 | RECREATION FACILITIES | 5% | 963.46 | 968.32 | 973.17 | 978.02 | 982.73 | 987.68 | 992.63 | 997.59 |
| 15 | FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 971.60 | 976.49 | 981.39 | 986.28 | 991.03 | 996.02 | 1001.01 | 1006.01 |
| 16 | BANK STABILIZATION | 2% | 1042.85 | 1048.10 | 1053.35 | 1058.61 | 1063.70 | 1069.06 | 1074.42 | 1079.78 |
| 17 | BEACH REPLENISHMENT | 2% | 1055.60 | 1060.92 | 1066.24 | 1071.55 | 1076.71 | 1082.14 | 1087.56 | 1092.98 |
| 18 | CULTURAL RESOURCE PRESERVATION | 2% | 963.46 | 968.32 | 973.17 | 978.02 | 982.73 | 987.68 | 992.63 | 997.59 |
| 19 | BUILDINGS, GROUNDS & UTILITIES | 5% | 963.46 | 968.32 | 973.17 | 978.02 | 982.73 | 987.68 | 992.63 | 997.59 |
| 20 | PERMANENT OPERATING EQUIPMENT | 2% | 963.46 | 968.32 | 973.17 | 978.02 | 982.73 | 987.68 | 992.63 | 997.59 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | | 100% | 985.09 | 990.05 | 995.01 | 999.98 | 1004.79 | 1009.85 | 1014.91 | 1019.98 |

Note: FY* indicates data developed based on OMB projection

[1st QTR = 2 OCT THRU 31 DEC/1 JAN] [2nd QTR = 2 JAN THRU 31 MAR/ 1 APR] [3rd QTR = 2 APR THRU 30 JUN/ 1 JUL] [4th QTR = 2 JUL THRU 30 SEPT/ 1 OCT]

TABLE A-1, QUARTERLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| | | 1Q28* | 2Q28* | 3Q28* | 4Q28* | 1Q29* | 2Q29* | 3Q29* | 4Q29* | |
|---|---|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 02 | RELOCATIONS | 5% | 1051.38 | 1056.68 | 1061.97 | 1067.27 | 1072.41 | 1077.81 | 1083.21 | 1088.62 |
| 03 | RESERVOIRS | 5% | 1167.88 | 1173.76 | 1179.65 | 1185.53 | 1191.24 | 1197.24 | 1203.24 | 1209.24 |
| 04 | DAMS | 15% | 1029.91 | 1035.10 | 1040.29 | 1045.48 | 1050.51 | 1055.80 | 1061.10 | 1066.39 |
| 05 | LOCKS | 2% | 1023.53 | 1028.69 | 1033.84 | 1039.00 | 1044.00 | 1049.26 | 1054.52 | 1059.78 |
| 06 | FISH & WILDLIFE FACILITIES | 5% | 1010.85 | 1015.94 | 1021.03 | 1026.13 | 1031.07 | 1036.26 | 1041.45 | 1046.65 |
| 07 | POWER PLANT | 10% | 942.51 | 947.26 | 952.01 | 956.76 | 961.36 | 966.21 | 971.05 | 975.89 |
| 08 | ROADS, RAILROADS & BRIDGES | 10% | 1051.38 | 1056.68 | 1061.97 | 1067.27 | 1072.41 | 1077.81 | 1083.21 | 1088.62 |
| 09 | CHANNELS & CANALS | 3% | 1087.66 | 1093.14 | 1098.62 | 1104.09 | 1109.41 | 1115.00 | 1120.59 | 1126.18 |
| 10 | BREAKWATER & SEAWALLS | 5% | 1043.49 | 1048.75 | 1054.01 | 1059.27 | 1064.36 | 1069.73 | 1075.09 | 1080.45 |
| 11 | LEVEES & FLOODWALLS | 5% | 1052.77 | 1058.07 | 1063.38 | 1068.68 | 1073.83 | 1079.24 | 1084.65 | 1090.05 |
| 12 | NAVIGATION PORTS & HARBORS | 10% | 972.55 | 977.45 | 982.34 | 987.24 | 992.00 | 996.99 | 1001.99 | 1006.99 |
| 13 | PUMPING PLANT | 5% | 1002.39 | 1007.44 | 1012.49 | 1017.54 | 1022.44 | 1027.59 | 1032.74 | 1037.89 |
| 14 | RECREATION FACILITIES | 5% | 1002.39 | 1007.44 | 1012.49 | 1017.54 | 1022.44 | 1027.59 | 1032.74 | 1037.89 |
| 15 | FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 1010.85 | 1015.94 | 1021.03 | 1026.13 | 1031.07 | 1036.26 | 1041.45 | 1046.65 |
| 16 | BANK STABILIZATION | 2% | 1084.98 | 1090.44 | 1095.91 | 1101.38 | 1106.68 | 1112.25 | 1117.83 | 1123.40 |
| 17 | BEACH REPLENISHMENT | 2% | 1098.25 | 1103.78 | 1109.31 | 1114.84 | 1120.21 | 1125.85 | 1131.50 | 1137.14 |
| 18 | CULTURAL RESOURCE PRESERVATION | 2% | 1002.39 | 1007.44 | 1012.49 | 1017.54 | 1022.44 | 1027.59 | 1032.74 | 1037.89 |
| 19 | BUILDINGS, GROUNDS & UTILITIES | 5% | 1002.39 | 1007.44 | 1012.49 | 1017.54 | 1022.44 | 1027.59 | 1032.74 | 1037.89 |
| 20 | PERMANENT OPERATING EQUIPMENT | 2% | 1002.39 | 1007.44 | 1012.49 | 1017.54 | 1022.44 | 1027.59 | 1032.74 | 1037.89 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | | 100% | 1024.89 | 1030.05 | 1035.21 | 1040.37 | 1045.38 | 1050.65 | 1055.92 | 1061.18 |

Note: FY* indicates data developed based on OMB projection

[1st QTR = 2 OCT THRU 31 DEC/1 JAN] [2nd QTR = 2 JAN THRU 31 MAR/ 1 APR] [3rd QTR = 2 APR THRU 30 JUN/ 1 JUL] [4th QTR = 2 JUL THRU 30 SEPT/ 1 OCT]

Amendment #9, 30 Sep 16
EM 1110-2-1304 (31 Mar 12)

TABLE A-1, QUARTERLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| | | 1Q30* | 2Q30* | 3Q30* | 4Q30* | 1Q31* | 2Q31* | 3Q31* | 4Q31* | |
|---|---|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 02 | RELOCATIONS | 5% | 1093.86 | 1099.37 | 1104.88 | 1110.39 | 1115.73 | 1121.35 | 1126.98 | 1132.60 |
| 03 | RESERVOIRS | 5% | 1215.06 | 1221.18 | 1227.31 | 1233.43 | 1239.36 | 1245.61 | 1251.85 | 1258.10 |
| 04 | DAMS | 15% | 1071.52 | 1076.92 | 1082.32 | 1087.72 | 1092.95 | 1098.46 | 1103.96 | 1109.47 |
| 05 | LOCKS | 2% | 1064.88 | 1070.24 | 1075.61 | 1080.97 | 1086.18 | 1091.65 | 1097.12 | 1102.59 |
| 06 | FISH & WILDLIFE FACILITIES | 5% | 1051.69 | 1056.99 | 1062.28 | 1067.58 | 1072.72 | 1078.13 | 1083.53 | 1088.93 |
| 07 | POWER PLANT | 10% | 980.59 | 985.53 | 990.47 | 995.41 | 1000.20 | 1005.24 | 1010.28 | 1015.32 |
| 08 | ROADS, RAILROADS & BRIDGES | 10% | 1093.86 | 1099.37 | 1104.88 | 1110.39 | 1115.73 | 1121.35 | 1126.98 | 1132.60 |
| 09 | CHANNELS & CANALS | 3% | 1131.60 | 1137.30 | 1143.00 | 1148.70 | 1154.23 | 1160.04 | 1165.86 | 1171.67 |
| 10 | BREAKWATER & SEAWALLS | 5% | 1085.65 | 1091.12 | 1096.59 | 1102.06 | 1107.37 | 1112.94 | 1118.52 | 1124.10 |
| 11 | LEVEES & FLOODWALLS | 5% | 1095.30 | 1100.82 | 1106.34 | 1111.86 | 1117.21 | 1122.84 | 1128.46 | 1134.09 |
| 12 | NAVIGATION PORTS & HARBORS | 10% | 1011.84 | 1016.93 | 1022.03 | 1027.13 | 1032.07 | 1037.27 | 1042.47 | 1047.67 |
| 13 | PUMPING PLANT | 5% | 1042.88 | 1048.14 | 1053.39 | 1058.65 | 1063.74 | 1069.10 | 1074.46 | 1079.82 |
| 14 | RECREATION FACILITIES | 5% | 1042.88 | 1048.14 | 1053.39 | 1058.65 | 1063.74 | 1069.10 | 1074.46 | 1079.82 |
| 15 | FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 1051.69 | 1056.99 | 1062.28 | 1067.58 | 1072.72 | 1078.13 | 1083.53 | 1088.93 |
| 16 | BANK STABILIZATION | 2% | 1128.81 | 1134.50 | 1140.18 | 1145.87 | 1151.39 | 1157.19 | 1162.99 | 1168.79 |
| 17 | BEACH REPLENISHMENT | 2% | 1142.62 | 1148.37 | 1154.13 | 1159.88 | 1165.47 | 1171.34 | 1177.21 | 1183.08 |
| 18 | CULTURAL RESOURCE PRESERVATION | 2% | 1042.88 | 1048.14 | 1053.39 | 1058.65 | 1063.74 | 1069.10 | 1074.46 | 1079.82 |
| 19 | BUILDINGS, GROUNDS & UTILITIES | 5% | 1042.88 | 1048.14 | 1053.39 | 1058.65 | 1063.74 | 1069.10 | 1074.46 | 1079.82 |
| 20 | PERMANENT OPERATING EQUIPMENT | 2% | 1042.88 | 1048.14 | 1053.39 | 1058.65 | 1063.74 | 1069.10 | 1074.46 | 1079.82 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | | 100% | 1066.29 | 1071.66 | 1077.03 | 1082.41 | 1087.62 | 1093.10 | 1098.57 | 1104.05 |

