

ENVIRONMENTAL DOCUMENTATION

CHAPTER 5—ENVIRONMENTAL IMPACTS QUANTIFICATION (PROGRAMMATIC)

FOREWORD

This appendix provides a quantification of environmental impacts for the UMRCP FDR alternative plans. It evaluates plan related mitigation impacts, secondary development impacts, and potential environmental floodplain restoration opportunity impacts.

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CHAPTER 5—ENVIRONMENTAL IMPACTS QUANTIFICATION (PROGRAMMATIC)

1. INTRODUCTION.

1.1. Purpose.

The purpose of this chapter is to describe in detail: (1) the procedure employed for quantifying the mitigation, secondary development and potential ecosystem restoration impacts associated with the UMRCP FDR alternative plans, and (2) the results of applying that procedure to those plans.

1.2. Background.

The alteration of the river, its floodplain, and its adjacent watershed dates back to the early 1800s. Navigation, agriculture and urban development played a major role in that alteration. The most detrimental changes have included: loss of floodplain connectivity, river impoundment, river channelization, degraded water quality, and the invasion of exotic species. Key reports documenting those changes to the health of the river system include: “Facing The Threat: An Ecosystem Management Strategy for the Upper Mississippi River” (UMRCC, 1993); “A River That Works and a Working River” (UMRCC, 2000), and “Upper Mississippi and Illinois River Floodplain Forests” (UMRCC, 2002). For an expanded discussion of these historical impacts—see **Chapter 1** and **Environmental Appendix A**.

To achieve sustainability (term defined in Section 1.4), many believe that a greater equality of purpose is needed between economic and environmental resources management. This parity would require a significant change in existing policies and authorities, and a significant funding commitment to management measures on both public and private lands. Biologists generally acknowledge that returning the river system to a pre-settlement condition is impractical from both a political and a biological standpoint. Although technically feasible, restoring the river to a more desired state could require many decades to achieve. To the extent consistent within its authorizing legislation, the UMRCP has developed a spectrum of alternative plans to address FDR, while also identifying compatible opportunities contributing to an overall improved environmental state for the UMRS.

In developing an initial depiction of the desired river condition, the navigation study listed a number of broad categories of measures that could be applied to the river system to help achieve environmental stability. From a navigation standpoint, the river and its adjacent unprotected floodplain are the areas of most immediate concern. Accordingly, the most pertinent ecosystem measures for the navigation study were island building, fish passage, pool-based water level management, side channel restoration, wing dam/dike alteration, island protection, shoreline protection, topographic diversity (improved dredge spoil placement), and dam point control. For FDR and the UMRCP study, the primary area of concern is the protected floodplain, and the relevant measures are floodplain restoration, backwater water level management, and backwater restoration by dredging. One measure with a considerable overlap between the two Corps missions is backwater restoration by dredging.

It's very important to note that the UMRCP alternative plans should not be misconstrued as representing “the ecosystem restoration plan for the UMRS”. Rather, the plans reflect varying degrees of contribution to

environmental sustainability, consistent with the study's FDR mission. Reaching a 100% level of environmental sustainability (or desired river state) would require an adaptive management approach requiring long-term dollar investments, a greater application of remedial measures, and a greater change in federal authorities, policies, and management framework than is possible under the UMRCP study (or for that matter the Navigation Study).

An international conference on large floodplain rivers was held in 1994. That conference identified five key principles to river management: (1) river form and condition is a function of actions and processes occurring within a watershed, (2) main channel/floodplain connectivity is a key attribute of ecological integrity, (3) restoring/simulating drought and flood conditions is essential to maintaining ecological health, (4) actions taken to restore/enhance/maintain natural resources can be effective, and (5) ecosystem breakdowns can be anticipated, but predicting the time of such breakdowns is difficult. The measures applied in this chapter attempt to embrace these management principles.

1.2. Requirements.

Public laws and Corps of Engineers (COE) policy requires that the potential effects of a project on fish and wildlife resources be estimated during project planning and mitigated during project implementation. Also, an incremental cost analysis (ICA) is typically required to ascertain the cost-effectiveness of proposed actions. Significant legislation driving these requirements includes: Section 661 of the Fish and Wildlife Coordination Act of 1958, Section 906(a) of WRDA 1986, and the National Environmental Policy Act (NEPA) of 1969.

1.3. Coordination.

The technical aspects of the methodologies described herein were coordinated with both the UMRCP Collaboration Team (CT) and with the UMR-IWWS Navigation Study Environmental Team. Due to funding and timing constraints, the CT became the UMRCP study's primary vehicle for obtaining environmental input from the agencies and NGOs. Additional interaction with those groups and the public is planned to take place via public meetings and report reviews.

1.4. Available Information.

The primary sources of habitat measures and estimated costs used in the UMR Navigation Study were developed by the UMRCC as a coordinated effort between the five UMR State Natural Resource agencies, the USFWS, and the Corps. Wisconsin DNR played a particularly significant role in collecting information and in preparing spreadsheets used to estimate the costs of the habitat management measures.

The UMR Navigation Study GIS database served as the primary source of locational information for preliminary ecosystem objectives and potential projects. The determination of levee modification needs and RE needs for the various alternative plans was driven by the UMRCP H&H and economics analyses.

1.4. Definitions.

Non-Structural Alternatives. FDR accomplished by some means other than major construction, for example, actions such as floodproofing, flood warning systems, and relocations.

Structural Measures. FDR accomplished via the construction of major structures, for example, levees and floodwalls.

Environmental Objectives. Environmental objectives are incremental steps taken towards achieving a given environmental goal. They describe what we want to achieve, how much we want to achieve, when and where we want to achieve it. They also provide a basis for determining management measures, for monitoring accomplishments, and for evaluating the success of management measures.

Environmental Project. A generic measure or collection of measures designed to address given environmental planning objectives for the river ecosystem. The Navigation Study workgroups, science panel, coordinating committees, state and other stakeholders worked to formulate and refine ecosystem alternatives to better and more efficiently meet the identified range of ecosystem protection and restoration opportunities. This included establishing and evaluating potential ecosystem measure performance (e.g. area of influence, cost per acre, etc).

Mitigation. Mitigation includes, avoiding, minimizing, rectifying, reducing or compensating for a project's impact.

Restoration. Restoration measures are those features that recognize the importance of a fully functioning ecosystem. These measures restore a specified ecological condition that has been degraded, either by the Corps or by others.

Environmental Opportunity. A study related action that provides a reasonable chance for advancement or progress in solving an identified study problem. The UMRCP study provides an opportunity to explore various methods for habitat restoration. For example, locations for which FDR related construction and/or easements are required could open an opportunity for the implementation of future habitat management initiatives.

Sustainability. Sustainability is the balance of economic, ecological, and social conditions so as to meet the current, projected, and future needs of the UMRS without compromising the ability of future generations to meet their needs.

2. PROCEDURE.

2.1. Mitigation Impacts.

2.1.1. Approach.

Of necessity, the current study investigation has been conducted at a concept level of detail. Early on in the planning process, the environmental team (with the concurrence of the USFWS) made a decision to defer the development of a full-fledged ICA until future site-specific feasibility studies have been performed. Accordingly, at this conceptual level of planning, the variability with respect to mitigation is primarily that inherent in the overall impact differences associated with the various alternative plans.

The team elected to not make an estimate of mitigation impacts using habitat specific replacement ratios. This was determined in recognition of the gross level of detail being assessed, and the GIS time and cost implications of conducting a more detailed analysis. This study used a simpler, more pragmatic approach: First, to obtain a gross indication of the magnitude of mitigation required under each systemic alternative, the environmental team determined the total footprint of each plan using the engineering design figures for an improved levee system. Using GIS, a rough estimate was made of the existing habitat types affected by each alternative plan. Next, the total impacted acreage of open water, non-forested, and forested habitat for each plan was then multiplied against a generic mitigation cost per restored floodplain acre.

It should be noted that the mitigation values developed assume a habitat replacement ratio of 1:1. In actuality, the replacement ratio might be higher (under a site-specific investigation) depending on the particular habitat type and river region involved. The general approach to the mitigation analysis was presented at the 23 Apr 04 CT meeting, with no major objections expressed.

2.1.2. Procedural Steps and Results.

a. Alternative Plans Evaluated. The decision on whether or not to evaluate a given alternative plan for mitigation is provided by **Table 1**.

b. Define Study Reaches. The UMRCP study area was divided into four separate reaches for analysis. The reaches were defined primarily on the basis of the hydraulic and economic features characterizing the various FDR plans. **Table 2** shows the relationship between the UMRCP study reaches, and the geomorphic reaches of the HNA study.

c. Determine Generic Mitigation Cost Multipliers. **Table 3** shows the derivation of the generic cost multiplier used in the mitigation analysis.

Table 3, Column a. provides a list of the general categories of mitigation/restoration measures applicable to the UMRS. Those categories that have been shaded are those measures that are primarily based in the river or unprotected floodplain, and that are being addressed by the UMR-IWW Navigation Study. The unshaded measures are those of more direct relevance to the UMRCP study.

As a task of the navigation study, a virtual reference (or desired river state condition) was established for the entire UMRS. One expression of this condition was a quantification of the number of ecosystem restoration projects (by measure) that would be needed to achieve the desired condition (See **Table 3, Column b.**). **Column c.** lists the number of such opportunities that could potentially be met by the navigation study's recommended Alternative Plan D. **Table 3 Column d.** (which is Column b. minus Column c.) reflects the total number of UMRS environmental project opportunities that remain unaddressed.

Columns e. and f. then filters out the non-navigation related environmental project activities (and their potential acres of influence)—leaving those activities that are floodplain associated, and are of relevance to the UMRCP study. **Column g.** then expresses the Column f. benefits as a percentage of the total possible floodplain benefits. **Column j.** reflects the dollar cost per acre for producing the various types of floodplain benefits. **Column j.** is the sum of the fish and wildlife facilities costs associated with ecosystem restoration (Column h.), and the cost of acquiring the property rights for habitat land usage (**Column i.**). Using the product of **columns g. and h., g. and I. and g. and j.** divided by 100—the **columns k., l. and m.** values were determined. The sum of **columns k., l. and m.** provided the estimated weighted cost per acre for floodplain mitigation. The unweighted facilities costs per acre of influence (column e.) were derived from similar values calculated by WDNR (2002) for the UMRCC (2002b).

d. Determine Mitigation Acres Associated with Each Alternative Plan. Using the UMRCP Study's design quantities data, **Tables 4-8** depict the acres of native habitat that would need to be cleared under each alternative plan for the footprint of an expanded levee system. **Attachments 1-8** provide similar information for habitat clearing at the D&LD level.

e. Determine Total Mitigation Costs by Alternative. These costs, displayed in Tables 4-8, were calculated as the product of the acres of native habitat types cleared (and thus the acres of habitat in need of mitigation) times the **Table 3** derived cost per acre of mitigated habitat. This estimation assumed one acre of habitat restoration for each acre cleared. **Attachments 1-8** provide mitigation costs at the D&LD level.

f. Supplemental Mitigation Analysis for Conservation Areas. **Tables 9-11** examines the predicted net rise in flood stages on existing leveed conservation areas from three of the FDR alternative plans (B, D, and E). The degree of confidence in these numbers is fairly good; since historic data is available for a vast number of lower stage flood events.

Most conservation area levees are at or below a 10-year level of flood protection. At these elevations, the maximum impact from the most structural of plans (Plan B) is a stage increase of 0.3 feet. The study does not have any information regarding changes in the durational effects of the alternative plans. However, since the rise in water levels is minor—it is believed that the duration effects of these plans on conservation areas is also minor.

Based on the preceding discussion, it is judged that the implementation of structural modifications to mitigate the minor influence of the three FDR plans is impracticable. It should be noted that under current conditions, if a conservation levee is damaged by a major flood the managing agency (FWS or State) can at least request and sometimes receive Federal funding assistance for repairs, even though most of these areas are not part of the PL 84-99 program. If mitigation is determined to be necessary—it is suggested that it take the form of an increase in funding assistance to the repair/rehabilitation of these areas.

2.2. Secondary Development Impacts.

2.2.1. Approach.

Executive Order 11988 discourages federal actions that act as an inducement to future floodplain development, unless there is no reasonable alternative. While the Corps does not require compensatory mitigation for unavoidable secondary development effects; the minimization of such effects is an important planning priority. The general approach to the assessment of secondary development was to determine indices reflective of a plan's potential for secondary development. These indices reflect the amount of plan lands that are at or above a 100-year level of protection, and also indicate the proximity of those lands relative to two potential development catalysts-- river highway bridge crossings and major urban areas. Major urban areas were defined as populated areas near the river with populations in excess of 10,000 people.

2.2.2. Procedural Steps.

a. Alternative Plans Evaluated. The decision on whether or not to evaluate a given alternative plan for secondary development is provided by **Table 12**.

a. Determine Location of Reach Acres Relative to Bridges. All D&LDs with a level of protection at or above 100-years were assumed to be potentially developable. Areas in close proximity to river highway bridge crossings were assumed to be more developable than those sites more distant from a bridge site location. In **Table 13**, each of the UMRCP alternative plans were analyzed for acres of potentially developable lands relative to river bridge locations. **Attachments 9-26** analyze this same potential down to the D&LD level.

b. Determine Location of Reach Acres Relative to Urban Areas. All D&LDs with a level of protection at or above 100-years is herein assumed to be developable. Areas in close proximity to major urban areas were assumed to be more developable than those sites not in close proximity to an urban area (**Table 13**). A major urban area is defined as one with a population equal to or greater than 10,000 people. Each of the UMRCP alternative plans were analyzed for there urban-related potential for secondary development. **Attachments 9-26** provide reach acres relative to urban areas at the D&LD level.

2.2.3. Results.

Ranked from the highest potential for secondary development to the lowest were: Plan B without buyouts (320,037 acres), Plan B with buyouts (215,775 acres), Plan E with buyouts (4,987 acres), Plan D without buyouts (1,048 acres), Plan S-4 without buyouts (935 acres), No Action Plan (0 acres), Plan S-3 with buyouts (-6,221 acres), Plan I with buyouts (-8,776 acres), and Plan J with buyouts (-334,328 acres).

2.3. Ecosystem Restoration Opportunity Impacts.

2.3.1. Approach.

Similar to the mitigation discussion, the environmental team determined that the use of an ICA was inappropriate for a general assessment of habitat restoration opportunities. Alternatively, (and similar to what was done in the navigation study), restoration opportunities were quantified using the river reach counts for potential ER project opportunities and the potential area of influence for such opportunities.

While technically possible to calculate Year 25 and Year 50 ecosystem restoration needs (in addition to baseline needs), for the following reasons this was not considered to be a productive course of action. First, unlike the situation with the navigation study, (where the river and unprotected floodplain are likely to undergo a noticeable change in habitat value over the next 50 years), the habitat of the protected floodplain (the primary focus of the UMRCP study) has already been extensively altered for agriculture and will likely change little over the next 50 years. Second, the current investigation is operating at a very gross level of detail and the funding/effort devoted to refining temporal changes would not likely alter the broad level conclusions/recommendations made by the UMRCP study. Accordingly, for the purposes of this analysis—the future habitat condition without a project is assumed to be essentially the same as that of the existing baseline habitat.

The environmental team did not make an estimate of O&M costs. While such an O&M determination is required for reach-specific feasibility analyses, it was felt that insufficient information exists for a meaningful quantification at the programmatic level. In addition, it was recognized that the annual O&M costs for an ER project are typically minor when compared to the annualized construction costs. For example, the Swan Lake EMP project's estimated annual O&M costs are less than 10% of the annualized construction costs for that project.

2.3.2. Work Assumptions.

Specific work assumptions included the following:

- The project life is 50 years.
- The baseline year is year 2004, and this condition is adequately approximated using year 2000 aerial photography.
- The future without project habitat condition is assumed to be the same as the present baseline habitat condition.
- The impacts depicted reflect maximal environmental implementation opportunities unconstrained by the plan's BCR.
- The environmental opportunities of all plans are dependent upon the FDR component of the alternative plans.
- The navigation study's estimate of the "future desired river state" subsumes the first generation (year 2000) HNA effort.

2.3.2. Procedural Steps.

- a. Alternative Plans Evaluated. The decision on whether or not to evaluate a given alternative plan for ecosystem restoration opportunities is provided by **Table 14**.
- b. Determine UMRS Habitat Impact Sources. The major sources of UMRS ecological disturbance are discussed in detail in Environmental Chapter 1 of the UMRCP report.

- c. Determine UMRS Ecosystem Goals/Objectives and Available Remedial Actions. The UMRCP study has adopted the reach-specific ecosystem objectives and actions developed by the navigation study. See related discussion in **Environmental Chapter 1** of the UMRCP report.
- d. Determine Those Remedial Actions Applicable to the UMRCP Study. The primary focus of the UMRCP study is on the protected floodplain area, while that of the navigation study is on the river and immediate unprotected floodplain. **Table 3** highlights those measures that are primarily UMRCP study related; all remaining measures have relationship to the navigation study. It should be noted that the UMRCP (unlike the navigation study) has no separable project purpose for ecosystem restoration per se, and all of the identified ecosystem restoration opportunities must be related to actions focused on FDR.
- e. Determine (in Acres) ER Opportunities Necessary to Achieve 100% UMRS Floodplain Sustainability. For the purpose of the UMRCP study, the ecosystem sustainability needs have been based on the overall ecosystem depiction of the navigation study. Accordingly, **Table 3** indicates that the average number of acres per navigation study identified floodplain habitat restoration project was 1,295 acres (or 308,800 total acres divided by 239 floodplain ER project opportunities). In **Table 16**, the 1,295 acres were multiplied against the total project opportunities identified within each river reach, and the system, to determine the total acres of influence representing the 100% level of floodplain sustainability. The table excludes any navigation related ER projects.
- f. Determine Alternative Floodplain Ecosystem Management Options. Four different options for floodplain ecosystem management were evaluated against selected FDR alternative plans. The options and selected plans were as follows:
1. *Option 1. No Action.* No additional expenditure of federal funds via the UMRCP for the management of UMRS floodplain habitat development.
 2. *Option 2. Conservation Easements Acquired in Conjunction with Plan Flowage Easements.* Under this option, a payment for residual property rights on FDR flowage easement lands would be offered to landowners (on a voluntary basis) as conservation easements for future fish and wildlife management purposes. The conservation easement cost would be equivalent to the difference between fee simple acquisition costs and the costs of flowage easements. This option could encourage enhanced federal funding to support the management of existing state and federal conservation programs (e.g. the CRP, CREP, WRP, EMP programs, etc.). It is assumed that the eligible locations could be approximated by determining those leveed areas that would have less than a 100-yr level of flood protection (with a UMRCP project in place), and those sites that would require flowage easements. The acreage opportunities available would be directly proportional to the amount of landowner interest in the program. This option was applied to Plans B, D and E.
- Lands under conservation easements would be enhanced using a wide variety of available habitat improvement methods. For example, fisheries management might include backwater channel dredging, the incorporation of woody debris, or the placement of rock and gravel within aquatic areas to serve as aquatic habitat structures. Wildlife management might include the placement of bird nesting structures, the protection of special habitat areas, the enhancement of habitat corridors, the planting of prairie vegetation, the planting of trees on dredged disposal material sites, the creation of a mix of successional stages, exotic species control, and water level management.
3. *Option 3. Buyouts.* Under this option, lands would be acquired as FDR buyouts. For structural Plans B, D, E and H two key criteria would have to be met for a buyout: (1) the cost of levee improvements for a given D&LD would have to exceed the value of the land protected, and (2) leveed areas must be less than 10% urbanized. For Plan I, the option would apply to lands areas with less than a 100-year level of protection, where structures have been bought out. For Plan J, which removes levees—all D&LD lands were considered eligible for buyouts.

The same site development measures described for Option 2 would be applied here as well. Areas of high physical diversity and areas in close vicinity to existing federal refuges and state management areas

would receive a high priority for future study. Federal and state conservation agencies would manage the lands similar to the Corps' current General Plan lands leased out to the agencies under a cooperative agreement.

This option addresses a more literal interpretation of the WRDA '99 language that states "FDR and floodplain management by means of...habitat management..."

4. Option 4. Conservation Easements on Lands adjacent to Levees Construction. This measure is similar to Option 2. However, since no flowage easements would be involved, obtaining conservation interests landward of the levees would be tantamount to the cost of a fee simple acquisition. Areas of high physical diversity, and areas in close vicinity to existing federal refuges and state management areas would receive a high priority for future study. This option applies to Plans B, D and E.

g. Identify Locations of ER Opportunity Associated with Each Alternative Plan and Management Option. **Attachments 27-50** include information in the right hand columns critical to identifying ecosystem restoration project opportunities within a given habitat management option and alternative FDR plan. The inclusion of a leveed area as a plan option ER opportunity was based on an affirmative response to all of the following option related questions:

QUESTIONS APPLIED TO DETERMINE ER LOCATIONAL OPPORTUNITIES	
OPTION	QUESTION *
1	<ul style="list-style-type: none"> • No applicable questions
2	<ul style="list-style-type: none"> • With a project in place, will the location have less than a 100-Yr level of protection? (Y/N) • Does the location require flowage easements? (Y/N)
3	<ul style="list-style-type: none"> • Does the cost of levee improvements at the location exceed the value of the lands protected? (Y/N) • Is the landuse at the location less than 10 percent urban?
4	<ul style="list-style-type: none"> • With a project in place, will the location have less than a 100-Yr level of protection? (Y/N) • Would the location be without flowage easements? (Y/N) • Would there be a levee raise at the location ? (Y/N)
5	<ul style="list-style-type: none"> • Combines screened products of Options 2 & 4
6	<ul style="list-style-type: none"> • Combines screened products of Options 3 & 4
<p>* An affirmative response to all option criteria yields an ER locational opportunity for a given alternative plan</p>	

It is important to note that the site locations portrayed in **Attachments 27-50** are for general planning purposes only. It represents an order of magnitude for a given plan's ER potential, and it is not intended to be an actual selection of specific sites for ecosystem projects. To achieve that degree of specificity requires the future development and testing of a UMRS region-wide ecosystem functions model for sites evaluation and prioritization.

h. Determine Total ER Opportunities Acreage and Potential Percent Area Managed Under Each Alternative Plan and Management Option. The acres of ER opportunities available under each alternative plan and management option were totaled in (**Tables 17, 20, 23, 26, 29 and 32**).

Since participation under Options 2 and 4 is voluntary, the area of ER influence was expected to be fairly low. It was assumed that most farmers would want to continue their agricultural pursuits on all except for the most marginal of lands within a given D&LD. While somewhat ambitious, achieving a regional goal of 25% native habitat coverage was assumed to be a potentially achievable goal. Acquired in fee title, it is assumed that nearly all lands under Option 3 would be converted to native habitat types and managed for fish and wildlife. Since Options 5 and 6 are simply combinations of other Options, the percent area managed was simply back-calculated using the total ER opportunities acreages and the potential ER managed acres.

- i. Determine Potential Ecosystem Restoration Managed Acres and Potential Sustainability Level Achieved under Each Alternative Plan and Management Option (Tables 18, 21, 24, 27, 30 and 33). The potential ER managed acres were determined as the product of the total ER opportunities acreage times the percent area managed (see values from **Tables 17, 20, 23, 26, 29 and 32**).

An estimate of the sustainability level achieved was calculated for each management option as the number of alternative plan management acres divided by the **Table 16** estimate of reach and system acres representing 100% floodplain sustainability.

- j. Determine ER First Costs Per Acre and for Total Acres by Alternative Plan and Management Option (Tables 19, 22, 25, 28, 31 and 34). Taking into consideration the **Table 3** ER costs multiplier versus partial (conservation easements on top of flowage easements) or full FDR property rights acquisition (fee title)--**Table 15** depicts the cost multipliers by specific habitat management option. The **Table 15** values do not yet include contingency costs (estimated to be about 35%), PED costs (about 30%) and a construction management cost (10%). It should be noted that these opportunity costs do not yet reflect FDR BCR related constraints on their actual implementation.

2.3.3. Results.

Plan		Factor	Plan Rank Order (Highest to Lowest Output)
1	No Action	Total Managed Acres	No net change in managed acres for all alternative plans
		Percent Sustainability Achieved	No net change in sustainability level achieved for all plans
		Total First Costs	No project dollars expended under all plans
2	Conservation Easements--in Conjunction with Plan Flowage Easements	Total Managed Acres	D (131,995 ac), E (65,565 ac), B (43,083 ac)
		Percent Sustainability Achieved	D (43%), E (21%), B (14%)
		Total First Costs	D (\$672 mil), E (\$334 mil), B (\$219 mil)
3	Buyouts	Total Managed Acres	J (807,943 ac), B (175,002 ac), H (175,002 ac), E (133,889 ac), D (130,642 ac), I (9,791 ac)
		Percent Sustainability Achieved	B (57%), H (57%), E (43%), D (42%), I (3%)
		Total First Costs	B (\$455 mil), H (\$455 mil), E (\$348 mil), D (\$340 mil), J (\$261 mil), I (\$25 mil)
4	Conservation Easements—on Lands Adjacent to Levee Construction	Total Managed Acres	E (3,175 ac)
		Percent Sustainability Achieved	E (1%)
		Total First Costs	E (\$20 mil)

3. CONCLUSIONS

See Appendix A conclusions section.

4. REFERENCES:

COE, 2000. Upper Mississippi River System Habitat Needs Assessment: Summary Report 2000. U.S. Army Corps of Engineers, St. Louis District, St. Louis, Missouri. 53pp.

COE 2004. Draft UMR-IWW System Navigation Feasibility Study: An Integrated Plan for Navigation and the Environment—Alternative Formulation Briefing Pre-conference Report.

UMRCC, 2002a. A Preliminary Description of Habitat Objectives (And Estimated Costs) Needed to Achieve a Desired Level of Ecosystem Integrity on the Upper Mississippi River System. Upper Mississippi River Conservation Committee, Rock Island, Illinois. 21 pp.

UMRCC, 2002b. Upper Mississippi and Illinois River Floodplain Forests—Desired Future and Recommended Actions. Upper Mississippi River Conservation Committee. 35 pp.

WDNR, 2002. Estimate of Habitat Restoration Costs for the Upper Mississippi River System. Prepared by: Jeff Janvrin of Wisconsin DNR. 22pp.

TABLE 1. PLANS QUANTIFIED FOR MITIGATION IMPACTS

Plan	Mitigation Analysis	Remarks
No Action	Yes	There are no structural features under this plan; however, planning regulations require that this plan be documented.
A	No	This plan was determined to be fatally flawed from a hydraulics standpoint; therefore a mitigation analysis was not deemed appropriate.
B	Yes	The impacts of an expanded levee footprint were assessed.
C	No	This plan was not evaluated environmentally, due to an earlier PDT determination that an equivalent economics level analysis would not be conducted.
D	Yes	The impacts of an expanded levee footprint were assessed.
E	Yes	The impacts of an expanded levee footprint were assessed.
F	Yes	The impacts of an expanded levee footprint were assessed.
G	No	Due to the far-reaching geographic implications of this plan, a PDT decision was made to not quantify the environmental mitigation impacts of this plan.
H	Yes	The impacts of an expanded levee footprint were assessed.
I	No	Since there are no structural features involved, mitigation was not a concern.
J	No	Since there are no structural features involved, mitigation was not a concern.
K	No	Since there is no site-specific data on the location and nature of the impacts stemming from the critical infra-structure improvements—no quantification of mitigation could be conducted.
L	No	Since there is no site-specific data on the location and nature of the impacts stemming from the critical infra-structure improvements—no quantification of mitigation could be conducted.

TABLE 2. UMRCP STUDY REACHES AND CORRESPONDING HNA REACHES

UMRCP Reaches		HNA Reaches	
R1	UMR, Head of Navigation to L&D 13 (R.M. 523)*	1	Miss R. HN (St. Paul, MN) to L&D 3 (Red Wing, MN)
		2	Miss R. L&D 3 (Red Wing, MN) to L&D 4 (Alma, WI)
		3	Miss R. L&D 4 (Alma, WI) to L&D 9 (Harper's Ferry, IA)
		4	Miss R. L&D 9 (Harper's Ferry, IA) to L&D 13 (Clinton, IA)
R2	UMR, L&D 13 (R.M. 523) to 19 (R.M. 364)	5	Miss R. Pool 13 (Clinton, IA) to L&D 17 (New Boston, IL)
		6	Miss R. L&D 17 (New Boston, IL) to L&D 19 (Keokuk, IA)
R3	UMR, L&D 19 (R.M. 364) to Open River at Thebes (R.M. 44)	7	Miss R. L&D 19 (Keokuk, IA) to L&D 22 (Saverton, MO)
		8	Miss R. L&D 22 (Saverton, MO) to L&D 27 (Granite City, IL)
		9&10	Miss R. L&D 27 (Granite City, MO) to Cairo, IL
R4	Illinois River [IR]	11	IL R HN (Chicago, IL) to Starved Rock L&D (Utica, IL)
		12	IL R Starved Rock L&D (Utica, IL) to River's mouth (Grafton, IL)

* Note: This reach is largely without levee districts

TABLE 3. DERIVATION OF UMRS GENERIC PER ACRE MULTIPLIER FOR MITIGATION/RESTORATION FIRST COSTS

Ecosystem Measure	River Ecosystem Restoration Opportunities (# Projects)			Floodplain ER Opportunities Not Addressed by Navigation Study		Percent UMRS Floodplain Benefits by Measure	Typical Floodplain Project Costs Per Acre of Influence ***			Weighted Cost Per Acre of Mitigated Floodplain Habitat		
	Total Opportunities (=Virtual Reference)	Navigation Study Addressed Opportunities (=Alternative D)	Unaddressed Opportunities (b-c)	Projects (=Virtual Reference)	Acres of Influence		F&W Facilities Costs	RE Costs	Total First Costs	F&W Facilities Costs <u>g x h</u> 100	RE Costs <u>g x i</u> 100	Total First Costs <u>g x j</u> 100
a	b	c	d	e	f	g	h	i	j	k	l	m
Island Building	172	91	81									
Fish Passage	33	14	19									
Floodplain Restoration (Pools 1-13) *	44	21	23	23	11,500	4	2,000	3,000 (2,500 - 3,500)	5,000 (4,500 - 5,500)	80	120	200
Floodplain Restoration (Except Pools 1-13) *	54	16	38	38	190,000	62	2,000	3,000 (2,500 - 3,500)	5,000 (4,500 - 5,500)	1,240	1,860	3,100
Water Level Management – Pool	26	12	14									
Water Level Management- Backwater (Moist Soil Mgmt) *	10	7	3	3	3,000	1	3,400	3,000 (2,500 -- 3,500)	6,400 (5,900 - 6,900)	34	30	64
Backwater Restoration (Dredging) *	383	208	175	175	104,300	33	3,900	3,000 (2,500 - 3,500)	6,900 (6,400 - 7,400)	1,287	990	2,277
Side Channel Restoration	225	147	78									
Wing Dam/Dike Alteration	74	64	10									
Island Protection	157	157	0									
Shoreline Protection	235	235	0									
Topographic Diversity	32	32	0									
Dam Point Control	3	2	1									
Floodplain Restoration-Immediate Opportunities	3	3	0									
Uplands Management **												
NON-UMRCP RELATED MEASURES	957	754	203									
UMRCP RELATED MEASURES	494	255	239									
TOTAL	1,451	1,009	442	239	308,800	100				2,641	3,000	5,641

* Shaded areas reflect ecosystem measures of greatest relevance to UMRCP Study. Approximately one-half of the opportunities for these measures reside within the unprotected floodplain and are being addressed by the Navigation Study. With the exception of a relatively small acreage of unprotected towns, the FDR focus of the UMRCP is primarily on the levee protected floodplain.

** The Corps has the authority to conduct a study of the uplands watershed, but implementation of any upland measures is the jurisdiction of other federal and state agencies.

*** For the purposes of this analysis, the cost per acre for mitigation is assumed to equate to the cost to restore an acre of habitat. In actuality, mitigation costs could run somewhat higher. For consistency, the UMRCP has utilized the restoration costs of the navigation study as cost multipliers with the exception of the real estate component. In the navigation study, most of the real estate involved was in the unprotected floodplain and in federal or state ownership. Most of the environmental opportunities for the UMRCP study involve privately owned property; therefore, environmentally related real estate costs (assumed to range from \$2,500 per acre for lands involving existing or proposed flowage easements to \$3,500 per acre for lands with no existing/proposed interest; figures include lands, damages and contingencies, but does not include acquisition or relocation expenses) are here considered to be applicable to all ecosystem measure categories. For this programmatic level analysis, permanent easement and fee title land costs per acre are assumed to be same cost. The facilities costs displayed do not yet include contingencies, PED, and S&A costs.

TABLE 4. HABITAT MITIGATION IMPACTS OF ALTERNATIVE PLANS

* Includes 10' R/W + New Levee Base

** Mitigation cost does not include facilities related contingencies, PED, and S&A costs

*** The location of construction related access roads and staging areas can not be determined at this level of analysis. Since the impacts would be temporary in nature, and since highly sensitive areas can often times be avoided—the mitigation costs associated with temporary easements is assumed to be near zero.

- + Only permanent easement impacts associated with open water, non-forested and forested habitat types are assumed to require mitigation. Impacts to agricultural and developed lands have not been mitigated.

CODE: L = Leveed Area O = Open Water, NF = Non-forest, F= Forest
U = Up leveed Area HTU = Habitat Types Unknown

TABLE 5. HABITAT MITIGATION IMPACTS OF ALTERNATIVE PLANS (CONTINUED)

PLAN B—UNCONFINED 500-YEAR URBAN (RIVERSIDE LEVEE IMPROVEMENTS) / 500-YEAR AG PROTECTION

* Includes 10' R/W + New Levee Base

** Mitigation cost does not include facilities related contingencies, PED, and S&A costs

*** The location of construction related access roads and staging areas can not be determined at this level of analysis. Since the impacts would be temporary in nature, and since highly sensitive areas can often times be avoided—the mitigation costs associated with temporary easements is assumed to be near zero.

- + Only permanent easement impacts associated with open water, non-forested and forested habitat types are assumed to require mitigation. Impacts to agricultural and developed lands have not been mitigated.

CODE: O = Open Water, NF = Non-forest, F= Forest, T= Total

R1= Reach 1, R2=Reach 2, R3=Reach 3, R4=Reach 4

HTU = Habitat Types Unknown

TABLE 6. HABITAT MITIGATION IMPACTS OF ALTERNATIVE PLANS (CONTINUED)

PLAN D—UNCONFINED 500-YEAR URBAN (RIVERSIDE LEVEE IMPROVEMENTS) / 100-YEAR AG PROTECTION																
Real Estate Vehicle	Impacts to Native Habitat Types +	Clearing Required (Acres) (a)					Floodplain Mitigation Cost Per Acre ** (b)				Mitigation Costs (\$ Thousands, Annualized over 50-year Project Life) (a x b)					
		R1	R2	R3	R4	T	R1	R2	R3	R4	R1	R2	R3	R4	T	
Permanent Real Estate Interest *	A	0	46	1,255	1,212	2,513	--	--	--	--	--	--	--	--	--	--
	D	7	15	130	55	207	--	--	--	--	--	--	--	--	--	--
	W	0	3	158	7	168	--	--	--	--	--	--	--	--	--	--
	F	1	40	707	224	972	--	--	--	--	--	--	--	--	--	--
	NF	0	18	222	153	393	--	--	--	--	--	--	--	--	--	--
	NC	0	6	119	97	222	--	--	--	--	--	--	--	--	--	--
	SUBTOTAL	8	128	2,591	1,748	4,475	--	--	--	--	--	--	--	--	--	--
	T-(A+D)	1	67	589	481	1,138	5,600	5,600	5,600	5,600	6	375	3,298	9,789	13,468	
Temporary Easement	HIU ***	12	321	1,291	1,078	2,702	--	--	--	--	--	--	--	--	--	--
	SUBTOTAL	12	321	1,291	1,078	2,702	0	0	0	0	0	0	0	0	0	0
	TOTAL MITIGATION COST										6	375	3,298	9,789	13,468	

* Includes 10' R/W + New Levee Base

** Mitigation cost does not include facilities related contingencies, PED, and S&A costs

*** The location of construction related access roads and staging areas can not be determined at this level of analysis. Since the impacts would be temporary in nature, and since highly sensitive areas can often times be avoided—the mitigation costs associated with temporary easements is assumed to be near zero.

+ Only permanent easement impacts associated with open water, non-forested and forested habitat types are assumed to require mitigation. Impacts to agricultural and developed lands have not been mitigated.

CODE: L = Leveed Area O = Open Water, NF = Non-forest, F= Forest
U = Unleveed Area HTU = Habitat Types Unknown

TABLE 7. HABITAT MITIGATION IMPACTS OF ALTERNATIVE PLANS (CONTINUED)

PLAN E—UNCONFINED 500-YEAR URBAN (RIVERSIDE LEVEE IMPROVEMENTS) / 50-YEAR AG PROTECTION PLAN																
Real Estate Vehicle	Impacts to Native Habitat Types +	Clearing Required (Acres) (a)					Floodplain Mitigation Cost Per Acre ** (b)				Mitigation Costs (\$ Thousands, Annualized over 50-year Project Life) (a x b)					
		R1	R2	R3	R4	T	R1	R2	R3	R4	R1	R2	R3	R4	T	
Permanent Real Estate Interest *	A	0	6	937	1,354	2,297	--	--	--	--	--	--	--	--	--	--
	D	7	7	105	57	176	--	--	--	--	--	--	--	--	--	--
	W	0	1	99	8	108	--	--	--	--	--	--	--	--	--	--
	F	1	8	486	221	716	--	--	--	--	--	--	--	--	--	--
	NF	0	2	172	156	330	--	--	--	--	--	--	--	--	--	--
	NC	0	3	86	104	193	--	--	--	--	--	--	--	--	--	--
	SUBTOTAL	8	28	1,882	1,900	3,818	--	--	--	--	--	--	--	--	--	--
	T-(A+D)	1	15	840	489	1,345	5,600	5,600	5,600	5,600	6	84	4,704	2,738	7,532	
Temporary Easement	HIU***	12	59	722	922	1,715	--	--	--	--	--	--	--	--	--	--
	SUBTOTAL	12	59	722	922	1,715	0	0	0	0	0	0	0	0	0	0
	TOTAL MITIGATION COST										6	84	4,704	2,738	7,532	

* Includes 10' R/W + New Levee Base

** Mitigation cost does not include facilities related contingencies, PED, and S&A costs

*** The location of construction related access roads and staging areas can not be determined at this level of analysis. Since the impacts would be temporary in nature, and since highly sensitive areas can often times be avoided—the mitigation costs associated with temporary easements is assumed to be near zero.

+ Only permanent easement impacts associated with open water, non-forested and forested habitat types are assumed to require mitigation. Impacts to agricultural and developed lands have not been mitigated.

