



US Army Corps
of Engineers®

Flood&Coastal Storm Damage Reduction R&D Program

Web-based Flood-Proofing Cost Estimator

Description	<p>A database and cost estimator specifically for flood-proofing structures has been developed by the USACE Huntington Engineer District, which has extensive experience with implementing flood-proofing projects. The District's flood-proofing cost estimates meet all cost estimating requirements and guidelines in current U.S. Army Corps of Engineers regulations and technical publications. Also, the District's flood-proofing cost estimates support any contracting method. With modification, this cost estimator could be updated to interface with MII and distributed to the Corps community as a Web-based tool for enhancing plan formulation of nonstructural flood damage reduction measures.</p>
Benefits	<p>The benefits that could be derived from the development and dissemination of this tool consist of promoting the consideration of nonstructural flood-proofing measures by making useful information accessible to field planners and estimators. This tool would increase the knowledge base throughout the Corps and advance the current state-of-the art in flood-proofing implementation. Also this tool would reduce the potential for redundancy at Field Operating Activities (FOAs) and would promote efficiencies by reducing study costs. It would also provide a means for consistent application of a flood-proofing cost estimating technique.</p>
Status	<p>Currently the Huntington District's cost estimator is an in-house resource. An extensive construction database and cost estimating methodology has been developed by the District because of its experience in flood-proofing structures. With some modification and extension, it could be applied nationally.</p> <p>The existing program can be updated and interfaced with the MII cost estimator by the Huntington District. Once the program is completed, it would be submitted for technical peer review. The program would then be converted to a Web application.</p>
Distribution Source(s)	<p>The model would be available to all Corps users via a Web link. Key functionality of the Web-based flood-proofing application is scheduled as a proof-of-concept demonstration by the end of FY08. The proof-of-concept will then be subjected to a technical peer review by either the National Nonstructural Flood Proofing Committee or the USACE, South Pacific Division, which is the PCx for Flood Damage Reduction.</p>
Available Documentation	<p>An on-line tutorial will be written with the assistance of Huntington District staff and designed by an applications specialist. Close coordination with knowledgeable staff at the Huntington District would be necessary.</p>
Available Training	<p>The intention of the on-line tutorial is that no other training would be necessary by cost estimators experienced with MII. However, if necessary, a training program will be devised.</p>
Available Support	<p>Continuing support will be made available with points of contact at the Huntington District.</p>

Application This tool will be applicable to plan formulation of nonstructural flood-proofing measures at all Corps Districts.

Point of Contact Carol Hollaway, Institute for Water Resources, Alexandria, VA. (409) 744-1120 E-mail: Carol.A.Hollaway@usace.army.mil

Partners USACE, Huntington District