Note: FY* indicates data developed based on OMB projection

[1st QTR = 2 OCT THRU 31 DEC/ 1 JAN] [2nd QTR = 2 JAN THRU 31 MAR/ 1 APR] [3rd QTR = 2 APR THRU 30 JUN/ 1 JUL] [4th QTR = 2 JUL THRU 30 SEPT/ 1 OCT]

TABLE A-1, QUARTERLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| | | 1Q32* | 2Q32* | 3Q32* | 4Q32* | 1Q33* | 2Q33* | 3Q33* | 4Q33* | |
|---|---|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 02 | RELOCATIONS | 5% | 1138.05 | 1143.78 | 1149.52 | 1155.25 | 1160.81 | 1166.66 | 1172.51 | 1178.35 |
| 03 | RESERVOIRS | 5% | 1264.15 | 1270.52 | 1276.89 | 1283.26 | 1289.44 | 1295.93 | 1302.43 | 1308.92 |
| 04 | DAMS | 15% | 1114.81 | 1120.43 | 1126.04 | 1131.66 | 1137.11 | 1142.84 | 1148.56 | 1154.29 |
| 05 | LOCKS | 2% | 1107.90 | 1113.48 | 1119.06 | 1124.65 | 1130.06 | 1135.75 | 1141.45 | 1147.14 |
| 06 | FISH & WILDLIFE FACILITIES | 5% | 1094.18 | 1099.69 | 1105.20 | 1110.71 | 1116.06 | 1121.68 | 1127.30 | 1132.93 |
| 07 | POWER PLANT | 10% | 1020.21 | 1025.35 | 1030.49 | 1035.63 | 1040.61 | 1045.85 | 1051.10 | 1056.34 |
| 08 | ROADS, RAILROADS & BRIDGES | 10% | 1138.05 | 1143.78 | 1149.52 | 1155.25 | 1160.81 | 1166.66 | 1172.51 | 1178.35 |
| 09 | CHANNELS & CANALS | 3% | 1177.31 | 1183.25 | 1189.18 | 1195.11 | 1200.86 | 1206.91 | 1212.96 | 1219.01 |
| 10 | BREAKWATER & SEAWALLS | 5% | 1129.51 | 1135.20 | 1140.89 | 1146.58 | 1152.10 | 1157.91 | 1163.71 | 1169.51 |
| 11 | LEVEES & FLOODWALLS | 5% | 1139.55 | 1145.29 | 1151.03 | 1156.77 | 1162.34 | 1168.20 | 1174.05 | 1179.91 |
| 12 | NAVIGATION PORTS & HARBORS | 10% | 1052.71 | 1058.02 | 1063.32 | 1068.62 | 1073.77 | 1079.18 | 1084.59 | 1090.00 |
| 13 | PUMPING PLANT | 5% | 1085.02 | 1090.48 | 1095.95 | 1101.41 | 1106.72 | 1112.29 | 1117.87 | 1123.44 |
| 14 | RECREATION FACILITIES | 5% | 1085.02 | 1090.48 | 1095.95 | 1101.41 | 1106.72 | 1112.29 | 1117.87 | 1123.44 |
| 15 | FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 1094.18 | 1099.69 | 1105.20 | 1110.71 | 1116.06 | 1121.68 | 1127.30 | 1132.93 |
| 16 | BANK STABILIZATION | 2% | 1174.41 | 1180.33 | 1186.25 | 1192.16 | 1197.90 | 1203.94 | 1209.97 | 1216.01 |
| 17 | BEACH REPLENISHMENT | 2% | 1188.78 | 1194.77 | 1200.75 | 1206.74 | 1212.55 | 1218.66 | 1224.77 | 1230.88 |
| 18 | CULTURAL RESOURCE PRESERVATION | 2% | 1085.02 | 1090.48 | 1095.95 | 1101.41 | 1106.72 | 1112.29 | 1117.87 | 1123.44 |
| 19 | BUILDINGS, GROUNDS & UTILITIES | 5% | 1085.02 | 1090.48 | 1095.95 | 1101.41 | 1106.72 | 1112.29 | 1117.87 | 1123.44 |
| 20 | PERMANENT OPERATING EQUIPMENT | 2% | 1085.02 | 1090.48 | 1095.95 | 1101.41 | 1106.72 | 1112.29 | 1117.87 | 1123.44 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | | 100% | 1109.37 | 1114.96 | 1120.55 | 1126.14 | 1131.56 | 1137.26 | 1142.96 | 1148.66 |

Note: FY* indicates data developed based on OMB projection

[1st QTR = 2 OCT THRU 31 DEC/1 JAN] [2nd QTR = 2 JAN THRU 31 MAR/1 APR] [3rd QTR = 2 APR THRU 30 JUN/1 JUL] [4th QTR = 2 JUL THRU 30 SEPT/1 OCT]

Amendment #9, 30 Sep 16
EM 1110-2-1304 (31 Mar 12)

TABLE A-1, QUARTERLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| | | 1Q34* | 2Q34* | 3Q34* | 4Q34* | 1Q35* | 2Q35* | 3Q35* | 4Q35* | |
|---|---|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 02 | RELOCATIONS | 5% | 1184.03 | 1189.99 | 1195.96 | 1201.92 | 1207.71 | 1213.79 | 1219.87 | 1225.96 |
| 03 | RESERVOIRS | 5% | 1315.22 | 1321.85 | 1328.48 | 1335.10 | 1341.53 | 1348.29 | 1355.05 | 1361.80 |
| 04 | DAMS | 15% | 1159.85 | 1165.69 | 1171.54 | 1177.38 | 1183.05 | 1189.01 | 1194.97 | 1200.93 |
| 05 | LOCKS | 2% | 1152.66 | 1158.47 | 1164.27 | 1170.08 | 1175.71 | 1181.64 | 1187.56 | 1193.48 |
| 06 | FISH & WILDLIFE FACILITIES | 5% | 1138.38 | 1144.12 | 1149.85 | 1155.59 | 1161.15 | 1167.00 | 1172.85 | 1178.70 |
| 07 | POWER PLANT | 10% | 1061.42 | 1066.77 | 1072.12 | 1077.46 | 1082.65 | 1088.11 | 1093.56 | 1099.01 |
| 08 | ROADS, RAILROADS & BRIDGES | 10% | 1184.03 | 1189.99 | 1195.96 | 1201.92 | 1207.71 | 1213.79 | 1219.87 | 1225.96 |
| 09 | CHANNELS & CANALS | 3% | 1224.88 | 1231.05 | 1237.22 | 1243.39 | 1249.38 | 1255.67 | 1261.96 | 1268.26 |
| 10 | BREAKWATER & SEAWALLS | 5% | 1175.14 | 1181.06 | 1186.99 | 1192.91 | 1198.65 | 1204.69 | 1210.72 | 1216.76 |
| 11 | LEVEES & FLOODWALLS | 5% | 1185.59 | 1191.56 | 1197.54 | 1203.51 | 1209.30 | 1215.39 | 1221.49 | 1227.58 |
| 12 | NAVIGATION PORTS & HARBORS | 10% | 1095.24 | 1100.76 | 1106.28 | 1111.80 | 1117.15 | 1122.78 | 1128.41 | 1134.03 |
| 13 | PUMPING PLANT | 5% | 1128.85 | 1134.54 | 1140.22 | 1145.91 | 1151.43 | 1157.23 | 1163.03 | 1168.83 |
| 14 | RECREATION FACILITIES | 5% | 1128.85 | 1134.54 | 1140.22 | 1145.91 | 1151.43 | 1157.23 | 1163.03 | 1168.83 |
| 15 | FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 1138.38 | 1144.12 | 1149.85 | 1155.59 | 1161.15 | 1167.00 | 1172.85 | 1178.70 |
| 16 | BANK STABILIZATION | 2% | 1221.86 | 1228.02 | 1234.17 | 1240.33 | 1246.30 | 1252.58 | 1258.86 | 1265.13 |
| 17 | BEACH REPLENISHMENT | 2% | 1236.80 | 1243.03 | 1249.27 | 1255.50 | 1261.54 | 1267.90 | 1274.25 | 1280.61 |
| 18 | CULTURAL RESOURCE PRESERVATION | 2% | 1128.85 | 1134.54 | 1140.22 | 1145.91 | 1151.43 | 1157.23 | 1163.03 | 1168.83 |
| 19 | BUILDINGS, GROUNDS & UTILITIES | 5% | 1128.85 | 1134.54 | 1140.22 | 1145.91 | 1151.43 | 1157.23 | 1163.03 | 1168.83 |
| 20 | PERMANENT OPERATING EQUIPMENT | 2% | 1128.85 | 1134.54 | 1140.22 | 1145.91 | 1151.43 | 1157.23 | 1163.03 | 1168.83 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | | 100% | 1154.19 | 1160.00 | 1165.82 | 1171.63 | 1177.27 | 1183.20 | 1189.13 | 1195.06 |