CODE: L = Leveed Area O = Open Water, NF = Non-forest, F= Forest
U = Unleveed Area HTU = Habitat Types Unknown

TABLE 8. HABITAT MITIGATION IMPACTS OF ALTERNAITVE PLANS (CONTINUED)

PLAN H—UNCONFINED 500-YEAR URBAN (RING LEVEES & ELEVATED BRIDGE APPROACHES) / 0-YEAR AG PROTECTION PLAN

Real Estate Vehicle	Impacts to Native Habitat Types +	Clearing Required (Acres) (a)					Floodplain Mitigation Cost Per Acre ** (b)				Mitigation Costs (\$ Thousands, Annualized over 50-year Project Life) (a x b)				
		R1	R2	R3	R4	T	R1	R2	R3	R4	R1	R2	R3	R4	T
Permanent Real Estate Interest *	A	0	178	718	303	1,199	--	--	--	--	--	--	--	--	--
	D	7	36	66	46	155	--	--	--	--	--	--	--	--	--
	W	0	14	123	4	141	--	--	--	--	--	--	--	--	--
	F	1	161	412	139	713	--	--	--	--	--	--	--	--	--
	NF	0	64	126	95	285	--	--	--	--	--	--	--	--	--
	NC	0	20	63	16	99	--	--	--	--	--	--	--	--	--
	SUBTOTAL	8	473	1,508	605	2,594	--	--	--	--	--	--	--	--	--
	T-(A+D)	1	259	724	256	1,240	5,600	5,600	5,600	5,600	6	1,450	4,054	1,434	6,944
Temporary Easement	HIU***	12	635	1,367	468	2,482	--	--	--	--	--	--	--	--	--
	SUBTOTAL	12	635	1,367	468	2,482	0	0	0	0	0	0	0	0	0
							TOTAL MITIGATION COST				6	1,450	4,054	1,434	6,944

* Includes 10' R/W + New Levee Base

** Mitigation cost does not include facilities related contingencies, PED, and S&A costs

*** The location of construction related access roads and staging areas can not be determined at this level of analysis. Since the impacts would be temporary in nature, and since highly sensitive areas can often times be avoided—the mitigation costs associated with temporary easements is assumed to be near zero.

+ Only permanent easement impacts associated with open water, non-forested and forested habitat types are assumed to require mitigation. Impacts to agricultural and developed lands have not been mitigated.

CODE: L = Leveed Area O = Open Water, NF = Non-forest, F= Forest
U = Unleveed Area HTU = Habitat Types Unknown

TABLE 9. POTENTIAL SYSTEMIC PLAN IMPACTS TO CONSERVATION AREAS—PLAN B

Management Area	Type of Management Area	River	Mid-Point River Mile	Acres Protected	Existing Levee Flood Protection Level	Induced Rise				
						2-Year	5-Year	10-Year	20-Year	25-Year
MISSISSIPPI RIVER										
Pool 11 Islands	Wildlife Area	Miss.	588	10,342	<10	0.0	0.0	0.0	0.0	0.0
Pool 12 Overwintering	Wildlife Area	Miss.	569	628	<10	0.0	0.0	0.0	0.0	0.0
Pleasant Creek	Wildlife Area	Miss.	551	2,530	<10	0.0	0.0	0.0	0.0	0.0
Spring Lake	Wildlife Area	Miss.	534	3,300	<10	0.0	0.0	0.0	0.0	0.0
Princeton Refuge	Wildlife Area	Miss.	505	1,129	<10	0.0	0.0	0.0	0.0	0.0
Andalusia	Wildlife Area	Miss.	463	393	<10	0.0	0.0	0.0	0.0	0.0
Big Timber	Wildlife Area	Miss.	439	1,039	<10	0.0	0.0	0.0	0.0	0.0
Lake Odessa	Wildlife Area	Miss.	438	6,800	<10	0.0	0.0	0.0	0.0	0.0
Bay Island	Wildlife Area	Miss.	312	650	<10	0.0	0.0	-0.1	0.0	0.0
Ted Shanks State CA	Wildlife Area	Miss.	291R	6,636	20	0.1	0.0	0.0	0.0	0.0
MTNWR (Delair Division)	Wildlife Area	Miss.	279L	1,737	>10	0.1	0.1	0.1	0.1	0.1
Clarksville Refuge	Wildlife Area	Miss.	275R	346	>10	0.1	0.1	0.1	0.1	0.1
MRA (Rip-Rap Landing)	Wildlife Area	Miss.	265L	125	>10	0.2	0.2	0.2	0.3	0.3
Clarence Cannon NWR	Wildlife Area	Miss.	262R	3,601	5-10	0.2	0.3	0.3	0.4	0.4
Prairie Slough CA	Wildlife Area	Miss.	258R	120	>10	0.2	0.3	0.3	0.4	0.4
B.K. Leach CA	Wildlife Area	Miss.	250R	1,413	>10	0.3	0.3	0.3	0.4	0.4
MTNWR (Batchtown Division)	Wildlife Area	Miss.	248L	2,403	5-10	0.3	0.3	0.3	0.4	0.4
Batchtown Wildlife Area	Wildlife Area	Miss.	245L	2,540	<5	0.3	0.3	0.3	0.4	0.4
MRA (Calhoun Point)	Wildlife Area	Miss.	221L	2,057	<5	0.2	0.1	0.1	0.3	0.3
Marvais Temps Clair	Wildlife Area	Miss.	217R	918	>10	0.2	0.1	0.1	0.3	0.3
Dresser Island CA	Wildlife Area	Miss.	208R	1,059	5-10	0.0	0.1	0.2	0.3	0.4
Prairie-Marsh Restoration Area	Vegetative Area	Miss.	202R	1,112	>10	0.0	0.1	0.2	0.3	0.4
Ellis Bay & Teal Pond Habitat Area	Vegetative Area	Miss.	202R	545	>10	0.0	0.1	0.2	0.3	0.4
Columbia Bottoms Levee	Wildlife Area	Miss.	194R		100	0.0	0.1	0.2	0.3	0.3
Horseshoe Lake Mitigation Area	Wildlife Area	Miss.	184L	621	>10	0.0	0.1	0.2	0.3	0.3
Kidd Lake Marsh	Natural Area	Miss.	154L	600	<10	0.0	0.1	0.1	0.2	0.3
Shawnee NF-Murphysboro District	Vegetative Area	Miss.	88L	14,329	>10	0.0	0.1	0.1	0.2	0.3
Laure-Pine Hills Ecological Area	Natural Area	Miss.	66L	1,200	<10	0.0	0.1	0.1	0.2	0.2
Union County Conservation Area	Wildlife Area	Miss.	63 L	6,096	>10	0.0	0.1	0.1	0.2	0.2
MTNWR (Calhoun Division)	Wildlife Area	Miss.	7R	435	<5	0.0	0.1	0.1	0.1	0.1
MTNWR (Gilbert Lake Division)	Wildlife Area	Miss.	5L	738	<5	0.0	0.1	0.1	0.1	0.1

TABLE 9. POTENTIAL SYSTEMIC PLAN IMPACTS TO CONSERVATION AREAS—PLAN B (Continued)

Management Area	Type of Management Area	River	Mid-Point River Mile	Acres Protected	Existing Levee Flood Protection Level	Induced Rise				
						2-Year	5-Year	10-Year	20-Year	25-Year
ILLINOIS RIVER										
Banner Marsh	Wildlife Area	Illinois	141	5,524	<10	0.0	0.0	0.0	0.1	0.1
Rice Lake	Wildlife Area	Illinois	135	5,592	<10	0.0	0.0	0.0	0.1	0.1
Lake Chautauqua	Wildlife Area	Illinois	127	4,212	<10	0.0	0.0	0.0	0.1	0.1
Meredosia Refuge	Wildlife Area	Illinois	74L	300	>10	0.0	0.0	0.1	0.3	0.3
MRA (Fuller Lake WMA)	Wildlife Area	Illinois	12R	1,088	<5	0.0	0.1	0.2	0.4	0.5
MRA (Stump Lake WMA)	Wildlife Area	Illinois	10L	3,580	<5	0.0	0.1	0.2	0.4	0.5

TABLE 10. POTENTIAL SYSTEMIC PLAN IMPACTS TO CONSERVATION AREAS—PLAN D

Management Area	Type of Management Area	River	Mid-Point River Mile	Acres Protected	Existing Levee Flood Protection Level	Induced Rise				
						2-Year	5-Year	10-Year	20-Year	25-Year
MISSISSIPPI RIVER										
Pool 11 Islands	Wildlife Area	Miss.	588	10,342	<10	0.0	0.0	0.0	0.0	0.0
Pool 12 Overwintering	Wildlife Area	Miss.	569	628	<10	0.0	0.0	0.0	0.0	0.0
Pleasant Creek	Wildlife Area	Miss.	551	2,530	<10	0.0	0.0	0.0	0.0	0.0
Spring Lake	Wildlife Area	Miss.	534	3,300	<10	0.0	0.0	0.0	0.0	0.0
Princeton Refuge	Wildlife Area	Miss.	505	1,129	<10	0.0	0.0	0.0	0.0	0.0
Andalusia	Wildlife Area	Miss.	463	393	<10	0.0	0.0	0.0	0.0	0.0
Big Timber	Wildlife Area	Miss.	439	1,039	<10	0.0	0.0	0.0	0.0	0.0
Lake Odessa	Wildlife Area	Miss.	438	6,800	<10	0.0	0.0	0.0	0.0	0.0
Bay Island	Wildlife Area	Miss.	312	650	<10	0.0	0.0	0.0	0.0	0.0
Ted Shanks State CA	Wildlife Area	Miss.	291R	6,636	20	0.0	0.0	0.1	0.1	0.1
MTNWR (Delair Division)	Wildlife Area	Miss.	279L	1,737	>10	0.1	0.1	0.1	0.1	0.1
Clarksville Refuge	Wildlife Area	Miss.	275R	346	>10	0.1	0.1	0.1	0.2	0.2
MRA (Rip-Rap Landing)	Wildlife Area	Miss.	265L	125	>10	0.2	0.2	0.3	0.3	0.4
Clarence Cannon NWR	Wildlife Area	Miss.	262R	3,601	5-10	0.2	0.2	0.3	0.4	0.5
Prairie Slough CA	Wildlife Area	Miss.	258R	120	>10	0.1	0.2	0.3	0.4	0.4
B.K. Leach CA	Wildlife Area	Miss.	250R	1,413	>10	0.1	0.2	0.3	0.4	0.4
MTNWR (Batchtown Division)	Wildlife Area	Miss.	248L	2,403	5-10	0.1	0.2	0.3	0.4	0.4
Batchtown Wildlife Area	Wildlife Area	Miss.	245L	2,540	<5	0.1	0.2	0.3	0.4	0.4
MRA (Calhoun Point)	Wildlife Area	Miss.	221L	2,057	<5	0.0	0.1	0.2	0.3	0.4
Marvais Temps Clair	Wildlife Area	Miss.	217R	918	>10	0.0	0.1	0.2	0.3	0.4
Dresser Island CA	Wildlife Area	Miss.	208R	1,059	5-10	0.0	0.1	0.2	0.3	0.4
Prairie-Marsh Restoration Area	Vegetative Area	Miss.	202R	1,112	>10	0.0	0.1	0.2	0.3	0.4
Ellis Bay & Teal Pond Habitat Area	Vegetative Area	Miss.	202R	545	>10	0.0	0.1	0.2	0.3	0.4
Columbia Bottoms Levee	Wildlife Area	Miss.	194R		100	0.0	0.1	0.1	0.3	0.3
Horseshoe Lake Mitigation Area	Wildlife Area	Miss.	184L	621	>10	0.0	0.1	0.2	0.3	0.4
Kidd Lake Marsh	Natural Area	Miss.	154L	600	<10	0.0	0.0	0.1	0.3	0.3
Shawnee NF-Murphysboro District	Vegetative Area	Miss.	88L	14,329	>10	0.0	0.0	0.1	0.3	0.3
Laure-Pine Hills Ecological Area	Natural Area	Miss.	66L	1,200	<10	0.0	0.0	0.1	0.2	0.2
Union County Conservation Area	Wildlife Area	Miss.	63 L	6,096	>10	0.0	0.1	0.1	0.2	0.2
MTNWR (Calhoun Division)	Wildlife Area	Miss.	7R	435	<5	0.0	0.0	0.1	0.1	0.2
MTNWR (Gilbert Lake Division)	Wildlife Area	Miss.	5L	738	<5	0.0	0.0	0.1	0.1	0.2

TABLE 10. POTENTIAL SYSTEMIC PLAN IMPACTS TO CONSERVATION AREAS—PLAN D (Continued)

Management Area	Type of Management Area	River	Mid-Point River Mile	Acres Protected	Existing Levee Flood Protection Level	Induced Rise				
						2-Year	5-Year	10-Year	20-Year	25-Year
ILLINOIS RIVER										
Banner Marsh	Wildlife Area	Illinois	141	5,524	<10	0.0	0.0	0.0	0.0	0.1
Rice Lake	Wildlife Area	Illinois	135	5,592	<10	0.0	0.0	0.0	0.0	0.1
Lake Chautauqua	Wildlife Area	Illinois	127	4,212	<10	0.0	0.0	0.0	0.1	0.1
Meredosia Refuge	Wildlife Area	Illinois	74L	300	>10	0.0	0.0	0.1	0.2	0.3
MRA (Fuller Lake WMA)	Wildlife Area	Illinois	12R	1,088	<5	0.0	0.1	0.2	0.3	0.4
MRA (Stump Lake WMA)	Wildlife Area	Illinois	10L	3,580	<5	0.0	0.1	0.2	0.3	0.4

TABLE 11. POTENTIAL SYSTEMIC PLAN IMPACTS TO CONSERVATION AREAS—PLAN E

Management Area	Type of Management Area	River	Mid-Point River Mile	Acres Protected	Existing Levee Flood Protection Level	Induced Rise				
						2-Year	5-Year	10-Year	20-Year	25-Year
MISSISSIPPI RIVER										
Pool 11 Islands	Wildlife Area	Miss.	588	10,342	<10	0.0	0.0	0.0	0.0	0.0
Pool 12 Overwintering	Wildlife Area	Miss.	569	628	<10	0.0	0.0	0.0	0.0	0.0
Pleasant Creek	Wildlife Area	Miss.	551	2,530	<10	0.0	0.0	0.0	0.0	0.0
Spring Lake	Wildlife Area	Miss.	534	3,300	<10	0.0	0.0	0.0	0.0	0.0
Princeton Refuge	Wildlife Area	Miss.	505	1,129	<10	0.0	0.0	0.0	0.0	0.0
Andalusia	Wildlife Area	Miss.	463	393	<10	0.0	0.0	0.0	0.0	0.0
Big Timber	Wildlife Area	Miss.	439	1,039	<10	0.0	0.0	0.0	0.0	0.0
Lake Odessa	Wildlife Area	Miss.	438	6,800	<10	0.0	0.0	0.0	0.0	0.0
Bay Island	Wildlife Area	Miss.	312	650	<10	0.0	0.0	0.0	0.0	0.0
Ted Shanks State CA	Wildlife Area	Miss.	291R	6,636	20	0.0	0.0	0.1	0.1	0.0
MTNWR (Delair Division)	Wildlife Area	Miss.	279L	1,737	>10	0.1	0.1	0.1	0.1	0.1
Clarksville Refuge	Wildlife Area	Miss.	275R	346	>10	0.1	0.1	0.1	0.1	0.1
MRA (Rip-Rap Landing)	Wildlife Area	Miss.	265L	125	>10	0.2	0.2	0.2	0.3	0.3
Clarence Cannon NWR	Wildlife Area	Miss.	262R	3,601	5-10	0.2	0.2	0.3	0.3	0.3
Prairie Slough CA	Wildlife Area	Miss.	258R	120	>10	0.2	0.2	0.2	0.3	0.3
B.K. Leach CA	Wildlife Area	Miss.	250R	1,413	>10	0.1	0.2	0.2	0.3	0.3
MTNWR (Batchtown Division)	Wildlife Area	Miss.	248L	2,403	5-10	0.1	0.2	0.2	0.3	0.3
Batchtown Wildlife Area	Wildlife Area	Miss.	245L	2,540	<5	0.1	0.1	0.2	0.3	0.3
MRA (Calhoun Point)	Wildlife Area	Miss.	221L	2,057	<5	0.0	0.1	0.2	0.3	0.3
Marvais Temps Clair	Wildlife Area	Miss.	217R	918	>10	0.0	0.1	0.2	0.3	0.3
Dresser Island CA	Wildlife Area	Miss.	208R	1,059	5-10	0.0	0.1	0.2	0.3	0.3
Prairie-Marsh Restoration Area	Vegetative Area	Miss.	202R	1,112	>10	0.0	0.1	0.2	0.3	0.3
Ellis Bay & Teal Pond Habitat Area	Vegetative Area	Miss.	202R	545	>10	0.0	0.1	0.2	0.3	0.3
Columbia Bottoms Levee	Wildlife Area	Miss.	194R		100	0.0	0.1	0.2	0.3	0.3
Horseshoe Lake Mitigation Area	Wildlife Area	Miss.	184L	621	>10	0.0	0.1	0.2	0.3	0.3
Kidd Lake Marsh	Natural Area	Miss.	154L	600	<10	0.0	0.1	0.1	0.2	0.3
Shawnee NF-Murphysboro District	Vegetative Area	Miss.	88L	14,329	>10	0.0	0.1	0.1	0.2	0.2
Laure-Pine Hills Ecological Area	Natural Area	Miss.	66L	1,200	<10	0.0	0.1	0.1	0.1	0.2
Union County Conservation Area	Wildlife Area	Miss.	63 L	6,096	>10	0.0	0.0	0.1	0.1	0.2
MTNWR (Calhoun Division)	Wildlife Area	Miss.	7R	435	<5	0.0	0.0	0.1	0.1	0.1
MTNWR (Gilbert Lake Division)	Wildlife Area	Miss.	5L	738	<5	0.0	0.0	0.1	0.1	0.1

TABLE 11. POTENTIAL SYSTEMIC PLAN IMPACTS TO CONSERVATION AREAS—PLAN E (Continued)

Management Area	Type of Management Area	River	Mid-Point River Mile	Acres Protected	Existing Levee Flood Protection Level	Induced Rise				
						2-Year	5-Year	10-Year	20-Year	25-Year
ILLINOIS RIVER										
Banner Marsh	Wildlife Area	Illinois	141	5,524	<10	0.0	0.0	0.0	0.0	0.1
Rice Lake	Wildlife Area	Illinois	135	5,592	<10	0.0	0.0	0.0	0.0	0.1
Lake Chautauqua	Wildlife Area	Illinois	127	4,212	<10	0.0	0.0	0.0	0.0	0.1
Meredosia Refuge	Wildlife Area	Illinois	74L	300	>10	0.0	0.0	0.0	0.1	0.2
MRA (Fuller Lake WMA)	Wildlife Area	Illinois	12R	1,088	<5	0.0	0.1	0.2	0.3	0.3
MRA (Stump Lake WMA)	Wildlife Area	Illinois	10L	3,580	<5	0.0	0.1	0.2	0.3	0.3

TABLE 12. PLANS QUANTIFIED FOR SECONDARY DEVELOPMENT IMPACTS

Plan	Secondary Development	Remarks
No Action	Yes	There are no structural features under this plan; however, planning regulations require that this plan be documented.
A	No	The plan was determined to be fatally flawed from a hydraulics standpoint; therefore a secondary development impacts analysis was not deemed appropriate.
B	Yes	This structural plan involves increased levels of levee protection, and therefore therefore the impacts of potential secondary development were assessed.
C	No	This plan was not evaluated environmentally, due to an earlier determination that a corresponding economics analysis would not be conducted.
D	Yes	This structural plan involves increased levels of levee protection, and therefore therefore the impacts of potential secondary development were assessed.
E	Yes	This structural plan involves increased levels of levee protection, and therefore therefore the impacts of potential secondary development were assessed.
F	No	Since all levee raises are confined to existing urban areas with no proposed buyouts—secondary development was not a concern.
G	No	A PDT decision was made to not environmentally quantify this plan.
H	Yes	Evaluation results for Plan S-7 are the same as those indicated for Plan S-1.
I	Yes	Since structures removal is proposed, secondary development in reverse would result--and was therefore quantified.
J	Yes	Since structures removal is proposed, secondary development in reverse would result--and was therefore quantified.
K	No	Since there is no site-specific data on the location and nature of impacts stemming from the critical infra-structure improvements—no quantification of secondary impacts could be conducted.
L	No	Since there is no site-specific data on the location and nature of impacts stemming from the critical infra-structure improvements—no quantification of secondary impacts could be conducted.

TABLE 13. SECONDARY DEVELOPMENT POTENTIAL BY ALTERNATIVE PLAN

Plan	Reach	Potential Secondary Development Lands **			Potential Acreages and Percent Distribution Changes in Secondary Development **											
		Future Without Systemic Plan	Future With Systemic Plan	Net Change	Proximity to Nearest Bridge						Proximity to Nearest Major Urban Area *					
					0-5 Miles		5-10 Miles		>10 Miles		0-25 Miles		25-50 Miles		>50 Miles	
No Action Plan	R1	562	562	0	0	0	0	0	0	0	0	0	0	0	0	0
	R2	81,898	81,898	0	0	0	0	0	0	0	0	0	0	0	0	0
	R3	297,085	297,085	0	0	0	0	0	0	0	0	0	0	0	0	0
	R4	66,798	66,798	0	0	0	0	0	0	0	0	0	0	0	0	0
	UMRS	446,343	446,343	0	0	0	0	0	0	0	0	0	0	0	0	0
Plan B	R1	562	562	0	0	0	0	0	0	0	0	0	0	0	0	0
(No Buyouts; Options 1, 2 or 4)	R2	81,898	143,466	61,568	12,314	20	21,549	35	27,706	45	61,568	100	0	0	0	0
	R3	297,085	486,252	189,167	83,233	44	20,808	11	85,125	45	109,717	58	62,425	33	17,025	9
	R4	66,798	136,100	69,302	49,897	72	6,930	10	12,474	18	11,086	16	8,316	12	49,897	72
	UMRS	446,343	766,380	320,037	145,444	45	49,287	15	125,305	39	182,373	57	70,741	22	66,922	21
Plan B	R1	562	562	0	0	0	0	0	0	0	0	0	0	0	0	0
(Buyouts; Option 3)	R2	81,898	138,458	56,560	9,615	17	20,362	36	26,583	47	56,560	100	0	0	0	0
	R3	297,085	458,228	161,143	72,514	45	19,337	12	69,291	43	96,686	60	49,954	31	14,503	9
	R4	66,798	64,870	-1,928	-1,446	-75	0	0	-482	-25	-482	-25	-328	-17	-1,118	-58
	UMRS	446,343	662,118	215,775	80,683	37	39,699	18	95,392	45	152,764	71	49,626	23	13,385	6

* A major urban area is here defined as a town or city with an existing population >10,000 people.

** These are plan related lands that would have a 100-yr level of protection or greater. These values were determined by reviewing the H&H documentation for the alternative plans. Plan S-3(U3) was also useful for establishing the baseline levees condition.

TABLE 13. SECONDARY DEVELOPMENT POTENTIAL BY ALTERNATIVE PLAN (Continued)

Plan	Reach	Potential Secondary Development Lands **			Potential Acreages and Percent Distribution Changes in Secondary Development **											
		Future Without Systemic Plan	Future With Systemic Plan	Net Change	Proximity to Nearest Bridge						Proximity to Nearest Major Urban Area *					
					0-5 Miles		5-10 Miles		>10 Miles		0-25 Miles		25-50 Miles		>50 Miles	
Plan D	R1	562	562	0	0	0	0	0	0	0	0	0	0	0	0	0
(No Buyouts; Options 1, 2 or 4)	R2	81,898	81,898	0	0	0	0	0	0	0	0	0	0	0	0	0
	R3	297,085	297,981	896	314	35	63	7	520	58	493	55	332	37	72	8
	R4	66,798	66,950	152	135	89	0	0	17	11	14	9	27	18	111	73
	UMRS	446,343	447,391	1048	449	43	63	6	537	51	507	48	359	34	183	17
Plan D	R1	562	562	0	0	0	0	0	0	0	0	0	0	0	0	0
(Buyouts; Option 3)	R2	81,898	81,898	0	0	0	0	0	0	0	0	0	0	0	0	0
	R3	297,085	297,981	896	314	35	63	7	520	58	502	56	323	36	72	8
	R4	66,798	59,681	-7117	-6761	-95	0	0	-356	-5	-427	-6	-1352	-19	-5,338	-75
	UMRS	446,343	440,122	-6221	-6447	-104	63	1	164	3	75	1	-1029	-17	-5,266	-85
Plan E	R1	562	562	0	0	0	0	0	0	0	0	0	0	0	0	0
(No Buyouts; Options 1, 2 or 4)	R2	81,898	82011	-113	-17	-15	-35	-31	-61	-54	-113	-100	0	0	0	0
	R3	297,085	297,981	896	314	35	63	7	520	58	502	56	323	36	72	8
	R4	66,798	66,950	152	135	89	0	0	17	11	14	9	27	18	111	73
	UMRS	446,343	447,504	935	432	46	28	3	476	51	403	43	350	37	183	20

* A major urban area is here defined as a town or city with an existing population >10,000 people.

** These are plan related lands that would have a 100-yr level of protection or greater. These values were determined by reviewing the H&H documentation for the alternative plans. Plan S-3(U3) was

TABLE 13. SECONDARY DEVELOPMENT POTENTIAL BY ALTERNATIVE PLAN (Continued)

Plan	Reach	Potential Secondary Development Lands **			Potential Acreages and Percent Distribution Changes in Secondary Development **										
		Future Without Systemic Plan	Future With Systemic Plan	Net Change	Proximity to Nearest Bridge				Proximity to Nearest Major Urban Area *						
					0-5 Miles		5-10 Miles		>10 Miles		0-25 Miles		25-50 Miles		>50 Miles
					Ac	%	Ac	%	Ac	%	Ac	%	Ac	%	Ac %
Plan E	R1	562	562	0	0	0	0	0	0	0	0	0	0	0	0
(Buyouts; Option 3)	R2	81,898	82,011	-113	-17	-15	-35	-31	-61	-54	-113	-100	0	0	0
	R3	297,085	297,981	896	314	35	63	7	520	58	502	56	323	36	72
	R4	66,798	62,594	4204	3784	90	0	0	420	10	420	10	757	18	3,027
	UMRS	446,343	443,148	4987	4081	82	28	1	879	17	809	16	1080	22	3,099
Plan I	R1	562	562	0	0	0	0	0	0	0	0	0	0	0	0
(Buyout, Option 3)	R2	81,898	80,446	-1452	-218	-15	-436	-30	-799	-55	-1452	-100	0	0	0
	R3	297,085	292,084	-5001	-1750	-35	-350	-7	-2900	-58	-2801	-56	-1800	-36	-400
	R4	66,798	64,455	-2343	-2109	-90	0	0	-234	-10	-164	-7	-445	-19	-1,734
	UMRS	446,343	174,547	-8776	-4077	-46	-786	-9	-3933	-45	-4417	-50	-2245	-26	-2,134
Plan J	R1	562	562	0	0	0	0	0	0	0	0	0	0	0	0
(Buyouts; Option 3)	R2	81,898	32613	-49285	-10843	-22	-38,442	-78	0	0	-49,285	-100	0	0	0
	R3	297,085	75,630	-221,455	-205953	-93	-15,502	-7	0	0	-221,455	-100	0	0	0
	R4	66,798	3,210	-63,588	-1272	-2	0	0	-62,316	-98	-63,588	-100	0	0	0
	UMRS	446,343	112,015	-334,328	-218068	-65	-53,944	-16	-62,316	-19	-334,328	-100	0	0	0
	UMRS														

TABLE 14. PLANS QUANTIFIED FOR ER OPPORTUNITY IMPACTS

Plan	ER Opportunities			Remarks
	Option 2	Option 3	Option 4	
No Action	Yes	Yes	Yes	There are no structural features under this plan; however, planning regulations require that this plan be documented.
A	No	No	No	This plan was not evaluated environmentally, due to an earlier determination that the plan was fatally flawed from a hydraulics standpoint.
B	Yes	Yes	Yes	Prospects for both conservation easements and buyouts were generated by this structural plan, and the plan was evaluated for ER opportunities.
C	No	No	No	This plan was not evaluated environmentally, due to an earlier determination that a corresponding economics analysis would not be conducted.
D	Yes	Yes	Yes	Prospects for both conservation easements and buyouts were generated by this structural plan, and the plan was evaluated for ER opportunities.
E	Yes	Yes	Yes	Prospects for both conservation easements and buyouts were generated by this structural plan, and the plan was evaluated for ER opportunities.
F	No	No	No	Since this plan does not involve raising levees or acquiring easements in agricultural regions—no ER opportunities exist.
G	No	No	No	Due to the far-reaching geographic implications of this plan, a PDT decision was made to not quantify the ER opportunities of this plan.
H	No	Yes	No	Evaluation results for Plan H are the same as those indicated for Plan B Option 3.
I	No	Yes	No	Since the plan does not involve raising levees or acquiring easements in agricultural regions—no ER conservation easement opportunities (Options 2 & 4) exist. Areas of community buyout due provide an ER opportunity (Option 3).
J	No	Yes	No	Since the plan does not involve raising levees or acquiring easements in agricultural regions—no ER conservation easement opportunities (Options 2 & 4) exist. It's assumed that the removal of ag levees would essentially require a buyout of the undeveloped floodplain (i.e. Option 3).
K	No	No	No	Since there is no site-specific data on the location and nature of the impacts stemming from the critical infra-structure improvements—no quantification of ER opportunities could be conducted.
L	No	No	No	Since there is no site-specific data on the location and nature of the impacts stemming from the critical infra-structure improvements—no quantification of ER opportunities could be conducted.

TABLE 15. GENERIC ECOSYSTEM RESTORATION COST MULTIPLIERS BY HABITAT MANAGEMENT OPTION

Habitat Management Option		Typical Floodplain Ecosystem Restoration Costs Per Acre of Influence		
		F&W Facilities	RE Costs +	Total Cost
Option 1	No Action	0	0	0
Option 2	Conservation Easements Acquired in Conjunction with Plan Flowage Easements	2,600	2,500 **	5,100
Option 3	Buyouts	2,600	0 ***	2,600
Option 4	Conservation Easements on Lands Adjacent to Levees Construction	2,600	3,500 *	6,100

+ Costs include lands, damages and contingencies, but not acquisition or relocation expenses

*Full (100%) RE Rights is assumed to cost \$3,500 per acre in areas where there are no flowage easements in place

** Partial (66%) RE Rights is applicable to areas with flowage easements at an estimated cost of \$2,500 per acre

*** Land costs are assumed to be assigned to FDR rather than ER

TABLE 16. DERIVATION OF FLOODPLAIN VIRTUAL REFERENCE FOR ACRES OF INFLUENCE *								
Evaluation Factor			Location					
			R1	R2	R3	R4		
a	Total ER Project Opportunities (=River + Floodplain Virtual Reference)		687	137	419	208	1,451	
b	Navigation Study Addressed ER Project Opportunities (=Alternative D)		441	116	277	175	1,009	
c	Unaddressed ER Project Opportunities (= b - c)		246	21	142	33	442	
d	Unaddressed ER Project Opportunities Unrelated to UMRCP FDR Study		99	7	84	13	203	
Floodplain Virtual Reference (=100% Floodplain Sustainability Level)		Unaddressed Floodplain Opportunities Related to UMRCP FDR Study (= c - d)	147	14	58	20	239	
		f	Acres of Influence Per ER Project Opportunity	1,295	1,295	1,295	1,295	1,295
		g	Acres of Influence—All ER Projects Opportunities Combined	190,365	18,130	75,110	25,900	309,505

* Baseline year is 2004. Future habitat condition is assumed to equal the existing river condition.

TABLE 17. PLAN B—UNCONFINED 500-YEAR URBAN / 500-YEAR AG PROTECTION PLAN— TOTAL ER OPPORTUNITIES ACREAGE AND PERCENT AREA MANAGED											
Ecosystem Management Option		Total ER Opportunities Acreage *					Percent Area Managed **				
		(a)					(b)				
		R1	R2	R3	R4	T	R1	R2	R3	R4	T
1	No Action	0	0	0	0	0	0	0	0	0	0
2	Conservation Easements in Conjunction with Plan Flowage Easements	0	0	170,748	1,585	172,333	25	25	25	25	25
3	Buyouts	0	5,008	44,441	125,553	175,002	100	100	100	100	100
4	Conservation Easements on Lands Adjacent to Levee Construction	0	0	0	0	0	25	25	25	25	25

* See Chapter 5 Attachments for the application of the screening criteria used to arrive at the project opportunity totals.

** Option 1—Assumes no major landuse conversion to native habitat types in the absence of a UMRCP systemic program.

Option 2—Since participation is voluntary under this option, the area of influence would likely be low. It is assumed that most farmers would want to continue their agricultural pursuits except on the most marginal of lands within a given D&LD. Achieving a regional goal of 25% native habitat coverage is here assumed to be an ambitious, but potentially achievable goal.

Option 3—Since participation under this option is mandatory, a nearly 100% conversion to native habitat types is assumed as an achievable goal.

Option 4—The area of influence would be similar to that of Option 2, i.e. a maximum of 25% land conversion.

TABLE 18. PLAN B—UNCONFINED 500-YEAR URBAN / 500-YEAR AG PROTECTION PLAN— POTENTIAL ER MANAGED ACRES AND PERCENT SUSTAINABILITY ACHIEVED											
Ecosystem Management Option		Potential ER Managed Acres (Table 7 Columns a x b) (a)					Percent Sustainability Achieved **				
		R1	R2	R3	R4	T	R1	R2	R3	R4	T
1	No Action	0	0	0	0	0	0	0	0	0	0
2	Conservation Easements in Conjunction with Plan Flowage Easements	0	0	42,687	396	43,083	0	0	57	2	14
3	Buyouts	0	5,008	44,441	125,553	175,002	0	28	60	485	57
4	Conservation Easements on Lands Adjacent to Levee Construction	0	0	0	0	0	0	0	0	0	0

** Sustainability Level Achieved = Potential ER Project Acres divided by total reach acres needed to achieve 100% sustainability (Table 6, row g values) times 100.

