

Executive Summary

The Limited Reevaluation Report documents selection of the optimum top-of-levée profile for final design in view of improved hydrologic data not available until after publication of the General Reevaluation Report (GRR) in April 2001. New Missouri River discharge-frequency data released from the 2001 Upper Mississippi River Flow Frequency Study (UMRFFS) suggested Missouri River water surface profiles should be revised. Because economic damages and benefits are directly related to stage-frequency data, and because the National Economic Development levee profile is determined by risk-and-uncertainty procedures that integrate hydraulic and economic data, the revised profiles dictated a corresponding reexamination of the economic justification of Unit L142.

Based on the findings detailed in this report, the top-of-levée profile upstream from the Highway 63 bridge is at least 2 feet, and, in some locations, up to 4 feet lower than the GRR recommendation. Consequently, the need for a permanent closure structure at the highway bridge was eliminated. The estimated construction cost for the plan is \$26,909,000 with a benefit-cost ratio of 2.2. The level of protection with the plan provides for a 90-percent chance of containing a 0.26-percent-chance flood event and would exceed the 1-percent-chance event elevation by a minimum of 5.2 feet.