Note: FY* indicates data developed based on OMB projection

[1st QTR = 2 OCT THRU 31 DEC/ 1 JAN] [2nd QTR = 2 JAN THRU 31 MAR/ 1 APR] [3rd QTR = 2 APR THRU 30 JUN/ 1 JUL] [4th QTR = 2 JUL THRU 30 SEPT/ 1 OCT]

TABLE A-1, QUARTERLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| | | 1Q36* | 2Q36* | 3Q36* | 4Q36* | 1Q37* | 2Q37* | 3Q37* | 4Q37* | |
|---|---|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 02 | RELOCATIONS | 5% | 1231.86 | 1238.07 | 1244.27 | 1250.48 | 1256.50 | 1262.83 | 1269.16 | 1275.49 |
| 03 | RESERVOIRS | 5% | 1368.36 | 1375.25 | 1382.15 | 1389.04 | 1395.73 | 1402.76 | 1409.79 | 1416.82 |
| 04 | DAMS | 15% | 1206.71 | 1212.79 | 1218.87 | 1224.95 | 1230.84 | 1237.04 | 1243.24 | 1249.44 |
| 05 | LOCKS | 2% | 1199.23 | 1205.27 | 1211.31 | 1217.35 | 1223.21 | 1229.37 | 1235.54 | 1241.70 |
| 06 | FISH & WILDLIFE FACILITIES | 5% | 1184.37 | 1190.34 | 1196.30 | 1202.27 | 1208.06 | 1214.14 | 1220.23 | 1226.32 |
| 07 | POWER PLANT | 10% | 1104.30 | 1109.87 | 1115.43 | 1120.99 | 1126.39 | 1132.07 | 1137.74 | 1143.41 |
| 08 | ROADS, RAILROADS & BRIDGES | 10% | 1231.86 | 1238.07 | 1244.27 | 1250.48 | 1256.50 | 1262.83 | 1269.16 | 1275.49 |
| 09 | CHANNELS & CANALS | 3% | 1274.36 | 1280.78 | 1287.20 | 1293.62 | 1299.85 | 1306.40 | 1312.95 | 1319.50 |
| 10 | BREAKWATER & SEAWALLS | 5% | 1222.62 | 1228.78 | 1234.94 | 1241.10 | 1247.07 | 1253.36 | 1259.64 | 1265.92 |
| 11 | LEVEES & FLOODWALLS | 5% | 1233.49 | 1239.70 | 1245.92 | 1252.13 | 1258.16 | 1264.50 | 1270.83 | 1277.17 |
| 12 | NAVIGATION PORTS & HARBORS | 10% | 1139.49 | 1145.23 | 1150.97 | 1156.71 | 1162.28 | 1168.14 | 1173.99 | 1179.85 |
| 13 | PUMPING PLANT | 5% | 1174.46 | 1180.37 | 1186.29 | 1192.21 | 1197.95 | 1203.98 | 1210.02 | 1216.05 |
| 14 | RECREATION FACILITIES | 5% | 1174.46 | 1180.37 | 1186.29 | 1192.21 | 1197.95 | 1203.98 | 1210.02 | 1216.05 |
| 15 | FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 1184.37 | 1190.34 | 1196.30 | 1202.27 | 1208.06 | 1214.14 | 1220.23 | 1226.32 |
| 16 | BANK STABILIZATION | 2% | 1271.22 | 1277.63 | 1284.03 | 1290.44 | 1296.65 | 1303.18 | 1309.71 | 1316.25 |
| 17 | BEACH REPLENISHMENT | 2% | 1286.77 | 1293.25 | 1299.74 | 1306.22 | 1312.51 | 1319.12 | 1325.73 | 1332.34 |
| 18 | CULTURAL RESOURCE PRESERVATION | 2% | 1174.46 | 1180.37 | 1186.29 | 1192.21 | 1197.95 | 1203.98 | 1210.02 | 1216.05 |
| 19 | BUILDINGS, GROUNDS & UTILITIES | 5% | 1174.46 | 1180.37 | 1186.29 | 1192.21 | 1197.95 | 1203.98 | 1210.02 | 1216.05 |
| 20 | PERMANENT OPERATING EQUIPMENT | 2% | 1174.46 | 1180.37 | 1186.29 | 1192.21 | 1197.95 | 1203.98 | 1210.02 | 1216.05 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | | 100% | 1200.82 | 1206.87 | 1212.92 | 1218.96 | 1224.83 | 1231.00 | 1237.17 | 1243.34 |

Note: FY* indicates data developed based on OMB projection

[1st QTR = 2 OCT THRU 31 DEC/ 1 JAN] [2nd QTR = 2 JAN THRU 31 MAR/ 1 APR] [3rd QTR = 2 APR THRU 30 JUN/ 1 JUL] [4th QTR = 2 JUL THRU 30 SEPT/ 1 OCT]

Amendment #9, 30 Sep 16
EM 1110-2-1304 (31 Mar 12)

TABLE A-2, YEARLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| CWBS - FEATURE CODES | Wt % | FY68 | FY69 | FY70 | FY71 | FY72 | FY73 | FY74 | FY75 | FY76 | FY77 |
|--|------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | Oct 67 - Sep 68 | Oct 68 - Sep 69 | Oct 69 - Sep 70 | Oct 70 - Sep 71 | Oct 71 - Sep 72 | Oct 72 - Sep 73 | Oct 73 - Sep 74 | Oct 74 - Sep 75 | Oct 75 - Sep 76 | Oct 76 - Sep 77 |
| 02 RELOCATIONS | 5% | 105.52 | 112.79 | 118.78 | 134.70 | 146.50 | 153.85 | 167.31 | 193.03 | 206.77 | 218.70 |
| 03 RESERVOIRS | 5% | 104.95 | 115.82 | 126.39 | 146.60 | 161.77 | 167.43 | 175.64 | 201.34 | 215.69 | 226.15 |
| 04 DAMS | 15% | 104.99 | 112.21 | 121.16 | 132.02 | 142.58 | 149.41 | 165.26 | 186.45 | 203.20 | 214.55 |
| 05 LOCKS | 2% | 104.91 | 111.93 | 119.92 | 132.69 | 143.03 | 150.04 | 167.12 | 190.30 | 201.75 | 213.78 |
| 06 FISH & WILDLIFE FACILITIES | 5% | 104.72 | 112.28 | 120.22 | 132.70 | 143.52 | 150.83 | 171.27 | 193.50 | 205.30 | 216.70 |
| 07 POWER PLANT | 10% | 104.79 | 111.26 | 119.72 | 128.54 | 135.78 | 141.26 | 159.74 | 185.20 | 194.61 | 206.65 |
| 08 ROADS, RAILROADS & BRIDGES | 10% | 105.52 | 112.79 | 118.78 | 134.70 | 146.50 | 153.85 | 167.31 | 193.03 | 206.77 | 218.70 |
| 09 CHANNELS & CANALS | 3% | 105.43 | 112.16 | 120.51 | 132.28 | 141.12 | 146.21 | 161.64 | 186.46 | 202.12 | 212.28 |
| 10 BREAKWATER & SEAWALLS | 5% | 104.83 | 111.42 | 118.88 | 127.05 | 136.29 | 141.06 | 158.76 | 188.03 | 201.26 | 213.56 |
| 11 LEVEES & FLOODWALLS | 5% | 105.31 | 112.16 | 120.69 | 132.30 | 143.87 | 149.31 | 166.79 | 190.35 | 204.98 | 216.62 |
| 12 NAVIGATION PORTS & HARBORS | 10% | 104.36 | 109.78 | 116.39 | 127.54 | 135.81 | 143.73 | 162.24 | 189.32 | 204.99 | 220.93 |
| 13 PUMPING PLANT | 5% | 104.83 | 112.17 | 119.75 | 131.73 | 141.94 | 149.36 | 170.45 | 190.49 | 202.61 | 215.84 |
| 14 RECREATION FACILITIES | 5% | 104.83 | 112.17 | 119.75 | 131.73 | 141.94 | 149.36 | 170.45 | 190.49 | 202.61 | 215.84 |
| 15 FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 104.72 | 112.28 | 120.22 | 132.70 | 143.52 | 150.83 | 171.27 | 193.50 | 205.30 | 216.70 |
| 16 BANK STABILIZATION | 2% | 105.08 | 111.41 | 118.87 | 128.79 | 138.40 | 143.26 | 160.28 | 176.63 | 190.48 | 200.18 |
| 17 BEACH REPLENISHMENT | 2% | 106.12 | 113.34 | 123.12 | 136.97 | 149.55 | 154.85 | 167.00 | 188.41 | 204.97 | 214.59 |
| 18 CULTURAL RESOURCE PRESERVATION | 2% | 104.83 | 112.17 | 119.75 | 131.73 | 141.94 | 149.36 | 170.45 | 190.49 | 202.61 | 215.84 |
| 19 BUILDINGS, GROUNDS & UTILITIES | 5% | 104.83 | 112.17 | 119.75 | 131.73 | 141.94 | 149.36 | 170.45 | 190.49 | 202.61 | 215.84 |
| 20 PERMANENT OPERATING EQUIPMENT | 2% | 104.83 | 112.17 | 119.75 | 131.73 | 141.94 | 149.36 | 170.45 | 190.49 | 202.61 | 215.84 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | 100% | 104.98 | 112.09 | 119.92 | 132.17 | 142.49 | 149.16 | 166.25 | 189.80 | 203.43 | 215.68 |
| YEARLY PERCENTAGE CHANGE | | | 6.8% | 7.0% | 10.2% | 7.8% | 4.7% | 11.5% | 14.2% | 7.2% | 6.0% |