TABLE 19. PLAN B)—UNCONFINED 500-YEAR URBAN / 500-YEAR AG PROTECTION PLAN—
FIRST COSTS

Ecosystem Management Option		ER First Costs Per Acre (a)					ER Total First Costs (Millions) (b)				
		R1	R2	R3	R4	T	R1	R2	R3	R4	T
1	No Action	0	0	0	0	0	0	0	0	0	0
2	Conservation Easements in Conjunction with Plan Flowage Easements	5,100	5,100	5,100	5,100	5,100	0	0	217	2	219
3	Buyouts	2,600	2,600	2,600	2,600	2,600	0	13	116	326	455
4	Conservation Easements on Lands Adjacent to Levee Construction	6,100	6,100	6,100	6,100	6,100	0	0	0	0	0

TABLE 20. PLAN D—UNCONFINED 500-YEAR URBAN / 100-YEAR AG PROTECTION PLAN—
TOTAL ACREAGE WITHIN ER OPPORTUNITIES ZONE AND OPTION AREA OF INFLUENCE

Ecosystem Management Option		Total Acreage within ER Projects Zone (a)					Option Percent Area Influence** (b)				
		R1	R2	R3	R4	T	R1	R2	R3	R4	T
1	No Action	0	0	0	0	0	0	0	0	0	0
2	Conservation Easements in Conjunction with Plan Flowage Easements	0	61,568	276,226	190,182	527,976	25	25	25	25	25
3	Buyouts	0	0	36,139	94503	130,642	100	100	100	100	100
4	Conservation Easements on Lands Adjacent to Levee Construction	0	0	0	0	0	25	25	25	25	25

**TABLE 21. PLAN D—UNCONFINED 500-YEAR URBAN / 100-YEAR AG PROTECTION PLAN—
POTENTIAL ER MANAGED ACRES AND PERCENT SUSTAINABILITY ACHIEVED**

Ecosystem Management Option		Potential ER Managed Acres (Table 7 Columns a x b)					Percent Sustainability Achieved **				
		(a)					(b)				
		R1	R2	R3	R4	T	R1	R2	R3	R4	T
1	No Action	0	0	0	0	0	0	0	0	0	0
2	Conservation Easements in Conjunction with Plan Flowage Easements	0	15,392	69,057	47,546	131,995	0	85	92	184	43
3	Buyouts	0	0	36,139	94503	130,642	0	0	48	364	42
4	Conservation Easements on Lands Adjacent to Levee Construction	0	0	0	0	0	0	0	0	0	0

**TABLE 22.. PLAN D—UNCONFINED 500-YEAR URBAN / 100-YEAR AG PROTECTION PLAN—
ER FIRST COSTS PER PROJECT ACRE AND ER TOTAL COSTS**

Ecosystem Management Option		ER First Costs Per Acre (a)					ER Total First Costs (Millions) (b)				
		R1	R2	R3	R4	T	R1	R2	R3	R4	T
1	No Action	0	0	0	0	0	0	0	0	0	0
2	Conservation Easements in Conjunction with Plan Flowage Easements	5,100	5,100	5,100	5,100	5,100	0	78	352	242	672
3	Buyouts	2,600	2,600	2,600	2,600	2,600	0	0	94	246	340
4	Conservation Easements on Lands Adjacent to Levee Construction	6,100	6,100	6,100	6,100	6,100	0	0	0	0	0

TABLE 23. PLAN E—UNCONFINED 500-YEAR URBAN (RIVERSIDE LEVEE IMPROVEMENTS) / 50-YEAR AG PROTECTION PLAN—
TOTAL ACREAGE WITHIN ER OPPORTUNITIES ZONE AND OPTION AREA OF INFLUENCE

Ecosystem Management Option		Total Acreage within ER Projects Zone					Option Percent Area Influence**				
		(a)					(b)				
		R1	R2	R3	R4	T	R1	R2	R3	R4	T
1	No Action	0	0	0	0	0	0	0	0	0	0
2	Conservation Easements in Conjunction with Plan Flowage Easements	0	14,687	124,469	123,102	262,258	25	25	25	25	25
3	Buyouts	0	0	42,023	91,866	133,889	100	100	100	100	100
4	Conservation Easements on Lands Adjacent to Levee Construction	0	8,432	0	4,266	12,698	25	25	25	25	25

TABLE 24. E—UNCONFINED 500-YEAR URBAN / 50-YEAR AG PROTECTION PLAN—
POTENTIAL ER MANAGED ACRES AND PERCENT SUSTAINABILITY ACHIEVED

Ecosystem Management Option		Potential ER Managed Acres (Table 7 Columns a x b)					Percent Sustainability Achieved **				
		(a)					(b)				
		R1	R2	R3	R4	T	R1	R2	R3	R4	T
1	No Action	0	0	0	0	0	0	0	0	0	0
2	Conservation Easements in Conjunction with Plan Flowage Easements	0	3,672	31,117	30,776	65,565	0	20	41	119	21
3	Buyouts	0	0	42,023	91,866	133,889	0	0	56	355	43
4	Conservation Easements on Lands Adjacent to Levee Construction	0	2,108	0	1,067	3,175	0	12	0	4	1

TABLE 25.. PLAN E—UNCONFINED 500-YEAR URBAN / 500-YEAR AG PROTECTION PLAN—
ER FIRST COSTS PER PROJECT ACRE AND ER TOTAL COSTS

Ecosystem Management Option		ER First Costs Per Acre (a)					ER Total First Costs (Millions) (b)				
		R1	R2	R3	R4	T	R1	R2	R3	R4	T
1	No Action	0	0	0	0	0	0	0	0	0	0
2	Conservation Easements in Conjunction with Plan Flowage Easements	5,100	5,100	5,100	5,100	5,100	0	19	159	157	334
3	Buyouts	2,600	2,600	2,600	2,600	2,600	0	0	109	239	348
4	Conservation Easements on Lands Adjacent to Levee Construction	6,100	6,100	6,100	6,100	6,100	0	13	0	7	20

TABLE 26. PLAN H—UNCONFINED 500-YEAR URBAN (RIVERSIDE LEVEE IMPROVEMENTS) / 50-YEAR AG PROTECTION PLAN—
TOTAL ACREAGE WITHIN ER OPPORTUNITIES ZONE AND OPTION AREA OF INFLUENCE

Ecosystem Management Option		Total Acreage within ER Projects Zone					Option Percent Area Influence**				
		(a)					(b)				
	R1	R2	R3	R4	T	R1	R2	R3	R4	T	
1	No Action	0	0	0	0	0	0	0	0	0	0
3	Buyouts	0	5,008	44,441	125,553	175,002	100	100	100	100	100

**TABLE 27. PLAN H—UNCONFINED 500-YEAR URBAN / 50-YEAR AG PROTECTION PLAN—
POTENTIAL ER MANAGED ACRES AND PERCENT SUSTAINABILITY ACHIEVED**

Ecosystem Management Option		Potential ER Managed Acres (Table 7 Columns a x b) (a)					Percent Sustainability Achieved ** (b)				
		R1	R2	R3	R4	T	R1	R2	R3	R4	T
1	No Action	0	0	0	0	0	0	0	0	0	0
3	Buyouts	0	5,008	44,441	125,553	175,002	0	28	60	485	57

**TABLE 28.. PLAN H—UNCONFINED 500-YEAR URBAN / 500-YEAR AG PROTECTION PLAN—
ER FIRST COSTS PER PROJECT ACRE AND ER TOTAL COSTS**

Ecosystem Management Option		ER First Costs Per Acre (a)					ER Total First Costs (Millions) (b)				
		R1	R2	R3	R4	T	R1	R2	R3	R4	T
1	No Action	0	0	0	0	0	0	0	0	0	0
3	Buyouts	2,600	2,600	2,600	2,600	2,600	0	13	116	326	455

TABLE 29. PLAN I—RELOCATION OF URBAN RESOURCES OUTSIDE OF THE 100-YEAR FLOODPLAIN—
TOTAL ACREAGE WITHIN ER OPPORTUNITIES ZONE AND OPTION AREA OF INFLUENCE

Ecosystem Management Option		Total Acreage within ER Projects Zone					Option Percent Area Influence**				
		(a)					(b)				
	R1	R2	R3	R4	T	R1	R2	R3	R4	T	
1	No Action	0	0	0	0	0	0	0	0	0	
3	Buyouts	0	1,452	5,999	2,340	9,791	100	100	100	100	

TABLE 30. PLAN I—RELOCATION OF URBAN RESOURCES OUTSIDE OF THE 100-YEAR FLOODPLAIN—
POTENTIAL ER MANAGED ACRES AND PERCENT SUSTAINABILITY ACHIEVED

Ecosystem Management Option		Potential ER Managed Acres (Table 7 Columns a x b)					Percent Sustainability Achieved **				
		(a)					(b)				
	R1	R2	R3	R4	T	R1	R2	R3	R4	T	
1	No Action	0	0	0	0	0	0	0	0	0	
3	Buyouts	0	1,452	5,999	2,340	9,791	0	8	8	9	3

TABLE 31.. PLAN I—RELOCATION OF URBAN RESOURCES OUTSIDE OF THE 100-YEAR FLOODPLAIN—
ER FIRST COSTS PER PROJECT ACRE AND ER TOTAL COSTS

Ecosystem Management Option		ER First Costs Per Acre (a)					ER Total First Costs (Millions) (b)				
		R1	R2	R3	R4	T	R1	R2	R3	R4	T
1	No Action	0	0	0	0	0	0	0	0	0	0
3	Buyouts	2,600	2,600	2,600	2,600	2,600	0	4	16	6	25

TABLE 32. PLAN J—RELOCATION OF URBAN RESOURCES OUTSIDE OF THE 100-YEAR FLOODPLAIN—
TOTAL ACREAGE WITHIN ER OPPORTUNITIES ZONE AND OPTION AREA OF INFLUENCE

Ecosystem Management Option		Total Acreage within ER Projects Zone (a)					Option Percent Area Influence** (b)				
		R1	R2	R3	R4	T	R1	R2	R3	R4	T
1	No Action	0	0	0	0	0	0	0	0	0	0
3	Buyouts	0	113,401	511,172	183,370	807,943	100	100	100	100	100

** Sustainability Level Achieved = Potential ER Managed Acres divided by total reach acres needed (Table 6, row g values) to achieve 100% sustainability times 100.

TABLE 33. PLAN J—RELOCATION OF URBAN RESOURCES OUTSIDE OF THE 100-YEAR FLOODPLAIN—
POTENTIAL ER MANAGED ACRES AND PERCENT SUSTAINABILITY ACHIEVED

Ecosystem Management Option		Potential ER Managed Acres (Table 7 Columns a x b) (a)					Percent Sustainability Achieved ** (b)				
		R1	R2	R3	R4	T	R1	R2	R3	R4	T
1	No Action	0	0	0	0	0	0	0	0	0	0
3	Buyouts	0	113,401	511,172	183,370	807,943	0	625	681	708	261

TABLE 34.. PLAN J—RELOCATION OF URBAN RESOURCES OUTSIDE OF THE 100-YEAR FLOODPLAIN—
ER FIRST COSTS PER PROJECT ACRE AND ER TOTAL COSTS

Ecosystem Management Option		ER First Costs Per Acre (a)					ER Total First Costs (Millions) (b)				
		R1	R2	R3	R4	T	R1	R2	R3	R4	T
1	No Action	0	0	0	0	0	0	0	0	0	0
3	Buyouts	2,600	2,600	2,600	2,600	2,600	0	295	1,329	477	261

CHAPTER 5—ATTACHMENTS

ATTACHMENT 1. PLAN B MITIGATION REQUIREMENTS FOR MISSISSIPPI RIVER
 (NOTE: Yellow = D&LDs with land impacts beyond the existing levee footprint)

Leveed Area	Mid Point River Mile	Clearing								Floodplain Restoration Per Acre Cost Multiplier (\$/Ac)	Mitigation Costs Annualized over Project Life (\$)			
		Additional Permanent Real Estate Interest (Beyond Existing) (Ac)							Temporary Construction Easement (Ac)					
		T	A	D	W	F	NF	NC	T-(A+D)		T	Perm	Temp	Perm
Existing Levees														
MVP Leveed Areas*		0	0	0	0	0	0	0	0	0	5,600	0	0	0
Dubuque	580.60	0	0	0	0	0	0	0	0	0	5,600	0	0	0
East Dubuque	579.0	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Green Island	546.0	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Sabula	535.00	8	0	7	0	1	0	0	1	12	5,600	0	5,600	0
REACH 1 SUBTOTALS	--	8	0	7	0	1	0	0	1	12	5,600	0	5,600	0
Existing Levees														
Fulton	519.80	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Clinton	517.30	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Meredosia	511.50	8	6	1	0	0	1	0	1	13	5,600	0	5,600	0
East Moline	489.30	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Bettendorf	486.60	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Rock Island	481.20	3	0	2	1	0	0	0	1	11	5,600	0	5,600	0
Milan	478.50	0	0	0	0	0	0	0	0	6	5,600	0	0	0
Andalusia **	473.40	8	3	1	0	3	1	0	4	9	5,600	0	22,400	0
Muscatine/Mad Creek	456.00	2	0	0	0	0	0	2	2	5	5,600	0	11,200	0
Drury	455.20	72	2	6	1	46	3	14	64	58	5,600	0	358,400	0
Muscatine Island	448.40	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Bay Island **	442.60	126	42	10	4	47	15	8	74	152	5,600	0	414,400	0
Keithsburg	427.60	5	0	4	0	1	0	0	1	8	5,600	0	5,600	0
Iowa R.-Flint Cr	416.40	167	63	7	7	63	19	8	97	227	5,600	0	543,200	0
Henderson #1	407.30	50	15	7	0	27	1	0	28	68	5,600	0	156,800	0
Burlington Bottoms	405.0	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Henderson #2 **	402.40	31	10	2	1	12	4	2	19	39	5,600	0	106,400	0
Green Bay	391.00	73	39	2	1	8	23	0	32	97	5,600	0	179,200	0
Niota	384	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Keokuk	363.0	0	0	0	0	0	0	0	0	0	5,600	0	0	0
New Levees														
REACH 2 SUBTOTALS		545	180	42	15	207	67	34	323	693	5,600	0	1,808,800	0
Existing Levees														
Des Moines/Mississippi	358.95	19	6	0	0	7	0	6	13	57	5,600	0	72,800	0
Mississippi & Fox	357.0	67	43	0	6	13	5	0	24	81	5,600	0	134,400	0
Hunt-Lima **	351.65	85	41	4	6	23	7	4	40	190	5,600	0	224,000	0
Gregory	351.25	24	13	2	1	7	1	0	9	67	5,600	0	50,400	0
Canion	342.00	8	2	3	2	0	1	0	3	25	5,600	0	16,800	0
Indian Grave	335.8	90	32	13	10	24	11	0	45	150	5,600	0	252,000	0
Union Township	333.30	41	29	3	0	6	0	3	9	44	5,600	0	50,400	0
Fabius	327.75	67	26	1	2	38	0	0	40	86	5,600	0	224,000	0
Marion County	322.40	57	53	0	0	1	1	2	4	45	5,600	0	22,400	0
South Quincy	321.70	18	3	8	0	6	1	0	7	53	5,600	0	39,200	0
South River Industrial **	319.00	0	0	0	0	0	0	0	0	0	5,600	0	0	0
South River Drainage	315.65	70	45	6	1	9	9	0	19	53	5,600	0	106,400	0
Hannibal	309.50	2	0	2	0	0	0	0	0	0	5,600	0	0	0
Sny Island Reach I	307.60	203	83	5	11	64	40	0	115	181	5,600	0	644,000	0
Sny Island Reach II	292.45	66	32	0	2	31	1	0	34	87	5,600	0	190,400	0
Riverland	289.6	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Sny Island Reach III	282.25	184	46	2	48	61	7	20	136	192	5,600	0	761,600	0

* No plan proposed levee modifications for 14 St. Paul District cities and towns. CODE: A=Agric., D=Devel., W=Water, F=Forest, NF= Non-Forest Wetlands, NC= No Photo Coverage

** Habitat type acreages distributed by applying reach habitat proportionality.

T=Total

ATTACHMENT 1. PLAN B MITIGATION REQUIREMENTS FOR MISSISSIPPI RIVER (NOTE: Yellow = D&LDs with land impacts beyond the existing levee footprint)														
Leveed Area	Mid Point River Mile	Clearing								Floodplain Restoration Per Acre Cost Multiplier (\$/Ac)	Mitigation Costs Annualized over Project Life (\$)			
		Additional Permanent Real Estate Interest (Beyond Existing) (Ac)							Temporary Construction Easement (Ac)					
		T	A	D	W	F	NF	NC	T-(A+D)		T	Perm	Temp	Perm
Existing Levees														
Petus-Burns-Prewitt-Jeager	271.60	97	72	2	0	22	0	1	23	22	5,600	0	128,800	0
Clarksville Levees	269.04	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Sny Island Reach IV	268.75	46	29	1	0	10	6	0	16	61	5,600	0	89,600	0
Kissinger Levee District	266.41	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Busch-Goose Pasture Farms	264.10	47	40	0	5	2	0	0	7	14	5,600	0	39,200	0
Cannon Wildlife Refuge Levee	262.24	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Annada	262.22	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Elsberry Drainage District	255.94	227	58	8	4	99	17	41	161	67	5,600	0	901,600	0
Kings Lake Drainage District	249.04	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Sandy Creek Drainage District	245.70	56	22	0	4	30	0	0	34	15	5,600	0	190,400	0
Foley Drainage District	245.03	86	21	10	2	47	6	0	55	23	5,600	0	308,000	0
Cap Au Gris D&LD	241.16	158	66	20	4	55	13	0	72	42	5,600	0	403,200	0
Winfield D&LD	238.88	168	73	20	10	40	2	23	75	46	5,600	0	420,000	0
Brevator D&LD	238.08	91	62	0	0	8	15	6	29	24	5,600	0	162,400	0
Schramm Private Levee	237.25	26	4	0	18	3	1	0	22	6	5,600	0	123,200	0
Old Monroe Private Levee	236.75	70	64	1	1	4	0	0	5	18	5,600	0	5,600	0
Heilman Private Levee	236.39	58	33	0	15	1	9	0	25	16	5,600	0	140,000	0
Marslan-Portuchek Private Levee	236.09	128	101	1	3	13	10	0	26	33	5,600	0	145,600	0
St. Peters Drainage Association No. 1	229.76	84	26	17	4	10	22	5	41	21	5,600	0	229,600	0
Consolidated North County Levee District	206.25	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Wood River	198.05	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Columbia Bottoms Levee	194.15	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Chouteau Island D&LD	191.19	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Chouteau, Nameoki and Venice D&LD	189.89	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Gabaret/Cabrolet Island D&LD	187.32	0	0	0	0	0	0	0	0	0	5,600	0	0	0
St. Louis Flood Protection Project **	181.69	24	12	1	2	6	2	1	11	24	5,600	0	61,600	0
Metro East Sanitary Dist.	179.35	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Praire du Pont	170.71	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Columbia	160.89	0	0	0	0	0	0	0	0	0	5,600	0	0	0

ATTACHMENT 1. PLAN B MITIGATION REQUIREMENTS FOR MISSISSIPPI RIVER
 (NOTE: Yellow = D&LDs with land impacts beyond the existing levee footprint)

Leveed Area	Mid Point River Mile	Clearing									Floodplain Restoration Per Acre Cost Multiplier (\$/Ac)	Mitigation Costs Annualized over Project Life (\$)			
		Additional Permanent Real Estate Interest (Beyond Existing) (Ac)										Temporary Construction Easement (Ac)	Perm	Temp	
		T	A	D	W	F	NF	NC	T-(A+D)	T					
Pevely	153	0	0	0	0	0	0	0	0	0	5,600	0	0	0	
Harrisonville	142.89	0	0	0	0	0	0	0	0	0	5,600	0	0	0	
Stringtown	139.50	0	0	0	0	0	0	0	0	0	5,600	0	0	0	
Fort Chartres & Ivy Landing	134.00	0	0	0	0	0	0	0	0	0	5,600	0	0	0	
Prairie Du Rocher & Modoc	124.45	0	0	0	0	0	0	0	0	0	5,600	0	0	0	
Ste. Genevieve Urban Levee	123.75	20	11	1	0	1	0	7	8	11	5,600	0	44,800	0	
Ste. Genevieve Levee District No. 2	119.51	0	0	0	0	0	0	0	0	0	5,600	0	0	0	
Bois Brule	103.22	0	0	0	0	0	0	0	0	0	5,600	0	0	0	
Degognia & Fountain Bluff	91.75	0	0	0	0	0	0	0	0	0	5,600	0	0	0	
Grand Tower	78.90	0	0	0	0	0	0	0	0	0	5,600	0	0	0	
Miller Pond	70.75	0	0	0	0	0	0	0	0	0	5,600	0	0	0	
Preston	70.73	0	0	0	0	0	0	0	0	0	5,600	0	0	0	
Clear Creek	61.02	0	0	0	0	0	0	0	0	0	5,600	0	0	0	
Cape Girardeau	52.15	0	0	0	0	0	0	0	0	0	5,600	0	0	0	
E. Cape Girardeau & Clear Creek	51.47	0	0	0	0	0	0	0	0	0	5,600	0	0	0	
N. Alexander Co.	51.45	0	0	0	0	0	0	0	0	0	5,600	0	0	0	
New Levees															
Louisiana Unprot. Comm.**	282.3	11	5	1	1	2	1	1	5	3	5,600	0	28,000	0	
Clarksville Unprot. Comm. **	273	17	8	1	1	5	1	1	8	4	5,600	0	44,800	0	
Annada Unprot. Comm. **	263	0	0	0	0	0	0	0	0	0	5,600	0	0	0	
Hamburg Unprot. Comm. **	258.3	18	9	1	1	5	1	1	8	3	5,600	0	44,800	0	
Foley Unprot. Comm. **	244.6	0	0	0	0	0	0	0	0	0	5,600	0	0	0	
Winfield Unprot. Comm. **	241	0	0	0	0	0	0	0	0	0	5,600	0	0	0	
Old Monroe Unprot. Comm. **	236	11	5	1	1	2	1	1	5	3	5,600	0	28,000	0	
Perique Creek (New Levee)	231.4	0	0	0	0	0	0	0	0	0	5,600	0	0	0	
Portage Des Sioux Unprot. Comm. **	212.4	48	24	2	3	13	4	2	22	9	5,600	0	123,200	0	
West Alton Unprot. Comm. **	203.5	94	44	5	7	25	8	5	45	19	5,600	0	252,000	0	
Arnold Unprot. Comm. **	160.5	95	45	5	7	25	8	5	45	21	5,600	0	252,000	0	
Kimmswick Unprot. Comm. **	159	32	15	2	2	9	2	2	15	6	5,600	0	84,000	0	
Sulpher Springs Unprot. Comm. **	156.7	19	10	1	1	5	1	1	8	3	5,600	0	44,800	0	
Herculaneum Unprot. Comm. **	151	65	31	3	5	18	5	3	31	11	5,600	0	173,600	0	
Chambersburg Unprot. Comm. **	66.7	0	0	0	0	0	0	0	0	0	5,600	0	0	0	
Florence Unprot. Comm. **	55.6	0	0	0	0	0	0	0	0	0	5,600	0	0	0	
Hubble Creek (New Levee)	49.28	0	0	0	0	0	0	0	0	0	5,600	0	0	0	
REACH 3 SUBTOTALS	--	2,792	1,344	153	190	750	219	141	1,300	1,836	5,600	0	7,280,000	0	

ATTACHMENT 2. PLAN B MITIGATION REQUIREMENTS FOR ILLINOIS RIVER (NOTE: Yellow = D&LDs with land impacts beyond the existing levee footprint)														
Leveed Area	Mid Point River Mile	Clearing									Floodplain Restoration Per Acre Cost Multiplier (\$/Ac)	Mitigation Costs Annualized over Project Life (\$)		
		Additional Permanent Real Estate Interest (Beyond Existing) (Ac)							Temporary Construction Easement (Ac)					
		T	A	D	W	F	NF	NC	T-(A+D)					
Existing Levees														
Hennepin	205	47	19	5	0	23	0	0	23	36	5,600	0	128,800	
Komatsu	164.6	2	0	2	0	0	0	0	0	1	5,600	0	0	
East Peoria Sanitary District	162.4	0	0	0	0	0	0	0	0	1	5,600	0	0	
East Peoria	161.2	3	0	1	0	0	1	1	2	22	5,600	0	11,200	
Peoria Sanitary District (Greater)	160.0	6	0	6	0	0	0	0	0	7	5,600	0	0	
Keystone	157.5	4	0	2	0	2	0	0	2	3	5,600	0	11,200	
Pekin-LaMarsh	152.4	32	1	10	0	19	2	0	21	43	5,600	0	117,600	
Banner Special	144	0	0	0	0	0	0	0	0	0	5,600	0	0	
Spring Lake	141.0	68	22	2	1	13	30	0	44	96	5,600	0	246,400	
East Liverpool	141.0	20	17	0	0	1	2	0	3	43	5,600	0	16,800	
Liverpool D&LD	130.1	26	11	8	0	1	6	0	7	42	5,600	0	39,200	
Thompson	123.5	0	0	0	0	0	0	0	0	0	5,600	0	0	
Lacey, Langellier, W.Malanzas, Kerton Valley	115.6	44	22	0	0	21	1	0	22	90	5,600	0	123,200	
Big Lake	105.7	43	31	1	0	9	0	2	11	51	5,600	0	61,600	
Kelly Lake	101.7	33	30	0	0	3	0	0	3	29	5,600	0	16,800	
Lost Creek	89.7	37	23	4	0	5	5	0	10	33	5,600	0	56,000	
Sanitary Dist. Of Beardstown	88.6	6	0	6	0	0	0	0	0	10	5,600	0	0	
Coal Creek	88.5	34	30	2	0	1	0	1	2	79	5,600	0	11,200	
Crane Creek	84.2	42	30	1	0	8	3	0	11	52	5,600	0	61,600	
235,200South Beardstown	84.2	41	22	6	0	2	0	11	13	0	5,600	0	72,800	
Meredosia Lake	75.6	160	71	3	1	44	40	0	86	65	5,600	0	481,600	
McGee Creek	71.4	270	58	5	6	152	43	6	207	107	5,600	0	1,159,200	
Willow Cr	69.4	56	44	0	1	7	4	0	12	25	5,600	0	67,200	
Oakes	66.3	52	50	0	0	0	2	0	2	11	5,600	0	11,200	
Valley City	65.1	157	83	1	0	35	37	1	73	50	5,600	0	408,800	
Mauvaise Terre	64.8	149	66	28	22	26	7	0	55	67	5,600	0	308,000	
Robertson	63.3	40	14	0	3	6	17	0	26	12	5,600	0	145,600	
Scott County	59.3	295	213	11	0	28	24	19	71	103	5,600	0	397,600	
Big Swan	53.6	202	158	8	0	24	0	12	36	68	5,600	0	201,600	
Hillyview	46.6	236	176	4	0	4	13	38	56	78	5,600	0	313,600	
Hartwell	40.7	229	133	1	2	62	29	2	95	74	5,600	0	532,000	
Keach	35.3	250	144	3	3	58	5	37	103	80	5,600	0	576,800	
Schaefer - Farrow	32.6	35	34	1	0	0	0	0	0	9	5,600	0	0	
Bluffdale Farms	32.3	58	55	0	0	0	3	0	3	18	5,600	0	16,800	
Eldred - Spankey DL	28.1	384	334	13	1	6	30	0	37	119	5,600	0	207,200	
Nutwood	19.4	178	146	5	1	11	4	11	27	75	5,600	0	151,200	
New Levees														
Village of Pearl Unprot. Comm. **	43.2	11	7	0	0	2	1	0	4	3	5,600	0	22,400	
Kampsville Unprot. Comm. **	32	39	24	2	0	7	4	2	13	7	5,600	0	72,800	
Michael Unprot. Comm **	27.5	0	0	0	0	0	0	0	0	0	5,600	0	0	
Hardin Unprot. Comm. **	21.3	50	31	2	1	9	5	2	17	8	5,600	0	95,200	
REACH 4. SUBTOTALS	--	3,339	2,099	143	42	589	318	145	1,097	1,617	5,600	0	6,143,200	

ATTACHMENT 3. PLAN D MITIGATION REQUIREMENTS FOR MISSISSIPPI RIVER
 (NOTE: Yellow = D&LDs with land impacts beyond the existing levee footprint)

Leveed Area	Mid Point River Mile	Clearing								Floodplain Restoration Per Acre Cost Multiplier (\$/Ac)	Mitigation Costs Annualized over Project Life (\$)		
		Additional Permanent Real Estate Interest (Beyond Existing) (Ac)							Temporary Construction Easement (Ac)				
		T	A	D	W	F	NF	NC	T-(A+D)		T	Perm	Temp
Existing Levees													
MVP Leveed Areas*		0	0	0	0	0	0	0	0	0	5,600	0	0
Dubuque	580.60	0	0	0	0	0	0	0	0	0	5,600	0	0
East Dubuque	579.0	0	0	0	0	0	0	0	0	0	5,600	0	0
Green Island	546.0	0	0	0	0	0	0	0	0	0	5,600	0	0
Sabula	535.00	8	0	7	0	1	0	0	1	12	5,600	0	5,600
REACH 1 SUBTOTALS	--	8	0	7	0	1	0	0	0	12	5,600	0	0
Existing Levees													
Fulton	519.80	0	0	0	0	0	0	0	0	0	5,600	0	0
Clinton	517.30	0	0	0	0	0	0	0	0	0	5,600	0	0
Meredosia	511.50	0	0	0	0	0	0	0	0	0	5,600	0	0
East Moline	489.30	0	0	0	0	0	0	0	0	0	5,600	0	0
Bettendorf	486.60	0	0	0	0	0	0	0	0	0	5,600	0	0
Rock Island	481.20	3	0	2	1	0	0	1	11	5,600	0	5,600	0
Milan	478.50	0	0	0	0	0	0	0	0	0	5,600	0	0
Andalusia **	473.40	8	3	1	0	3	1	0	4	9	5,600	0	22,400
Muscatine/Mad Creek	456.00	2	0	0	0	0	0	2	2	5	5,600	0	11,200
Drury	455.20	0	0	0	0	0	0	0	0	0	5,600	0	0
Muscatine Island	448.40	0	0	0	0	0	0	0	0	0	5,600	0	0
Bay Island **	442.60	50	17	4	2	18	6	3	29	113	5,600	0	162,400
Keithsburg	427.60	5	0	4	0	1	0	0	1	8	5,600	0	5,600
Iowa R.-Flint Cr	416.40	0	0	0	0	0	0	0	0	0	5,600	0	0
Henderson #1	407.30	15	5	2	0	8	0	0	8	62	5,600	0	44,800
Burlington Bottoms	405.0	0	0	0	0	0	0	0	0	0	5,600	0	0
Henderson #2 **	402.40	16	5	1	0	7	2	1	10	33	5,600	0	56,000
Green Bay	391.00	29	16	1	0	3	9	0	12	80	5,600	0	67,200
Niota	384	0	0	0	0	0	0	0	0	0	5,600	0	0
Keokuk	363.0	0	0	0	0	0	0	0	0	0	5,600	0	0
REACH 2 SUBTOTALS		128	46	15	3	40	18	6	67	321	5,600	0	375,200
Existing Levees													
Des Moines/Mississippi	358.95	0	0	0	0	0	0	0	0	0	5,600	0	0
Mississippi & Fox	357.0	12	8	0	1	2	1	0	4	59	5,600	0	24,400
Hunt-Lima **	351.65	0	0	0	0	0	0	0	0	0	5,600	0	0
Gregory	351.25	0	0	0	0	0	0	0	0	0	5,600	0	0
Canton **	342.00	8	4	0	1	2	1	0	4	25	5,600	0	22,400
Indian Grave	335.8	0	0	0	0	0	0	0	0	0	5,600	0	0
Union Township	333.30	12	8	1	0	2	0	1	3	30	5,600	0	16,800
Fabius	327.75	13	5	0	0	8	0	0	8	48	5,600	0	44,800
Marion County	322.40	18	17	0	0	0	0	1	1	46	5,600	0	5,600
South Quincy	321.70	12	2	6	0	3	1	0	4	47	5,600	0	22,400
South River Industrial **	319.00	0	0	0	0	0	0	0	0	0	5,600	0	0
South River Drainage	315.65	19	12	2	0	3	2	0	5	53	5,600	0	28,000
Hannibal	309.50	0	0	0	0	0	0	0	0	0	5,600	0	0
Sny Island Reach I	307.60	71	29	1	4	23	14	0	41	134	5,600	0	229,600
Sny Island Reach II	292.45	0	0	0	0	0	0	0	0	0	5,600	0	0
Riverland	289.6	0	0	0	0	0	0	0	0	0	5,600	0	0
Sny Island Reach III	282.25	49	25	0	1	23	0	0	24	106	5,600	0	134,400

* No plan proposed levee modifications for 14 St. Paul District cities and towns. CODE: A=Agric., D=Devel., W=Water, F=Forest, NF= Non-Forest Wetlands, NC= No Photo Coverage

** Habitat type acreages distributed by applying reach habitat proportionality.

T=Total

ATTACHMENT 3. PLAN D MITIGATION REQUIREMENTS FOR MISSISSIPPI RIVER (NOTE: Yellow = D&LDs with land impacts beyond the existing levee footprint)														
Leveed Area	Mid Point River Mile	Clearing								Floodplain Restoration Per Acre Cost Multiplier (\$/Ac)	Mitigation Costs Annualized over Project Life (\$)			
		Additional Permanent Real Estate Interest (Beyond Existing) (Ac)							Temporary Construction Easement (Ac)					
		T	A	D	W	F	NF	NC	T-(A+D)		T	Perm	Temp	Perm
Existing Levees														
Petus-Burns-Prewitt-Jeager	271.60	66	48	1	0	15	1	1	17	22	5,600	0	95,200	0
Clarksville Levees	269.04	67	45	1	6	4	11	0	21	29	5,600	0	117,600	0
Sny Island Reach IV	268.75	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Kissinger Levee District **	266.41	64	32	3	4	17	5	3	29	41	5,600	0	162,400	0
Busch-Goose Pasture Farms	264.10	28	24	0	3	1	0	0	4	14	5,600	0	22,400	0
Cannon Wildlife Refuge Levee	262.24	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Annada	262.22	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Elisbury Drainage District	255.94	136	35	4	3	59	11	24	97	67	5,600	0	543,200	0
Kings Lake Drainage District	249.04	144	44	1	4	72	23	0	99	67	5,600	0	554,400	0
Sandy Creek Drainage District	245.70	37	14	0	3	20	0	0	23	15	5,600	0	128,800	0
Foley Drainage District	245.03	57	14	6	1	32	4	0	37	23	5,600	0	207,200	0
Cap Au Gris D&LD	241.16	106	44	14	3	37	8	0	48	42	5,600	0	268,800	0
Winfield D&LD	238.88	110	48	13	7	26	1	15	49	46	5,600	0	274,400	0
Brevator D&LD	238.08	61	42	0	0	5	10	4	19	24	5,600	0	106,400	0
Schramm Private Levee	237.25	18	3	0	13	2	0	0	15	6	5,600	0	84,000	0
Old Monroe Private Levee	236.75	48	44	1	1	2	0	0	3	18	5,600	0	16,800	0
Heilman Private Levee	236.39	37	21	0	10	0	6	0	16	16	5,600	0	89,600	0
Marslan-Portuchek Private Levee	236.09	86	67	1	2	9	7	0	18	33	5,600	0	100,800	0
St. Peters Drainage Association No. 1	229.76	57	17	12	3	7	15	3	28	21	5,600	0	156,800	0
Consolidated North County Levee District	206.25	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Wood River	198.05	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Columbia Bottoms Levee	194.15	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Chouteau Island D&LD	191.19	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Chouteau, Nameoki and Venice D&LD	189.89	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Gabaret/Cabrolet Island D&LD	187.32	0	0	0	0	0	0	0	0	0	5,600	0	0	0
St. Louis Flood Protection Project **	181.69	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Metro East Sanitary Dist.	179.35	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Praire du Pont	170.71	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Columbia	160.89	0	0	0	0	0	0	0	0	0	5,600	0	0	0

ATTACHMENT 3. PLAN D MITIGATION REQUIREMENTS FOR MISSISSIPPI RIVER
 (NOTE: Yellow = D&LDs with land impacts beyond the existing levee footprint)

Leveed Area	Mid Point River Mile	Clearing									Floodplain Restoration Per Acre Cost Multiplier (\$/Ac)	Mitigation Costs Annualized over Project Life (\$)				
		Additional Permanent Real Estate Interest (Beyond Existing) (Ac)											Temporary Construction Easement (Ac)	Perm	Temp	
		T	A	D	W	F	NF	NC	T-(A+D)	T						
Harrisonville	142.89	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0	
Stringtown	139.50	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0	
Fort Chartres & Ivy Landing	134.00	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0	
Prairie Du Rocher & Modoc	124.45	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0	
Ste. Genevieve Urban Levee	123.75	14	7	1	0	0	0	6	6	11	5,600	0	33,600	0	0	
Ste. Genevieve Levee District No. 2	119.51	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0	
Bois Brule	103.22	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0	
Degognia & Fountain Bluff	91.75	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0	
Grand Tower	78.90	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0	
Miller Pond	70.75	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0	
Preston	70.73	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0	
Clear Creek	61.02	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0	
Cape Girardeau	52.15	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0	
E. Cape Girardeau & Clear Creek	51.47	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0	
N. Alexander Co.	51.45	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0	
New Levees																
Buffalo Unprot. Comm. **		9	5	0	1	2	1	0	4	7	5,600	0	22,400	0	0	
Louisiana Unprot. Comm. **	282.3	10	5	1	1	2	1	0	4	3	5,600	0	22,400	0	0	
Clarksville Unprot. Comm. **	273	15	7	1	1	4	1	1	7	4	5,600	0	39,200	0	0	
Annada Unprot. Comm. **	263	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0	
Hamburg Unprot. Comm. **	258.3	16	8	1	1	4	1	1	7	0	5,600	0	39,200	0	0	
Foley Unprot. Comm. **	244.6	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0	
Winfield Unprot. Comm. **	241	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0	
Old Monroe Unprot. Comm. **	236	9	5	0	1	2	1	0	4	3	5,600	0	22,400	0	0	
Peruque Creek (New Levee)	231.4	189	92	9	13	51	15	9	88	47	5,600	0	492,800	0	0	
Portage Des Sioux Unprot. Comm. **	212.4	44	21	2	3	12	4	2	21	9	5,600	0	117,600	0	0	
West Alton Unprot. Comm. **	203.5	87	43	4	6	23	7	4	40	19	5,600	0	224,000	0	0	
Arnold Unprot. Comm. **	160.5	96	45	5	7	26	8	5	46	0	5,600	0	257,600	0	0	
Kimmswick Unprot. Comm. **	159	33	15	2	2	9	3	2	16	6	5,600	0	89,600	0	0	
Sulpher Springs Unprot. Comm. **	156.7	20	10	1	1	5	2	1	9	3	5,600	0	50,400	0	0	
Pevely Unprot. Comm. **	153	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0	
Herculaneum Unprot. Comm. **	151	66	32	3	5	18	5	3	31	11	5,600	0	173,600	0	0	
Chambersburg Unprot. Comm. **	66.7	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0	
Florence Unprot. Comm. **	55.6	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0	
Hubble Creek (New Levee)	49.28	596	285	30	42	161	48	30	281	129	5,600	0	1,573,600	0	0	
St. Mary's Unprot. Comm. **		51	23	3	4	14	4	3	25	7			140,000			
REACH 3 SUBTOTALS	--	2,591	1,255	130	158	707	222	119	1,206	1,291	5,600	0	6,753,600	0		

ATTACHMENT 4. PLAN D MITIGATION REQUIREMENTS FOR ILLINOIS RIVER (NOTE: Yellow – D&LDs with land impacts beyond the existing levee footprint)														
Leveed Area	Mid Point River Mile	Clearing									Floodplain Restoration Per Acre Cost Multiplier (\$/Ac)	Mitigation Costs Annualized over Project Life (\$)		
		Additional Permanent Real Estate Interest (Beyond Existing) (Ac)							Temporary Construction Easement (Ac)					
		T	A	D	W	F	NF	NC	T-(A+D)	T	Perm	Temp	Perm	Temp
Existing Levees														
Hennepin	205	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Komatsu	164.6	0	0	0	0	0	0	0	0	5,600	0	0	0	0
East Peoria Sanitary District	162.4	0	0	0	0	0	0	0	1	5,600	0	0	0	0
East Peoria	161.2	2	0	1	0	0	1	0	1	5,600	0	5,600	0	0
Peoria Sanitary District (Greater)	160.0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Keystone	157.5	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Pekin-LaMarsh	152.4	12	0	4	0	7	1	0	8	43	5,600	0	44,800	0
Banner Special	144	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Spring Lake	141.0	26	8	1	0	5	12	0	17	96	5,600	0	95,200	0
East Liverpool	141.0	2	2	0	0	0	0	0	0	43	5,600	0	0	0
Liverpool D&LD	130.1	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Thompson	123.5	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Lacey, Langellier, W.Matanzas, Kerton Valley	115.6	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Big Lake	105.7	21	15	1	0	4	0	1	5	46	5,600	0	28,000	0
Kelly Lake	101.7	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Lost Creek	89.7	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Sanitary Dist. Of Beardstown	88.6	6	0	6	0	0	0	0	0	10	5,600	0	0	0
Coal Creek	88.5	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Crane Creek	84.2	18	14	0	0	3	1	0	4	52	5,600	0	22,400	0
South Beardstown	84.2	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Meredosia Lake	75.6	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Meredosia & Willow		0	0	0	0	0	0	0	0	5,600	0	0	0	0
McGee Creek	71.4	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Willow Cr	69.4	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Oakes	66.3	42	40	0	0	2	0	2	11	5,600	0	11,200	0	0
Valley City	65.1	112	57	1	0	26	27	1	54	50	5,600	0	302,400	0
Mauvaise Terre	64.8	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Robertson	63.3	30	11	0	2	5	12	0	19	12	5,600	0	106,400	0
Scott County	59.3	199	145	8	0	18	16	12	46	103	5,600	0	257,600	0
Big Swan	53.6	136	108	5	0	15	0	8	23	68	5,600	0	128,800	0
Hillview	46.6	161	119	3	0	3	10	26	39	78	5,600	0	218,400	0
Hartwell	40.7	157	91	0	2	42	20	2	66	74	5,600	0	369,600	0
Keach	35.3	170	98	2	2	39	3	26	70	80	5,600	0	392,000	0
Schaefer – Farrow	32.6	26	25	1	0	0	0	0	0	9	5,600	0	0	0
Bluffdale Farms	32.3	40	38	0	0	0	2	0	2	18	5,600	0	11,200	0
Eldred – Spankey DL	28.1	264	233	8	0	5	18	0	23	119	5,600	0	128,800	0
Nutwood	19.4	100	82	3	1	6	2	6	15	75	5,600	0	84,000	0
Little Creek	78.3	90	38	7	0	23	11	11	45	35			252,000	
Smith Lake **	66.8	7	5	0	0	1	1	0	2	3			11,200	
Village of Pearl **		8	6	0	0	1	1	0	2	3			11,200	
Walnut Creek **	56.8	35	23	1	0	6	4	1	11	12			61,600	
New Levees														
Village of Pearl Unprot. Comm. **	43.2	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Kampsville Unprot. Comm. **	32	36	24	1	0	6	4	1	11	7	5,600	0	61,600	0
Michael Unprot. Comm. **	27.5	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Hardin Unprot. Comm. **	21.3	48	30	2	0	9	5	2	16	8	5,600	0	89,600	0
REACH 4. SUBTOTALS	--	1,748	1,212	55	7	224	153	97	481	1,078	5,600	0	2,693,600	0