Note: FY* indicates data developed based on OMB projections.

TABLE A-2, YEARLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| CWBS - FEATURE CODES | Wt % | FY78 | FY79 | FY80 | FY81 | FY82 | FY83 | FY84 | FY85 | FY86 | FY87 |
|--|------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | Oct 77 - Sep 78 | Oct 78 - Sep 79 | Oct 79 - Sep 80 | Oct 80 - Sep 81 | Oct 81 - Sep 82 | Oct 82 - Sep 83 | Oct 83 - Sep 84 | Oct 84 - Sep 85 | Oct 85 - Sep 86 | Oct 86 - Sep 87 |
| 02 RELOCATIONS | 5% | 239.50 | 260.37 | 280.18 | 306.16 | 327.40 | 340.86 | 349.51 | 355.43 | 358.36 | 366.32 |
| 03 RESERVOIRS | 5% | 243.39 | 261.77 | 285.56 | 315.28 | 346.62 | 365.07 | 375.29 | 381.95 | 386.61 | 394.55 |
| 04 DAMS | 15% | 234.29 | 254.47 | 277.12 | 302.42 | 323.67 | 334.76 | 344.25 | 350.47 | 352.94 | 358.99 |
| 05 LOCKS | 2% | 233.87 | 254.13 | 276.11 | 301.87 | 323.21 | 334.84 | 343.82 | 348.28 | 350.35 | 356.84 |
| 06 FISH & WILDLIFE FACILITIES | 5% | 238.15 | 260.08 | 280.32 | 304.02 | 322.75 | 332.91 | 342.38 | 347.18 | 348.99 | 354.63 |
| 07 POWER PLANT | 10% | 222.75 | 241.68 | 266.35 | 294.48 | 314.76 | 324.11 | 333.16 | 337.53 | 341.85 | 348.65 |
| 08 ROADS, RAILROADS & BRIDGES | 10% | 239.50 | 260.37 | 280.18 | 306.16 | 327.40 | 340.86 | 349.51 | 355.43 | 358.36 | 366.32 |
| 09 CHANNELS & CANALS | 3% | 230.44 | 249.44 | 276.52 | 306.57 | 333.45 | 346.07 | 354.42 | 358.24 | 362.93 | 371.71 |
| 10 BREAKWATER & SEAWALLS | 5% | 232.34 | 252.07 | 280.18 | 311.09 | 336.64 | 347.98 | 355.31 | 361.66 | 366.25 | 374.63 |
| 11 LEVEES & FLOODWALLS | 5% | 235.94 | 256.08 | 280.75 | 308.97 | 333.68 | 346.21 | 354.99 | 359.69 | 362.50 | 370.28 |
| 12 NAVIGATION PORTS & HARBORS | 10% | 236.08 | 264.25 | 312.54 | 348.37 | 372.04 | 369.17 | 379.93 | 376.98 | 369.85 | 358.99 |
| 13 PUMPING PLANT | 5% | 235.78 | 257.20 | 277.60 | 302.25 | 320.13 | 330.82 | 341.06 | 346.12 | 347.33 | 353.35 |
| 14 RECREATION FACILITIES | 5% | 235.78 | 257.20 | 277.60 | 302.25 | 320.13 | 330.82 | 341.06 | 346.12 | 347.33 | 353.35 |
| 15 FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 238.15 | 260.08 | 280.32 | 304.02 | 322.75 | 332.91 | 342.38 | 347.18 | 348.99 | 354.63 |
| 16 BANK STABILIZATION | 2% | 217.80 | 236.77 | 262.55 | 290.13 | 312.93 | 324.76 | 333.55 | 342.96 | 349.49 | 358.71 |
| 17 BEACH REPLENISHMENT | 2% | 231.77 | 249.67 | 273.04 | 299.95 | 327.10 | 342.33 | 351.39 | 358.74 | 365.02 | 373.80 |
| 18 CULTURAL RESOURCE PRESERVATION | 2% | 235.78 | 257.20 | 277.60 | 302.25 | 320.13 | 330.82 | 341.06 | 346.12 | 347.33 | 353.35 |
| 19 BUILDINGS, GROUNDS & UTILITIES | 5% | 235.78 | 257.20 | 277.60 | 302.25 | 320.13 | 330.82 | 341.06 | 346.12 | 347.33 | 353.35 |
| 20 PERMANENT OPERATING EQUIPMENT | 2% | 235.78 | 257.20 | 277.60 | 302.25 | 320.13 | 330.82 | 341.06 | 346.12 | 347.33 | 353.35 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | 100% | 234.58 | 255.68 | 280.71 | 308.09 | 329.87 | 340.21 | 349.63 | 354.31 | 356.24 | 361.43 |
| YEARLY PERCENTAGE CHANGE | | 8.8% | 9.0% | 9.8% | 9.8% | 7.1% | 3.1% | 2.8% | 1.3% | 0.5% | 1.5% |

Note: FY* indicates data developed based on OMB projections.

Amendment #9, 30 Sep 16
EM 1110-2-1304 (31 Mar 12)