ATTACHMENT 5. PLAN E MITIGATION REQUIREMENTS FOR MISSISSIPPI RIVER (Continued) (NOTE: Yellow = D&LDs with land impacts beyond the existing levee footprint)														
Leveed Area	Mid Point River Mile	Clearing									Floodplain Restoration Per Acre Cost Multiplier (\$/Ac)	Mitigation Costs Annualized over Project Life (\$)		
		Additional Permanent Real Estate Interest (Beyond Existing) (Ac)							Temporary Construction Easement (Ac)					
		T	A	D	W	F	NF	NC	T-(A+D)					
MVP Leveed Areas*		0	0	0	0	0	0	0	0	0	5,600	0	0	
Dubuque	580.60	0	0	0	0	0	0	0	0	0	5,600	0	0	
East Dubuque	579.0	0	0	0	0	0	0	0	0	0	5,600	0	0	
Green Island	546.0	0	0	0	0	0	0	0	0	0	5,600	0	0	
Sabula	535.00	8	0	7	0	1	0	0	1	12	5,600	0	5,600	
REACH 1 SUBTOTALS	--	8	0	7	0	1	0	0	1	12	5,600	0	5,600	
Fulton	519.80	0	0	0	0	0	0	0	0	0	5,600	0	0	
Clinton	517.30	0	0	0	0	0	0	0	0	0	5,600	0	0	
Meredosia	511.50	0	0	0	0	0	0	0	0	0	5,600	0	0	
East Moline	489.30	0	0	0	0	0	0	0	0	0	5,600	0	0	
Bettendorf	486.60	0	0	0	0	0	0	0	0	0	5,600	0	0	
Rock Island	481.20	3	0	2	1	0	0	0	1	11	5,600	0	5,600	
Milan	478.50	0	0	0	0	0	0	0	0	0	5,600	0	0	
Andalusia **	473.40	8	3	1	0	3	1	0	4	9	5,600	0	22,400	
Muscatine/Mad Creek	456.00	2	0	0	0	0	0	2	2	5	5,600	0	11,200	
Drury	455.20	0	0	0	0	0	0	0	0	0	5,600	0	0	
Muscatine Island	448.40	0	0	0	0	0	0	0	0	0	5,600	0	0	
Bay Island **	442.60	0	0	0	0	0	0	0	0	0	5,600	0	0	
Keithsburg	427.60	5	0	3	0	1	0	0	2	8	5,600	0	11,200	
Iowa R.-Flint Cr	416.40	0	0	0	0	0	0	0	0	0	5,600	0	0	
Henderson #1	407.30	0	0	0	0	0	0	0	0	0	5,600	0	0	
Burlington Bottoms	405.0	0	0	0	0	0	0	0	0	0	5,600	0	0	
Henderson #2	402.40	10	3	1	0	4	1	1	6	26	5,600	0	33,600	
Green Bay	391.00	0	0	0	0	0	0	0	0	0	5,600	0	0	
Niota	384	0	0	0	0	0	0	0	0	0	5,600	0	0	
Keokuk	363.0	0	0	0	0	0	0	0	0	0	5,600	0	0	
REACH 2 SUBTOTALS	--	28	6	7	1	8	2	3	15	59	5,600	0	84,000	
Des Moines/Mississippi	358.95	0	0	0	0	0	0	0	0	0	5,600	0	0	
Mississippi & Fox	357.0	0	0	0	0	0	0	0	0	0	5,600	0	0	
Hunt-Lima **	351.65	0	0	0	0	0	0	0	0	0	5,600	0	0	
Gregory	351.25	0	0	0	0	0	0	0	0	0	5,600	0	0	
Canion	342.00	7	2	2	2	0	1	0	3	23	5,600	0	16,800	
Indian Grave	335.8	0	0	0	0	0	0	0	0	0	5,600	0	0	
Union Township	333.30	0	0	0	0	0	0	0	0	0	5,600	0	0	
Fabius	327.75	0	0	0	0	0	0	0	0	0	5,600	0	0	
Marion County	322.40	0	0	0	0	0	0	0	0	0	5,600	0	0	
South Quincy	321.70	9	2	4	0	2	1	0	3	53	5,600	0	16,800	
South River Industrial **	319.00	0	0	0	0	0	0	0	0	0	5,600	0	0	
South River Drainage	315.65	2	2	0	0	0	0	0	0	53	5,600	0	0	
Hannibal	309.50	0	0	0	0	0	0	0	0	4	5,600	0	0	
Sny Island Reach I	307.60	0	0	0	0	0	0	0	0	0	5,600	0	0	
Sny Island Reach II	292.45	0	0	0	0	0	0	0	0	0	5,600	0	0	
Riverland	289.6	0	0	0	0	0	0	0	0	0	5,600	0	0	
Sny Island Reach III	282.25	0	0	0	0	0	0	0	0	0	5,600	0	0	

* No plan proposed levee modifications for 14 St. Paul District cities and towns. CODE: A=Agric., D=Devel., W=Water, F=Forest, NF= Non-Forest Wetlands, NC= No Photo Coverage

** Habitat type acreages distributed by applying reach habitat proportionality.

T=Total

ATTACHMENT 5. PLAN E MITIGATION REQUIREMENTS FOR MISSISSIPPI RIVER (Continued) (NOTE: Yellow = D&LDs with land impacts beyond the existing levee footprint)														
Leveed Area	Mid Point River Mile	Clearing								Floodplain Restoration Per Acre Cost Multiplier (\$/Ac)	Mitigation Costs Annualized over Project Life (\$)			
		Additional Permanent Real Estate Interest (Beyond Existing) (Ac)							Temporary Construction Easement (Ac)		Perm	Temp		
		T	A	D	W	F	NF	NC	T-(A+D)		T	Perm	Temp	
Petus-Burns-Prewitt-Jeager	271.60	75	54	2	0	17	1	1	19	22	5,600	0	106,400	0
Clarksville Levees	269.04	80	54	1	7	5	13	0	25	29	5,600	0	140,000	0
Sny Island Reach IV	268.75	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Kissinger Levee District	266.41	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Busch-Goose Pasture Farms	264.10	35	29	0	4	2	0	0	6	14	5,600	0	33,600	0
Cannon Wildlife Refuge Levee	262.24	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Annada	262.22	0	0	0	0	0	0	0	0	38	5,600	0	0	0
Elsberry Drainage District	255.94	170	43	5	3	75	14	30	122	67	5,600	0	683,200	0
Kings Lake Drainage District	249.04	177	55	2	5	90	27	0	120	67	5,600	0	672,000	0
Sandy Creek Drainage District	245.70	45	18	0	4	23	0	0	27	15	5,600	0	151,200	0
Foley Drainage District	245.03	69	17	8	1	38	5	0	44	23	5,600	0	246,400	0
Cap Au Gris D&LD	241.16	125	51	16	4	44	10	0	58	42	5,600	0	324,800	0
Winfield D&LD	238.88	131	57	16	8	31	1	18	58	46	5,600	0	324,800	0
Brevator D&LD	238.08	72	49	0	0	6	12	5	23	24	5,600	0	128,800	0
Schramm Private Levee	237.25	21	3	0	15	3	0	0	18	6	5,600	0	100,800	0
Old Monroe Private Levee	236.75	54	49	1	1	3	0	0	4	18	5,600	0	22,400	0
Heitman Private Levee	236.39	44	25	0	11	1	7	0	19	16	5,600	0	106,400	0
Marslan-Portuchek Private Levee	236.09	100	79	1	2	10	8	0	20	33	5,600	0	112,000	0
St. Peters Drainage Association No. 1	229.76	64	19	13	3	8	17	4	32	21	5,600	0	179,200	0
Consolidated North County Levee District	206.25	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Wood River **	198.05	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Columbia Bottoms Levee	194.15	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Chouteau Island D&LD	191.19	105	67	8	0	16	14	0	30	32	5,600	0	168,000	0
Chouteau, Nameoki and Venice D&LD	189.89	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Gabaret/Cabrolet Island D&LD	187.32	72	58	3	0	2	9	0	11	21	5,600	0	61,600	0
St. Louis Flood Protection Project **	181.69	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Metro East Sanitary Dist.	179.35	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Prairie du Pont	170.71	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Columbia	160.89	0	0	0	0	0	0	0	0	0	5,600	0	0	0

ATTACHMENT 5. PLAN E MITIGATION REQUIREMENTS FOR MISSISSIPPI RIVER (Continued)
 (NOTE: Yellow = D&LDs with land impacts beyond the existing levee footprint)

Leveed Area	Mid Point River Mile	Clearing									Temporary Construction Easement (Ac)	Perm	Temp	Perm	Temp
		Additional Permanent Real Estate Interest (Beyond Existing) (Ac)													
		T	A	D	W	F	NF	NC	T-(A+D)	T					
Harrisonville	142.89	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Stringtown	139.50	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Fort Chartres & Ivy Landing	134.00	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Prairie Du Rocher & Modoc	124.45	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Ste. Genevieve Urban Levee	123.75	15	8	1	0	1	0	6	6	11	5,600	0	33,600	0	0
Ste. Genevieve Levee District No. 2	119.51	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Bois Brule	103.22	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Degognia & Fountain Bluff	91.75	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Grand Tower	78.90	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Miller Pond	70.75	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Preston	70.73	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Clear Creek	61.02	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Florence	55.6	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Cape Girardeau	52.15	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
E. Cape Girardeau & Clear Creek	51.47	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
N. Alexander Co.	51.45	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
New Levees															
Louisiana Unprot. Comm.	282.3	11	5	1	1	2	1	1	5	3	5,600	0	28,000	0	0
Clarksville Unprot. Comm.	273	17	8	1	1	5	1	1	8	4	5,600	0	44,800	0	0
Annada Unprot. Comm.	263	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Hamburg Unprot. Comm.	258.3	18	9	1	1	5	1	1	8	3	5,600	0	44,800	0	0
Foley Unprot. Comm.	244.6	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Winfield Unprot. Comm.	241	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Old Monroe Unprot. Comm.	236	11	5	1	1	2	1	1	5	3	5,600	0	28,000	0	0
Peruque Creek (New Levee)	231.4	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Portage Des Sioux Unprot. Comm.	212.4	48	24	2	3	13	4	2	22	9	5,600	0	123,200	0	0
West Alton Unprot. Comm.	203.5	94	44	5	7	25	8	5	45	19	5,600	0	252,000	0	0
Arnold Unprot. Comm.	160.5	95	45	5	7	25	8	5	45	21	5,600	0	252,000	0	0
Kimmswick Unprot. Comm.	159	32	15	2	2	9	2	2	15	6	5,600	0	84,000	0	0
Sulpher Springs Unprot. Comm.	156.7	19	10	1	1	5	1	1	8	3	5,600	0	44,800	0	0
Pevely Unprot. Comm.	153	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Herculaneum Unprot. Comm.	151	65	31	3	5	18	5	3	31	11	5,600	0	173,600	0	0
Chambersburg Unprot. Comm	66.7	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Florence Unprot. Comm.	55.6	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Hubble Creek (New Levee)	49.3	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
REACH 3 SUBTOTALS	--	1,882	937	105	99	486	172	86	840		5,600	0	4,704,000	0	

ATTACHMENT 6. PLAN E MITIGATION REQUIREMENTS FOR ILLINOIS RIVER
 (NOTE: Yellow = D&LDs with land impacts beyond the existing levee footprint)

Leveed Area	Mid Point River Mile	Clearing									Floodplain Restoration Per Acre Cost Multiplier (\$/Ac)	Mitigation Costs Annualized over Project Life (\$)		
		Additional Permanent Real Estate Interest (Beyond Existing) (Ac)							Temporary Construction Easement (Ac)					
		T	A	D	W	F	NF	NC	T-(A+D)	T	Perm	Temp	Perm	Temp
Hennepin	205	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Komatsu	164.6	0	0	0	0	0	0	0	0	0	5,600	0	0	0
East Peoria Sanitary District	162.4	0	0	0	0	0	0	0	0	1	5,600	0	0	0
East Peoria	161.2	2	0	0	0	0	1	1	2	22	5,600	0	11,200	0
Peoria Sanitary District (Greater)	160.0	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Keystone	157.5	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Pekin-LaMarsh	152.4	6	0	2	0	4	0	0	4	43	5,600	0	22,400	0
Banner Special	144	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Spring Lake	141.0	0	0	0	0	0	0	0	0	0	5,600	0	0	0
East Liverpool	141.0	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Liverpool	130.1	26	11	8	0	1	6	0	7	42	5,600	0	39,200	0
Thompson	123.5	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Lacey, Langellier, W.Matanzas, Kerton Valley	115.6	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Big Lake	105.7	11	8	0	0	2	0	1	2	41	5,600	0	11,200	
Kelly Lake	101.7	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Lost Creek	89.7	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Sanitary Dist. Of Beardstown	88.6	6	0	6	0	0	0	0	0	10	5,600	0	0	0
Coal Creek	88.5	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Crane Creek	84.2	3	2	0	0	1	0	0	1	48	5,600	0	5,600	
South Beardstown	84.2	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Meredosia Lake	75.6	0	0	0	0	0	0	0	0	0	5,600	0	0	0
McGee Creek	71.4	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Willow Cr	69.4	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Oakes	66.3	48	46	0	0	0	2	0	2	11	5,600	0	11,200	0
Valley City	65.1	139	72	1	0	32	33	1	66	50	5,600	0	369,600	0
Mauvaise Terre	64.8	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Robertson	63.3	36	13	0	3	5	15	0	23	12	5,600	0	128,800	0
Scott County	59.3	253	183	9	0	24	21	16	61	103	5,600	0	341,600	0
Big Swan	53.6	172	136	7	0	19	0	10	29	68	5,600	0	162,400	0
Hillview	46.6	200	148	4	0	4	12	32	48	78	5,600	0	268,800	0
Village of Pearl	43.2	10	7	0	0	2	1	0	3	3	5,600	0	16,800	0
Hartwell	40.7	193	112	0	2	52	25	2	81	74	5,600	0	453,600	0
Keach	35.3	204	118	2	2	47	4	31	84	80	5,600	0	470,400	0
Schaefer - Farrow	32.6	30	29	1	0	0	0	0	0	9	5,600	0	162,400	0
Bluffdale Farms	32.3	48	45	0	0	0	3	0	3	18	5,600	0	16,800	0
Kampsville	32	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Eldred - Spankey DL	28.1	307	270	9	0	6	22	0	28	119	5,600	0	156,800	0
Hardin	21.3	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Nutwood	19.4	122	100	5	1	7	2	7	17	75	5,600	0	95,200	0
New Levees														
Village of Pearl Unprot. Comm. **	43.2	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Kampsville Unprot. Comm. **	32	36	24	1	0	6	4	1	11	7	5,600	0	61,600	0
Michael Unprot. Comm. **	27.5	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Hardin Unprot. Comm. **	21.3	48	30	2	0	9	5	2	16	8	5,600	0	89,600	0
REACHH 4. SUBTOTALS	--	1,900	1354	57	8	221	156	104	489		5,600	0	2,738,400	0

ATTACHMENT 7. PLAN H MITIGATION REQUIREMENTS FOR MISSISSIPPI RIVER
(NOTE: Yellow – D&LDs with land impacts beyond the existing levee footprint)

Leveed Area	Mid Point River Mile	Clearing									Floodplain Restoration Per Acre Cost Multiplier (\$/Ac)	Mitigation Costs Annualized over Project Life (\$)			
		Additional Permanent Real Estate Interest (Beyond Existing) (Ac)							Temporary Construction Easement (Ac)						
		T	A	D	W	F	NF	NC	T-(A+D)	T	Perm	Temp	Perm	Temp	
Existing Levees															
MVP Leveed Areas*		0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Dubuque	580.60	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
East Dubuque	579.0	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Green Island	546.0	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Sabula	535.00	8	0	7	0	1	0	0	1	12	5,600	0	5,600	0	0
New Levees															
REACH 1 SUBTOTALS	--	8	0	7	0	1	0	0	1	12	5,600	0	5,600	0	0
Existing Levees															
Fulton	519.80	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Clinton	517.30	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Meredosia	511.50	8	6	1	0	0	1	0	1	13	5,600	0	5,600	0	0
East Moline	489.30	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Bettendorf	486.60	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Rock Island	481.20	3	0	2	1	0	0	0	1	11	5,600	0	5,600	0	0
Milan	478.50	0	0	0	0	0	0	0	0	6	5,600	0	0	0	0
Andalusia **	473.40	8	3	1	0	3	1	0	4	9	5,600	0	22,400	0	0
Muscatine/Mad Creek	456.00	2	0	0	0	0	0	2	2	5	5,600	0	11,200	0	0
Drury	455.20	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Muscatine Island	448.40	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Bay Island **	442.60	126	42	10	4	47	15	8	74	152	5,600	0	414,400	0	0
Keithsburg	427.60	5	0	4	0	1	0	0	1	8	5,600	0	5,600	0	0
Iowa R.-Flint Cr	416.40	167	63	7	7	63	19	8	97	227	5,600	0	543,200	0	0
Henderson #1	407.30	50	15	7	0	27	1	0	28	68	5,600	0	156,800	0	0
Burlington Bottoms	405.0	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Henderson #2 **	402.40	31	10	2	1	12	4	2	19	39	5,600	0	106,400	0	0
Green Bay	391.00	73	39	2	1	8	23	0	32	97	5,600	0	179,200	0	0
Niota	384	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Keokuk	363.0	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
REACH 2 SUBTOTALS		473	178	36	14	161	64	20	259	635	5,600	0	1,450,400	0	0
Existing Levees															
Des Moines/Mississippi	358.95	19	6	0	0	7	0	6	13	57	5,600	0	72,800	0	0
Mississippi & Fox	357.0	67	43	0	6	13	5	0	24	81	5,600	0	134,400	0	0
Hunt-Lima **	351.65	85	41	4	6	23	7	4	40	190	5,600	0	224,000	0	0
Gregory	351.25	24	13	2	1	7	1	0	9	67	5,600	0	50,400	0	0
Canton	342.00	8	2	3	2	0	1	0	3	25	5,600	0	16,800	0	0
Indian Grave	335.8	90	32	13	10	24	11	0	45	150	5,600	0	252,000	0	0
Union Township	333.30	41	29	3	0	6	0	3	9	44	5,600	0	50,400	0	0
Fabius	327.75	67	26	1	2	38	0	0	40	86	5,600	0	224,000	0	0
Marion County	322.40	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
South Quincy	321.70	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
South River Industrial **	319.00	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
South River Drainage	315.65	70	45	6	1	9	9	0	19	53	5,600	0	106,400	0	0
Hannibal	309.50	2	0	2	0	0	0	0	0	4	5,600	0	0	0	0
Sny Island Reach I	307.60	203	83	5	11	64	40	0	115	181	5,600	0	644,000	0	0
Sny Island Reach II	292.45	66	32	0	2	31	1	0	34	87	5,600	0	190,400	0	0
Riverland	289.6	0	0	0	0	0	0	0	0	0	5,600	0	0	0	0
Sny Island Reach III	282.25	184	46	2	48	61	7	20	136	192	5,600	0	761,600	0	0

* No plan proposed levee modifications for 14 St. Paul District cities and towns. CODE: A=Agric., D=Devel., W=Water, F=Forest, NF= Non-Forest Wetlands, NC= No Photo Coverage

** Habitat type acreages distributed by applying reach habitat proportionality.

ATTACHMENT 7. PLAN H MITIGATION REQUIREMENTS FOR MISSISSIPPI RIVER (NOTE: Yellow = D&LDs with land impacts beyond the existing levee footprint)														
Leveed Area	Mid Point River Mile	Clearing								Floodplain Restoration Per Acre Cost Multiplier (\$/Ac)	Mitigation Costs Annualized over Project Life (\$)			
		Additional Permanent Real Estate Interest (Beyond Existing) (Ac)							Temporary Construction Easement (Ac)					
		T	A	D	W	F	NF	NC	T-(A+D)		T	Perm	Temp	Perm
Existing Levees														
Petus-Burns-Prewitt-Jeager	271.60	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Clarksville Levees	269.04	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Sny Island Reach IV	268.75	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Kissinger Levee District	266.41	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Busch-Goose Pasture Farms	264.10	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Cannon Wildlife Refuge Levee	262.24	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Annada	262.22	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Elsberry Drainage District	255.94	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Kings Lake Drainage District	249.04	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Sandy Creek Drainage District	245.70	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Foley Drainage District	245.03	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Cap Au Gris D&LD	241.16	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Winfield D&LD	238.88	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Brevator D&LD	238.08	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Schramm Private Levee	237.25	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Old Monroe Private Levee	236.75	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Heitman Private Levee	236.39	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Marslan-Portuchek Private Levee	236.09	128	101	1	3	13	10	0	26	33	5,600	0	145,600	0
St. Peters Drainage Association No. 1	229.76	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Consolidated North County Levee District	206.25	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Wood River	198.05	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Columbia Bottoms Levee	194.15	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Chouteau Island D&LD	191.19	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Chouteau, Nameoki and Venice D&LD	189.89	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Gabaret/Cabrolet Island D&LD	187.32	0	0	0	0	0	0	0	0	0	5,600	0	0	0
St. Louis Flood Protection Project **	181.69	24	12	1	2	6	2	1	11	24	5,600	0	61,600	0
Metro East Sanitary Dist.	179.35	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Praire du Pont	170.71	0	0	0	0	0	0	0	0	0	5,600	0	0	0
Columbia	160.89	0	0	0	0	0	0	0	0	0	5,600	0	0	0

ATTACHMENT 7. PLAN H MITIGATION REQUIREMENTS FOR MISSISSIPPI RIVER
 (NOTE: Yellow = D&LDs with land impacts beyond the existing levee footprint)

Leveed Area	Mid Point River Mile	Clearing								Floodplain Restoration Per Acre Cost Multiplier (\$/Ac)	Mitigation Costs Annualized over Project Life (\$)		
		Additional Permanent Real Estate Interest (Beyond Existing) (Ac)							Temporary Construction Easement (Ac)		Perm	Temp	
		T	A	D	W	F	NF	NC	T-(A+D)				
Harrisonville	142.89	0	0	0	0	0	0	0	0	5,600	0	0	
Stringtown	139.50	0	0	0	0	0	0	0	0	5,600	0	0	
Fort Chartres & Ivy Landing	134.00	0	0	0	0	0	0	0	0	5,600	0	0	
Prairie Du Rocher & Modoc	124.45	0	0	0	0	0	0	0	0	5,600	0	0	
Ste. Genevieve Urban Levee	123.75	20	11	1	0	1	0	7	8	5,600	0	44,800	
Ste. Genevieve Levee District No. 2	119.51	0	0	0	0	0	0	0	0	5,600	0	0	
Bois Brule	103.22	0	0	0	0	0	0	0	0	5,600	0	0	
Degognia & Fountain Bluff	91.75	0	0	0	0	0	0	0	0	5,600	0	0	
Grand Tower	78.90	0	0	0	0	0	0	0	0	5,600	0	0	
Miller Pond	70.75	0	0	0	0	0	0	0	0	5,600	0	0	
Preston	70.73	0	0	0	0	0	0	0	0	5,600	0	0	
Clear Creek	61.02	0	0	0	0	0	0	0	0	5,600	0	0	
Cape Girardeau	52.15	0	0	0	0	0	0	0	0	5,600	0	0	
E. Cape Girardeau & Clear Creek	51.47	0	0	0	0	0	0	0	0	5,600	0	0	
N. Alexander Co.	51.45	0	0	0	0	0	0	0	0	5,600	0	0	
New Levees													
Louisiana Unprot. Comm.**	282.3	11	5	1	1	2	1	1	5	3	5,600	0	28,000
Clarksville Unprot. Comm. **	273	17	8	1	1	5	1	1	8	4	5,600	0	44,800
Annada Unprot. Comm. **	263	0	0	0	0	0	0	0	0	0	5,600	0	0
Hamburg Unprot. Comm. **	258.3	18	9	1	1	5	1	1	8	3	5,600	0	44,800
Foley Unprot. Comm. **	244.6	0	0	0	0	0	0	0	0	0	5,600	0	0
Winfield Unprot. Comm. **	241	0	0	0	0	0	0	0	0	0	5,600	0	0
Old Monroe Unprot. Comm. **	236	11	5	1	1	2	1	1	5	3	5,600	0	28,000
Peruque Creek (New Levee)	231.4	0	0	0	0	0	0	0	0	0	5,600	0	0
Portage Des Sioux Unprot. Comm. **	212.4	48	24	2	3	13	4	2	22	9	5,600	0	123,200
West Alton Unprot. Comm. **	203.5	94	44	5	7	25	8	5	45	19	5,600	0	252,000
Arnold Unprot. Comm. **	160.5	95	45	5	7	25	8	5	45	21	5,600	0	252,000
Kimmswick Unprot. Comm. **	159	32	15	2	2	9	2	2	15	6	5,600	0	84,000
Sulpher Springs Unprot. Comm. **	156.7	19	10	1	1	5	1	1	8	3	5,600	0	44,800
Pevely Unprot. Comm.	153	0	0	0	0	0	0	0	0	0	5,600	0	0
Herculaneum Unprot. Comm. **	151	65	31	3	5	18	5	3	31	11	5,600	0	173,600
Chambersburg Unprot. Comm. **	66.7	0	0	0	0	0	0	0	0	0	5,600	0	0
Florence Unprot. Comm. **	55.6	0	0	0	0	0	0	0	0	0	5,600	0	0
Hubble Creek (New Levee)	49.28	0	0	0	0	0	0	0	0	0	5,600	0	0
REACH 3 SUBTOTALS	--	1,508	718	66	123	412	126	63	724	1,367	5,600	0	4,054,400

ATTACHMENT 8. PLAN H MITIGATION REQUIREMENTS FOR ILLINOIS RIVER (NOTE: Yellow = D&LDs with land impacts beyond the existing levee footprint)													
Leveed Area	Mid Point River Mile	Clearing								Floodplain Restoration Per Acre Cost Multiplier (\$/Ac)	Mitigation Costs Annualized over Project Life (\$)		
		Additional Permanent Real Estate Interest (Beyond Existing) (Ac)							Temporary Construction Easement (Ac)		Perm	Temp	
		T	A	D	W	F	NF	NC	T-(A+D)		T	Perm	Temp
Existing Levees													
Hennepin	205	47	19	5	0	23	0	0	23	36	5,600	0	128,800
Komatsu	164.6	2	0	2	0	0	0	0	0	1	5,600	0	0
East Peoria Sanitary District	162.4	0	0	0	0	0	0	0	0	1	5,600	0	0
East Peoria	161.2	3	0	1	0	0	1	1	2	22	5,600	0	11,200
Peoria Sanitary District (Greater)	160.0	6	0	6	0	0	0	0	0	7	5,600	0	0
Keystone	157.5	4	0	2	0	2	0	0	2	3	5,600	0	11,200
Pekin-LaMarsh	152.4	0	0	0	0	0	0	0	0	0	5,600	0	0
Banner Special	144	0	0	0	0	0	0	0	0	0	5,600	0	0
Spring Lake	141.0	68	22	2	1	13	30	0	44	96	5,600	0	246,400
East Liverpool	141.0	0	0	0	0	0	0	0	0	0	5,600	0	0
Liverpool D&LD	130.1	26	11	8	0	1	6	0	7	42	5,600	0	39,200
Thompson	123.5	0	0	0	0	0	0	0	0	0	5,600	0	0
Lacey, Langellier, W.Malanzas, Kerton Valley	115.6	44	22	0	0	21	1	0	22	90	5,600	0	123,200
Big Lake	105.7	0	0	0	0	0	0	0	0	0	5,600	0	0
Kelly Lake	101.7	0	0	0	0	0	0	0	0	0	5,600	0	0
Lost Creek	89.7	0	0	0	0	0	0	0	0	0	5,600	0	0
Sanitary Dist. Of Beardstown	88.6	6	0	6	0	0	0	0	0	10	5,600	0	0
Coal Creek	88.5	0	0	0	0	0	0	0	0	0	5,600	0	0
Crane Creek	84.2	42	30	1	0	8	3	0	11	52	5,600	0	61,600
235,200South Beardstown	84.2	41	22	6	0	2	0	11	13	0	5,600	0	72,800
Meredosia Lake	75.6	160	71	3	1	44	40	0	86	65	5,600	0	481,600
McGee Creek	71.4	0	0	0	0	0	0	0	0	0	5,600	0	0
Willow Cr	69.4	56	44	0	1	7	4	0	12	25	5,600	0	67,200
Oakes	66.3	0	0	0	0	0	0	0	0	0	5,600	0	0
Valley City	65.1	0	0	0	0	0	0	0	0	0	5,600	0	0
Mauvaise Terre	64.8	0	0	0	0	0	0	0	0	0	5,600	0	0
Robertson	63.3	0	0	0	0	0	0	0	0	0	5,600	0	0
Scott County	59.3	0	0	0	0	0	0	0	0	0	5,600	0	0
Big Swan	53.6	0	0	0	0	0	0	0	0	0	5,600	0	0
Hillview	46.6	0	0	0	0	0	0	0	0	0	5,600	0	0
Hartwell	40.7	0	0	0	0	0	0	0	0	0	5,600	0	0
Keach	35.3	0	0	0	0	0	0	0	0	0	5,600	0	0
Schaefer – Farrow	32.6	0	0	0	0	0	0	0	0	0	5,600	0	0
Bluffdale Farms	32.3	0	0	0	0	0	0	0	0	0	5,600	0	0
Eldred – Spankey DL	28.1	0	0	0	0	0	0	0	0	0	5,600	0	0
Nutwood	19.4	0	0	0	0	0	0	0	0	0	5,600	0	0
New Levees													
Village of Pearl Unprot. Comm. **	43.2	11	7	0	0	2	1	0	4	3	5,600	0	22,400
Kampsville Unprot. Comm. **	32	39	24	2	0	7	4	2	13	7	5,600	0	72,800
Michael	27.5	0	0	0	0	0	0	0	0	0	5,600	0	0
Hardin Unprot. Comm. **	21.3	50	31	2	1	9	5	2	17	8	5,600	0	95,200
REACH 4. SUBTOTALS	--	605	303	46	4	139	95	16	256	468	5,600	0	1,433,600

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Dubuque	580.6	579.3	1.3	111	0	0	580.6	0.0	111	0	0
Sabula	535.0	537.8	2.8	451	0	0	517.3	17.7	451	0	0
REACH 1 SUBTOTALS	--	--	--	562	0	0	--	--	562	0	0
Fulton	519.8	520.0	0.2	5363	0	0	517.3	2.5	5363	0	0
Clinton	517.3	518.1	0.7	204	0	0	517.3	0.0	204	0	0
Meredosia	511.5	518.1	6.6	0	10306	0	517.3	5.8	10306	0	0
East Moline	489.3	485.8	3.5	122	0	0	490.0	0.7	122	0	0
Bettendorf	486.6	485.8	0.8	40	0	0	485.5	1.1	40	0	0
Rock Island	481.2	482.1	0.9	145	0	0	481.2	0.0	145	0	0
Milan	478.5	478.3	0.2	1351	0	0	481.2	2.7	1351	0	0
Andalusia	473.4	478.3	4.9	105	0	0	481.2	7.8	105	0	0
Muscatine/Mad Creek	456.0	455.9	0.1	0	0	0	455.0	1.0	0	0	0
Drury	455.2	455.9	0.7	5008	0	0	455.0	0.2	5008	0	0
Muscaline Island	448.4	455.9	7.5	0	25388	0	455.0	6.6	25388	0	0
Bay Island	442.6	455.9	13.3	0	0	19841	455.0	12.4	19841	0	0
Iowa R.-Flint Cr	417.5	404.2	23.7	0	0	44277	406.0	21.9	44277	0	0
Keithsburg	427.6	404.2	23.4	0	0	8	406.0	21.6	8	0	0
Henderson #1	407.3	404.2	3.1	8189	0	0	406.0	1.3	8189	0	0
Henderson #2	402.4	404.2	1.8	8432	0	0	406.0	3.6	8432	0	0
Green Bay	391.0	383.9	7.1	0	14687	0	383.4	7.6	14687	0	0
REACH 2 SUBTOTALS	--	--	--	12233	25388	44277	--	--	81898	0	0
Des Moines/Mississippi	358.9	363.8	4.9	8289	0	0	364.0	5.1	8289	0	0
Mississippi & Fox	357.0	363.8	6.8	0	8600	0	364.0	6.3	8600	0	0
Hunt-Lima	351.6	363.8	12.2	0	0	16888	364.0	12.4	16888	0	0
Gregory	351.2	363.8	12.6	0	0	8938	364.0	12.8	8938	0	0
Canton	342.0	327.2	14.8	0	0	207	327.0	15.0	207	0	0

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Indian Grave	338.7	327.2	11.5	0	0	19473	327.0	11.7	19473	0	0
Union Township	333.3	327.2	6.1	0	3860	0	327.0	6.3	3860	0	0
Fabius	327.7	327.2	0.5	14720	0	0	327.0	0.7	14720	0	0
Marion County	322.4	327.0	4.6	4096	0	0	327.0	4.6	4096	0	0
South Quincy	321.7	327.0	5.3	0	5189	0	327.0	5.3	5189	0	0
South River Industrial	319.0	327.0	8.0	0	0	0	327.0	8.0	0	0	0
South River	315.6	309.5	6.2	0	9842	0	309.5	6.1	9842	0	0
Hannibal	309.5	309.5	0.0	0	0	0	309.5	0.0	0	0	0
Sny Island Reach I	307.6	309.5	1.9	43939	0	0	309.5	1.9	43939	0	0
Sny Island Reach II	292.4	283.2	9.2	0	17088	0	309.5	17.1	17088	0	0
Riverland Private Levee	289.4	283.2	6.2	2756	0	0	309.5	20.1	2756	0	0
Sny Island Reach III	282.2	283.2	1.0	42728	0	0	309.5	27.3	0	42728	0
Petus-Burns-Prewitt-Jeager	271.6	283.2	11.6	0	0	491	309.5	37.9	0	491	0
Clarksville Levees	269.0	283.2	14.2	0	0	2149	309.5	40.5	0	2149	0
Sny Island Reach IV	268.7	283.2	14.5	0	0	11474	309.5	40.8	0	11474	0
Kissinger Levee District	266.4	283.2	16.8	0	0	2494	309.5	43.1	0	2494	0
Busch-Goose Pasture Farms	264.1	283.2	19.1	0	0	446	309.5	45.4	0	446	0
Cannon Wildlife Refuge Levee	262.2	283.2	21.0	0	0	3474	309.5	47.3	0	3474	0
Annada	262.2	283.2	21.0	0	0	3295	309.5	47.3	0	3295	0
Elsberry Drainage District	255.9	283.2	27.3	0	0	18364	309.5	53.6	0	0	18364
Kings Lake Drainage District	249.0	283.2	34.2	0	0	3191	309.5	60.5	0	0	3191
Sandy Creek Drainage District	245.7	283.2	37.5	0	0	1061	309.5	63.8	0	0	1061
Foley Drainage District	245.0	283.2	38.2	0	0	1070	309.5	64.5	0	0	1070
Cap Au Gris D&LD	241.1	202.4	38.7	0	0	4572	202.8	38.3	0	4572	0
Winfield D&LD	238.8	202.4	36.4	0	0	1605	202.8	36.0	0	1605	0
Brevator D&LD	238.0	202.4	35.6	0	0	2000	202.8	35.2	0	2000	0
Schramm Private Levee	237.2	202.4	34.8	0	0	272	202.8	34.4	0	272	0

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Old Monroe Private Levee	236.7	202.4	34.0	0	0	742	202.8	33.9	0	742	0
Heitman Private Levee	236.4	202.4	34.0	0	0	195	202.8	33.6	0	195	0
Marstan-Portuchek Private Levee	236.1	202.4	33.7	0	0	881	202.8	33.3	0	881	0
St. Peters Drainage, No.1/Urban	230.0	202.4	27.6	0	0	896	202.8	27.2	0	896	0
Consolidated N. County LD	206.2	202.4	3.8	17825	0	0	202.8	3.4	17825		
Wood River	198.0	202.4	4.4	4887	0	0	202.8	4.8	4887	0	0
Columbia Bottoms Levee	194.1	190.8	3.3	4364	0	0	202.8	8.7	4364	0	0
Chouteau Island D&LD	191.1	190.8	0.3	1797	0	0	181.7	9.4	1797	0	0
Chouteau, Nameoki and Venice D&LD	189.8	190.5	0.7	4800	0	0	181.7	8.1	4800	0	0
Gabaret/Cabrolet Island D&LD	187.3	190.5	3.2	774	0	0	181.7	5.6	774	0	0
St. Louis Flood Protection Project	181.6	182.5	0.9	253	0	0	181.7	0.1	253	0	0
Metro East Sanitary Dist.	179.3	180.0	0.7	49613	0	0	181.7	2.4	49613	0	0
Prairie du Pont	170.7	168.6	2.1	10663	0	0	181.7	11.0	10663	0	0
Columbia	160.8	168.6	7.8	0	13518	0	181.7	20.9	13518	0	0
Harrisonville	142.8	168.6	25.8	0	0	26224	181.7	38.9	0	26224	0
Stringtown	139.5	168.6	29.1	0	0	2633	181.7	42.2	0	2633	0
Fort Chartres & Ivy Landing	134.0	109.9	24.1	0	0	14964	181.7	47.7	0	14964	0
Prairie Du Rocher & Modoc	124.4	109.9	14.5	0	0	15640	181.7	57.3	0	0	15640
Ste. Genevieve Urban Levee	123.7	109.9	13.8	0	0	x	181.7	58.0	0	0	x

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Ste. Genevieve Levee District No. 2	119.5	109.9	9.6	0	7841	0	181.7	62.2	0	0	7841
Kaskaskia Island	113.4	109.9	3.5	9240	0	0	52.2	61.2	0	0	9240
Bois Brule	103.2	109.9	6.7	0	25993	0	52.2	51.0	0	0	25993
Degognia & Fountain Bluff	91.7	109.9	18.2	0	0	38048	52.2	39.5	0	38048	0
Grand Tower	78.9	51.6	27.3	0	0	14039	52.2	26.7	0	14039	0
Miller Pond	70.7	51.6	19.1	0	0	15753	52.2	18.5	15753	0	0
Preston	70.7	51.6	19.1	0	0	3760	52.2	18.5	3760	0	0
Clear Creek	61.0	51.6	9.4	0	15598	0	52.2	8.8	15598	0	0
Cape Girardeau	52.1	51.6	0.5	18	0	0	52.2	0.1	18	0	0
E. Cape Girardeau & Clear Creek	51.4	51.6	0.2	2957	0	0	52.2	0.8	2957	0	0
N. Alexander Co	51.4	51.6	0.2	10061	0	0	52.2	0.8	10061	0	0
REACH 3 SUBTOTALS	--	--	---	105145	20787	171153	--	--	164823	107382	24880

NOTE: Gray shaded areas indicate existing levels of protection in excess of 100-years.