TABLE A-2, YEARLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| CWBS - FEATURE CODES | Wt % | FY88 | FY89 | FY90 | FY91 | FY92 | FY93 | FY94 | FY95 | FY96 | FY97 |
|--|------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | Oct 87 - Sep 88 | Oct 88 - Sep 89 | Oct 89 - Sep 90 | Oct 90 - Sep 91 | Oct 91 - Sep 92 | Oct 92 - Sep 93 | Oct 93 - Sep 94 | Oct 94 - Sep 95 | Oct 95 - Sep 96 | Oct 96 - Sep 97 |
| 02 RELOCATIONS | 5% | 380.42 | 394.57 | 402.95 | 411.27 | 422.37 | 440.44 | 454.26 | 463.84 | 473.27 | 486.24 |
| 03 RESERVOIRS | 5% | 407.44 | 420.33 | 435.31 | 447.08 | 457.13 | 467.07 | 477.72 | 490.54 | 502.77 | 511.08 |
| 04 DAMS | 15% | 371.82 | 385.00 | 393.91 | 402.98 | 410.31 | 422.71 | 435.37 | 450.08 | 460.21 | 470.29 |
| 05 LOCKS | 2% | 371.05 | 383.63 | 390.92 | 398.73 | 405.85 | 418.00 | 430.98 | 445.65 | 454.94 | 464.50 |
| 06 FISH & WILDLIFE FACILITIES | 5% | 367.96 | 379.94 | 386.38 | 394.22 | 402.07 | 416.83 | 430.89 | 444.68 | 454.33 | 466.15 |
| 07 POWER PLANT | 10% | 360.93 | 376.54 | 387.78 | 398.99 | 406.50 | 416.04 | 425.62 | 438.32 | 445.08 | 451.66 |
| 08 ROADS, RAILROADS & BRIDGES | 10% | 380.42 | 394.57 | 402.95 | 411.27 | 422.37 | 440.44 | 454.26 | 463.84 | 473.27 | 486.24 |
| 09 CHANNELS & CANALS | 3% | 383.49 | 400.61 | 415.58 | 427.22 | 437.81 | 449.00 | 459.60 | 470.64 | 482.90 | 492.16 |
| 10 BREAKWATER & SEAWALLS | 5% | 385.55 | 405.23 | 422.20 | 435.04 | 446.15 | 457.62 | 467.96 | 478.33 | 490.36 | 499.73 |
| 11 LEVEES & FLOODWALLS | 5% | 384.15 | 400.02 | 410.71 | 419.99 | 429.95 | 441.84 | 453.83 | 467.41 | 477.68 | 486.21 |
| 12 NAVIGATION PORTS & HARBORS | 10% | 367.45 | 381.27 | 396.89 | 401.41 | 407.73 | 419.08 | 422.73 | 434.64 | 451.45 | 463.22 |
| 13 PUMPING PLANT | 5% | 369.45 | 383.14 | 386.75 | 392.35 | 399.07 | 410.63 | 424.91 | 439.72 | 445.58 | 454.99 |
| 14 RECREATION FACILITIES | 5% | 369.45 | 383.14 | 386.75 | 392.35 | 399.07 | 410.63 | 424.91 | 439.72 | 445.58 | 454.99 |
| 15 FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 367.96 | 379.94 | 386.38 | 394.22 | 402.07 | 416.83 | 430.89 | 444.68 | 454.33 | 466.15 |
| 16 BANK STABILIZATION | 2% | 368.75 | 380.82 | 392.20 | 402.54 | 412.09 | 423.49 | 433.89 | 446.05 | 457.20 | 465.43 |
| 17 BEACH REPLENISHMENT | 2% | 383.51 | 399.48 | 414.03 | 425.67 | 438.77 | 451.27 | 460.91 | 474.09 | 487.28 | 495.55 |
| 18 CULTURAL RESOURCE PRESERVATION | 2% | 369.45 | 383.14 | 386.75 | 392.35 | 399.07 | 410.63 | 424.91 | 439.72 | 445.58 | 454.99 |
| 19 BUILDINGS, GROUNDS & UTILITIES | 5% | 369.45 | 383.14 | 386.75 | 392.35 | 399.07 | 410.63 | 424.91 | 439.72 | 445.58 | 454.99 |
| 20 PERMANENT OPERATING EQUIPMENT | 2% | 369.45 | 383.14 | 386.75 | 392.35 | 399.07 | 410.63 | 424.91 | 439.72 | 445.58 | 454.99 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | 100% | 374.45 | 388.68 | 398.34 | 406.78 | 415.22 | 427.83 | 439.45 | 452.31 | 462.16 | 472.17 |
| YEARLY PERCENTAGE CHANGE | | 3.6% | 3.8% | 2.5% | 2.1% | 2.1% | 3.0% | 2.7% | 2.9% | 2.2% | 2.2% |

Note: FY* indicates data developed based on OMB projections.

TABLE A-2, YEARLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| CWBS - FEATURE CODES | Wt % | FY98 | FY99 | FY00 | FY01 | FY02 | FY03 | FY04 | FY05 | FY06 | FY07 |
|--|------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | Oct 97 - Sep 98 | Oct 98 - Sep 99 | Oct 99 - Sep 00 | Oct 00 - Sep 01 | Oct 01 - Sep 02 | Oct 02 - Sep 03 | Oct 03 - Sep 04 | Oct 04 - Sep 05 | Oct 05 - Sep 06 | Oct 06 - Sep 07 |
| 02 RELOCATIONS | 5% | 490.26 | 501.14 | 507.97 | 513.30 | 529.95 | 541.73 | 586.53 | 618.63 | 646.72 | 676.51 |
| 03 RESERVOIRS | 5% | 521.42 | 540.51 | 552.38 | 568.09 | 590.21 | 605.47 | 627.11 | 651.67 | 672.52 | 709.45 |
| 04 DAMS | 15% | 479.06 | 488.39 | 496.78 | 503.96 | 518.66 | 529.45 | 566.66 | 602.14 | 635.50 | 667.25 |
| 05 LOCKS | 2% | 472.47 | 480.10 | 488.88 | 495.43 | 510.94 | 522.49 | 564.93 | 601.85 | 635.39 | 669.57 |
| 06 FISH & WILDLIFE FACILITIES | 5% | 472.75 | 481.62 | 488.90 | 494.06 | 508.96 | 519.27 | 562.94 | 600.07 | 634.08 | 665.87 |
| 07 POWER PLANT | 10% | 458.96 | 465.38 | 472.73 | 479.63 | 490.08 | 498.28 | 528.07 | 557.14 | 588.85 | 621.06 |
| 08 ROADS, RAILROADS & BRIDGES | 10% | 490.26 | 501.14 | 507.97 | 513.30 | 529.95 | 541.73 | 586.53 | 618.63 | 646.72 | 676.51 |
| 09 CHANNELS & CANALS | 3% | 503.55 | 516.11 | 526.72 | 536.03 | 552.56 | 565.40 | 584.38 | 612.13 | 641.81 | 667.91 |
| 10 BREAKWATER & SEAWALLS | 5% | 510.50 | 520.83 | 527.86 | 534.68 | 550.06 | 563.81 | 583.43 | 613.04 | 641.15 | 662.61 |
| 11 LEVEES & FLOODWALLS | 5% | 495.99 | 503.35 | 512.62 | 518.66 | 535.78 | 549.87 | 587.00 | 621.88 | 655.37 | 685.57 |
| 12 NAVIGATION PORTS & HARBORS | 10% | 457.55 | 465.45 | 500.23 | 504.84 | 506.25 | 526.58 | 569.50 | 632.53 | 674.39 | 702.23 |
| 13 PUMPING PLANT | 5% | 459.40 | 460.16 | 468.05 | 472.18 | 486.16 | 497.40 | 563.78 | 605.47 | 645.52 | 681.88 |
| 14 RECREATION FACILITIES | 5% | 459.40 | 460.16 | 468.05 | 472.18 | 486.16 | 497.40 | 563.78 | 605.47 | 645.52 | 681.88 |
| 15 FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 472.75 | 481.62 | 488.90 | 494.06 | 508.96 | 519.27 | 562.94 | 600.07 | 634.08 | 665.87 |
| 16 BANK STABILIZATION | 2% | 476.48 | 489.61 | 501.50 | 513.00 | 529.80 | 543.40 | 564.43 | 594.88 | 630.42 | 668.28 |
| 17 BEACH REPLENISHMENT | 2% | 507.09 | 521.89 | 532.71 | 543.21 | 567.10 | 584.67 | 601.88 | 630.27 | 659.93 | 689.40 |
| 18 CULTURAL RESOURCE PRESERVATION | 2% | 459.40 | 460.16 | 468.05 | 472.18 | 486.16 | 497.40 | 563.78 | 605.47 | 645.52 | 681.88 |
| 19 BUILDINGS, GROUNDS & UTILITIES | 5% | 459.40 | 460.16 | 468.05 | 472.18 | 486.16 | 497.40 | 563.78 | 605.47 | 645.52 | 681.88 |
| 20 PERMANENT OPERATING EQUIPMENT | 2% | 462.01 | 460.16 | 468.05 | 472.18 | 486.16 | 497.40 | 563.78 | 605.47 | 645.52 | 681.88 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | 100% | 478.10 | 486.21 | 497.07 | 503.52 | 517.46 | 529.95 | 571.29 | 608.36 | 641.91 | 673.52 |
| YEARLY PERCENTAGE CHANGE | | 1.3% | 1.7% | 2.2% | 1.3% | 2.8% | 2.4% | 7.8% | 6.5% | 5.5% | 4.9% |

Note: FY* indicates data developed based on OMB projections.

Amendment #9, 30 Sep 16
EM 1110-2-1304 (31 Mar 12)

TABLE A-2, YEARLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| CWBS - FEATURE CODES | Wt % | FY08 | FY09 | FY10 | FY11 | FY12 | FY13 | FY14 | FY15 | FY16* | FY17* |
|--|------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | Oct 07 - Sep 08 | Oct 08 - Sep 09 | Oct 09 - Sep 10 | Oct 10 - Sep 11 | Oct 11 - Sep 12 | Oct 12 - Sep 13 | Oct 13 - Sep 14 | Oct 14 - Sep 15 | Oct 15 - Sep 16 | Oct 16 - Sep 17 |
| 02 RELOCATIONS | 5% | 710.58 | 705.61 | 727.45 | 755.67 | 773.95 | 793.85 | 812.56 | 821.66 | 833.70 | 853.65 |
| 03 RESERVOIRS | 5% | 732.25 | 761.49 | 789.17 | 814.81 | 837.99 | 860.65 | 883.79 | 910.48 | 931.40 | 948.24 |
| 04 DAMS | 15% | 703.25 | 701.84 | 717.46 | 744.15 | 762.98 | 778.54 | 796.18 | 806.93 | 817.98 | 836.22 |
| 05 LOCKS | 2% | 710.71 | 701.51 | 719.50 | 748.95 | 763.91 | 776.25 | 794.63 | 802.89 | 811.89 | 831.04 |
| 06 FISH & WILDLIFE FACILITIES | 5% | 702.82 | 691.50 | 706.97 | 733.11 | 748.37 | 763.59 | 781.56 | 790.58 | 801.18 | 820.74 |
| 07 POWER PLANT | 10% | 658.09 | 660.94 | 679.02 | 703.04 | 716.75 | 726.90 | 740.45 | 744.76 | 749.05 | 765.26 |
| 08 ROADS, RAILROADS & BRIDGES | 10% | 710.58 | 705.61 | 727.45 | 755.67 | 773.95 | 793.85 | 812.56 | 821.66 | 833.70 | 853.65 |
| 09 CHANNELS & CANALS | 3% | 691.11 | 715.89 | 733.09 | 757.44 | 788.81 | 811.33 | 830.35 | 849.88 | 867.69 | 883.10 |
| 10 BREAKWATER & SEAWALLS | 5% | 684.51 | 708.72 | 718.92 | 742.55 | 765.73 | 788.06 | 804.41 | 821.37 | 833.69 | 847.25 |
| 11 LEVEES & FLOODWALLS | 5% | 722.13 | 718.30 | 737.97 | 769.26 | 788.89 | 803.44 | 820.60 | 828.51 | 836.41 | 854.78 |
| 12 NAVIGATION PORTS & HARBORS | 10% | 785.50 | 703.47 | 744.86 | 808.47 | 827.76 | 832.56 | 841.20 | 778.82 | 764.01 | 789.64 |
| 13 PUMPING PLANT | 5% | 741.36 | 699.70 | 720.80 | 758.79 | 769.30 | 776.44 | 791.59 | 786.32 | 788.95 | 813.87 |
| 14 RECREATION FACILITIES | 5% | 741.36 | 699.70 | 720.80 | 758.79 | 769.30 | 776.44 | 791.59 | 786.32 | 788.95 | 813.87 |
| 15 FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 702.82 | 691.50 | 706.97 | 733.11 | 748.37 | 763.59 | 781.56 | 790.58 | 801.18 | 820.74 |
| 16 BANK STABILIZATION | 2% | 698.80 | 723.28 | 739.03 | 760.03 | 779.97 | 797.82 | 820.25 | 840.77 | 863.92 | 880.93 |
| 17 BEACH REPLENISHMENT | 2% | 709.35 | 734.89 | 757.20 | 781.96 | 801.74 | 821.70 | 840.86 | 859.77 | 876.12 | 891.70 |
| 18 CULTURAL RESOURCE PRESERVATION | 2% | 741.36 | 699.70 | 720.80 | 758.79 | 769.30 | 776.44 | 791.59 | 786.32 | 788.95 | 813.87 |
| 19 BUILDINGS, GROUNDS & UTILITIES | 5% | 741.36 | 699.70 | 720.80 | 758.79 | 769.30 | 776.44 | 791.59 | 786.32 | 788.95 | 813.87 |
| 20 PERMANENT OPERATING EQUIPMENT | 2% | 741.36 | 699.70 | 720.80 | 758.79 | 769.30 | 776.44 | 791.59 | 786.32 | 788.95 | 813.87 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | 100% | 716.54 | 703.00 | 724.17 | 756.48 | 773.75 | 787.64 | 804.05 | 804.97 | 812.19 | 832.14 |
| YEARLY PERCENTAGE CHANGE | | 6.4% | -1.9% | 3.0% | 4.5% | 2.3% | 1.8% | 2.1% | 0.1% | 0.9% | 2.5% |

Note: FY* indicates data developed based on OMB projections.

TABLE A-2, YEARLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| CWBS - FEATURE CODES | Wt % | FY18* | FY19* | FY20* | FY21* | FY22* | FY23* | FY24* | FY25* | FY26* | FY27* |
|--|------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | Oct 17 - Sep 18 | Oct 18 - Sep 19 | Oct 19 - Sep 20 | Oct 20 - Sep 21 | Oct 21 - Sep 22 | Oct 22 - Sep 23 | Oct 23 - Sep 24 | Oct 24 - Sep 25 | Oct 24 - Sep 25 | Oct 24 - Sep 25 |
| 02 RELOCATIONS | 5% | 869.02 | 886.40 | 904.12 | 922.21 | 940.65 | 959.46 | 978.65 | 998.23 | 1018.19 | 1038.55 |
| 03 RESERVOIRS | 5% | 965.31 | 984.62 | 1004.31 | 1024.39 | 1044.88 | 1065.78 | 1087.09 | 1108.84 | 1131.01 | 1153.63 |
| 04 DAMS | 15% | 851.27 | 868.30 | 885.66 | 903.38 | 921.44 | 939.87 | 958.67 | 977.84 | 997.40 | 1017.35 |
| 05 LOCKS | 2% | 846.00 | 862.92 | 880.17 | 897.78 | 915.73 | 934.05 | 952.73 | 971.78 | 991.22 | 1011.04 |
| 06 FISH & WILDLIFE FACILITIES | 5% | 835.51 | 852.23 | 869.27 | 886.66 | 904.39 | 922.48 | 940.93 | 959.74 | 978.94 | 998.52 |
| 07 POWER PLANT | 10% | 779.03 | 794.61 | 810.50 | 826.71 | 843.25 | 860.11 | 877.32 | 894.86 | 912.76 | 931.02 |
| 08 ROADS, RAILROADS & BRIDGES | 10% | 869.02 | 886.40 | 904.12 | 922.21 | 940.65 | 959.46 | 978.65 | 998.23 | 1018.19 | 1038.55 |
| 09 CHANNELS & CANALS | 3% | 899.00 | 916.98 | 935.32 | 954.03 | 973.11 | 992.57 | 1012.42 | 1032.67 | 1053.32 | 1074.39 |
| 10 BREAKWATER & SEAWALLS | 5% | 862.50 | 879.75 | 897.34 | 915.29 | 933.60 | 952.27 | 971.31 | 990.74 | 1010.55 | 1030.76 |
| 11 LEVEES & FLOODWALLS | 5% | 870.16 | 887.57 | 905.32 | 923.43 | 941.89 | 960.73 | 979.95 | 999.55 | 1019.54 | 1039.93 |
| 12 NAVIGATION PORTS & HARBORS | 10% | 803.86 | 819.93 | 836.33 | 853.06 | 870.12 | 887.52 | 905.27 | 923.38 | 941.84 | 960.68 |
| 13 PUMPING PLANT | 5% | 828.52 | 845.09 | 861.99 | 879.23 | 896.82 | 914.75 | 933.05 | 951.71 | 970.74 | 990.16 |
| 14 RECREATION FACILITIES | 5% | 828.52 | 845.09 | 861.99 | 879.23 | 896.82 | 914.75 | 933.05 | 951.71 | 970.74 | 990.16 |
| 15 FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 835.51 | 852.23 | 869.27 | 886.66 | 904.39 | 922.48 | 940.93 | 959.74 | 978.94 | 998.52 |
| 16 BANK STABILIZATION | 2% | 896.79 | 914.72 | 933.02 | 951.68 | 970.71 | 990.12 | 1009.93 | 1030.12 | 1050.73 | 1071.74 |
| 17 BEACH REPLENISHMENT | 2% | 907.75 | 925.91 | 944.43 | 963.31 | 982.58 | 1002.23 | 1022.28 | 1042.72 | 1063.58 | 1084.85 |
| 18 CULTURAL RESOURCE PRESERVATION | 2% | 828.52 | 845.09 | 861.99 | 879.23 | 896.82 | 914.75 | 933.05 | 951.71 | 970.74 | 990.16 |
| 19 BUILDINGS, GROUNDS & UTILITIES | 5% | 828.52 | 845.09 | 861.99 | 879.23 | 896.82 | 914.75 | 933.05 | 951.71 | 970.74 | 990.16 |
| 20 PERMANENT OPERATING EQUIPMENT | 2% | 828.52 | 845.09 | 861.99 | 879.23 | 896.82 | 914.75 | 933.05 | 951.71 | 970.74 | 990.16 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | 100% | 847.12 | 864.06 | 881.34 | 898.97 | 916.95 | 935.28 | 953.99 | 973.07 | 992.53 | 1012.38 |
| YEARLY PERCENTAGE CHANGE | | 1.8% | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% |

Note: FY* indicates data developed based on OMB projections.