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REACH CODE:

- Reach 1 = UMR HN to L&D 13 (Miss. R.M. 522.5)
- Reach 2 = UMR L&D 13 (Miss. R.M. 522.5) to 19 (Miss. R.M. 363)
- Reach 3a = UMR L&D 19 (Miss. R.M. 363) to Lock 27 (Miss. R.M. 186)
- Reach 3b = Open River L&D 27 (Miss. R.M. 186) to Thebes, IL (Miss. R.M. 43.5)

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
East Peoria Sanitary District	162.4	162.0	0.4	73	0	0	162.0	0.4	73	0	0
East Peoria	161.2	161.0	0.2	152	0	0	162.0	0.8	152	0	0
North Pekin											
Pekin-LaMarsh	152.4	153.0	0.6	2424	0	0	153.0	0.6	2424	0	0
Rocky Ford	152.4	153.0	0.6	1585	--	--	153.0	0.6	1585	--	--
Spring Lake	141.0	153.0	12.0	0	0	12789	153.0	12.0	12789	0	0
East Liverpool	141.0	153.0	12.0	0	0	2913	153.0	12.0	2913	0	0
Liverpool	130.1	119.0	11.1	0	0	3137	153.0	22.9	3137	0	0
Lacey, Langellier, W.Matanzas, Kerton Valley	115.6	119.0	3.4	11092	0	0	153.0	37.4	0	11092	0
Kelly Lake	101.7	88.0	13.7	0	0	1155	153.0	51.3	0	1155	0
Big Lake	105.7	119.0	13.3	0	0	3890	153.0	47.3	0	3890	0
Hager Slough	92.0	88.0	4.0	6871	0	0	153.0	61.0	0	0	6871
Lost Creek	89.7	88.0	1.7	3201	0	0	153.0	63.3	0	0	3201
Sanitary Dist. Of Beardstown	88.6	88.0	0.6	51	0	0	153.0	64.4	0	0	51
Coal Creek	88.5	88.0	0.5	6197	0	0	153.0	64.5	0	0	6197
Crane Creek	84.2	88.0	3.8	4266	0	0	153.0	68.8	0	0	4266
South Beardstown	84.2	88.0	3.8	8127	0	0	153.0	68.8	0	0	8127
Little Creek	76.7	71.4	5.3	0	1632	0	153.0	76.3	0	0	1632
McGee Creek	71.4	71.4	0.0	12540	0	0	153.0	81.6	0	0	12540
Meredosia & Willow Cr	69.4	71.4	2.0	15896	0	0	153.0	83.6	0	0	15896
Coon Run	68.9	71.4	2.5	2416	0	0	153.0	84.1	0	0	2416
Oakes	66.3	71.4	5.1	0	614	0	Alton-17	83.3	0	0	614
Valley City	65.1	71.4	6.3	0	4769	0	Alton-17	82.1	0	0	4769
Mauvaise Terre	64.8	71.4	6.6	0	5499	0	Alton-17	81.8	0	0	5499
Robertson	63.3	71.4	8.1	0	842	0	Alton-17	80.3	0	0	842
Scott County	59.3	55.0	4.3	11456	0	0	Alton-17	76.3	0	0	11456
Big Swan	53.6	55.0	1.4	13598	0	0	Alton-17	70.6	0	0	13598

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Hillview	46.6	55.0	8.4	0	13044	0	Alton-17	63.6	0	0	13044
Hartwell	40.7	55.0	14.3	0	0	9566	Alton-17	57.7	0	0	9566
Keach	35.3	20.6	14.7	0	0	9250	Alton-17	52.3	0	0	9250
Schaefer – Farrow	32.6	20.6	12.0	0	0	750	Alton-17	49.6	0	750	0
Bluffdale Farms	32.3	20.6	11.7	0	0	636	Alton-17	49.3	0	636	0
Eldred – Spankey DL	28.1	20.6	7.5	0	10285	0	Alton-17	45.1	0	10285	0
Nutwood	19.4	20.6	1.2	10568	0	0	Alton - 17	36.4	0	10568	0
REACH 4. SUBTOTALS	--	--	--	59593	0	7205	--	--	6123	12247	48428

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Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Dubuque	580.6	579.3	1.3	111	0	0	580.6	0.0	111	0	0
Sabula	535.0	537.8	2.8	451	0	0	517.3	17.7	451	0	0
REACH 1 SUBTOTALS	--	--	--	562	0	0	--	--	562	0	0
Fulton	519.8	520.0	0.2	5363	0	0	517.3	2.5	5363	0	0
Clinton	517.3	518.1	0.7	204	0	0	517.3	0.0	204	0	0
Meredosia	511.5	518.1	6.6	0	10306	0	517.3	5.8	10306	0	0
East Moline	489.3	485.8	3.5	122	0	0	490.0	0.7	122	0	0
Bettendorf	486.6	485.8	0.8	40	0	0	485.5	1.1	40	0	0
Rock Island	481.2	482.1	0.9	145	0	0	481.2	0.0	145	0	0
Milan	478.5	478.3	0.2	1351	0	0	481.2	2.7	1351	0	0
Andalusia	473.4	478.3	4.9	105	0	0	481.2	7.8	105	0	0
Muscatine/Mad Creek	456.0	455.9	0.1	0	0	0	455.0	1.0	0	0	0
Drury	455.2	455.9	0.7	5008	0	0	455.0	0.2	5008	0	0
Muscatine Island	448.4	455.9	7.5	0	25388	0	455.0	6.6	25388	0	0
Bay Island	442.6	455.9	13.3	0	0	19841	455.0	12.4	19841	0	0
Iowa R.-Flint Cr	417.5	404.2	23.7	0	0	44277	406.0	21.9	44277	0	0
Keithsburg	427.6	404.2	23.4	0	0	8	406.0	21.6	8	0	0
Henderson #1	407.3	404.2	3.1	8189	0	0	406.0	1.3	8189	0	0
Henderson #2	402.4	404.2	1.8	8432	0	0	406.0	3.6	8432	0	0
Green Bay	391.0	383.9	7.1	0	14687	0	383.4	7.6	14687	0	0
REACH 2 SUBTOTALS	--	--	--	28959	50381	64126	--	--	143466	0	0
Des Moines/Mississippi	358.9	363.8	4.9	8289	0	0	364.0	5.1	8289	0	0
Mississippi & Fox	357.0	363.8	6.8	0	8600	0	364.0	6.3	8600	0	0
Hunt-Lima	351.6	363.8	12.2	0	0	16888	364.0	12.4	16888	0	0
Gregory	351.2	363.8	12.6	0	0	8938	364.0	12.8	8938	0	0
Canton	342.0	327.2	14.8	0	0	207	327.0	15.0	207	0	0

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Indian Grave	338.7	327.2	11.5	0	0	19473	327.0	11.7	19473	0	0
Union Township	333.3	327.2	6.1	0	3860	0	327.0	6.3	3860	0	0
Fabius	327.7	327.2	0.5	14720	0	0	327.0	0.7	14720	0	0
Marion County	322.4	327.0	4.6	4096	0	0	327.0	4.6	4096	0	0
South Quincy	321.7	327.0	5.3	0	5189	0	327.0	5.3	5189	0	0
South River Industrial	319.0	327.0	8.0	0	0	0	327.0	8.0	0	0	0
South River	315.6	309.5	6.2	0	9842	0	309.5	6.1	9842	0	0
Hannibal	309.5	309.5	0.0	0	0	0	309.5	0.0	x	0	0
Sny Island Reach I	307.6	309.5	1.9	43939	0	0	309.5	1.9	43939	0	0
Sny Island Reach II	292.4	283.2	9.2	0	17088	0	309.5	17.1	17088	0	0
Riverland Private Levee	289.4	283.2	6.2	2756	0	0	309.5	20.1	2756	0	0
Sny Island Reach III	282.2	283.2	1.0	42728	0	0	309.5	27.3	0	42728	0
Petus-Burns-Prewitt-Jeager	271.6	283.2	11.6	0	0	491	309.5	37.9	0	491	0
Clarksville Levees	269.0	283.2	14.2	0	0	2149	309.5	40.5	0	2149	0
Sny Island Reach IV	268.7	283.2	14.5	0	0	11474	309.5	40.8	0	11474	0
Kissinger Levee District	266.4	283.2	16.8	0	0	2494	309.5	43.1	0	2494	0
Busch-Goose Pasture Farms	264.1	283.2	19.1	0	0	446	309.5	45.4	0	446	0
Cannon Wildlife Refuge Levee	262.2	283.2	21.0	0	0	3474	309.5	47.3	0	3474	0
Annada	262.2	283.2	21.0	0	0	3295	309.5	47.3	0	3295	0
Elsberry Drainage District	255.9	283.2	27.3	0	0	18364	309.5	53.6	0	0	18364
Kings Lake Drainage District	249.0	283.2	34.2	0	0	3191	309.5	60.5	0	0	3191
Sandy Creek Drainage District	245.7	283.2	37.5	0	0	1061	309.5	63.8	0	0	1061
Foley Drainage District	245.0	283.2	38.2	0	0	1070	309.5	64.5	0	0	1070
Cap Au Gris D&LD	241.1	202.4	38.7	0	0	4572	202.8	38.3	0	4572	0
Winfield D&LD	238.8	202.4	36.4	0	0	1605	202.8	36.0	0	1605	0
Brevator D&LD	238.0	202.4	35.6	0	0	2000	202.8	35.2	0	2000	0
Schramm Private Levee	237.2	202.4	34.8	0	0	272	202.8	34.4	0	272	0

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Old Monroe Private Levee	236.7	202.4	34.0	0	0	742	202.8	33.9	0	742	0
Heitman Private Levee	236.4	202.4	34.0	0	0	195	202.8	33.6	0	195	0
Marstan-Portuchek Private Levee	236.1	202.4	33.7	0	0	881	202.8	33.3	0	881	0
St. Peters Drainage, No.1/Urban	230.0	202.4	27.6	0	0	896	202.8	27.2	0	896	0
Consolidated N. County LD	206.2	202.4	3.8	17825	0	0	202.8	3.4	17825		
Wood River	198.0	202.4	4.4	4887	0	0	202.8	4.8	4887	0	0
Columbia Bottoms Levee	194.1	190.8	3.3	4364	0	0	202.8	8.7	4364	0	0
Chouteau Island D&LD	191.1	190.8	0.3	1797	0	0	181.7	9.4	1797	0	0
Chouteau, Nameoki and Venice D&LD	189.8	190.5	0.7	4800	0	0	181.7	8.1	4800	0	0
Gabaret/Cabrolet Island D&LD	187.3	190.5	3.2	774	0	0	181.7	5.6	774	0	0
St. Louis Flood Protection Project	181.6	182.5	0.9	253	0	0	181.7	0.1	253	0	0
Metro East Sanitary Dist.	179.3	180.0	0.7	49613	0	0	181.7	2.4	49613	0	0
Prairie du Pont	170.7	168.6	2.1	10663	0	0	181.7	11.0	10663	0	0
Columbia	160.8	168.6	7.8	0	13518	0	181.7	20.9	13518	0	0
Harrisonville	142.8	168.6	25.8	0	0	26224	181.7	38.9	0	26224	0
Stringtown	139.5	168.6	29.1	0	0	2633	181.7	42.2	0	2633	0
Fort Chartres & Ivy Landing	134.0	109.9	24.1	0	0	14964	181.7	47.7	0	14964	0
Prairie Du Rocher & Modoc	124.4	109.9	14.5	0	0	15640	181.7	57.3	0	0	15640
Ste. Genevieve Urban Levee	123.7	109.9	13.8	0	0	x	181.7	58.0	0	0	x

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Ste. Genevieve Levee District No. 2	119.5	109.9	9.6	0	7841	0	181.7	62.2	0	0	7841
Kaskaskia Island	113.4	109.9	3.5	9240	0	0	52.2	61.2	0	0	9240
Bois Brule	103.2	109.9	6.7	0	25993	0	52.2	51.0	0	0	25993
Degognia & Fountain Bluff	91.7	109.9	18.2	0	0	38048	52.2	39.5	0	38048	0
Grand Tower	78.9	51.6	27.3	0	0	14039	52.2	26.7	0	14039	0
Miller Pond	70.7	51.6	19.1	0	0	15753	52.2	18.5	15753	0	0
Preston	70.7	51.6	19.1	0	0	3760	52.2	18.5	3760	0	0
Clear Creek	61.0	51.6	9.4	0	15598	0	52.2	8.8	15598	0	0
Cape Girardeau	52.1	51.6	0.5	18	0	0	52.2	0.1	18	0	0
E. Cape Girardeau & Clear Creek	51.4	51.6	0.2	2957	0	0	52.2	0.8	2957	0	0
N. Alexander Co	51.4	51.6	0.2	10061	0	0	52.2	0.8	10061	0	0
REACH 3 SUBTOTALS	--	--	---	210628	54988	220636	--	--	283856	162210	45375

NOTE: Gray shaded areas indicate existing levels of protection in excess of 100-years.

- A major urban center is here defined as a population area with over 10,000 people.

** Existing lands at or above 100-year level of protection was determined from Plan S-3(U3) hydraulics data.

+ Totals are for the gray shaded areas only.

REACH CODE:

- Reach 1 = UMR HN to L&D 13 (Miss. R.M. 522.5)
- Reach 2 = UMR L&D 13 (Miss. R.M. 522.5) to 19 (Miss. R.M. 363)
- Reach 3a = UMR L&D 19 (Miss. R.M. 363) to Lock 27 (Miss. R.M. 186)
- Reach 3b = Open River L&D 27 (Miss. R.M. 186) to Thebes, IL (Miss. R.M. 43.5)

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
East Peoria Sanitary District	162.4	162.0	0.4	73	0	0	162.0	0.4	73	0	0
East Peoria	161.2	161.0	0.2	152	0	0	162.0	0.8	152	0	0
North Pekin											
Pekin-LaMarsh	152.4	153.0	0.6	2424	0	0	153.0	0.6	2424	0	0
Rocky Ford	152.4	153.0	0.6	1585	--	--	153.0	0.6	1585	--	--
Spring Lake	141.0	153.0	12.0	0	0	12789	153.0	12.0	12789	0	0
East Liverpool	141.0	153.0	12.0	0	0	2913	153.0	12.0	2913	0	0
Liverpool	130.1	119.0	11.1	0	0	3137	153.0	22.9	3137	0	0
Lacey, Langellier, W.Matanzas, Kerton Valley	115.6	119.0	3.4	11092	0	0	153.0	37.4	0	11092	0
Kelly Lake	101.7	88.0	13.7	0	0	1155	153.0	51.3	0	1155	0
Big Lake	105.7	119.0	13.3	0	0	3890	153.0	47.3	0	3890	0
Hager Slough	92.0	88.0	4.0	6871	0	0	153.0	61.0	0	0	6871
Lost Creek	89.7	88.0	1.7	3201	0	0	153.0	63.3	0	0	3201
Sanitary Dist. Of Beardstown	88.6	88.0	0.6	51	0	0	153.0	64.4	0	0	51
Coal Creek	88.5	88.0	0.5	6197	0	0	153.0	64.5	0	0	6197
Crane Creek	84.2	88.0	3.8	4266	0	0	153.0	68.8	0	0	4266
South Beardstown	84.2	88.0	3.8	8127	0	0	153.0	68.8	0	0	8127
Little Creek	76.7	71.4	5.3	0	1632	0	153.0	76.3	0	0	1632
McGee Creek	71.4	71.4	0.0	12540	0	0	153.0	81.6	0	0	12540
Meredosia & Willow Cr	69.4	71.4	2.0	15896	0	0	153.0	83.6	0	0	15896
Coon Run	68.9	71.4	2.5	2416	0	0	153.0	84.1	0	0	2416
Walnut Creek	56.3	55.0	1.3	500			Alton-17	73.3			500
Oakes	66.3	71.4	5.1	0	614	0	Alton-17	83.3	0	0	614
Valley City	65.1	71.4	6.3	0	4769	0	Alton-17	82.1	0	0	4769
Mauvaise Terre	64.8	71.4	6.6	0	5499	0	Alton-17	81.8	0	0	5499
Robertson	63.3	71.4	8.1	0	842	0	Alton-17	80.3	0	0	842
Scott County	59.3	55.0	4.3	11456	0	0	Alton-17	76.3	0	0	11456
Big Swan	53.6	55.0	1.4	13598	0	0	Alton-17	70.6	0	0	13598

Attachment 12. Plan B, Options 1, 2 & 4-- Secondary Development Potential for Illinois River (Continued)											
Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Hillview	46.6	55.0	8.4	0	13044	0	Alton-17	63.6	0	0	13044
Hartwell	40.7	55.0	14.3	0	0	9566	Alton-17	57.7	0	0	9566
Keach	35.3	20.6	14.7	0	0	9250	Alton-17	52.3	0	0	9250
Schaefer - Farrow	32.6	20.6	12.0	0	0	750	Alton-17	49.6	0	750	0
Bluffdale Farms	32.3	20.6	11.7	0	0	636	Alton-17	49.3	0	636	0
Eldred - Spankey DL	28.1	20.6	7.5	0	10285	0	Alton-17	45.1	0	10285	0
Nutwood	19.4	20.6	1.2	10568	0	0	Alton - 17	36.4	0	10568	0
REACH 4. SUBTOTALS	--	--	--	98860	13356	23884	--	--	21488	16137	98475

NOTE: Gray shaded areas indicate existing levels of protection in excess of 100-years.

* A major urban center is here defined as a population area with over 10,000 people.

** Existing lands at or above 100-year level of protection was determined from Plan S-3(U3) hydraulics data.

+ Totals are for the gray shaded areas only.

REACH CODE:

Reach 1 = UMR HN to L&D 13 (Miss. R.M. 522.5)

Reach 2 = UMR L&D 13 (Miss. R.M. 522.5) to 19 (Miss. R.M. 363)

Reach 3a = UMR L&D 19 (Miss. R.M. 363) to Lock 27 (Miss. R.M. 186)

Reach 3b = Open River L&D 27 (Miss. R.M. 186) to Thebes, IL (Miss. R.M. 43.5)

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Dubuque	580.6	579.3	1.3	111	0	0	580.6	0.0	111	0	0
Sabula	535.0	537.8	2.8	451	0	0	517.3	17.7	451	0	0
REACH 1 SUBTOTALS	--	--	--	562	0	0	--	--	562	0	0
Fulton	519.8	520.0	0.2	5363	0	0	517.3	2.5	5363	0	0
Clinton	517.3	518.1	0.7	204	0	0	517.3	0.0	204	0	0
Meredosia	511.5	518.1	6.6	0	10306	0	517.3	5.8	10306	0	0
East Moline	489.3	485.8	3.5	122	0	0	490.0	0.7	122	0	0
Bettendorf	486.6	485.8	0.8	40	0	0	485.5	1.1	40	0	0
Rock Island	481.2	482.1	0.9	145	0	0	481.2	0.0	145	0	0
Milan	478.5	478.3	0.2	1351	0	0	481.2	2.7	1351	0	0
Andalusia	473.4	478.3	4.9	105	0	0	481.2	7.8	105	0	0
Muscatine/Mad Creek	456.0	455.9	0.1	0	0	0	455.0	1.0	0	0	0
Drury	455.2	455.9	0.7	5008	0	0	455.0	0.2	5008	0	0
Muscatine Island	448.4	455.9	7.5	0	25388	0	455.0	6.6	25388	0	0
Bay Island	442.6	455.9	13.3	0	0	19841	455.0	12.4	19841	0	0
Iowa R.-Flint Cr	417.5	404.2	23.7	0	0	44277	406.0	21.9	44277	0	0
Keelburg	427.6	404.2	23.4	0	0	8	406.0	21.6	8	0	0
Henderson #1	407.3	404.2	3.1	8189	0	0	406.0	1.3	8189	0	0
Henderson #2	402.4	404.2	1.8	8432	0	0	406.0	3.6	8432	0	0
Green Bay	391.0	383.9	7.1	0	14687	0	383.4	7.6	14687	0	0
REACH 2 SUBTOTALS	--	--	--	23951	50381	64126	--	--	138458	0	0
Des Moines/Mississippi	358.9	363.8	4.9	8289	0	0	364.0	5.1	8289	0	0
Mississippi & Fox	357.0	363.8	6.8	0	8600	0	364.0	6.3	8600	0	0
Hunt-Lima	351.6	363.8	12.2	0	0	16888	364.0	12.4	16888	0	0
Gregory	351.2	363.8	12.6	0	0	8938	364.0	12.8	8938	0	0
Canton	342.0	327.2	14.8	0	0	207	327.0	15.0	207	0	0

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **				
				At 0-5 Miles					At 25-50 Miles				
				At 5-10 Miles	At >10 Miles	At >50 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles		
Indian Grave	338.7	327.2	11.5	0	0	19473	327.0	11.7	19473	0	0		
Union Township	333.3	327.2	6.1	0	3860	0	327.0	6.3	3860	0	0		
Fabius	327.7	327.2	0.5	14720	0	0	327.0	0.7	14720	0	0		
Marion County	322.4	327.0	4.6	4096	0	0	327.0	4.6	4096	0	0		
South Quincy	321.7	327.0	5.3	0	5189	0	327.0	5.3	5189	0	0		
South River Industrial	319.0	327.0	8.0	0	0	0	327.0	8.0	0	0	0		
South River	315.6	309.5	6.2	0	9842	0	309.5	6.1	9842	0	0		
Hannibal	309.5	309.5	0.0	0	0	0	309.5	0.0	x	0	0		
Sny Island Reach I	307.6	309.5	1.9	43939	0	0	309.5	1.9	43939	0	0		
Sny Island Reach II	292.4	283.2	9.2	0	17088	0	309.5	17.1	17088	0	0		
Riverland Private Levee	289.4	283.2	6.2	2756	0	0	309.5	20.1	2756	0	0		
Sny Island Reach III	282.2	283.2	1.0	42728	0	0	309.5	27.3	0	42728	0		
Petus-Burns-Prewitt-Jeager	271.6	283.2	11.6	0	0	491	309.5	37.9	0	491	0		
Clarksville Levees	269.0	283.2	14.2	0	0	2149	309.5	40.5	0	2149	0		
Sny Island Reach IV	268.7	283.2	14.5	0	0	11474	309.5	40.8	0	11474	0		
Kissinger Levee District	266.4	283.2	16.8	0	0	2494	309.5	43.1	0	2494	0		
Busch-Goose Pasture Farms	264.1	283.2	19.1	0	0	446	309.5	45.4	0	446	0		
Cannon Wildlife Refuge Levee	262.2	283.2	21.0	0	0	3474	309.5	47.3	0	3474	0		
Annada	262.2	283.2	21.0	0	0	3295	309.5	47.3	0	3295	0		
Elsberry Drainage District	255.9	283.2	27.3	0	0	18364	309.5	53.6	0	0	18364		
Kings Lake Drainage District	249.0	283.2	34.2	0	0	3191	309.5	60.5	0	0	3191		
Sandy Creek Drainage District	245.7	283.2	37.5	0	0	1061	309.5	63.8	0	0	1061		
Foley Drainage District	245.0	283.2	38.2	0	0	1070	309.5	64.5	0	0	1070		
Cap Au Gris D&LD	241.1	202.4	38.7	0	0	4572	202.8	38.3	0	4572	0		
Winfield D&LD	238.8	202.4	36.4	0	0	1605	202.8	36.0	0	1605	0		
Brevator D&LD	238.0	202.4	35.6	0	0	2000	202.8	35.2	0	2000	0		
Schramm Private Levee	237.2	202.4	34.8	0	0	272	202.8	34.4	0	272	0		

Attachment 13. Plan B, Option 3 -- Secondary Development Potential for Mississippi River (Continued)

(NOTE: Yellow = Lands at or above 100-year level of protection without a project in place; Green = New areas at or above 100-year protection level as a result of a study plan; Purple = Areas bought out and therefore not available for secondary development)

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Old Monroe Private Levee	236.7	202.4	34.0	0	0	742	202.8	33.9	0	742	0
Heitman Private Levee	236.4	202.4	34.0	0	0	195	202.8	33.6	0	195	0
Marstan-Portuchek Private Levee	236.1	202.4	33.7	0	0	881	202.8	33.3	0	881	0
St. Peters Drainage, No.1/Urban	230.0	202.4	27.6	0	0	896	202.8	27.2	0	896	0
Consolidated N. County LD	206.2	202.4	3.8	17825	0	0	202.8	3.4	17825		
Wood River	198.0	202.4	4.4	4887	0	0	202.8	4.8	4887	0	0
Columbia Bottoms Levee	194.1	190.8	3.3	4364	0	0	202.8	8.7	4364	0	0
Chouteau Island D&LD	191.1	190.8	0.3	1797	0	0	181.7	9.4	1797	0	0
Chouteau, Nameoki and Venice D&LD	189.8	190.5	0.7	4800	0	0	181.7	8.1	4800	0	0
Gabaret/Cabrolet Island D&LD	187.3	190.5	3.2	774	0	0	181.7	5.6	774	0	0
St. Louis Flood Protection Project	181.6	182.5	0.9	253	0	0	181.7	0.1	253	0	0
Metro East Sanitary Dist.	179.3	180.0	0.7	49613	0	0	181.7	2.4	49613	0	0
Prairie du Pont	170.7	168.6	2.1	10663	0	0	181.7	11.0	10663	0	0
Columbia	160.8	168.6	7.8	0	13518	0	181.7	20.9	13518	0	0
Harrisonville	142.8	168.6	25.8	0	0	26224	181.7	38.9	0	26224	0
Stringtown	139.5	168.6	29.1	0	0	2633	181.7	42.2	0	2633	0
Fort Chartres & Ivy Landing	134.0	109.9	24.1	0	0	14964	181.7	47.7	0	14964	0
Prairie Du Rocher & Modoc	124.4	109.9	14.5	0	0	15640	181.7	57.3	0	0	15640
Ste. Genevieve Urban Levee	123.7	109.9	13.8	0	0	x	181.7	58.0	0	0	x

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Ste. Genevieve Levee District No. 2	119.5	109.9	9.6	0	7841	0	181.7	62.2	0	0	7841
Kaskaskia Island	113.4	109.9	3.5	9240	0	0	52.2	61.2	0	0	9240
Bois Brule	103.2	109.9	6.7	0	25993	0	52.2	51.0	0	0	25993
Degognia & Fountain Bluff	91.7	109.9	18.2	0	0	38048	52.2	39.5	0	38048	0
Grand Tower	78.9	51.6	27.3	0	0	14039	52.2	26.7	0	14039	0
Miller Pond	70.7	51.6	19.1	0	0	15753	52.2	18.5	15753	0	0
Preston	70.7	51.6	19.1	0	0	3760	52.2	18.5	3760	0	0
Clear Creek	61.0	51.6	9.4	0	15598	0	52.2	8.8	15598	0	0
Cape Girardeau	52.1	51.6	0.5	18	0	0	52.2	0.1	18	0	0
E. Cape Girardeau & Clear Creek	51.4	51.6	0.2	2957	0	0	52.2	0.8	2957	0	0
N. Alexander Co.	51.4	51.6	0.2	10061	0	0	52.2	0.8	10061	0	0
Little River (New Levee)	48.8	51.6	2.8	13566	0	0	52.2	3.4	13566	0	0
REACH 3 SUBTOTALS	--	--	---	206532	54988	196708	--	--	274571	140413	43244

NOTE: Gray shaded areas indicate existing levels of protection in excess of 100-years.

- A major urban center is here defined as a population area with over 10,000 people.

** Existing lands at or above 100-year level of protection was determined from Plan S-3(U3) hydraulics data.

+ Totals are for the gray shaded areas only.

REACH CODE:

- Reach 1 = UMR HN to L&D 13 (Miss. R.M. 522.5)
- Reach 2 = UMR L&D 13 (Miss. R.M. 522.5) to 19 (Miss. R.M. 363)
- Reach 3a = UMR L&D 19 (Miss. R.M. 363) to Lock 27 (Miss. R.M. 186)
- Reach 3b = Open River L&D 27 (Miss. R.M. 186) to Thebes, IL (Miss. R.M. 43.5)

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
East Peoria Sanitary District	162.4	162.0	0.4	73	0	0	162.0	0.4	73	0	0
East Peoria	161.2	161.0	0.2	152	0	0	162.0	0.8	152	0	0
North Pekin											
Pekin-LaMarsh	152.4	153.0	0.6	2424	0	0	153.0	0.6	2424	0	0
Rocky Ford	152.4	153.0	0.6	1585	--	--	153.0	0.6	1585	--	--
Spring Lake	141.0	153.0	12.0	0	0	12789	153.0	12.0	12789	0	0
East Liverpool	141.0	153.0	12.0	0	0	2913	153.0	12.0	2913	0	0
Liverpool	130.1	119.0	11.1	0	0	3137	153.0	22.9	3137	0	0
Lacey, Langellier, W.Matanzas, Kerton Valley	115.6	119.0	3.4	11092	0	0	153.0	37.4	0	11092	0
Kelly Lake	101.7	88.0	13.7	0	0	1155	153.0	51.3	0	1155	0
Big Lake	105.7	119.0	13.3	0	0	3890	153.0	47.3	0	3890	0
Hager Slough	92.0	88.0	4.0	6871	0	0	153.0	61.0	0	0	6871
Lost Creek	89.7	88.0	1.7	3201	0	0	153.0	63.3	0	0	3201
Sanitary Dist. of Beardstown	88.6	88.0	0.6	51	0	0	153.0	64.4	0	0	51
Coal Creek	88.5	88.0	0.5	6197	0	0	153.0	64.5	0	0	6197
Crane Creek	84.2	88.0	3.8	4266	0	0	153.0	68.8	0	0	4266
South Beardstown	84.2	88.0	3.8	8127	0	0	153.0	68.8	0	0	8127
Little Creek	76.7	71.4	5.3	0	1632	0	153.0	76.3	0	0	1632
McGee Creek	71.4	71.4	0.0	12540	0	0	153.0	81.6	0	0	12540
Meredosia & Willow Cr	69.4	71.4	2.0	15896	0	0	153.0	83.6	0	0	15896
Coon Run	68.9	71.4	2.5	2416	0	0	153.0	84.1	0	0	2416
Oakes	66.3	71.4	5.1	0	614	0	Alton-17	83.3	0	0	614
Valley City	65.1	71.4	6.3	0	4769	0	Alton-17	82.1	0	0	4769
Mauvaise Terre	64.8	71.4	6.6	0	5499	0	Alton-17	81.8	0	0	5499
Robertson	63.3	71.4	8.1	0	842	0	Alton-17	80.3	0	0	842
Scott County	59.3	55.0	4.3	11456	0	0	Alton-17	76.3	0	0	11456
Big Swan	53.6	55.0	1.4	13598	0	0	Alton-17	70.6	0	0	13598

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Hillview	46.6	55.0	8.4	0	13044	0	Alton-17	63.6	0	0	13044
Hartwell	40.7	55.0	14.3	0	0	9566	Alton-17	57.7	0	0	9566
Keach	35.3	20.6	14.7	0	0	9250	Alton-17	52.3	0	0	9250
Schaefer - Farrow	32.6	20.6	12.0	0	0	750	Alton-17	49.6	0	750	0
Bluffdale Farms	32.3	20.6	11.7	0	0	636	Alton-17	49.3	0	636	0
Eldred - Spankey DL	28.1	20.6	7.5	0	10285	0	Alton-17	45.1	0	10285	0
Nutwood	19.4	20.6	1.2	10568	0	0	Alton-17	36.4	0	10568	0
REACH 4. SUBTOTALS	--	--	--	48944	0	15926	--	--	16151	11092	37627

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** Existing lands at or above 100-year level of protection was determined from Plan S-3(U3) hydraulics data.

+ Totals are for the gray shaded areas only.

REACH CODE:

Reach 1 = UMR HN to L&D 13 (Miss. R.M. 522.5)

Reach 2 = UMR L&D 13 (Miss. R.M. 522.5) to 19 (Miss. R.M. 363)

Reach 3a = UMR L&D 19 (Miss. R.M. 363) to Lock 27 (Miss. R.M. 186)

Reach 3b = Open River L&D 27 (Miss. R.M. 186) to Thebes, IL (Miss. R.M. 43.5)

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **				
				At 0-5 Miles					At 5-10 Miles				
				At >10 Miles	At 0-25 Miles	At 25-50 Miles			At >50 Miles				
Dubuque	580.6	579.3	1.3	111	0	0	580.6	0.0	111	0	0		
Sabula	535.0	537.8	2.8	451	0	0	517.3	17.7	451	0	0		
REACH 1 SUBTOTALS	--	--	--	562	0	0	--	--	562	0	0		
Fulton	519.8	520.0	0.2	5363	0	0	517.3	2.5	5363	0	0		
Clinton	517.3	518.1	0.7	204	0	0	517.3	0.0	204	0	0		
Meredosia	511.5	518.1	6.6	0	10306	0	517.3	5.8	10306	0	0		
East Moline	489.3	485.8	3.5	122	0	0	490.0	0.7	122	0	0		
Bettendorf	486.6	485.8	0.8	40	0	0	485.5	1.1	40	0	0		
Rock Island	481.2	482.1	0.9	145	0	0	481.2	0.0	145	0	0		
Milan	478.5	478.3	0.2	1351	0	0	481.2	2.7	1351	0	0		
Andalusia	473.4	478.3	4.9	105	0	0	481.2	7.8	105	0	0		
Muscatine/Mad Creek	456.0	455.9	0.1	0	0	0	455.0	1.0	0	0	0		
Drury	455.2	455.9	0.7	5008	0	0	455.0	0.2	5008	0	0		
Muscatine Island	448.4	455.9	7.5	0	25388	0	455.0	6.6	25388	0	0		
Bay Island	442.6	455.9	13.3	0	0	19841	455.0	12.4	19841	0	0		
Iowa R.-Flint Cr	417.5	404.2	23.7	0	0	44277	406.0	21.9	44277	0	0		
Keithsburg	427.6	404.2	23.4	0	0	8	406.0	21.6	8	0	0		
Henderson #1	407.3	404.2	3.1	8189	0	0	406.0	1.3	8189	0	0		
Henderson #2	402.4	404.2	1.8	8432	0	0	406.0	3.6	8432	0	0		
Green Bay	391.0	383.9	7.1	0	14687	0	383.4	7.6	14687	0	0		
REACH 2 SUBTOTALS	--	--	--	12233	25388	44277	--	--	81898	0	0		
Des Moines/Mississippi	358.9	363.8	4.9	8289	0	0	364.0	5.1	8289	0	0		
Mississippi & Fox	357.0	363.8	6.8	0	8600	0	364.0	6.3	8600	0	0		
Hunt-Lima	351.6	363.8	12.2	0	0	16888	364.0	12.4	16888	0	0		
Gregory	351.2	363.8	12.6	0	0	8938	364.0	12.8	8938	0	0		
Canton	342.0	327.2	14.8	0	0	207	327.0	15.0	207	0	0		

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Indian Grave	338.7	327.2	11.5	0	0	19473	327.0	11.7	19473	0	0
Union Township	333.3	327.2	6.1	0	3860	0	327.0	6.3	3860	0	0
Fabius	327.7	327.2	0.5	14720	0	0	327.0	0.7	14720	0	0
Marion County	322.4	327.0	4.6	4096	0	0	327.0	4.6	4096	0	0
South Quincy	321.7	327.0	5.3	0	5189	0	327.0	5.3	5189	0	0
South River Industrial	319.0	327.0	8.0	0	0	0	327.0	8.0	0	0	0
South River	315.6	309.5	6.2	0	9842	0	309.5	6.1	9842	0	0
Hannibal	309.5	309.5	0.0	0	0	0	309.5	0.0	x	0	0
Sny Island Reach I	307.6	309.5	1.9	43939	0	0	309.5	1.9	43939	0	0
Sny Island Reach II	292.4	283.2	9.2	0	17088	0	309.5	17.1	17088	0	0
Riverland Private Levee	289.4	283.2	6.2	2756	0	0	309.5	20.1	2756	0	0
Sny Island Reach III	282.2	283.2	1.0	42728	0	0	309.5	27.3	0	42728	0
Petus-Burns-Prewitt-Jeager	271.6	283.2	11.6	0	0	491	309.5	37.9	0	491	0
Clarksville Levees	269.0	283.2	14.2	0	0	2149	309.5	40.5	0	2149	0
Sny Island Reach IV	268.7	283.2	14.5	0	0	11474	309.5	40.8	0	11474	0
Kissinger Levee District	266.4	283.2	16.8	0	0	2494	309.5	43.1	0	2494	0
Busch-Goose Pasture Farms	264.1	283.2	19.1	0	0	446	309.5	45.4	0	446	0
Cannon Wildlife Refuge Levee	262.2	283.2	21.0	0	0	3474	309.5	47.3	0	3474	0
Annada	262.2	283.2	21.0	0	0	3295	309.5	47.3	0	3295	0
Elsberry Drainage District	255.9	283.2	27.3	0	0	18364	309.5	53.6	0	0	18364
Kings Lake Drainage District	249.0	283.2	34.2	0	0	3191	309.5	60.5	0	0	3191
Sandy Creek Drainage District	245.7	283.2	37.5	0	0	1061	309.5	63.8	0	0	1061
Foley Drainage District	245.0	283.2	38.2	0	0	1070	309.5	64.5	0	0	1070
Cap Au Gris D&LD	241.1	202.4	38.7	0	0	4572	202.8	38.3	0	4572	0
Winfield D&LD	238.8	202.4	36.4	0	0	1605	202.8	36.0	0	1605	0
Brevator D&LD	238.0	202.4	35.6	0	0	2000	202.8	35.2	0	2000	0
Schramm Private Levee	237.2	202.4	34.8	0	0	272	202.8	34.4	0	272	0

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Old Monroe Private Levee	236.7	202.4	34.0	0	0	742	202.8	33.9	0	742	0
Heitman Private Levee	236.4	202.4	34.0	0	0	195	202.8	33.6	0	195	0
Marstan-Portuchek Private Levee	236.1	202.4	33.7	0	0	881	202.8	33.3	0	881	0
St. Peters Drainage, No. 1/Urban	230.0	202.4	27.6	0	0	896	202.8	27.2	0	896	0
Consolidated N. County LD	206.2	202.4	3.8	17825	0	0	202.8	3.4	17825		
Wood River	198.0	202.4	4.4	4887	0	0	202.8	4.8	4887	0	0
Columbia Bottoms Levee	194.1	190.8	3.3	4364	0	0	202.8	8.7	4364	0	0
Chouteau Island D&LD	191.1	190.8	0.3	1797	0	0	181.7	9.4	1797	0	0
Chouteau, Nameoki and Venice D&LD	189.8	190.5	0.7	4800	0	0	181.7	8.1	4800	0	0
Gabaret/Cabrolet Island D&LD	187.3	190.5	3.2	774	0	0	181.7	5.6	774	0	0
St. Louis Flood Protection Project	181.6	182.5	0.9	253	0	0	181.7	0.1	253	0	0
Metro East Sanitary Dist.	179.3	180.0	0.7	49613	0	0	181.7	2.4	49613	0	0
Praire du Pont	170.7	168.6	2.1	10663	0	0	181.7	11.0	10663	0	0
Columbia	160.8	168.6	7.8	0	13518	0	181.7	20.9	13518	0	0
Harrisonville	142.8	168.6	25.8	0	0	26224	181.7	38.9	0	26224	0
Stringtown	139.5	168.6	29.1	0	0	2633	181.7	42.2	0	2633	0
Fort Chartres & Ivy Landing	134.0	109.9	24.1	0	0	14964	181.7	47.7	0	14964	0
Prairie Du Rocher & Modoc	124.4	109.9	14.5	0	0	15640	181.7	57.3	0	0	15640
Ste. Genevieve Urban Levee	123.7	109.9	13.8	0	0	x	181.7	58.0	0	0	x

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Ste. Genevieve Levee District No. 2	119.5	109.9	9.6	0	7841	0	181.7	62.2	0	0	7841
Kaskaskia Island	113.4	109.9	3.5	9240	0	0	52.2	61.2	0	0	9240
Bois Brule	103.2	109.9	6.7	0	25993	0	52.2	51.0	0	0	25993
Degognia & Fountain Bluff	91.7	109.9	18.2	0	0	38048	52.2	39.5	0	38048	0
Grand Tower	78.9	51.6	27.3	0	0	14039	52.2	26.7	0	14039	0
Miller Pond	70.7	51.6	19.1	0	0	15753	52.2	18.5	15753	0	0
Preston	70.7	51.6	19.1	0	0	3760	52.2	18.5	3760	0	0
Clear Creek	61.0	51.6	9.4	0	15598	0	52.2	8.8	15598	0	0
Cape Girardeau	52.1	51.6	0.5	18	0	0	52.2	0.1	18	0	0
E. Cape Girardeau & Clear Creek	51.4	51.6	0.2	2957	0	0	52.2	0.8	2957	0	0
N. Alexander Co	51.4	51.6	0.2	10061	0	0	52.2	0.8	10061	0	0
REACH 3 SUBTOTALS	--	--	---	105145	20787	172049	--	--	164823	108278	24880

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Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
East Peoria Sanitary District	162.4	162.0	0.4	73	0	0	162.0	0.4	73	0	0
East Peoria	161.2	161.0	0.2	152	0	0	162.0	0.8	152	0	0
North Pekin											
Pekin-LaMarsh	152.4	153.0	0.6	2424	0	0	153.0	0.6	2424	0	0
Rocky Ford	152.4	153.0	0.6	1585	--	--	153.0	0.6	1585	--	--
Spring Lake	141.0	153.0	12.0	0	0	12789	153.0	12.0	12789	0	0
East Liverpool	141.0	153.0	12.0	0	0	2913	153.0	12.0	2913	0	0
Liverpool	130.1	119.0	11.1	0	0	3137	153.0	22.9	3137	0	0
Lacey, Langellier, W.Matanzas, Kerton Valley	115.6	119.0	3.4	11092	0	0	153.0	37.4	0	11092	0
Kelly Lake	101.7	88.0	13.7	0	0	1155	153.0	51.3	0	1155	0
Big Lake	105.7	119.0	13.3	0	0	3890	153.0	47.3	0	3890	0
Hager Slough	92.0	88.0	4.0	6871	0	0	153.0	61.0	0	0	6871
Lost Creek	89.7	88.0	1.7	3201	0	0	153.0	63.3	0	0	3201
Sanitary Dist. of Beardstown	88.6	88.0	0.6	51	0	0	153.0	64.4	0	0	51
Coal Creek	88.5	88.0	0.5	6197	0	0	153.0	64.5	0	0	6197
Crane Creek	84.2	88.0	3.8	4266	0	0	153.0	68.8	0	0	4266
South Beardstown	84.2	88.0	3.8	8127	0	0	153.0	68.8	0	0	8127
Little Creek	76.7	71.4	5.3	0	1632	0	153.0	76.3	0	0	1632
McGee Creek	71.4	71.4	0.0	12540	0	0	153.0	81.6	0	0	12540
Meredosia & Willow Cr	69.4	71.4	2.0	15896	0	0	153.0	83.6	0	0	15896
Coon Run	68.9	71.4	2.5	2416	0	0	153.0	84.1	0	0	2416
Oakes	66.3	71.4	5.1	0	614	0	Alton-17	83.3	0	0	614
Valley City	65.1	71.4	6.3	0	4769	0	Alton-17	82.1	0	0	4769
Mauvaise Terre	64.8	71.4	6.6	0	5499	0	Alton-17	81.8	0	0	5499
Robertson	63.3	71.4	8.1	0	842	0	Alton-17	80.3	0	0	842
Scott County	59.3	55.0	4.3	11456	0	0	Alton-17	76.3	0	0	11456
Big Swan	53.6	55.0	1.4	13598	0	0	Alton-17	70.6	0	0	13598

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
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Hillview	46.6	55.0	8.4	0	13044	0	Alton-17	63.6	0	0	13044
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Keach	35.3	20.6	14.7	0	0	9250	Alton-17	52.3	0	0	9250
Schaefer - Farrow	32.6	20.6	12.0	0	0	750	Alton-17	49.6	0	750	0
Bluffdale Farms	32.3	20.6	11.7	0	0	636	Alton-17	49.3	0	636	0
Eldred - Spankey DL	28.1	20.6	7.5	0	10285	0	Alton-17	45.1	0	10285	0
Nutwood	19.4	20.6	1.2	10568	0	0	Alton - 17	36.4	0	10568	0
REACH 4. SUBTOTALS	--	--	--	59745	0	7205	--	6275	12247	48428	

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				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Dubuque	580.6	579.3	1.3	111	0	0	580.6	0.0	111	0	0
Sabula	535.0	537.8	2.8	451	0	0	517.3	17.7	451	0	0
REACH 1 SUBTOTALS	--	--	--	562	0	0	--	--	562	0	0
Fulton	519.8	520.0	0.2	5363	0	0	517.3	2.5	5363	0	0
Clinton	517.3	518.1	0.7	204	0	0	517.3	0.0	204	0	0
Meredosia	511.5	518.1	6.6	0	10306	0	517.3	5.8	10306	0	0
East Moline	489.3	485.8	3.5	122	0	0	490.0	0.7	122	0	0
Bettendorf	486.6	485.8	0.8	40	0	0	485.5	1.1	40	0	0
Rock Island	481.2	482.1	0.9	145	0	0	481.2	0.0	145	0	0
Milan	478.5	478.3	0.2	1351	0	0	481.2	2.7	1351	0	0
Andalusia	473.4	478.3	4.9	105	0	0	481.2	7.8	105	0	0
Muscatine/Mad Creek	456.0	455.9	0.1	0	0	0	455.0	1.0	0	0	0
Drury	455.2	455.9	0.7	5008	0	0	455.0	0.2	5008	0	0
Muscatine Island	448.4	455.9	7.5	0	25388	0	455.0	6.6	25388	0	0
Bay Island	442.6	455.9	13.3	0	0	19841	455.0	12.4	19841	0	0
Iowa R.-Flint Cr	417.5	404.2	23.7	0	0	44277	406.0	21.9	44277	0	0
Keithsburg	427.6	404.2	23.4	0	0	8	406.0	21.6	8	0	0
Henderson #1	407.3	404.2	3.1	8189	0	0	406.0	1.3	8189	0	0
Henderson #2	402.4	404.2	1.8	8432	0	0	406.0	3.6	8432	0	0
Green Bay	391.0	383.9	7.1	0	14687	0	383.4	7.6	14687	0	0
REACH 2 SUBTOTALS	--	--	--	12233	25388	44277	--	--	81898	0	0
Des Moines/Mississippi	358.9	363.8	4.9	8289	0	0	364.0	5.1	8289	0	0
Mississippi & Fox	357.0	363.8	6.8	0	8600	0	364.0	6.3	8600	0	0
Hunt-Lima	351.6	363.8	12.2	0	0	16888	364.0	12.4	16888	0	0
Gregory	351.2	363.8	12.6	0	0	8938	364.0	12.8	8938	0	0
Canton	342.0	327.2	14.8	0	0	207	327.0	15.0	207	0	0

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Indian Grave	338.7	327.2	11.5	0	0	19473	327.0	11.7	19473	0	0
Union Township	333.3	327.2	6.1	0	3860	0	327.0	6.3	3860	0	0
Fabius	327.7	327.2	0.5	14720	0	0	327.0	0.7	14720	0	0
Marion County	322.4	327.0	4.6	4096	0	0	327.0	4.6	4096	0	0
South Quincy	321.7	327.0	5.3	0	5189	0	327.0	5.3	5189	0	0
South River Industrial	319.0	327.0	8.0	0	0	0	327.0	8.0	0	0	0
South River	315.6	309.5	6.2	0	9842	0	309.5	6.1	9842	0	0
Hannibal	309.5	309.5	0.0	0	0	0	309.5	0.0	x	0	0
Sny Island Reach I	307.6	309.5	1.9	43939	0	0	309.5	1.9	43939	0	0
Sny Island Reach II	292.4	283.2	9.2	0	17088	0	309.5	17.1	17088	0	0
Riverland Private Levee	289.4	283.2	6.2	2756	0	0	309.5	20.1	2756	0	0
Sny Island Reach III	282.2	283.2	1.0	42728	0	0	309.5	27.3	0	42728	0
Petus-Burns-Prewitt-Jeager	271.6	283.2	11.6	0	0	491	309.5	37.9	0	491	0
Clarksville Levees	269.0	283.2	14.2	0	0	2149	309.5	40.5	0	2149	0
Sny Island Reach IV	268.7	283.2	14.5	0	0	11474	309.5	40.8	0	11474	0
Kissinger Levee District	266.4	283.2	16.8	0	0	2494	309.5	43.1	0	2494	0
Busch-Goose Pasture Farms	264.1	283.2	19.1	0	0	446	309.5	45.4	0	446	0
Cannon Wildlife Refuge Levee	262.2	283.2	21.0	0	0	3474	309.5	47.3	0	3474	0
Annada	262.2	283.2	21.0	0	0	3295	309.5	47.3	0	3295	0
Elsberry Drainage District	255.9	283.2	27.3	0	0	18364	309.5	53.6	0	0	18364
Kings Lake Drainage District	249.0	283.2	34.2	0	0	3191	309.5	60.5	0	0	3191
Sandy Creek Drainage District	245.7	283.2	37.5	0	0	1061	309.5	63.8	0	0	1061
Foley Drainage District	245.0	283.2	38.2	0	0	1070	309.5	64.5	0	0	1070
Cap Au Gris D&LD	241.1	202.4	38.7	0	0	4572	202.8	38.3	0	4572	0
Winfield D&LD	238.8	202.4	36.4	0	0	1605	202.8	36.0	0	1605	0
Brevator D&LD	238.0	202.4	35.6	0	0	2000	202.8	35.2	0	2000	0
Schramm Private Levee	237.2	202.4	34.8	0	0	272	202.8	34.4	0	272	0

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Old Monroe Private Levee	236.7	202.4	34.0	0	0	742	202.8	33.9	0	742	0
Heitman Private Levee	236.4	202.4	34.0	0	0	195	202.8	33.6	0	195	0
Marslan-Portuchek Private Levee	236.1	202.4	33.7	0	0	881	202.8	33.3	0	881	0
St. Peters Drainage, No 1/Urban	230.0	202.4	27.6	0	0	896	202.8	27.2	0	896	0
Consolidated N. County LD	206.2	202.4	3.8	17825	0	0	202.8	3.4	17825		
Wood River	198.0	202.4	4.4	4887	0	0	202.8	4.8	4887	0	0
Columbia Bottoms Levee	194.1	190.8	3.3	4364	0	0	202.8	8.7	4364	0	0
Chouteau Island D&LD	191.1	190.8	0.3	1797	0	0	181.7	9.4	1797	0	0
Chouteau, Nameoki and Venice D&LD	189.8	190.5	0.7	4800	0	0	181.7	8.1	4800	0	0
Gabaret/Cabrolet Island D&LD	187.3	190.5	3.2	774	0	0	181.7	5.6	774	0	0
St. Louis Flood Protection Project	181.6	182.5	0.9	253	0	0	181.7	0.1	253	0	0
Metro East Sanitary Dist.	179.3	180.0	0.7	49613	0	0	181.7	2.4	49613	0	0
Prairie du Pont	170.7	168.6	2.1	10663	0	0	181.7	11.0	10663	0	0
Columbia	160.8	168.6	7.8	0	13518	0	181.7	20.9	13518	0	0
Harrisonville	142.8	168.6	25.8	0	0	26224	181.7	38.9	0	26224	0
Stringtown	139.5	168.6	29.1	0	0	2633	181.7	42.2	0	2633	0
Fort Chartres & Ivy Landing	134.0	109.9	24.1	0	0	14964	181.7	47.7	0	14964	0
Prairie Du Rocher & Modoc	124.4	109.9	14.5	0	0	15640	181.7	57.3	0	0	15640
Ste. Genevieve Urban Levee	123.7	109.9	13.8	0	0	x	181.7	58.0	0	0	x

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Ste. Genevieve Levee District No. 2	119.5	109.9	9.6	0	7841	0	181.7	62.2	0	0	7841
Kaskaskia Island	113.4	109.9	3.5	9240	0	0	52.2	61.2	0	0	9240
Bois Brule	103.2	109.9	6.7	0	25993	0	52.2	51.0	0	0	25993
Degognia & Fountain Bluff	91.7	109.9	18.2	0	0	38048	52.2	39.5	0	38048	0
Grand Tower	78.9	51.6	27.3	0	0	14039	52.2	26.7	0	14039	0
Miller Pond	70.7	51.6	19.1	0	0	15753	52.2	18.5	15753	0	0
Preston	70.7	51.6	19.1	0	0	3760	52.2	18.5	3760	0	0
Clear Creek	61.0	51.6	9.4	0	15598	0	52.2	8.8	15598	0	0
Cape Girardeau	52.1	51.6	0.5	18	0	0	52.2	0.1	18	0	0
E. Cape Girardeau & Clear Creek	51.4	51.6	0.2	2957	0	0	52.2	0.8	2957	0	0
N. Alexander Co.	51.4	51.6	0.2	10061	0	0	52.2	0.8	10061	0	0
Little River (New Levee)											
REACH 3 SUBTOTALS	--	--	---	105145	20787	172049	--	--	164823	108278	24880

NOTE: Gray shaded areas indicate existing levels of protection in excess of 100-years.

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REACH CODE:

- Reach 1 = UMR HN to L&D 13 (Miss. R.M. 522.5)
- Reach 2 = UMR L&D 13 (Miss. R.M. 522.5) to 19 (Miss. R.M. 363)
- Reach 3a = UMR L&D 19 (Miss. R.M. 363) to Lock 27 (Miss. R.M. 186)
- Reach 3b = Open River L&D 27 (Miss. R.M. 186) to Thebes, IL (Miss. R.M. 43.5)

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
East Peoria Sanitary District	162.4	162.0	0.4	73	0	0	162.0	0.4	73	0	0
East Peoria	161.2	161.0	0.2	152	0	0	162.0	0.8	152	0	0
North Pekin											
Pekin-LaMarsh	152.4	153.0	0.6	2424	0	0	153.0	0.6	2424	0	0
Rocky Ford	152.4	153.0	0.6	1585	--	--	153.0	0.6	1585	--	--
Spring Lake	141.0	153.0	12.0	0	0	12789	153.0	12.0	12789	0	0
East Liverpool	141.0	153.0	12.0	0	0	2913	153.0	12.0	2913	0	0
Liverpool	130.1	119.0	11.1	0	0	3137	153.0	22.9	3137	0	0
Lacey, Langellier, W.Matanzas, Kerton Valley	115.6	119.0	3.4	11092	0	0	153.0	37.4	0	11092	0
Kelly Lake	101.7	88.0	13.7	0	0	1155	153.0	51.3	0	1155	0
Big Lake	105.7	119.0	13.3	0	0	3890	153.0	47.3	0	3890	0
Hager Slough	92.0	88.0	4.0	6871	0	0	153.0	61.0	0	0	6871
Lost Creek	89.7	88.0	1.7	3201	0	0	153.0	63.3	0	0	3201
Sanitary Dist. of Beardstown	88.6	88.0	0.6	51	0	0	153.0	64.4	0	0	51
Coal Creek	88.5	88.0	0.5	6197	0	0	153.0	64.5	0	0	6197
Crane Creek	84.2	88.0	3.8	4266	0	0	153.0	68.8	0	0	4266
South Beardstown	84.2	88.0	3.8	8127	0	0	153.0	68.8	0	0	8127
Little Creek	76.7	71.4	5.3	0	1632	0	153.0	76.3	0	0	1632
McGee Creek	71.4	71.4	0.0	12540	0	0	153.0	81.6	0	0	12540
Meredosia & Willow Cr	69.4	71.4	2.0	15896	0	0	153.0	83.6	0	0	15896
Coon Run	68.9	71.4	2.5	2416	0	0	153.0	84.1	0	0	2416
Oakes	66.3	71.4	5.1	0	614	0	Alton-17	83.3	0	0	614
Valley City	65.1	71.4	6.3	0	4769	0	Alton-17	82.1	0	0	4769
Mauvaise Terre	64.8	71.4	6.6	0	5499	0	Alton-17	81.8	0	0	5499
Robertson	63.3	71.4	8.1	0	842	0	Alton-17	80.3	0	0	842
Scott County	59.3	55.0	4.3	11456	0	0	Alton-17	76.3	0	0	11456
Big Swan	53.6	55.0	1.4	13598	0	0	Alton-17	70.6	0	0	13598

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Hillview	46.6	55.0	8.4	0	13044	0	Alton-17	63.6	0	0	13044
Hartwell	40.7	55.0	14.3	0	0	9566	Alton-17	57.7	0	0	9566
Keach	35.3	20.6	14.7	0	0	9250	Alton-17	52.3	0	0	9250
Schaefer - Farrow	32.6	20.6	12.0	0	0	750	Alton-17	49.6	0	750	0
Bluffdale Farms	32.3	20.6	11.7	0	0	636	Alton-17	49.3	0	636	0
Eldred - Spankey DL	28.1	20.6	7.5	0	10285	0	Alton-17	45.1	0	10285	0
Nutwood	19.4	20.6	1.2	10568	0	0	Alton-17	36.4	0	10568	0
REACH 4. SUBTOTALS	--	--	--	56544	0	3137	--	--	3362	11092	45227

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REACH CODE:

Reach 1 = UMR HN to L&D 13 (Miss. R.M. 522.5)

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Reach 3b = Open River L&D 27 (Miss. R.M. 186) to Thebes, IL (Miss. R.M. 43.5)

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **				
				At 0-5 Miles					At 5-10 Miles				
				At >10 Miles	At 0-25 Miles	At 25-50 Miles			At >50 Miles				
Dubuque	580.6	579.3	1.3	111	0	0	580.6	0.0	111	0	0		
Sabula	535.0	537.8	2.8	451	0	0	517.3	17.7	451	0	0		
REACH 1 SUBTOTALS	--	--	--	562	0	0	--	--	562	0	0		
Fulton	519.8	520.0	0.2	5363	0	0	517.3	2.5	5363	0	0		
Clinton	517.3	518.1	0.7	204	0	0	517.3	0.0	204	0	0		
Meredosia	511.5	518.1	6.6	0	10306	0	517.3	5.8	10306	0	0		
East Moline	489.3	485.8	3.5	122	0	0	490.0	0.7	122	0	0		
Bettendorf	486.6	485.8	0.8	40	0	0	485.5	1.1	40	0	0		
Rock Island	481.2	482.1	0.9	145	0	0	481.2	0.0	145	0	0		
Milan	478.5	478.3	0.2	1351	0	0	481.2	2.7	1351	0	0		
Andalusia	473.4	478.3	4.9	105	0	0	481.2	7.8	105	0	0		
Muscatine/Mad Creek	456.0	455.9	0.1	0	0	0	455.0	1.0	0	0	0		
Drury	455.2	455.9	0.7	5008	0	0	455.0	0.2	5008	0	0		
Muscatine Island	448.4	455.9	7.5	0	25388	0	455.0	6.6	25388	0	0		
Bay Island	442.6	455.9	13.3	0	0	19841	455.0	12.4	19841	0	0		
Iowa R.-Flint Cr	417.5	404.2	23.7	0	0	44277	406.0	21.9	44277	0	0		
Keithsburg	427.6	404.2	23.4	0	0	8	406.0	21.6	8	0	0		
Henderson #1	407.3	404.2	3.1	8189	0	0	406.0	1.3	8189	0	0		
Henderson #2	402.4	404.2	1.8	8432	0	0	406.0	3.6	8432	0	0		
Green Bay	391.0	383.9	7.1	0	14687	0	383.4	7.6	14687	0	0		
REACH 2 SUBTOTALS	--	--	--	12338	25388	44285	--	--	82011	0	0		
Des Moines/Mississippi	358.9	363.8	4.9	8289	0	0	364.0	5.1	8289	0	0		
Mississippi & Fox	357.0	363.8	6.8	0	8600	0	364.0	6.3	8600	0	0		
Hunt-Lima	351.6	363.8	12.2	0	0	16888	364.0	12.4	16888	0	0		
Gregory	351.2	363.8	12.6	0	0	8938	364.0	12.8	8938	0	0		
Canton	342.0	327.2	14.8	0	0	207	327.0	15.0	207	0	0		

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Indian Grave	338.7	327.2	11.5	0	0	19473	327.0	11.7	19473	0	0
Union Township	333.3	327.2	6.1	0	3860	0	327.0	6.3	3860	0	0
Fabius	327.7	327.2	0.5	14720	0	0	327.0	0.7	14720	0	0
Marion County	322.4	327.0	4.6	4096	0	0	327.0	4.6	4096	0	0
South Quincy	321.7	327.0	5.3	0	5189	0	327.0	5.3	5189	0	0
South River Industrial	319.0	327.0	8.0	0	0	0	327.0	8.0	0	0	0
South River	315.6	309.5	6.2	0	9842	0	309.5	6.1	9842	0	0
Hannibal	309.5	309.5	0.0	0	0	0	309.5	0.0	x	0	0
Sny Island Reach I	307.6	309.5	1.9	43939	0	0	309.5	1.9	43939	0	0
Sny Island Reach II	292.4	283.2	9.2	0	17088	0	309.5	17.1	17088	0	0
Riverland Private Levee	289.4	283.2	6.2	2756	0	0	309.5	20.1	2756	0	0
Sny Island Reach III	282.2	283.2	1.0	42728	0	0	309.5	27.3	0	42728	0
Petus-Burns-Prewitt-Jeager	271.6	283.2	11.6	0	0	491	309.5	37.9	0	491	0
Clarksville Levees	269.0	283.2	14.2	0	0	2149	309.5	40.5	0	2149	0
Sny Island Reach IV	268.7	283.2	14.5	0	0	11474	309.5	40.8	0	11474	0
Kissinger Levee District	266.4	283.2	16.8	0	0	2494	309.5	43.1	0	2494	0
Busch-Goose Pasture Farms	264.1	283.2	19.1	0	0	446	309.5	45.4	0	446	0
Cannon Wildlife Refuge Levee	262.2	283.2	21.0	0	0	3474	309.5	47.3	0	3474	0
Annada	262.2	283.2	21.0	0	0	3295	309.5	47.3	0	3295	0
Elsberry Drainage District	255.9	283.2	27.3	0	0	18364	309.5	53.6	0	0	18364
Kings Lake Drainage District	249.0	283.2	34.2	0	0	3191	309.5	60.5	0	0	3191
Sandy Creek Drainage District	245.7	283.2	37.5	0	0	1061	309.5	63.8	0	0	1061
Foley Drainage District	245.0	283.2	38.2	0	0	1070	309.5	64.5	0	0	1070
Cap Au Gris D&LD	241.1	202.4	38.7	0	0	4572	202.8	38.3	0	4572	0
Winfield D&LD	238.8	202.4	36.4	0	0	1605	202.8	36.0	0	1605	0
Brevator D&LD	238.0	202.4	35.6	0	0	2000	202.8	35.2	0	2000	0
Schramm Private Levee	237.2	202.4	34.8	0	0	272	202.8	34.4	0	272	0

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Old Monroe Private Levee	236.7	202.4	34.0	0	0	742	202.8	33.9	0	742	0
Heitman Private Levee	236.4	202.4	34.0	0	0	195	202.8	33.6	0	195	0
Marstan-Portuchek Private Levee	236.1	202.4	33.7	0	0	881	202.8	33.3	0	881	0
St. Peters Drainage, No. 1/Urban	230.0	202.4	27.6	0	0	896	202.8	27.2	0	896	0
Consolidated N. County LD	206.2	202.4	3.8	17825	0	0	202.8	3.4	17825		
Wood River	198.0	202.4	4.4	4887	0	0	202.8	4.8	4887	0	0
Columbia Bottoms Levee	194.1	190.8	3.3	4364	0	0	202.8	8.7	4364	0	0
Chouteau Island D&LD	191.1	190.8	0.3	1797	0	0	181.7	9.4	1797	0	0
Chouteau, Nameoki and Venice D&LD	189.8	190.5	0.7	4800	0	0	181.7	8.1	4800	0	0
Gabaret/Cabrolet Island D&LD	187.3	190.5	3.2	774	0	0	181.7	5.6	774	0	0
St. Louis Flood Protection Project	181.6	182.5	0.9	253	0	0	181.7	0.1	253	0	0
Metro East Sanitary Dist.	179.3	180.0	0.7	49613	0	0	181.7	2.4	49613	0	0
Prairie du Pont	170.7	168.6	2.1	10663	0	0	181.7	11.0	10663	0	0
Columbia	160.8	168.6	7.8	0	13518	0	181.7	20.9	13518	0	0
Harrisonville	142.8	168.6	25.8	0	0	26224	181.7	38.9	0	26224	0
Stringtown	139.5	168.6	29.1	0	0	2633	181.7	42.2	0	2633	0
Fort Chartres & Ivy Landing	134.0	109.9	24.1	0	0	14964	181.7	47.7	0	14964	0
Prairie Du Rocher & Modoc	124.4	109.9	14.5	0	0	15640	181.7	57.3	0	0	15640
Ste. Genevieve Urban Levee	123.7	109.9	13.8	0	0	x	181.7	58.0	0	0	x

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Ste. Genevieve Levee District No. 2	119.5	109.9	9.6	0	7841	0	181.7	62.2	0	0	7841
Kaskaskia Island	113.4	109.9	3.5	9240	0	0	52.2	61.2	0	0	9240
Bois Brule	103.2	109.9	6.7	0	25993	0	52.2	51.0	0	0	25993
Degognia & Fountain Bluff	91.7	109.9	18.2	0	0	38048	52.2	39.5	0	38048	0
Grand Tower	78.9	51.6	27.3	0	0	14039	52.2	26.7	0	14039	0
Miller Pond	70.7	51.6	19.1	0	0	15753	52.2	18.5	15753	0	0
Preston	70.7	51.6	19.1	0	0	3760	52.2	18.5	3760	0	0
Clear Creek	61.0	51.6	9.4	0	15598	0	52.2	8.8	15598	0	0
Cape Girardeau	52.1	51.6	0.5	18	0	0	52.2	0.1	18	0	0
E. Cape Girardeau & Clear Creek	51.4	51.6	0.2	2957	0	0	52.2	0.8	2957	0	0
N. Alexander Co	51.4	51.6	0.2	10061	0	0	52.2	0.8	10061	0	0
REACH 3 SUBTOTALS	--	--	---	105145	20787	172049	--	--	164823	108278	24880

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- Reach 3b = Open River L&D 27 (Miss. R.M. 186) to Thebes, IL (Miss. R.M. 43.5)

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
East Peoria Sanitary District	162.4	162.0	0.4	73	0	0	162.0	0.4	73	0	0
East Peoria	161.2	161.0	0.2	152	0	0	162.0	0.8	152	0	0
North Pekin											
Pekin-LaMarsh	152.4	153.0	0.6	2424	0	0	153.0	0.6	2424	0	0
Rocky Ford	152.4	153.0	0.6	1585	--	--	153.0	0.6	1585	--	--
Spring Lake	141.0	153.0	12.0	0	0	12789	153.0	12.0	12789	0	0
East Liverpool	141.0	153.0	12.0	0	0	2913	153.0	12.0	2913	0	0
Liverpool	130.1	119.0	11.1	0	0	3137	153.0	22.9	3137	0	0
Lacey, Langellier, W.Matanzas, Kerton Valley	115.6	119.0	3.4	11092	0	0	153.0	37.4	0	11092	0
Kelly Lake	101.7	88.0	13.7	0	0	1155	153.0	51.3	0	1155	0
Big Lake	105.7	119.0	13.3	0	0	3890	153.0	47.3	0	3890	0
Hager Slough	92.0	88.0	4.0	6871	0	0	153.0	61.0	0	0	6871
Lost Creek	89.7	88.0	1.7	3201	0	0	153.0	63.3	0	0	3201
Sanitary Dist. of Beardstown	88.6	88.0	0.6	51	0	0	153.0	64.4	0	0	51
Coal Creek	88.5	88.0	0.5	6197	0	0	153.0	64.5	0	0	6197
Crane Creek	84.2	88.0	3.8	4266	0	0	153.0	68.8	0	0	4266
South Beardstown	84.2	88.0	3.8	8127	0	0	153.0	68.8	0	0	8127
Little Creek	76.7	71.4	5.3	0	1632	0	153.0	76.3	0	0	1632
McGee Creek	71.4	71.4	0.0	12540	0	0	153.0	81.6	0	0	12540
Meredosia & Willow Cr	69.4	71.4	2.0	15896	0	0	153.0	83.6	0	0	15896
Coon Run	68.9	71.4	2.5	2416	0	0	153.0	84.1	0	0	2416
Oakes	66.3	71.4	5.1	0	614	0	Alton-17	83.3	0	0	614
Valley City	65.1	71.4	6.3	0	4769	0	Alton-17	82.1	0	0	4769
Mauvaise Terre	64.8	71.4	6.6	0	5499	0	Alton-17	81.8	0	0	5499
Robertson	63.3	71.4	8.1	0	842	0	Alton-17	80.3	0	0	842
Scott County	59.3	55.0	4.3	11456	0	0	Alton-17	76.3	0	0	11456
Big Swan	53.6	55.0	1.4	13598	0	0	Alton-17	70.6	0	0	13598

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Hillview	46.6	55.0	8.4	0	13044	0	Alton-17	63.6	0	0	13044
Hartwell	40.7	55.0	14.3	0	0	9566	Alton-17	57.7	0	0	9566
Keach	35.3	20.6	14.7	0	0	9250	Alton-17	52.3	0	0	9250
Schaefer - Farrow	32.6	20.6	12.0	0	0	750	Alton-17	49.6	0	750	0
Bluffdale Farms	32.3	20.6	11.7	0	0	636	Alton-17	49.3	0	636	0
Eldred - Spankey DL	28.1	20.6	7.5	0	10285	0	Alton-17	45.1	0	10285	0
Nutwood	19.4	20.6	1.2	10568	0	0	Alton - 17	36.4	0	10568	0
REACH 4. SUBTOTALS	--	--	--	59745	0	7205	--	6275	12247	48428	

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Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Dubuque	580.6	579.3	1.3	111	0	0	580.6	0.0	111	0	0
Sabula	535.0	537.8	2.8	451	0	0	517.3	17.7	451	0	0
REACH 1 SUBTOTALS	--	--	--	562	0	0	--	--	562	0	0
Fulton	519.8	520.0	0.2	5363	0	0	517.3	2.5	5363	0	0
Clinton	517.3	518.1	0.7	204	0	0	517.3	0.0	204	0	0
Meredosia	511.5	518.1	6.6	0	10306	0	517.3	5.8	10306	0	0
East Moline	489.3	485.8	3.5	122	0	0	490.0	0.7	122	0	0
Bettendorf	486.6	485.8	0.8	40	0	0	485.5	1.1	40	0	0
Rock Island	481.2	482.1	0.9	145	0	0	481.2	0.0	145	0	0
Milan	478.5	478.3	0.2	1351	0	0	481.2	2.7	1351	0	0
Andalusia	473.4	478.3	4.9	105	0	0	481.2	7.8	105	0	0
Muscatine/Mad Creek	456.0	455.9	0.1	0	0	0	455.0	1.0	0	0	0
Drury	455.2	455.9	0.7	5008	0	0	455.0	0.2	5008	0	0
Muscatine Island	448.4	455.9	7.5	0	25388	0	455.0	6.6	25388	0	0
Bay Island	442.6	455.9	13.3	0	0	19841	455.0	12.4	19841	0	0
Iowa R.-Flint Cr	417.5	404.2	23.7	0	0	44277	406.0	21.9	44277	0	0
Keithsburg	427.6	404.2	23.4	0	0	8	406.0	21.6	8	0	0
Henderson #1	407.3	404.2	3.1	8189	0	0	406.0	1.3	8189	0	0
Henderson #2	402.4	404.2	1.8	8432	0	0	406.0	3.6	8432	0	0
Green Bay	391.0	383.9	7.1	0	14687	0	383.4	7.6	14687	0	0
REACH 2 SUBTOTALS	--	--	--	12338	25388	44285	--	--	82011	0	0
Des Moines/Mississippi	358.9	363.8	4.9	8289	0	0	364.0	5.1	8289	0	0
Mississippi & Fox	357.0	363.8	6.8	0	8600	0	364.0	6.3	8600	0	0
Hunt-Lima	351.6	363.8	12.2	0	0	16888	364.0	12.4	16888	0	0
Gregory	351.2	363.8	12.6	0	0	8938	364.0	12.8	8938	0	0
Canton	342.0	327.2	14.8	0	0	207	327.0	15.0	207	0	0

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **				
				At 0-5 Miles					At 25-50 Miles				
				At 5-10 Miles	At >10 Miles	At >50 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles		
Indian Grave	338.7	327.2	11.5	0	0	19473	327.0	11.7	19473	0	0		
Union Township	333.3	327.2	6.1	0	3860	0	327.0	6.3	3860	0	0		
Fabius	327.7	327.2	0.5	14720	0	0	327.0	0.7	14720	0	0		
Marion County	322.4	327.0	4.6	4096	0	0	327.0	4.6	4096	0	0		
South Quincy	321.7	327.0	5.3	0	5189	0	327.0	5.3	5189	0	0		
South River Industrial	319.0	327.0	8.0	0	0	0	327.0	8.0	0	0	0		
South River	315.6	309.5	6.2	0	9842	0	309.5	6.1	9842	0	0		
Hannibal	309.5	309.5	0.0	0	0	0	309.5	0.0	x	0	0		
Sny Island Reach I	307.6	309.5	1.9	43939	0	0	309.5	1.9	43939	0	0		
Sny Island Reach II	292.4	283.2	9.2	0	17088	0	309.5	17.1	17088	0	0		
Riverland Private Levee	289.4	283.2	6.2	2756	0	0	309.5	20.1	2756	0	0		
Sny Island Reach III	282.2	283.2	1.0	42728	0	0	309.5	27.3	0	42728	0		
Petus-Burns-Prewitt-Jeager	271.6	283.2	11.6	0	0	491	309.5	37.9	0	491	0		
Clarksville Levees	269.0	283.2	14.2	0	0	2149	309.5	40.5	0	2149	0		
Sny Island Reach IV	268.7	283.2	14.5	0	0	11474	309.5	40.8	0	11474	0		
Kissinger Levee District	266.4	283.2	16.8	0	0	2494	309.5	43.1	0	2494	0		
Busch-Goose Pasture Farms	264.1	283.2	19.1	0	0	446	309.5	45.4	0	446	0		
Cannon Wildlife Refuge Levee	262.2	283.2	21.0	0	0	3474	309.5	47.3	0	3474	0		
Annada	262.2	283.2	21.0	0	0	3295	309.5	47.3	0	3295	0		
Elsberry Drainage District	255.9	283.2	27.3	0	0	18364	309.5	53.6	0	0	18364		
Kings Lake Drainage District	249.0	283.2	34.2	0	0	3191	309.5	60.5	0	0	3191		
Sandy Creek Drainage District	245.7	283.2	37.5	0	0	1061	309.5	63.8	0	0	1061		
Foley Drainage District	245.0	283.2	38.2	0	0	1070	309.5	64.5	0	0	1070		
Cap Au Gris D&LD	241.1	202.4	38.7	0	0	4572	202.8	38.3	0	4572	0		
Winfield D&LD	238.8	202.4	36.4	0	0	1605	202.8	36.0	0	1605	0		
Brevator D&LD	238.0	202.4	35.6	0	0	2000	202.8	35.2	0	2000	0		
Schramm Private Levee	237.2	202.4	34.8	0	0	272	202.8	34.4	0	272	0		

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Old Monroe Private Levee	236.7	202.4	34.0	0	0	742	202.8	33.9	0	742	0
Heitman Private Levee	236.4	202.4	34.0	0	0	195	202.8	33.6	0	195	0
Marslan-Portuchek Private Levee	236.1	202.4	33.7	0	0	881	202.8	33.3	0	881	0
St. Peters Drainage, No 1/Urban	230.0	202.4	27.6	0	0	896	202.8	27.2	0	896	0
Consolidated N. County LD	206.2	202.4	3.8	17825	0	0	202.8	3.4	17825		
Wood River	198.0	202.4	4.4	4887	0	0	202.8	4.8	4887	0	0
Columbia Bottoms Levee	194.1	190.8	3.3	4364	0	0	202.8	8.7	4364	0	0
Chouteau Island D&LD	191.1	190.8	0.3	1797	0	0	181.7	9.4	1797	0	0
Chouteau, Nameoki and Venice D&LD	189.8	190.5	0.7	4800	0	0	181.7	8.1	4800	0	0
Gabaret/Cabrolet Island D&LD	187.3	190.5	3.2	774	0	0	181.7	5.6	774	0	0
St. Louis Flood Protection Project	181.6	182.5	0.9	253	0	0	181.7	0.1	253	0	0
Metro East Sanitary Dist.	179.3	180.0	0.7	49613	0	0	181.7	2.4	49613	0	0
Prairie du Pont	170.7	168.6	2.1	10663	0	0	181.7	11.0	10663	0	0
Columbia	160.8	168.6	7.8	0	13518	0	181.7	20.9	13518	0	0
Harrisonville	142.8	168.6	25.8	0	0	26224	181.7	38.9	0	26224	0
Stringtown	139.5	168.6	29.1	0	0	2633	181.7	42.2	0	2633	0
Fort Chartres & Ivy Landing	134.0	109.9	24.1	0	0	14964	181.7	47.7	0	14964	0
Prairie Du Rocher & Modoc	124.4	109.9	14.5	0	0	15640	181.7	57.3	0	0	15640
Ste. Genevieve Urban Levee	123.7	109.9	13.8	0	0	x	181.7	58.0	0	0	x