Amendment #9, 30 Sep 16
EM 1110-2-1304 (31 Mar 12)

TABLE A-2, YEARLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| CWBS - FEATURE CODES | Wt % | FY28* | FY29* | FY30* | FY31* | FY32* | FY33* | FY34* | FY35* | FY36* | FY37* |
|--|------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | Oct 24 - Sep 25 | Oct 24 - Sep 25 | Oct 24 - Sep 25 | Oct 24 - Sep 25 | Oct 24 - Sep 25 | Oct 24 - Sep 25 | Oct 24 - Sep 25 | Oct 24 - Sep 25 | Oct 24 - Sep 25 | Oct 24 - Sep 25 |
| 02 RELOCATIONS | 5% | 1059.33 | 1080.51 | 1102.12 | 1124.17 | 1146.65 | 1169.58 | 1192.97 | 1216.83 | 1241.17 | 1265.99 |
| 03 RESERVOIRS | 5% | 1176.71 | 1200.24 | 1224.25 | 1248.73 | 1273.70 | 1299.18 | 1325.16 | 1351.67 | 1378.70 | 1406.27 |
| 04 DAMS | 15% | 1037.70 | 1058.45 | 1079.62 | 1101.21 | 1123.24 | 1145.70 | 1168.61 | 1191.99 | 1215.83 | 1240.14 |
| 05 LOCKS | 2% | 1031.26 | 1051.89 | 1072.93 | 1094.39 | 1116.27 | 1138.60 | 1161.37 | 1184.60 | 1208.29 | 1232.46 |
| 06 FISH & WILDLIFE FACILITIES | 5% | 1018.49 | 1038.86 | 1059.63 | 1080.83 | 1102.44 | 1124.49 | 1146.98 | 1169.92 | 1193.32 | 1217.19 |
| 07 POWER PLANT | 10% | 949.64 | 968.63 | 988.00 | 1007.76 | 1027.92 | 1048.47 | 1069.44 | 1090.83 | 1112.65 | 1134.90 |
| 08 ROADS, RAILROADS & BRIDGES | 10% | 1059.33 | 1080.51 | 1102.12 | 1124.17 | 1146.65 | 1169.58 | 1192.97 | 1216.83 | 1241.17 | 1265.99 |
| 09 CHANNELS & CANALS | 3% | 1095.88 | 1117.79 | 1140.15 | 1162.95 | 1186.21 | 1209.94 | 1234.13 | 1258.82 | 1283.99 | 1309.67 |
| 10 BREAKWATER & SEAWALLS | 5% | 1051.38 | 1072.41 | 1093.86 | 1115.73 | 1138.05 | 1160.81 | 1184.02 | 1207.71 | 1231.86 | 1256.50 |
| 11 LEVEES & FLOODWALLS | 5% | 1060.73 | 1081.94 | 1103.58 | 1125.65 | 1148.16 | 1171.13 | 1194.55 | 1218.44 | 1242.81 | 1267.67 |
| 12 NAVIGATION PORTS & HARBORS | 10% | 979.90 | 999.49 | 1019.48 | 1039.87 | 1060.67 | 1081.88 | 1103.52 | 1125.59 | 1148.10 | 1171.07 |
| 13 PUMPING PLANT | 5% | 1009.96 | 1030.16 | 1050.76 | 1071.78 | 1093.22 | 1115.08 | 1137.38 | 1160.13 | 1183.33 | 1207.00 |
| 14 RECREATION FACILITIES | 5% | 1009.96 | 1030.16 | 1050.76 | 1071.78 | 1093.22 | 1115.08 | 1137.38 | 1160.13 | 1183.33 | 1207.00 |
| 15 FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 1018.49 | 1038.86 | 1059.63 | 1080.83 | 1102.44 | 1124.49 | 1146.98 | 1169.92 | 1193.32 | 1217.19 |
| 16 BANK STABILIZATION | 2% | 1093.18 | 1115.04 | 1137.34 | 1160.09 | 1183.29 | 1206.96 | 1231.09 | 1255.72 | 1280.83 | 1306.45 |
| 17 BEACH REPLENISHMENT | 2% | 1106.55 | 1128.68 | 1151.25 | 1174.27 | 1197.76 | 1221.72 | 1246.15 | 1271.07 | 1296.49 | 1322.42 |
| 18 CULTURAL RESOURCE PRESERVATION | 2% | 1009.96 | 1030.16 | 1050.76 | 1071.78 | 1093.22 | 1115.08 | 1137.38 | 1160.13 | 1183.33 | 1207.00 |
| 19 BUILDINGS, GROUNDS & UTILITIES | 5% | 1009.96 | 1030.16 | 1050.76 | 1071.78 | 1093.22 | 1115.08 | 1137.38 | 1160.13 | 1183.33 | 1207.00 |
| 20 PERMANENT OPERATING EQUIPMENT | 2% | 1009.96 | 1030.16 | 1050.76 | 1071.78 | 1093.22 | 1115.08 | 1137.38 | 1160.13 | 1183.33 | 1207.00 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | 100% | 1032.63 | 1053.28 | 1074.35 | 1095.84 | 1117.75 | 1140.11 | 1162.91 | 1186.17 | 1209.89 | 1234.09 |
| YEARLY PERCENTAGE CHANGE | | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% |

Note: FY* indicates data developed based on OMB projections.

TABLE A-3, STATE ADJUSTMENT FACTORS

| STATE | | STATE | |
|---------------|------|------------------|------|
| ALABAMA | 0.95 | MONTANA | 0.97 |
| ALASKA | 1.21 | NEBRASKA | 0.95 |
| ARIZONA | 0.95 | NEVADA | 1.06 |
| ARKANSAS | 0.88 | NEW HAMPSHIRE | 1.05 |
| CALIFORNIA | 1.18 | NEW JERSEY | 1.20 |
| COLORADO | 0.96 | NEW MEXICO | 0.93 |
| CONNECTICUT | 1.18 | NEW YORK | 1.17 |
| DELAWARE | 1.10 | NORTH CAROLINA | 0.88 |
| FLORIDA | 0.92 | NORTH DAKOTA | 0.95 |
| GEORGIA | 0.90 | OHIO | 1.01 |
| HAWAII | 1.23 | OKLAHOMA | 0.90 |
| IDAHO | 0.98 | OREGON | 1.05 |
| ILLINOIS | 1.14 | PENNSYLVANIA | 1.09 |
| INDIANA | 0.99 | RHODE ISLAND | 1.15 |
| IOWA | 0.97 | SOUTH CAROLINA | 0.91 |
| KANSAS | 0.93 | SOUTH DAKOTA | 0.88 |
| KENTUCKY | 0.97 | TENNESSEE | 0.91 |
| LOUISIANA | 0.90 | TEXAS | 0.90 |
| MAINE | 1.02 | UTAH | 0.96 |
| MARYLAND | 0.99 | VERMONT | 0.99 |
| MASSACHUSETTS | 1.19 | VIRGINIA | 0.95 |
| MICHIGAN | 1.03 | WASHINGTON STATE | 1.05 |
| MINNESOTA | 1.12 | WEST VIRGINIA | 1.04 |
| MISSISSIPPI | 0.90 | WISCONSIN | 1.06 |
| MISSOURI | 1.02 | WYOMING | 0.92 |
| | | WASHINGTON D.C. | 1.04 |