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Ste. Genevieve Levee District No. 2	119.5	109.9	9.6	0	7841	0	181.7	62.2	0	0	7841
Kaskaskia Island	113.4	109.9	3.5	9240	0	0	52.2	61.2	0	0	9240
Bois Brule	103.2	109.9	6.7	0	25993	0	52.2	51.0	0	0	25993
Degognia & Fountain Bluff	91.7	109.9	18.2	0	0	38048	52.2	39.5	0	38048	0
Grand Tower	78.9	51.6	27.3	0	0	14039	52.2	26.7	0	14039	0
Miller Pond	70.7	51.6	19.1	0	0	15753	52.2	18.5	15753	0	0
Preston	70.7	51.6	19.1	0	0	3760	52.2	18.5	3760	0	0
Clear Creek	61.0	51.6	9.4	0	15598	0	52.2	8.8	15598	0	0
Cape Girardeau	52.1	51.6	0.5	18	0	0	52.2	0.1	18	0	0
E. Cape Girardeau & Clear Creek	51.4	51.6	0.2	2957	0	0	52.2	0.8	2957	0	0
N. Alexander Co.	51.4	51.6	0.2	10061	0	0	52.2	0.8	10061	0	0
REACH 3 SUBTOTALS	--	--	---	105145	20787	172049	--	--	164823	108278	24880

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Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
East Peoria Sanitary District	162.4	162.0	0.4	73	0	0	162.0	0.4	73	0	0
East Peoria	161.2	161.0	0.2	152	0	0	162.0	0.8	152	0	0
North Pekin											
Pekin-LaMarsh	152.4	153.0	0.6	2424	0	0	153.0	0.6	2424	0	0
Rocky Ford	152.4	153.0	0.6	1585	--	--	153.0	0.6	1585	--	--
Spring Lake	141.0	153.0	12.0	0	0	12789	153.0	12.0	12789	0	0
East Liverpool	141.0	153.0	12.0	0	0	2913	153.0	12.0	2913	0	0
Liverpool	130.1	119.0	11.1	0	0	3137	153.0	22.9	3137	0	0
Lacey, Langellier, W.Matanzas, Kerton Valley	115.6	119.0	3.4	11092	0	0	153.0	37.4	0	11092	0
Kelly Lake	101.7	88.0	13.7	0	0	1155	153.0	51.3	0	1155	0
Big Lake	105.7	119.0	13.3	0	0	3890	153.0	47.3	0	3890	0
Hager Slough	92.0	88.0	4.0	6871	0	0	153.0	61.0	0	0	6871
Lost Creek	89.7	88.0	1.7	3201	0	0	153.0	63.3	0	0	3201
Sanitary Dist. of Beardstown	88.6	88.0	0.6	51	0	0	153.0	64.4	0	0	51
Coal Creek	88.5	88.0	0.5	6197	0	0	153.0	64.5	0	0	6197
Crane Creek	84.2	88.0	3.8	4266	0	0	153.0	68.8	0	0	4266
South Beardstown	84.2	88.0	3.8	8127	0	0	153.0	68.8	0	0	8127
Little Creek	76.7	71.4	5.3	0	1632	0	153.0	76.3	0	0	1632
McGee Creek	71.4	71.4	0.0	12540	0	0	153.0	81.6	0	0	12540
Meredosia & Willow Cr	69.4	71.4	2.0	15896	0	0	153.0	83.6	0	0	15896
Coon Run	68.9	71.4	2.5	2416	0	0	153.0	84.1	0	0	2416
Oakes	66.3	71.4	5.1	0	614	0	Alton-17	83.3	0	0	614
Valley City	65.1	71.4	6.3	0	4769	0	Alton-17	82.1	0	0	4769
Mauvaise Terre	64.8	71.4	6.6	0	5499	0	Alton-17	81.8	0	0	5499
Robertson	63.3	71.4	8.1	0	842	0	Alton-17	80.3	0	0	842
Scott County	59.3	55.0	4.3	11456	0	0	Alton-17	76.3	0	0	11456

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Walnut Creek	56.3	55.0	1.3	500			Alton-17	73.3			500
Big Swan	53.6	55.0	1.4	13598	0	0	Alton-17	70.6	0	0	13598
Hillview	46.6	55.0	8.4	0	13044	0	Alton-17	63.6	0	0	13044
Hartwell	40.7	55.0	14.3	0	0	9566	Alton-17	57.7	0	0	9566
Keach	35.3	20.6	14.7	0	0	9250	Alton-17	52.3	0	0	9250
Schaefer – Farrow	32.6	20.6	12.0	0	0	750	Alton-17	49.6	0	750	0
Bluffdale Farms	32.3	20.6	11.7	0	0	636	Alton-17	49.3	0	636	0
Eldred – Spankey DL	28.1	20.6	7.5	0	10285	0	Alton-17	45.1	0	10285	0
Nutwood	19.4	20.6	1.2	10568	0	0	Alton - 17	36.4	0	10568	0
REACH 4. SUBTOTALS	--	--	--	56544	0	6050	--	--	6275	11092	45227

NOTE: Gray shaded areas indicate existing levels of protection in excess of 100-years.

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** Existing lands at or above 100-year level of protection was determined from Plan S-3(U3) hydraulics data.

+ Totals are for the gray shaded areas only.

REACH CODE:

Reach 1 = UMR HN to L&D 13 (Miss. R.M. 522.5)

Reach 2 = UMR L&D 13 (Miss. R.M. 522.5) to 19 (Miss. R.M. 363)

Reach 3a = UMR L&D 19 (Miss. R.M. 363) to Lock 27 (Miss. R.M. 186)

Reach 3b = Open River L&D 27 (Miss. R.M. 186) to Thebes, IL (Miss. R.M. 43.5)

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Dubuque	580.6	579.3	1.3	111	0	0	580.6	0.0	111	0	0
Sabula	535.0	537.8	2.8	451	0	0	517.3	17.7	451	0	0
REACH 1 SUBTOTALS	--	--	--	562	0	0	--	--	562	0	0
Fulton	519.8	520.0	0.2	5363	0	0	517.3	2.5	5363	0	0
Clinton	517.3	518.1	0.7	204	0	0	517.3	0.0	204	0	0
Meredosia	511.5	518.1	6.6	0	-187	0	517.3	5.8	-187	0	0
East Moline	489.3	485.8	3.5	122	0	0	490.0	0.7	122	0	0
Bettendorf	486.6	485.8	0.8	40	0	0	485.5	1.1	40	0	0
Rock Island	481.2	482.1	0.9	145	0	0	481.2	0.0	145	0	0
Milan	478.5	478.3	0.2	1351	0	0	481.2	2.7	1351	0	0
Andalusia	473.4	478.3	4.9	0	0	0	481.2	7.8	0	0	0
Muscatine/Mad Creek	456.0	455.9	0.1	0	0	0	455.0	1.0	0	0	0
Drury	455.2	455.9	0.7	5008	0	0	455.0	0.2	5008	0	0
Muscaline Island	448.4	455.9	7.5	0	25388	0	455.0	6.6	25388	0	0
Bay Island	442.6	455.9	13.3	0	0	-133	455.0	12.4	-133	0	0
Iowa R.-Flint Cr	417.5	404.2	23.7	0	0	44277	406.0	21.9	44277	0	0
Keithsburg	427.6	404.2	23.4	0	0	-111	406.0	21.6	-111	0	0
Henderson #1	407.3	404.2	3.1	-299	0	0	406.0	1.3	-299	0	0
Henderson #2	402.4	404.2	1.8	-249	0	0	406.0	3.6	-249	0	0
Green Bay	391.0	383.9	7.1	0	-473	0	383.4	7.6	-473	0	0
REACH 2 SUBTOTALS	--	--	--	11685	24728	44033	--	--	80446	0	0
Des Moines/Mississippi	358.9	363.8	4.9	8289	0	0	364.0	5.1	8289	0	0
Mississippi & Fox	357.0	363.8	6.8	0	-57	0	364.0	6.3	-57	0	0
Hunt-Lima	351.6	363.8	12.2	0	0	-124	364.0	12.4	-124	0	0
Gregory	351.2	363.8	12.6	0	0	8938	364.0	12.8	8938	0	0
Canton	342.0	327.2	14.8	0	0	207	327.0	15.0	207	0	0

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Indian Grave	338.7	327.2	11.5	0	0	19473	327.0	11.7	19473	0	0
Union Township	333.3	327.2	6.1	0	-147	0	327.0	6.3	-147	0	0
Fabius	327.7	327.2	0.5	-345	0	0	327.0	0.7	-345	0	0
Marion County	322.4	327.0	4.6	-6	0	0	327.0	4.6	-6	0	0
South Quincy	321.7	327.0	5.3	0	5189	0	327.0	5.3	5189	0	0
South River Industrial	319.0	327.0	8.0	0	0	0	327.0	8.0	0	0	0
South River	315.6	309.5	6.2	0	-313	0	309.5	6.1	-313	0	0
Hannibal	309.5	309.5	0.0	0	0	0	309.5	0.0	0	0	0
Sny Island Reach I	307.6	309.5	1.9	-632	0	0	309.5	1.9	-632	0	0
Sny Island Reach II	292.4	283.2	9.2	0	-189	0	309.5	17.1	-189	0	0
Riverland Private Levee	289.4	283.2	6.2	-2	0	0	309.5	20.1	-2	0	0
Sny Island Reach III	282.2	283.2	1.0	-370	0	0	309.5	27.3	0	-370	0
Petus-Burns-Prewitt-Jeager	271.6	283.2	11.6	0	0	-10	309.5	37.9	0	-10	0
Clarksville Levees	269.0	283.2	14.2	0	0	-2	309.5	40.5	0	-2	0
Sny Island Reach IV	268.7	283.2	14.5	0	0	11474	309.5	40.8	0	11474	0
Kissinger Levee District	266.4	283.2	16.8	0	0	-4	309.5	43.1	0	-4	0
Busch-Goose Pasture Farms	264.1	283.2	19.1	0	0	-1	309.5	45.4	0	-1	0
Cannon Wildlife Refuge Levee	262.2	283.2	21.0	0	0	-3	309.5	47.3	0	-3	0
Annada	262.2	283.2	21.0	0	0	-25	309.5	47.3	0	-25	0
Elsberry Drainage District	255.9	283.2	27.3	0	0	-138	309.5	53.6	0	0	-138
Kings Lake Drainage District	249.0	283.2	34.2	0	0	-21	309.5	60.5	0	0	-21
Sandy Creek Drainage District	245.7	283.2	37.5	0	0	-21	309.5	63.8	0	0	-21
Foley Drainage District	245.0	283.2	38.2	0	0	-98	309.5	64.5	0	0	-98
Cap Au Gris D&LD	241.1	202.4	38.7	0	0	-241	202.8	38.3	0	-241	0
Winfield D&LD	238.8	202.4	36.4	0	0	-56	202.8	36.0	0	-56	0
Brevator D&LD	238.0	202.4	35.6	0	0	-92	202.8	35.2	0	-92	0
Schramm Private Levee	237.2	202.4	34.8	0	0	-1	202.8	34.4	0	-1	0

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Old Monroe Private Levee	236.7	202.4	34.0	0	0	-60	202.8	33.9	0	-60	0
Heitman Private Levee	236.4	202.4	34.0	0	0	-1	202.8	33.6	0	-1	0
Marstan-Portuchek Private Levee	236.1	202.4	33.7	0	0	-7	202.8	33.3	0	-7	0
St. Peters Drainage, No.1/Urban	230.0	202.4	27.6	0	0	-202	202.8	27.2	0	-202	0
Consolidated N. County LD	206.2	202.4	3.8	-881	0	0	202.8	3.4	-881		
Wood River	198.0	202.4	4.4	4887	0	0	202.8	4.8	4887	0	0
Columbia Bottoms Levee	194.1	190.8	3.3	4364	0	0	202.8	8.7	4364	0	0
Chouteau Island D&LD	191.1	190.8	0.3	-236	0	0	181.7	9.4	-236	0	0
Chouteau, Nameoki and Venice D&LD	189.8	190.5	0.7	4800	0	0	181.7	8.1	4800	0	0
Gabaret/Cabrolet Island D&LD	187.3	190.5	3.2	-3	0	0	181.7	5.6	-3	0	0
St. Louis Flood Protection Project	181.6	182.5	0.9	253	0	0	181.7	0.1	253	0	0
Metro East Sanitary Dist.	179.3	180.0	0.7	49613	0	0	181.7	2.4	49613	0	0
Prairie du Pont	170.7	168.6	2.1	10663	0	0	181.7	11.0	10663	0	0
Columbia	160.8	168.6	7.8	0	-212	0	181.7	20.9	-212	0	0
Harrisonville	142.8	168.6	25.8	0	0	26224	181.7	38.9	0	26224	0
Stringtown	139.5	168.6	29.1	0	0	2633	181.7	42.2	0	2633	0
Fort Chartres & Ivy Landing	134.0	109.9	24.1	0	0	14964	181.7	47.7	0	14964	0
Prairie Du Rocher & Modoc	124.4	109.9	14.5	0	0	15640	181.7	57.3	0	0	15640
Ste. Genevieve Urban Levee	123.7	109.9	13.8	0	0	x	181.7	58.0	0	0	x

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Ste. Genevieve Levee District No. 2	119.5	109.9	9.6	0	-11	0	181.7	62.2	0	0	-11
Kaskaskia Island	113.4	109.9	3.5	9240	0	0	52.2	61.2	0	0	9240
Bois Brule	103.2	109.9	6.7	0	-490	0	52.2	51.0	0	0	-490
Degognia & Fountain Bluff	91.7	109.9	18.2	0	0	38048	52.2	39.5	0	38048	0
Grand Tower	78.9	51.6	27.3	0	0	14039	52.2	26.7	0	14039	0
Miller Pond	70.7	51.6	19.1	0	0	15753	52.2	18.5	15753	0	0
Preston	70.7	51.6	19.1	0	0	3760	52.2	18.5	3760	0	0
Clear Creek	61.0	51.6	9.4	0	15598	0	52.2	8.8	15598	0	0
Cape Girardeau	52.1	51.6	0.5	18	0	0	52.2	0.1	18	0	0
E. Cape Girardeau & Clear Creek	51.4	51.6	0.2	2957	0	0	52.2	0.8	2957	0	0
N. Alexander Co.	51.4	51.6	0.2	10061	0	0	52.2	0.8	10061	0	0
REACH 3 SUBTOTALS	--	--	---	102670	19368	170046	--	--	161676	106307	24101

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Reach 2 = UMR L&D 13 (Miss. R.M. 522.5) to 19 (Miss. R.M. 363)

Reach 3a = UMR L&D 19 (Miss. R.M. 363) to Lock 27 (Miss. R.M. 186)

Reach 3b = Open River L&D 27 (Miss. R.M. 186) to Thebes, IL (Miss. R.M. 43.5)

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
East Peoria Sanitary District	162.4	162.0	0.4	73	0	0	162.0	0.4	73	0	0
East Peoria	161.2	161.0	0.2	-940	0	0	162.0	0.8	-940	0	0
North Pekin											
Pekin-LaMarsh	152.4	153.0	0.6	-262	0	0	153.0	0.6	-262	0	0
Rocky Ford	152.4	153.0	0.6	0	--	--	153.0	0.6	0	--	--
Spring Lake	141.0	153.0	12.0	0	0	-170	153.0	12.0	-170	0	0
East Liverpool	141.0	153.0	12.0	0	0	2913	153.0	12.0	2913	0	0
Liverpool	130.1	119.0	11.1	0	0	3137	153.0	22.9	3137	0	0
Lacey, Langellier, W.Matanzas, Kerton Valley	115.6	119.0	3.4	11092	0	0	153.0	37.4	0	11092	0
Kelly Lake	101.7	88.0	13.7	0	0	1155	153.0	51.3	0	1155	0
Big Lake	105.7	119.0	13.3	0	0	-26	153.0	47.3	0	-26	0
Hager Slough	92.0	88.0	4.0	-44	0	0	153.0	61.0	0	0	-44
Lost Creek	89.7	88.0	1.7	3201	0	0	153.0	63.3	0	0	3201
Sanitary Dist. Of Beardstown	88.6	88.0	0.6	51	0	0	153.0	64.4	0	0	51
Coal Creek	88.5	88.0	0.5	6197	0	0	153.0	64.5	0	0	6197
Crane Creek	84.2	88.0	3.8	-26	0	0	153.0	68.8	0	0	-26
South Beardstown	84.2	88.0	3.8	8127	0	0	153.0	68.8	0	0	8127
Little Creek	76.7	71.4	5.3	0	-7	0	153.0	76.3	0	0	-7
McGee Creek	71.4	71.4	0.0	12540	0	0	153.0	81.6	0	0	12540
Meredosia & Willow Cr	69.4	71.4	2.0	15896	0	0	153.0	83.6	0	0	15896
Coon Run	68.9	71.4	2.5	2416	0	0	153.0	84.1	0	0	2416
Oakes	66.3	71.4	5.1	0	-3	0	Alton-17	83.3	0	0	-3
Valley City	65.1	71.4	6.3	0	-21	0	Alton-17	82.1	0	0	-21
Mauvaise Terre	64.8	71.4	6.6	0	-168	0	Alton-17	81.8	0	0	-168
Robertson	63.3	71.4	8.1	0	-10	0	Alton-17	80.3	0	0	-10
Scott County	59.3	55.0	4.3	-143	0	0	Alton-17	76.3	0	0	-143
Big Swan	53.6	55.0	1.4	-177	0	0	Alton-17	70.6	0	0	-177

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Hillyview	46.6	55.0	8.4	0	-62	0	Alton-17	63.6	0	0	-62
Hartwell	40.7	55.0	14.3	0	0	-16	Alton-17	57.7	0	0	-16
Keach	35.3	20.6	14.7	0	0	-54	Alton-17	52.3	0	0	-54
Schaefer – Farrow	32.6	20.6	12.0	0	0	-52	Alton-17	49.6	0	-52	0
Bluffdale Farms	32.3	20.6	11.7	0	0	0	Alton-17	49.3	0	0	0
Eldred – Spankey DL	28.1	20.6	7.5	0	-51	0	Alton-17	45.1	0	-51	0
Nutwood	19.4	20.6	1.2	-111	0	0	Alton - 17	36.4	0	-111	0
REACH 4. SUBTOTALS	--	--	--	57890	-322	6887	--	--	4751	12007	47697

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Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Dubuque	580.6	579.3	1.3	111	0	0	580.6	0.0	111	0	0
Sabula	535.0	537.8	2.8	451	0	0	517.3	17.7	451	0	0
REACH 1 SUBTOTALS	--	--	--	562	0	0	--	--	562	0	0
Fulton	519.8	520.0	0.2	5363	0	0	517.3	2.5	5363	0	0
Clinton	517.3	518.1	0.7	204	0	0	517.3	0.0	204	0	0
Meredosia	511.5	518.1	6.6	0	10306	0	517.3	5.8	10306	0	0
East Moline	489.3	485.8	3.5	122	0	0	490.0	0.7	122	0	0
Bettendorf	486.6	485.8	0.8	40	0	0	485.5	1.1	40	0	0
Rock Island	481.2	482.1	0.9	145	0	0	481.2	0.0	145	0	0
Milan	478.5	478.3	0.2	1351	0	0	481.2	2.7	1351	0	0
Andalusia	473.4	478.3	4.9	105	0	0	481.2	7.8	105	0	0
Muscatine/Mad Creek	456.0	455.9	0.1	0	0	0	455.0	1.0	0	0	0
Drury	455.2	455.9	0.7	5008	0	0	455.0	0.2	5008	0	0
Muscatine Island	448.4	455.9	7.5	0	25388	0	455.0	6.6	25388	0	0
Bay Island	442.6	455.9	13.3	0	0	19841	455.0	12.4	19841	0	0
Iowa R.-Flint Cr	417.5	404.2	23.7	0	0	44277	406.0	21.9	44277	0	0
Keithsburg	427.6	404.2	23.4	0	0	8	406.0	21.6	8	0	0
Henderson #1	407.3	404.2	3.1	8189	0	0	406.0	1.3	8189	0	0
Henderson #2	402.4	404.2	1.8	8432	0	0	406.0	3.6	8432	0	0
Green Bay	391.0	383.9	7.1	0	14687	0	383.4	7.6	14687	0	0
REACH 2 SUBTOTALS	--	--	--	7225	25388	0	--	--	32613	0	0
Des Moines/Mississippi	358.9	363.8	4.9	8289	0	0	364.0	5.1	8289	0	0
Mississippi & Fox	357.0	363.8	6.8	0	8600	0	364.0	6.3	8600	0	0
Hunt-Lima	351.6	363.8	12.2	0	0	16888	364.0	12.4	16888	0	0
Gregory	351.2	363.8	12.6	0	0	8938	364.0	12.8	8938	0	0
Canton	342.0	327.2	14.8	0	0	207	327.0	15.0	207	0	0

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Indian Grave	338.7	327.2	11.5	0	0	19473	327.0	11.7	19473	0	0
Union Township	333.3	327.2	6.1	0	3860	0	327.0	6.3	3860	0	0
Fabius	327.7	327.2	0.5	14720	0	0	327.0	0.7	14720	0	0
Marion County	322.4	327.0	4.6	4096	0	0	327.0	4.6	4096	0	0
South Quincy	321.7	327.0	5.3	0	5189	0	327.0	5.3	5189	0	0
South River Industrial	319.0	327.0	8.0	0	0	0	327.0	8.0	0	0	0
South River	315.6	309.5	6.2	0	9842	0	309.5	6.1	9842	0	0
Hannibal	309.5	309.5	0.0	0	0	0	309.5	0.0	x	0	0
Sny Island Reach I	307.6	309.5	1.9	43939	0	0	309.5	1.9	43939	0	0
Sny Island Reach II	292.4	283.2	9.2	0	17088	0	309.5	17.1	17088	0	0
Riverland Private Levee	289.4	283.2	6.2	2756	0	0	309.5	20.1	2756	0	0
Sny Island Reach III	282.2	283.2	1.0	42728	0	0	309.5	27.3	0	42728	0
Petus-Burns-Prewitt-Jeager	271.6	283.2	11.6	0	0	491	309.5	37.9	0	491	0
Clarksville Levees	269.0	283.2	14.2	0	0	2149	309.5	40.5	0	2149	0
Sny Island Reach IV	268.7	283.2	14.5	0	0	11474	309.5	40.8	0	11474	0
Kissinger Levee District	266.4	283.2	16.8	0	0	2494	309.5	43.1	0	2494	0
Busch-Goose Pasture Farms	264.1	283.2	19.1	0	0	446	309.5	45.4	0	446	0
Cannon Wildlife Refuge Levee	262.2	283.2	21.0	0	0	3474	309.5	47.3	0	3474	0
Annada	262.2	283.2	21.0	0	0	3295	309.5	47.3	0	3295	0
Elsberry Drainage District	255.9	283.2	27.3	0	0	18364	309.5	53.6	0	0	18364
Kings Lake Drainage District	249.0	283.2	34.2	0	0	3191	309.5	60.5	0	0	3191
Sandy Creek Drainage District	245.7	283.2	37.5	0	0	1061	309.5	63.8	0	0	1061
Foley Drainage District	245.0	283.2	38.2	0	0	1070	309.5	64.5	0	0	1070
Cap Au Gris D&LD	241.1	202.4	38.7	0	0	4572	202.8	38.3	0	4572	0
Winfield D&LD	238.8	202.4	36.4	0	0	1605	202.8	36.0	0	1605	0
Brevator D&LD	238.0	202.4	35.6	0	0	2000	202.8	35.2	0	2000	0
Schramm Private Levee	237.2	202.4	34.8	0	0	272	202.8	34.4	0	272	0

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Old Monroe Private Levee	236.7	202.4	34.0	0	0	742	202.8	33.9	0	742	0
Heitman Private Levee	236.4	202.4	34.0	0	0	195	202.8	33.6	0	195	0
Marstan-Portuchek Private Levee	236.1	202.4	33.7	0	0	881	202.8	33.3	0	881	0
St. Peters Drainage, No.1/Urban	230.0	202.4	27.6	0	0	896	202.8	27.2	0	896	0
Consolidated N. County LD	206.2	202.4	3.8	17825	0	0	202.8	3.4	17825		
Wood River	198.0	202.4	4.4	4887	0	0	202.8	4.8	4887	0	0
Columbia Bottoms Levee	194.1	190.8	3.3	4364	0	0	202.8	8.7	4364	0	0
Chouteau Island D&LD	191.1	190.8	0.3	1797	0	0	181.7	9.4	1797	0	0
Chouteau, Nameoki and Venice D&LD	189.8	190.5	0.7	4800	0	0	181.7	8.1	4800	0	0
Gabaret/Cabrolet Island D&LD	187.3	190.5	3.2	774	0	0	181.7	5.6	774	0	0
St. Louis Flood Protection Project	181.6	182.5	0.9	253	0	0	181.7	0.1	253	0	0
Metro East Sanitary Dist.	179.3	180.0	0.7	49613	0	0	181.7	2.4	49613	0	0
Prairie du Pont	170.7	168.6	2.1	10663	0	0	181.7	11.0	10663	0	0
Columbia	160.8	168.6	7.8	0	13518	0	181.7	20.9	13518	0	0
Harrisonville	142.8	168.6	25.8	0	0	26224	181.7	38.9	0	26224	0
Stringtown	139.5	168.6	29.1	0	0	2633	181.7	42.2	0	2633	0
Fort Chartres & Ivy Landing	134.0	109.9	24.1	0	0	14964	181.7	47.7	0	14964	0
Prairie Du Rocher & Modoc	124.4	109.9	14.5	0	0	15640	181.7	57.3	0	0	15640
Ste. Genevieve Urban Levee	123.7	109.9	13.8	0	0	x	181.7	58.0	0	0	x

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Ste. Genevieve Levee District No. 2	119.5	109.9	9.6	0	7841	0	181.7	62.2	0	0	7841
Kaskaskia Island	113.4	109.9	3.5	9240	0	0	52.2	61.2	0	0	9240
Bois Brule	103.2	109.9	6.7	0	25993	0	52.2	51.0	0	0	25993
Degognia & Fountain Bluff	91.7	109.9	18.2	0	0	38048	52.2	39.5	0	38048	0
Grand Tower	78.9	51.6	27.3	0	0	14039	52.2	26.7	0	14039	0
Miller Pond	70.7	51.6	19.1	0	0	15753	52.2	18.5	15753	0	0
Preston	70.7	51.6	19.1	0	0	3760	52.2	18.5	3760	0	0
Clear Creek	61.0	51.6	9.4	0	15598	0	52.2	8.8	15598	0	0
Cape Girardeau	52.1	51.6	0.5	18	0	0	52.2	0.1	18	0	0
E. Cape Girardeau & Clear Creek	51.4	51.6	0.2	2957	0	0	52.2	0.8	2957	0	0
N. Alexander Co.	51.4	51.6	0.2	10061	0	0	52.2	0.8	10061	0	0
REACH 3 SUBTOTALS	--	--	---	70234	5189	207	--	--	75630	0	0

NOTE: Gray shaded areas indicate existing levels of protection in excess of 100-years.

• A major urban center is here defined as a population area with over 10,000 people.

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+ Totals are for the gray shaded areas only.

REACH CODE:

Reach 1 = UMR HN to L&D 13 (Miss. R.M. 522.5)

Reach 2 = UMR L&D 13 (Miss. R.M. 522.5) to 19 (Miss. R.M. 363)

Reach 3a = UMR L&D 19 (Miss. R.M. 363) to Lock 27 (Miss. R.M. 186)

Reach 3b = Open River L&D 27 (Miss. R.M. 186) to Thebes, IL (Miss. R.M. 43.5)

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
East Peoria Sanitary District	162.4	162.0	0.4	73	0	0	162.0	0.4	73	0	0
East Peoria	161.2	161.0	0.2	152	0	0	162.0	0.8	152	0	0
North Pekin											
Pekin-LaMarsh	152.4	153.0	0.6	2424	0	0	153.0	0.6	2424	0	0
Rocky Ford	152.4	153.0	0.6	1585	--	--	153.0	0.6	1585	--	--
Spring Lake	141.0	153.0	12.0	0	0	12789	153.0	12.0	12789	0	0
East Liverpool	141.0	153.0	12.0	0	0	2913	153.0	12.0	2913	0	0
Liverpool	130.1	119.0	11.1	0	0	3137	153.0	22.9	3137	0	0
Lacey, Langellier, W. Matanzas, Kerton Valley	115.6	119.0	3.4	11092	0	0	153.0	37.4	0	11092	0
Kelly Lake	101.7	88.0	13.7	0	0	1155	153.0	51.3	0	1155	0
Big Lake	105.7	119.0	13.3	0	0	3890	153.0	47.3	0	3890	0
Hager Slough	92.0	88.0	4.0	6871	0	0	153.0	61.0	0	0	6871
Lost Creek	89.7	88.0	1.7	3201	0	0	153.0	63.3	0	0	3201
Sanitary Dist. of Beardstown	88.6	88.0	0.6	51	0	0	153.0	64.4	0	0	51
Coal Creek	88.5	88.0	0.5	6197	0	0	153.0	64.5	0	0	6197
Crane Creek	84.2	88.0	3.8	4266	0	0	153.0	68.8	0	0	4266
South Beardstown	84.2	88.0	3.8	8127	0	0	153.0	68.8	0	0	8127
Little Creek	76.7	71.4	5.3	0	1632	0	153.0	76.3	0	0	1632
McGee Creek	71.4	71.4	0.0	12540	0	0	153.0	81.6	0	0	12540
Meredosia & Willow Cr	69.4	71.4	2.0	15896	0	0	153.0	83.6	0	0	15896
Coon Run	68.9	71.4	2.5	2416	0	0	153.0	84.1	0	0	2416
Oakes	66.3	71.4	5.1	0	614	0	Alton-17	83.3	0	0	614
Valley City	65.1	71.4	6.3	0	4769	0	Alton-17	82.1	0	0	4769
Mauvaise Terre	64.8	71.4	6.6	0	5499	0	Alton-17	81.8	0	0	5499
Robertson	63.3	71.4	8.1	0	842	0	Alton-17	80.3	0	0	842

Leveed Area	Mid Point River Mile	Nearest River Bridge (R.M.)	Distance from Mid Point R.M. to Nearest Highway Bridge (Miles)	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **			Nearest Major Urban Area (R.M.)	Distance from Mid Point to Major Urban Area (Miles) *	Lands at or above 100-Year Level of Protection In Proximity to a Bridge (Undeveloped Acres) **		
				At 0-5 Miles	At 5-10 Miles	At >10 Miles			At 0-25 Miles	At 25-50 Miles	At >50 Miles
Scott County	59.3	55.0	4.3	11456	0	0	Alton-17	76.3	0	0	11456
Big Swan	53.6	55.0	1.4	13598	0	0	Alton-17	70.6	0	0	13598
Hillview	46.6	55.0	8.4	0	13044	0	Alton-17	63.6	0	0	13044
Hartwell	40.7	55.0	14.3	0	0	9566	Alton-17	57.7	0	0	9566
Keach	35.3	20.6	14.7	0	0	9250	Alton-17	52.3	0	0	9250
Schaefer – Farrow	32.6	20.6	12.0	0	0	750	Alton-17	49.6	0	750	0
Bluffdale Farms	32.3	20.6	11.7	0	0	636	Alton-17	49.3	0	636	0
Eldred – Spankey DL	28.1	20.6	7.5	0	10285	0	Alton-17	45.1	0	10285	0
Nutwood	19.4	20.6	1.2	10568	0	0	Alton - 17	36.4	0	10568	0
REACH 4. SUBTOTALS	--	--	--	73	0	3137	--	--	3210	0	0

NOTE: Gray shaded areas indicate existing levels of protection in excess of 100-years.

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REACH CODE:

Reach 1 = UMR HN to L&D 13 (Miss. R.M. 522.5)

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Reach 3b = Open River L&D 27 (Miss. R.M. 186) to Thebes, IL (Miss. R.M. 43.5)

ATTACHMENT 27. PLAN B OPTION 2 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER
(Yellow = Areas with < 100-year level of protection with project in place, and requiring flowage easements, i.e. hydraulic mitigation)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres			Percent Total Site			Induced Rise			Overtopping Flood Event						Flood Damage Reduction Feature	Less Than 100-Yr Protection Level (Y/N)	Flowage Easements Required Y/N	Reason for Acquisition	OPTION 2: ER OPPORTUNITY (Y/N)					
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	Without	50-Yr	With	Without	100-Yr	With	Without	200-Yr	50-Yr	With					
Dubuque	580.60	1084	973	0	111	90	0	10	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	N	Existing Levee is Adequate	N	N	N	
Sabula	535.00	561	110	11	440	20	2	78	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	N	N
REACH 1 SUBTOTALS	--	0	0	0	0								--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Fulton	519.80	6803	1440	3800	1563	21	56	23	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	N	N	Existing Levee is Adequate	N	N	N
Clinton	517.30	1891	1687	74	130	89	0	11	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	N	N	Existing Levee is Adequate	N	N	N
Meredosia	511.50	10493	187	8899	1407	2	85	13	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	N	N
East Moline	489.30	960	838	16	106	87	2	11	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	N	N	Existing Levee is Adequate	N	N	N
Bettendorf	486.60	427	387	0	40	91	0	9	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	N	N	Existing Levee is Adequate	N	N	N
Rock Island	481.20	823	678	0	145	82	0	18	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	N	N
Milan	478.50	2202	851	454	897	39	21	40	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	N	N
Andalusia	473.40	105	0	5	100	0	5	95	0.0	0.0	0.0	0.0	N	N	N	N	Y	N	Y	N	N	N	N	Raise levee to 500-yr	N	N	N
Muscatine/Mad Creek	456.00	1	1	0	0	100	0	0	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	N	N
Drury	455.20	5077	69	4463	545	1	88	11	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	N	N
Muscatine Island	448.40	30099	4711	19360	6028	16	64	20	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	N	N	Existing Levee is Adequate	N	N	N
Bay Island	442.60	19,974	133	17076	2765	1	85	14	0.0	0.0	0.0	0.0	N	N	N	N	N	Y	N	N	N	N	N	Raise levee to 500-yr	N	N	N
Iowa R.-Flint Cr Upper	427.90	45528	1251	39883	4394	3	88	9	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	N	N
Keithsburg	427.60	119	111	0	8	93	0	7	0.0	0.0	0.0	0.0	N	N	N	N	Y	N	N	N	N	N	N	Raise levee to 500-yr	N	N	N
Henderson #1	407.30	8488	299	6071	2118	4	72	24	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	N	N
Henderson #2	402.40	8681	249	7188	1244	3	83	14	0.0	0.0	0.0	0.0	N	N	N	N	N	Y	N	N	N	N	N	Raise levee to 500-yr	N	N	N
Green Bay	391.00	15160	473	13368	1319	0	12	88	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	N	N
REACH 2 SUBTOTALS	--	0	0	0	0								--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Des Moines/Mississippi	358.95	8525	236	7544	745	3	88	9	0.0	0.2	0.3	0.7	N	N	N	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	N	N
Mississippi & Fox	357.75	8657	57	7800	800	1	90	9	0.0	0.2	0.3	0.7	N	N	N	N	N	Y	N	N	N	N	N	Raise levee to 500-yr	N	N	N
Hunt-Lima	351.65	17012	124	16010	878	1	94	5	0.0	0.2	0.4	0.7	N	N	N	N	N	Y	N	N	N	N	N	Raise levee to 500-yr	N	N	N
Gregory	351.25	8975	37	7183	1755	0	80	20	0.0	0.2	0.3	0.7	N	N	N	N	N	Y	N	N	N	N	N	Raise levee to 500-yr	N	N	N
Canton	342.00	592	385	100	107	65	17	18	0.1	0.2	0.4	0.8	N	N	N	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	N	N
Indian Grave	338.75	19615	142	18093	1380	1	92	7	0.1	0.2	0.4	0.9	N	N	N	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	N	N
Union Township	333.30	4007	147	2784	1076	4	69	27	0.1	0.2	0.5	1.0	N	N	N	N	N	Y	N	N	N	N	N	Raise levee to 500-yr	N	N	N
Fabius	327.75	15065	345	13302	1418	2	88	10	0.1	0.3	0.6	1.1	N	N	N	N	N	Y	N	N	N	N	N	Raise levee to 500-yr	N	N	N
Marion County	322.40	4102	6	3800	296	0	93	7	0.1	0.3	0.7	1.4	N	N	N	Y	N	Y	N	N	N	N	N	Raise levee to 500-yr	N	N	N
South Quincy	321.70	5767	578	3759	1430	10	65	25	0.1	0.3	0.7	1.5	N	N	N	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	N	N
South River Industrial	319.00	1626	1626	0	0	100	--	--	0.1	0.4	0.9	1.8	N	N	N	N	N	N	N	N	N	N	N	Existing Levee is Adequate	N	N	N
South River	315.65	10155	313	8652	1190	3	85	12	0.2	0.5	1.1	2.2	N	N	N	N	N	Y									