TABLE A-4, HISTORICAL STATE ADJUSTMENT FACTORS
For Information Only

| STATE | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ALABAMA | 0.91 | 0.88 | 0.90 | 0.88 | 0.87 | 0.90 | 0.91 | 0.91 | 0.90 | 0.90 | 0.89 | 0.89 | 0.91 | 0.95 |
| ALASKA | 1.23 | 1.24 | 1.21 | 1.22 | 1.20 | 1.21 | 1.19 | 1.22 | 1.21 | 1.19 | 1.19 | 1.18 | 1.19 | 1.21 |
| ARIZONA | 0.97 | 0.97 | 0.96 | 0.97 | 0.97 | 0.95 | 0.96 | 0.95 | 0.96 | 0.97 | 0.95 | 0.97 | 0.96 | 0.95 |
| ARKANSAS | 0.87 | 0.83 | 0.86 | 0.84 | 0.88 | 0.88 | 0.88 | 0.87 | 0.88 | 0.88 | 0.87 | 0.86 | 0.87 | 0.88 |
| CALIFORNIA | 1.19 | 1.21 | 1.19 | 1.19 | 1.19 | 1.18 | 1.20 | 1.18 | 1.18 | 1.19 | 1.18 | 1.18 | 1.17 | 1.18 |
| COLORADO | 1.00 | 1.03 | 1.01 | 1.01 | 1.00 | 0.98 | 0.99 | 0.98 | 0.99 | 1.00 | 0.99 | 0.98 | 0.97 | 0.96 |
| CONNECTICUT | 1.16 | 1.20 | 1.17 | 1.19 | 1.19 | 1.20 | 1.20 | 1.20 | 1.18 | 1.19 | 1.19 | 1.19 | 1.18 | 1.18 |
| DELAWARE | 1.10 | 1.13 | 1.11 | 1.10 | 1.09 | 1.12 | 0.78 | 1.12 | 1.11 | 1.11 | 1.11 | 1.10 | 1.10 | 1.10 |
| FLORIDA | 0.88 | 0.92 | 0.90 | 0.88 | 0.88 | 0.91 | 0.92 | 0.94 | 0.94 | 0.94 | 0.93 | 0.91 | 0.92 | 0.92 |
| GEORGIA | 0.88 | 0.87 | 0.88 | 0.86 | 0.89 | 0.89 | 0.90 | 0.91 | 0.90 | 0.90 | 0.89 | 0.89 | 0.89 | 0.90 |
| HAWAII | 1.20 | 1.17 | 1.19 | 1.20 | 1.18 | 1.18 | 1.17 | 1.17 | 1.18 | 1.17 | 1.17 | 1.19 | 1.19 | 1.23 |
| IDAHO | 1.01 | 0.98 | 0.98 | 0.99 | 0.99 | 0.97 | 0.97 | 0.96 | 0.95 | 0.95 | 0.95 | 0.98 | 0.97 | 0.98 |
| ILLINOIS | 1.12 | 1.12 | 1.11 | 1.12 | 1.11 | 1.11 | 1.14 | 1.15 | 1.14 | 1.16 | 1.15 | 1.15 | 1.15 | 1.14 |
| INDIANA | 1.03 | 1.02 | 1.01 | 1.02 | 0.97 | 1.00 | 1.00 | 1.01 | 1.00 | 1.01 | 1.00 | 1.00 | 1.00 | 0.99 |
| IOWA | 0.99 | 0.96 | 0.99 | 1.00 | 0.98 | 0.96 | 0.96 | 0.95 | 0.99 | 0.99 | 0.98 | 0.98 | 0.98 | 0.97 |
| KANSAS | 0.95 | 0.92 | 0.94 | 0.96 | 0.96 | 0.94 | 0.94 | 0.94 | 0.95 | 0.95 | 0.94 | 0.94 | 0.94 | 0.93 |
| KENTUCKY | 0.98 | 0.95 | 0.98 | 0.97 | 1.00 | 0.98 | 0.99 | 0.97 | 0.98 | 0.99 | 0.99 | 0.99 | 0.99 | 0.97 |
| LOUISIANA | 0.89 | 0.90 | 0.87 | 0.87 | 0.87 | 0.88 | 0.89 | 0.89 | 0.89 | 0.89 | 0.88 | 0.88 | 0.89 | 0.90 |
| MAINE | 1.02 | 1.01 | 1.00 | 1.00 | 0.98 | 0.98 | 0.98 | 1.00 | 1.00 | 0.99 | 1.02 | 1.03 | 1.03 | 1.02 |
| MARYLAND | 0.99 | 0.96 | 1.01 | 1.01 | 1.00 | 0.98 | 1.01 | 1.00 | 0.99 | 1.00 | 1.00 | 0.99 | 0.99 | 0.99 |
| MASSACHUSETTS | 1.16 | 1.19 | 1.19 | 1.20 | 1.19 | 1.18 | 1.18 | 1.20 | 1.19 | 1.18 | 1.19 | 1.19 | 1.20 | 1.19 |
| MICHIGAN | 1.06 | 1.07 | 1.06 | 1.06 | 1.06 | 1.04 | 1.05 | 1.05 | 1.05 | 1.05 | 1.04 | 1.04 | 1.04 | 1.03 |
| MINNESOTA | 1.15 | 1.14 | 1.16 | 1.17 | 1.17 | 1.15 | 1.15 | 1.17 | 1.16 | 1.15 | 1.14 | 1.13 | 1.12 | 1.12 |
| MISSISSIPPI | 0.84 | 0.81 | 0.84 | 0.82 | 0.80 | 0.89 | 0.92 | 0.91 | 0.90 | 0.90 | 0.90 | 0.88 | 0.89 | 0.90 |
| MISSOURI | 1.04 | 1.04 | 1.04 | 1.05 | 1.04 | 1.02 | 1.02 | 1.02 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.02 |
| MONTANA | 0.98 | 0.98 | 0.97 | 0.97 | 0.96 | 0.96 | 0.98 | 0.97 | 0.97 | 0.97 | 0.98 | 0.97 | 0.97 | 0.97 |
| NEBRASKA | 0.95 | 0.91 | 0.94 | 0.93 | 0.93 | 0.97 | 0.98 | 0.98 | 0.98 | 0.98 | 0.97 | 0.97 | 0.97 | 0.95 |

TABLE A-4, HISTORICAL STATE ADJUSTMENT FACTORS
For Information Only

| STATE | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| NEVADA | 1.10 | 1.10 | 1.10 | 1.11 | 1.10 | 1.09 | 1.10 | 1.08 | 1.08 | 1.09 | 1.07 | 1.08 | 1.08 | 1.06 |
| NEW HAMPSHIRE | 1.03 | 0.98 | 1.02 | 1.02 | 1.03 | 1.05 | 1.05 | 1.05 | 1.04 | 1.03 | 1.05 | 1.06 | 1.06 | 1.05 |
| NEW JERSEY | 1.18 | 1.22 | 1.21 | 1.21 | 1.20 | 1.20 | 1.19 | 1.21 | 1.20 | 1.20 | 1.19 | 1.19 | 1.20 | 1.20 |
| NEW MEXICO | 0.90 | 0.97 | 0.95 | 0.95 | 0.95 | 0.94 | 0.95 | 0.95 | 0.95 | 0.94 | 0.94 | 0.93 | 0.92 | 0.93 |
| NEW YORK | 1.17 | 1.24 | 1.17 | 1.17 | 1.17 | 1.15 | 1.15 | 1.17 | 1.16 | 1.15 | 1.15 | 1.15 | 1.17 | 1.17 |
| NORTH CAROLINA | 0.84 | 0.82 | 0.83 | 0.83 | 0.84 | 0.84 | 0.85 | 0.84 | 0.83 | 0.79 | 0.87 | 0.86 | 0.87 | 0.88 |
| NORTH DAKOTA | 0.94 | 0.94 | 0.94 | 0.93 | 0.92 | 0.92 | 0.92 | 0.91 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.95 |
| OHIO | 1.06 | 1.06 | 1.05 | 1.04 | 1.04 | 1.04 | 1.04 | 1.02 | 1.02 | 1.02 | 1.03 | 1.02 | 1.02 | 1.01 |
| OKLAHOMA | 0.90 | 0.88 | 0.87 | 0.87 | 0.86 | 0.85 | 0.86 | 0.86 | 0.86 | 0.85 | 0.85 | 0.87 | 0.88 | 0.90 |
| OREGON | 1.13 | 1.13 | 1.12 | 1.12 | 1.11 | 1.09 | 1.09 | 1.07 | 1.07 | 1.07 | 1.07 | 1.06 | 1.06 | 1.05 |
| PENNSYLVANIA | 1.09 | 1.10 | 1.09 | 1.10 | 1.10 | 1.09 | 1.10 | 1.10 | 1.09 | 1.09 | 1.08 | 1.09 | 1.09 | 1.09 |
| RHODE ISLAND | 1.13 | 1.16 | 1.16 | 1.16 | 1.15 | 1.15 | 1.15 | 1.16 | 1.15 | 1.13 | 1.15 | 1.17 | 1.16 | 1.15 |
| SOUTH CAROLINA | 0.82 | 0.83 | 0.81 | 0.80 | 0.81 | 0.85 | 0.86 | 0.85 | 0.84 | 0.84 | 0.83 | 0.86 | 0.87 | 0.91 |
| SOUTH DAKOTA | 0.81 | 0.89 | 0.88 | 0.87 | 0.87 | 0.87 | 0.90 | 0.88 | 0.89 | 0.88 | 0.88 | 0.88 | 0.87 | 0.88 |
| TENNESSEE | 0.90 | 0.89 | 0.89 | 0.87 | 0.87 | 0.87 | 0.88 | 0.90 | 0.90 | 0.91 | 0.90 | 0.89 | 0.91 | 0.91 |
| TEXAS | 0.90 | 0.87 | 0.87 | 0.87 | 0.87 | 0.86 | 0.87 | 0.87 | 0.87 | 0.87 | 0.88 | 0.86 | 0.89 | 0.90 |
| UTAH | 0.99 | 0.99 | 0.98 | 0.97 | 0.97 | 0.94 | 0.95 | 0.93 | 0.95 | 0.96 | 0.94 | 0.94 | 0.95 | 0.96 |
| VERMONT | 0.97 | 0.92 | 0.96 | 0.94 | 0.94 | 0.96 | 0.96 | 0.95 | 0.94 | 0.93 | 0.98 | 1.02 | 1.01 | 0.99 |
| VIRGINIA | 0.94 | 0.91 | 0.94 | 0.94 | 0.98 | 0.96 | 0.97 | 0.95 | 0.94 | 0.95 | 0.95 | 0.95 | 0.94 | 0.95 |
| WASHINGTON | 1.09 | 1.10 | 1.09 | 1.09 | 1.09 | 1.07 | 1.08 | 1.06 | 1.07 | 1.06 | 1.06 | 1.05 | 1.05 | 1.05 |
| WEST VIRGINIA | 1.04 | 1.03 | 1.05 | 1.05 | 1.06 | 1.03 | 1.04 | 1.03 | 1.03 | 1.03 | 1.03 | 1.04 | 1.04 | 1.04 |
| WISCONSIN | 1.07 | 1.08 | 1.07 | 1.08 | 1.08 | 1.07 | 1.07 | 1.06 | 1.07 | 1.07 | 1.06 | 1.06 | 1.06 | 1.06 |
| WYOMING | 0.89 | 0.89 | 0.87 | 0.89 | 0.92 | 0.91 | 0.91 | 0.90 | 0.90 | 0.90 | 0.91 | 0.92 | 0.92 | 0.92 |
| WASHINGTON D.C. | 1.04 | 1.05 | 1.05 | 1.05 | 1.06 | 1.06 | 1.08 | 1.07 | 1.05 | 1.05 | 1.05 | 1.04 | 1.03 | 1.04 |

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