ATTACHMENT 27. PLAN B OPTION 2 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER (CONTINUED)
(Yellow = Areas with < 100-year level of protection with project in place, and requiring flowage easements, i.e. hydraulic mitigation)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres		Percent Total Site		Induced Rise			Overtopping Flood Event						Flood Damage Reduction Feature	Less Than 100-Yr Protection Level (Y/N)	Flowage Easements Required Y / N	Reason for Acquisition	OPTION 2: ER OPPORTUNITY (Y/N)						
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	Without	With	Without	With	Without	With	Without	With						
Clarksville Levees	269.04	2151	2	1675	474	0	78	22	0.4	0.7	1.3	2.3	N	N	N	N	N	Y	Y	Y	Remains at existing conditions	Y	Y	2, 3	Y	
Sny Island Reach IV	268.75	11518	44	9586	1888	0	83	17	0.4	0.8	1.3	2.3	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	N		N	
Kissinger Levee District	266.41	2498	4	2148	346	0	86	14	0.5	0.8	1.3	2.4	N	N	N	Y	N	Y	Y	Y	Remains at existing conditions	Y	Y	2, 3	Y	
Busch-Goose Pasture Farms	264.10	447	1	341	105	0	76	24	0.6	0.9	1.4	2.5	N	N	Y	N	Y	N	Y	N	Raise levee to 500-yr	N	N		N	
Cannon Wildlife Refuge	262.24	3477	3	1141	2333	0	33	67	0.6	1.0	1.5	2.5	Y	Y	Y	Y	Y	Y	Y	Y	Conservation Levee - No Raise	Y	Y	3	Y	
Annada	262.22	3320	25	1554	1741	1	47	52	0.7	1.0	1.6	2.5	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	Y	Y	3	Y	
Elsberry Drainage District	255.94	18502	138	16254	2110	1	88	11	0.7	1.0	1.5	2.4	N	N	N	N	N	N	Y	N	Raise levee to 500-yr	N	N		N	
Kings Lake Drainage District	249.04	3212	21	1108	2083	1	34	65	0.6	0.9	1.2	1.9	N	N	Y	N	Y	Y	Y	Y	Remains at existing conditions	Y	Y	3	Y	
Sandy Creek D. District	245.70	1082	21	806	255	2	74	24	0.5	0.8	1.1	1.8	Y	N	Y	N	Y	N	Y	N	Raise levee to 500-yr	N	N		N	
Foley Drainage District	245.03	1168	98	947	123	8	81	11	0.5	0.8	1.1	1.8	Y	N	Y	N	Y	N	Y	N	Raise levee to 500-yr	N	N		N	
Cap Au Gris D&LD	241.16	4812	241	3898	674	5	81	14	0.6	0.8	1.0	1.6	Y	N	Y	N	Y	N	Y	N	Raise levee to 500-yr	N	N		N	
Winfield D&LD	238.88	1661	56	1480	125	3	89	8	0.6	0.8	1.1	1.7	Y	N	Y	N	Y	N	Y	N	Raise levee to 500-yr	N	N		N	
Brevator D&LD	238.08	2092	92	1744	256	4	83	13	0.6	0.8	1.1	1.6	Y	N	Y	N	Y	N	Y	N	Raise levee to 500-yr	N	N		N	
Schramm Private Levee	237.25	273	1	210	62	0	77	23	0.6	0.8	1.1	1.7	Y	N	Y	N	Y	N	Y	N	Raise levee to 500-yr	N	N		N	
Old Monroe Private Levee	236.75	802	60	700	42	7	87	6	0.6	0.8	1.1	1.7	Y	N	Y	N	Y	N	Y	N	Raise levee to 500-yr	N	N		N	
Heitman Private Levee	236.39	196	1	182	13	1	93	6	0.6	0.9	1.1	1.7	Y	N	Y	N	Y	N	Y	N	Raise levee to 500-yr	N	N		N	
Marstan-Portuchek Private L.	236.09	888	7	817	64	44	45	11	0.6	0.9	1.1	1.7	Y	N	Y	N	Y	N	Y	N	Raise levee to 500-yr	N	N		N	
St. Peters Drainage Association No. 1/Urban	230.02	1098	202	662	234	18	60	22	0.6	0.8	1.0	1.4	N	N	N	N	N	N	Y	N	Raise levee to 500-yr	N	N		N	
Consolidated North County Levee District	206.25	18706	881	15280	2545	3	51	46	0.5	0.7	0.8	1.1									Remains at existing conditions	N	N		N	
Wood River	198.05	11325	6438	3019	1868	57	27	16	0.5	0.6	0.8	1.1	N	N	N	N	N	N	Y	N	Existing Levee is Adequate	N	N		N	
Columbia Bottoms Levee	194.15	4434	70	4030	334	2	10	88	0.5	0.7	0.8	1.1	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	Y	Y	1, 3	Y	
Chouteau Island D&LD	191.19	2033	236	914	883	12	45	43	0.5	0.6	0.8	1.1	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	Y	Y	2, 3	Y	
Chouteau, Nameoki and Venice D&LD	189.89	4800	--	4800	--	--	100	--	0.5	0.7	0.8	1.1	N	N	N	N	N	N	Y	N	Existing Levee is Adequate	N	N		N	
Gabaret/Cabrolet Island D&LD	187.32	776	3	673	100	0	87	13	0.5	0.6	0.8	1.1	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	Y	Y	2, 3	Y	
St. Louis Flood Protection Project	181.69	3003	2750	0	253	92	0	8	0.4	0.6	0.7	0.8	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	N		N	
Metro East Sanitary Dist.	179.35	86031	36418	27607	22006	42	32	26	0.4	0.5	0.6	0.7	N	N	N	N	N	N	N	Y	N	Existing Levee is Adequate	N	N		N
Praire du Pont	170.71	12766	2103	8755	1908	16	69	15	0.4	0.5	0.5	0.6	Y	N	Y	N	Y	N	Y	N	Existing Levee is Adequate	N	N		N	
Columbia	160.89	13730	212	12640	878	2	92	6	0.4	0.5	0.5	0.6	N	N	N	Y	N	Y	Y	Y	Remains at existing conditions	Y	Y	3	Y	
Harrisonville	142.89	26836	612	24068	2156	2	90	8	0.4	0.5	0.7	1.1	N	N	N	N	N	N	N	Y	Remains at existing conditions	N	N	1, 3	N	

ATTACHMENT 27. PLAN B OPTION 2 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER (CONTINUED)
(Yellow = Areas with < 100-year level of protection with project in place, and requiring flowage easements, i.e. hydraulic mitigation)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres			Percent Total Site			Induced Rise			Overtopping Flood Event						Flood Damage Reduction Feature	Less Than 100-Yr Protection Level (Y/N)	Flowage Easements Required Y / N	Reason for Acquisition	OPTION 2: ER OPPORTUNITIES (Y/N)		
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	Without	With	Without	With	Without	With						
Stringtown	139.50	2673	40	2570	63	1	96	3	0.4	0.6	0.8	1.1	N	N	N	N	N	N	Y	Remains at existing conditions	N	N		N
Fort Chartres & Ivy Landing	134.00	15232	268	13283	1681	2	87	2	0.4	0.6	0.8	1.3	N	N	N	N	N	N	Y	Remains at existing conditions	N	N		N
Prairie Du Rocher & Modoc	124.45	15891	251	14449	1191	2	91	7	0.4	0.6	0.8	1.1	N	N	N	N	N	N	Y	Remains at existing conditions	Y	Y	1, 3	Y
Ste. Genevieve Urban Levee	123.75				--	--	--	--	0.4	0.5	0.8	1.1	N	N	N	N	N	N	N	Raise levee to 500-yr	N	N		N
Ste. Genevieve Levee District No. 2	119.51	7852	11	7178	663	0	92	8	0.4	0.5	0.7	1.0	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	Y	Y	3	Y
Kaskaskia Island	113.40	9365	125	8755	485	1	93	6	0.4	0.5	0.6	0.7	N	N	N	N	N	N	Y	Remains at existing conditions	Y	Y	1, 3	Y
Bois Brule	103.22	26483	490	24710	1283	2	93	5	0.3	0.4	0.4	0.4	N	N	N	N	Y	Y	Y	Remains at existing conditions	N	N		N
Degognia & Fountain Bluff	91.75	39121	1073	32764	5284	3	84	13	0.3	0.4	0.4	0.4	N	N	N	N	N	N	Y	Remains at existing conditions	Y	Y	1, 3	Y
Grand Tower	78.90	14438	399	7196	6843	3	50	47	0.3	0.3	0.3	0.2	N	N	N	N	N	N	Y	Remains at existing conditions	Y	Y	3	Y
Preston	70.75	16104	351	11454	4299	2	71	27	0.3	0.3	0.3	0.2	N	N	N	N	N	N	Y	Remains at existing conditions	Y	Y	3	Y
Miller Pond	70.73	3790	30	3465	295	1	91	8	0.3	0.3	0.3	0.2	N	N	N	N	N	N	Y	Remains at existing conditions	Y	Y	3	Y
Clear Creek	61.02	15882	284	10387	5211	2	65	33	0.2	0.2	0.2	0.1	N	N	N	N	N	N	Y	Remains at existing conditions	Y	Y	3	Y
Cape Girardeau	52.15	22	4	0	18	3	0	97	0.2	0.2	0.2	0.1	N	N	N	N	N	N	N	Existing Levee is Adequate	N	N		N
N. Alexander Co.	51.47	3019	62	1370	1587	2	45	53	0.2	0.2	0.2	0.1	N	N	N	N	N	N	Y	Remains at existing conditions	Y	Y	3	Y
E. Cape Girardeau & Clear Creek	51.45	10410	349	7364	2697	3	71	26	0.2	0.2	0.2	0.1	N	N	N	N	N	N	Y	Remains at existing conditions	Y	Y	3	Y
REACH 3 SUBTOTALS	--	174,261	3,513	131,766	38,982								--	--	--	--	--	--	--	--	--	--	--	--

ATTACHMENT 28. PLAN B OPTION 2 ER LOCATION OPPORTUNITIES FOR ILLINOIS RIVER
(Yellow = Areas with < 100-year level of protection with project in place, and requiring flowage easements, i.e. hydraulic mitigation)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres			Percent Total Site			Induced Rise			Overtopping Flood Event						Flood Damage Reduction Feature	Less Than 100-Yr Protection Level (Y/N)	Flowage Easements Required Y / N	Reason for Acquisition	OPTION 2: ER OPPORTUNITY (Y/N)		
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	Without	With	Without	With	Without	With						
Ottawa	239.9								0.0	0.0	0.0	0.0	N	N	N	N	N	N	Raise levee to 500-yr	a	N	N	N	
East Peoria Sanitary District	162.4	296	223	0	73	76	0	24	0.0	0.1	0.1	0.2	N	N	N	N	N	N	Raise levee to 500-yr	b	N	N	N	
East Peoria	161.2	1092	940	0	152	86	0	14	0.1	0.1	0.2	0.3	N	N	N	N	N	N	Raise levee to 500-yr	c	N	N	N	
North Pekin	161.2				?	?	?	?	0.1	0.1	0.2	0.4	N	N	N	N	N	N	Raise levee to 500-yr	d	N	N	N	
Pekin-LaMarsh	152.4	2686	262	2046	378	10	76	14	0.1	0.2	0.3	0.5	N	N	Y	N	Y	N	Raise levee to 500-yr	e	N	N	N	
Rocky Ford	152.4	1585	--	1585	--	--	100	--	0.1	0.2	0.3	0.6	N	N	Y	Y	Y	Y	Conservation levee—no raise	f	Y	Y	3	Y
Spring Lake	141.0	12959	170	10645	2144	1	82	17	0.2	0.3	0.5	0.8	N	N	Y	N	Y	Y	Raise levee to 500-yr	g	N	N	N	N
Liverpool	141.0	3236	99	2645	492	3	82	15	0.2	0.4	0.6	0.9	N	N	N	N	N	N	Raise levee to 500-yr	h	N	N	N	N
East Liverpool	130.1	2920	7	2770	143	0	95	5	0.2	0.4	0.6	0.9	N	N	N	N	N	N	Raise levee to 500-yr	i	N	N	N	N
Lacey, Langellier, W.Matanzas, Kerton Valley	115.6	11235	143	10248	844	1	91	8	0.3	0.5	0.6	0.9	N	N	N	N	N	N	Raise levee to 500-yr	j	N	N	N	N
Seahorn	115.6	1629	32	1463	134	2	90	8	0.3	0.5	0.7	0.9	Y	N	Y	N	Y	Y	Raise levee to 500-yr	k	N	N	N	N
Big Lake	105.7	3916	26	3751	139	1	96	3	0.3	0.5	0.7	0.9	N	N	Y	N	Y	Y	Raise levee to 500-yr	l	N	N	N	N
Kelly Lake	101.7	1161	6	927	228	1	80	19	0.3	0.5	0.7	0.9	N	N	N	N	N	N	Raise levee to 500-yr	m	N	N	N	N
Hager Slough	92.0	6915	44	5693	1178	1	82	17	0.4	0.6	0.8	1.1	N	N	Y	N	Y	N	Raise levee to 500-yr	n	N	N	N	N
Lost Creek	89.7	3468	267	2754	447	8	79	13	0.4	0.6	0.8	1.1	N	N	N	N	N	N	Raise levee to 500-yr	o	N	N	N	N
Sanitary Dist. of Beardstown	88.6	858	807	13	38	94	2	4	0.4	0.6	0.8	1.1	N	N	N	N	N	N	Raise levee to 500-yr	p	N	N	N	N
Coal Creek	88.5	6272	75	5757	440	1	92	7	0.4	0.6	0.8	1.1	N	N	N	N	N	N	Raise levee to 500-yr	q	N	N	N	N
Crane Creek	84.2	4292	26	3985	281	1	93	6	0.4	0.7	0.9	1.3	N	N	N	Y	N	Y	Raise levee to 500-yr	r	N	N	N	N
South Beardstown	84.2	8467	340	7125	1002	4	4	11	0.4	0.7	0.9	1.3	N	N	N	N	N	N	Raise levee to 500-yr	s	N	N	N	N
Little Creek	76.7	1639	7	1194	438	0	73	27	0.5	0.7	1.0	1.3	Y	N	Y	N	Y	Y	Raise levee to 500-yr	t	N	N	N	N
McGee Creek	71.4	12605	65	11543	997	1	92	7	0.5	0.8	1.0	1.4	N	N	N	N	N	N	Raise levee to 500-yr	u	N	N	N	N
Meredosia & Willow Cr	69.4	16946	1050	13029	2867	6	77	17	0.5	0.8	1.2	1.9	N	N	N	N	N	N	Raise levee to 500-yr	v	N	N	N	N
Coon Run	68.9	2423	7	2248	168	0	93	7	0.5	0.8	1.2	1.9	Y	N	Y	N	Y	N	Raise levee to 500-yr	w	N	N	N	N
Smith Lake	67.2			?	?	?	?	?	0.5	0.8	1.2	1.9	N	N	N	N	Y	N	Raise levee to 500-yr	x	N	N	N	N
Oakes	66.3	617	3	583	31	0	95	5	0.5	0.8	1.2	2.0	N	N	N	N	Y	N	Raise levee to 500-yr	y	N	N	N	N
Valley City	65.1	4790	21	4218	551	0	88	12	0.5	0.8	1.3	2.0	N	N	N	N	N	Y	Raise levee to 500-yr	z	N	N	N	N
Mauvaise Terre	64.8	5667	168	4986	513	3	88	9	0.5	0.9	1.3	2.0	Y	N	Y	N	Y	Y	Raise levee to 500-yr	aa	N	N	N	N
Robertson	63.3	852	10	721	121	1	85	14	0.5	0.9	1.3	2.1	N	N	N	N	N	Y	Raise levee to 500-yr	ab	N	N	N	N
Scott County	59.3	11599	143	10309	1147	1	89	10	0.6	0.9	1.4	2.3	N	N	N	Y	Y	Y	Raise levee to 500-yr	ac	N	N	N	N
Walnut Creek	56.3	500	--	500	--	--	100	--	0.6	1.0	1.5	2.5	N	N	Y	N	Y	N	Raise levee to 500-yr	ad	N	N	N	N
Big Swan	53.6	13775	177	12937	661	1	94	5	0.6	1.0	1.5	2.4	N	N	N	Y	Y	Y	Raise levee to 500-yr	ae	N	N	N	N
Hillview	46.6	13106	62	12580	464	0	96	4	0.6	1.0	1.4	2.1	N	N	N	Y	Y	Y	Raise levee to 500-yr	af	N	N	N	N
Village of Pearl	43.2			?	?	?	?	?	0.7	1.0	1.4	2.0	Y	N	Y	N	Y	N	Raise levee to 500-yr	ag	N	N	N	N
Hartwell	40.7	9582	16	8922	644	0	93	7	0.7	1.0	1.3	1.9	N	N	Y	N	Y	Y	Raise levee to 500-yr	ah	N	N	N	N
Keach	35.3	9304	54	8680	570	1	93	6	0.7	1.0	1.3	1.7	N	N	Y	N	Y	Y	Raise levee to 500-yr	ai	N	N	N	N
Schaefer - Farrow	32.6	802	52	715	35	5	91	4	0.7	1.0	1.2	1.6	Y	N	Y	N	Y	Y	Raise levee to 500-yr	aj	N	N	N	N
Bluffdale Farms	32.3	636	0	382	254	0	60	40	0.7	0.9	1.2	1.6	N	N	N	Y	Y	Y	Raise levee to 500-yr	ak	N	N	N	N
Eldred - Spankey DL	28.1	10336	51	9822	463	1	95	4	0.7	0.9	1.2	1.5	N	N										

ATTACHMENT 29. PLAN B OPTION 3 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER (CONTINUED)
(Yellow = Areas with cost of levee improvements exceeding the value of the lands, and land use in area is <10% urban)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres			Percent Total Site			Induced Rise			Overtopping Flood Event						Flood Damage Reduction Feature	Cost of Levee Raise Exceeds Cost of Lands (Y/N)	D&LD Less Than 10% Urban (Y/N)	OPTION 3: ER OPPORTUNITY (Y/N)			
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	Without		With		Without		Without	With				
													50-Yr	100-Yr	200-Yr	500-Yr	Without	With						
Dubuque	580.60	1084	973	0	111	90	0	10	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	Existing Levee is Adequate	N	N	N
Sabula	535.00	561	110	11	440	20	2	78	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	Raise levee to 500-yr	Y	N	N
REACH 1 SUBTOTALS	--	0	0	0	0								--	--	--	--	--	--	--	--	--	--	--	--
Fulton	519.80	6803	1440	3800	1563	21	56	23	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	Existing Levee is Adequate	N	N	N
Clinton	517.30	1891	1687	74	130	89	0	11	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	Existing Levee is Adequate	Y	N	N
Meredosia	511.50	10493	187	8899	1407	2	85	13	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	N
East Moline	489.30	960	838	16	106	87	2	11	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	Existing Levee is Adequate	Y	N	N
Bettendorf	486.60	427	387	0	40	91	0	9	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	Existing Levee is Adequate	N	N	N
Rock Island	481.20	823	678	0	145	82	0	18	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	Raise levee to 500-yr	Y	N	N
Milan	478.50	2202	851	454	897	39	21	40	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	N	N
Andalusia	473.40	105	0	5	100	0	5	95	0.0	0.0	0.0	0.0	N	N	N	N	Y	N	Y	N	Raise levee to 500-yr	Y	N	N
Muscatine/Mad Creek	456.00	1	1	0	0	100	0	0	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	N	N
Drury	455.20	5077	69	4463	545	1	88	11	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	Raise levee to 500-yr	Y	Y	Y
Muscatine Island	448.40	30099	4711	19360	6028	16	64	20	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	Existing Levee is Adequate	N	N	N
Bay Island	442.60	19,974	133	17076	2765	1	85	14	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Y	N	Raise levee to 500-yr	N	Y	N
Iowa R.-Flint Cr	427.90	45528	1251	39883	4394	3	88	9	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	N
Keithsburg	427.60	119	111	0	8	93	0	7	0.0	0.0	0.0	0.0	N	N	N	N	N	Y	N	Raise levee to 500-yr	Y	N	N	
Henderson #1	407.30	8488	299	6071	2118	4	72	24	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	N
Henderson #2	402.40	8681	249	7188	1244	3	83	14	0.0	0.0	0.0	0.0	N	N	N	N	N	Y	N	Raise levee to 500-yr	N	Y	N	
Green Bay	391.00	15160	473	13368	1319	0	12	88	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	N
REACH 2 SUBTOTALS	--	5,077	69	4463	545								--	--	--	--	--	--	--	--	--	--	--	
Des Moines/Mississippi	358.95	8525	236	7544	745	3	88	9	0.0	0.2	0.3	0.7	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	N
Mississippi & Fox	357.75	8657	57	7800	800	1	90	9	0.0	0.2	0.3	0.7	N	N	N	N	N	Y	N	Raise levee to 500-yr	N	Y	N	
Hunt-Lima	351.65	17012	124	16010	878	1	94	5	0.0	0.2	0.4	0.7	N	N	N	N	N	Y	N	Raise levee to 500-yr	N	Y	N	
Gregory	351.25	8975	37	7183	1755	0	80	20	0.0	0.2	0.3	0.7	N	N	N	N	N	Y	N	Raise levee to 500-yr	N	Y	N	
Canton	342.00	592	385	100	107	65	17	18	0.1	0.2	0.4	0.8	N	N	N	N	N	N	N	Raise levee to 500-yr	Y	N	N	
Indian Grave	338.75	19615	142	18093	1380	1	92	7	0.1	0.2	0.4	0.9	N	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	N	
Union Township	333.30	4007	147	2784	1076	4	69	27	0.1	0.2	0.5	1.0	N	N	N	N	N	Y	N	Raise levee to 500-yr	N	Y	N	
Fabius	327.75	15065	345	13302	1418	2	88	10	0.1	0.3	0.6	1.1	N	N	N	N	N	Y	N	Raise levee to 500-yr	N	Y	N	
Marion County	322.40	4102	6	3800	296	0	93	7	0.1	0.3	0.7	1.4	N	N	N	Y	N	Y	N	Raise levee to 500-yr	Y	Y	Y	
South Quincy	321.70	5767	578	3759	1430	10	65	25	0.1	0.3	0.7	1.5	N	N	N	N	N	N	N	Raise levee to 500-yr	Y	Y	Y	
South River Industrial	319.00	1626	1626	0	0	100	--	--	0.1	0.4	0.9	1.8	N	N	N	N	N	N	N	Existing Levee is Adequate	N	--	N	
South River	315.65	10155	313	8652	1190	3	85	12	0.2	0.5	1.1	2.2	N	N	N	N	N	Y	N	Raise levee to 500-yr	N	Y	N	
Hannibal	309.50	40	40	0	0	100	0	0	0.2	0.6	1.3	2.7	N	N	N	N	N	N	N	Raise levee to 500-yr	Y	N	N	
Sny Island Reach I	307.60	44571	632	39663	4276	1	89	10	0.2	0.6	1.3	2.5	N	N	N	N	N	Y	N	Raise levee to 500-yr	N	Y	N	
Sny Island Reach II	292.45	17277	189	15912	1176	1	92	7</																

ATTACHMENT 29. PLAN B OPTION 3 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER (CONTINUED)
(Yellow = Areas with cost of levee improvements exceeding the value of the lands, and land use in area is <10% urban)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres			Percent Total Site			Induced Rise			Overtopping Flood Event						Flood Damage Reduction Feature	Cost of Levee Raise Exceeds Cost of Lands (Y/N)	D&LD Less Than 10% Urban (Y/N)	OPTION 3: ER OPPORTUNITY (Y/N)			
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	Without	50-Yr with	Without	100-Yr with	Without	200-Yr with	Without	50-Yr with				
Clarksville Levees	269.04	2151	2	1675	474	0	78	22	0.4	0.7	1.3	2.3	N	N	N	N	N	Y	Y	Y	Remains at existing conditions	Y	Y	Y
Sny Island Reach IV	268.75	11518	44	9586	1888	0	83	17	0.4	0.8	1.3	2.3	N	N	N	N	N	N	N	N	Raise levee to 500-yr	Y	Y	Y
Kissinger Levee District	266.41	2498	4	2148	346	0	86	14	0.5	0.8	1.3	2.4	N	N	N	Y	N	Y	Y	Y	Remains at existing conditions	N	Y	N
Busch-Goose Pasture Farms	264.10	447	1	341	105	0	76	24	0.6	0.9	1.4	2.5	N	N	Y	N	Y	N	Y	N	Raise levee to 500-yr	Y	Y	Y
Cannon Wildlife Refuge	262.24	3477	3	1141	2333	0	33	67	0.6	1.0	1.5	2.5	Y	Y	Y	Y	Y	Y	Y	Y	Conservation Levee - No Raise	N	Y	N
Annada	262.22	3320	25	1554	1741	1	47	52	0.7	1.0	1.6	2.5	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	N	Y	N
Elsberry Drainage District	255.94	18502	138	16254	2110	1	88	11	0.7	1.0	1.5	2.4	N	N	N	N	N	Y	N	Raise levee to 500-yr	Y	Y	Y	
Elsberry Drainage Dist - A		5300	--	5300	--	--	100	--	0.6	1.0	1.5	2.4	Y	Y	Y	Y	Y	Y	Y	5300ac as storage between MRM 260.17 & 255.26	--	--	N	
Kings Lake Drainage District	249.04	3212	21	1108	2083	1	34	65	0.6	0.9	1.2	1.9	N	N	Y	N	Y	Y	Y	Y	Remains at existing conditions	N	Y	N
Sandy Creek D. District	245.70	1082	21	806	255	2	74	24	0.5	0.8	1.1	1.8	Y	N	Y	N	Y	N	Y	N	Raise levee to 500-yr	Y	Y	Y
Foley Drainage District	245.03	1168	98	947	123	8	81	11	0.5	0.8	1.1	1.8	Y	N	Y	N	Y	N	Y	N	Raise levee to 500-yr	Y	Y	Y
Cap Au Gris D&LD	241.16	4812	241	3898	674	5	81	14	0.6	0.8	1.0	1.6	Y	N	Y	N	Y	N	Y	N	Raise levee to 500-yr	Y	Y	Y
Winfield D&LD	238.88	1661	56	1480	125	3	89	8	0.6	0.8	1.1	1.7	Y	N	Y	N	Y	N	Y	N	Raise levee to 500-yr	Y	Y	Y
Brevator D&LD	238.08	2092	92	1744	256	4	83	13	0.6	0.8	1.1	1.6	Y	N	Y	N	Y	N	Y	N	Raise levee to 500-yr	Y	Y	Y
Schramm Private Levee	237.25	273	1	210	62	0	77	23	0.6	0.8	1.1	1.7	Y	N	Y	N	Y	N	Y	N	Raise levee to 500-yr	Y	Y	Y
Old Monroe Private Levee	236.75	802	60	700	42	7	87	6	0.6	0.8	1.1	1.7	Y	N	Y	N	Y	N	Y	N	Raise levee to 500-yr	Y	Y	Y
Heitman Private Levee	236.39	196	1	182	13	1	93	6	0.6	0.9	1.1	1.7	Y	N	Y	N	Y	N	Y	N	Raise levee to 500-yr	Y	Y	Y
Marstan-Portuchek Private L.	236.09	888	7	817	64	44	45	11	0.6	0.9	1.1	1.7	Y	N	Y	N	Y	N	Y	N	Raise levee to 500-yr	Y	N	N
St. Peters Drainage Association No. 1/Urban	230.02	1098	202	662	234	18	60	22	0.6	0.8	1.0	1.4	N	N	N	N	N	N	Y	N	Raise levee to 500-yr	N	N	N
Consolidated North County Levee District	206.25	18706	881	15280	2545	3	51	46	0.5	0.7	0.8	1.1									Remains at existing conditions	N	Y	N
Wood River	198.05	11325	6438	3019	1868	57	27	16	0.5	0.6	0.8	1.1	N	N	N	N	N	N	Y	N	Existing Levee is Adequate	N	N	N
Columbia Bottoms Levee	194.15	4434	70	4030	334	2	10	88	0.5	0.7	0.8	1.1	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	N	Y	N
Chouteau Island D&LD	191.19	2033	236	914	883	12	45	43	0.5	0.6	0.8	1.1	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	N	Y	N
Chouteau, Nameoki and Venice D&LD	189.89	4800	--	4800	--	--	100	--	0.5	0.7	0.8	1.1	N	N	N	N	N	N	Y	N	Existing Levee is Adequate	N	N	N
Gabaret/Cabrolet Island D&LD	187.32	776	3	673	100	0	87	13	0.5	0.6	0.8	1.1	Y	Y	Y	Y	Y	Y	N	Y	Remains at existing conditions	N	Y	N
St. Louis Flood Protection Project	181.69	3003	2750	0	253	92	0	8	0.4	0.6	0.7	0.8	N	N	N	N	N	N	N	N	Raise levee to 500-yr	Y	N	N
Metro East Sanitary Dist.	179.35	86031	36418	27607	22006	42	32	26	0.4	0.5	0.6	0.7	N	N	N	N	N	N	Y	N	Existing Levee is Adequate	N	N	N
Prairie du Pont	170.71	12766	2103	8755	1908	16	69	15	0.4	0.5	0.5	0.6	Y	N	Y	N	Y	N	Y	N	Existing Levee is Adequate	N	N	N
Columbia	160.89	13730	212	12640	878	2	92	6	0.4	0.5	0.5	0.6	N	N	Y	N	Y	Y	Y	Y	Remains at existing conditions	N	Y	N
Harrisonville	142.89	26836	612	24068	2156	2	90	8	0.4	0.5	0.7	1.1	N	N	N	N	N	N	Y	N	Remains at existing conditions	N	Y	N

ATTACHMENT 29. PLAN B OPTION 3 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER (CONTINUED)
(Yellow = Areas with cost of levee improvements exceeding the value of the lands, and land use in area is <10% urban)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres			Percent Total Site			Induced Rise			Overtopping Flood Event						Flood Damage Reduction Feature	Cost of Levee Raise Exceeds Cost of Lands (Y/N)	D&LD Less Than 10% Urban (Y/N)	OPTION 3: ER OPPORTUNITY (Y/N)			
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	Without	50-Yr with	Without	100-Yr with	Without	200-Yr with	Without	50-Yr with				
Stringtown	139.50	2673	40	2570	63	1	96	3	0.4	0.6	0.8	1.1	N	N	N	N	N	N	N	Y	Remains at existing conditions	N	Y	N
Fort Chartres & Ivy Landing	134.00	15232	268	13283	1681	2	87	2	0.4	0.6	0.8	1.3	N	N	N	N	N	N	N	Y	Remains at existing conditions	N	Y	N
Prairie Du Rocher & Modoc	124.45	15891	251	14449	1191	2	91	7	0.4	0.6	0.8	1.1	N	N	N	N	N	N	N	Y	Remains at existing conditions	N	Y	N
Ste. Genevieve Urban Levee	123.75				--	--	--	--	0.4	0.5	0.8	1.1	N	N	N	N	N	N	N	N	Raise levee to 500-yr	Y	N	N
Ste. Genevieve Levee District No. 2	119.51	7852	11	7178	663	0	92	8	0.4	0.5	0.7	1.0	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	N	Y	N
Kaskaskia Island	113.40	9365	125	8755	485	1	93	6	0.4	0.5	0.6	0.7	N	N	N	N	N	N	N	Y	Remains at existing conditions	N	Y	N
Bois Brule	103.22	26483	490	24710	1283	2	93	5	0.3	0.4	0.4	0.4	N	N	N	N	Y	Y	Y	Y	Remains at existing conditions	N	Y	N
Degognia & Fountain Bluff	91.75	39121	1073	32764	5284	3	84	13	0.3	0.4	0.4	0.4	N	N	N	N	N	N	Y	Y	Remains at existing conditions	N	Y	N
Grand Tower	78.90	14438	399	7196	6843	3	50	47	0.3	0.3	0.3	0.2	N	N	N	N	N	N	Y	Y	Remains at existing conditions	N	Y	N
Preston	70.75	16104	351	11454	4299	2	71	27	0.3	0.3	0.3	0.2	N	N	N	N	N	N	Y	Y	Remains at existing conditions	N	Y	N
Miller Pond	70.73	3790	30	3465	295	1	91	8	0.3	0.3	0.3	0.2	N	N	N	N	N	N	Y	Y	Remains at existing conditions	N	Y	N
Clear Creek	61.02	15882	284	10387	5211	2	65	33	0.2	0.2	0.2	0.1	N	N	N	N	N	N	Y	Y	Remains at existing conditions	N	Y	N
Cape Girardeau	52.15	22	4	0	18	3	0	97	0.2	0.2	0.2	0.1	N	N	N	N	N	N	N	N	Existing Levee is Adequate	N	Y	N
N. Alexander Co.	51.47	3019	62	1370	1587	2	45	53	0.2	0.2	0.2	0.1	N	N	N	N	N	N	Y	Y	Remains at existing conditions	N	Y	N
E. Cape Girardeau & Clear Creek	51.45	10410	349	7364	2697	3	71	26	0.2	0.2	0.2	0.1	N	N	N	N	N	N	Y	Y	Remains at existing conditions	N	Y	N
Hubble Creek (New Levee)																								
REACH 3 SUBTOTALS	--	45,205	765	38,243	6,198				--	--	--	--	--	--	--	--	--	--	--	--				

ATTACHMENT 30. PLAN B OPTION 3 ER LOCATION OPPORTUNITIES FOR ILLINOIS RIVER
(Yellow = Areas with cost of levee improvements exceeding the value of the lands, and land use in area is <10% urban)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres			Percent Total Site			Induced Rise			Overtopping Flood Event						Flood Damage Reduction Feature	Cost of Levee Raise Exceeds Cost of Lands (Y/N)	D&LD Less Than 10% Urban (Y/N)	OPTION 3: ER OPPORTUNITY (Y/N)				
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	50-Yr		100-Yr		200-Yr								
													Without	With	Without	With	Without	With							
Ottawa	239.9								0.0	0.0	0.0	0.0									c	d	h		
East Peoria Sanitary District	162.4	296	223	0	73	76	0	24	0.0	0.1	0.1	0.2	N	N	N	N	N	N	N	N	Raise levee to 500-yr	Y	N	N	
East Peoria	161.2	1092	940	0	152	86	0	14	0.1	0.1	0.2	0.3	N	N	N	N	N	N	Y	N	Raise levee to 500-yr	Y	N	N	
North Pekin	161.2				?	?	?	?	0.1	0.1	0.2	0.4	N	N	N	N	N	N	Y	N	Raise levee to 500-yr	N	--	N	
Pekin-LaMarsh	152.4	2686	262	2046	378	10	76	14	0.1	0.2	0.3	0.5	N	N	Y	N	Y	N	Y	Y	Raise levee to 500-yr	Y	Y	Y	
Rocky Ford	152.4	1585	--	1585	--	--	100	--	0.1	0.2	0.3	0.6	N	N	Y	Y	Y	Y	Y	Y	Conservation levee—no raise	N	--	N	
Spring Lake	141.0	12959	170	10645	2144	1	82	17	0.2	0.3	0.5	0.8	N	N	Y	N	Y	N	Y	Y	Raise levee to 500-yr	N	Y	N	
Liverpool	141.0	3236	99	2645	492	3	82	15	0.2	0.4	0.6	0.9	N	N	N	N	N	N	N	N	Raise levee to 500-yr	Y	Y	Y	
East Liverpool	130.1	2920	7	2770	143	0	95	5	0.2	0.4	0.6	0.9	N	N	N	N	N	N	Y	N	Raise levee to 500-yr	N	Y	N	
Lacey, Langellier, W.Matanzas, Kerton Valley	115.6	11235	143	10248	844	1	91	8	0.3	0.5	0.6	0.9	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	N	
Seahorn	115.6	1629	32	1463	134	2	90	8	0.3	0.5	0.7	0.9	Y	N	Y	N	Y	N	Y	Y	Raise levee to 500-yr	N	Y	N	
Big Lake	105.7	3916	26	3751	139	1	96	3	0.3	0.5	0.7	0.9	N	N	Y	N	Y	N	Y	Y	Raise levee to 500-yr	Y	Y	Y	
Kelly Lake	101.7	1161	6	927	228	1	80	19	0.3	0.5	0.7	0.9	N	N	N	N	N	N	N	N	Raise levee to 500-yr	Y	Y	Y	
Hager Slough	92.0	6915	44	5693	1178	1	82	17	0.4	0.6	0.8	1.1	N	N	Y	N	Y	N	Y	N	Raise levee to 500-yr	N	Y	N	
Lost Creek	89.7	3468	267	2754	447	8	79	13	0.4	0.6	0.8	1.1	N	N	N	N	N	N	N	N	Raise levee to 500-yr	Y	Y	Y	
Sanitary Dist. of Beardstown	88.6	858	807	13	38	94	2	4	0.4	0.6	0.8	1.1	N	N	N	N	N	N	N	N	Raise levee to 500-yr	Y	N	N	
Coal Creek	88.5	6272	75	5757	440	1	92	7	0.4	0.6	0.8	1.1	N	N	N	N	N	N	N	N	Raise levee to 500-yr	Y	Y	Y	
Crane Creek	84.2	4292	26	3985	281	1	93	6	0.4	0.7	0.9	1.3	N	N	N	Y	N	Y	Y	N	Raise levee to 500-yr	N	--	N	
South Beardstown	84.2	8467	340	7125	1002	4	4	11	0.4	0.7	0.9	1.3	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	N	N	
Little Creek	76.7	1639	7	1194	438	0	73	27	0.5	0.7	1.0	1.3	Y	N	Y	N	Y	N	Y	Y	Raise levee to 500-yr	Y	Y	Y	
Meredosia Lake & Willow Creek									0.5	0.8	1.0	1.3	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	N	
McGee Creek	71.4	12605	65	11543	997	1	92	7	0.5	0.8	1.0	1.4	N	N	N	N	N	N	N	N	Raise levee to 500-yr	Y	Y	Y	
Meredosia & Willow Cr	69.4	16946	1050	13029	2867	6	77	17	0.5	0.8	1.2	1.9	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	N	
Coon Run	68.9	2423	7	2248	168	0	93	7	0.5	0.8	1.2	1.9	Y	N	Y	N	Y	N	Y	N	Raise levee to 500-yr	N	Y	N	
Smith Lake	67.2				?	?	?	?	0.5	0.8	1.2	1.9	N	N	N	N	N	N	Y	Raise levee to 500-yr	N	-	N		
Oakes	66.3	617	3	583	31	0	95	5	0.5	0.8	1.2	2.0	N	N	N	Y	N	Y	N	Raise levee to 500-yr	Y	Y	Y		
Valley City	65.1	4790	21	4218	551	0	88	12	0.5	0.8	1.3	2.0	N	N	N	N	N	N	Y	Raise levee to 500-yr	Y	Y	Y		
Mauvaise Terre	64.8	5667	168	4986	513	3	88	9	0.5	0.9	1.3	2.0	Y	N	Y	N	Y	N	Y	Raise levee to 500-yr	Y	Y	Y		
Robertson	63.3	852	10	721	121	1	85	14	0.5	0.9	1.3	2.1	N	N	N	N	N	N	Y	Raise levee to 500-yr	Y	Y	Y		
Scott County	59.3	11599	143	10309	1147	1	89	10	0.6	0.9	1.4	2.3	N	N	N	Y	Y	Y	Y	Raise levee to 500-yr	Y	Y	Y		
Walnut Creek	56.3	500	--	500	--	--	100	--	0.6	1.0	1.5	2.5	N	N	Y	N	Y	N	Y	Raise levee to 500-yr	Y	--	Y		
Big Swan	53.6	13775	177	12937	661	1	94	5	0.6	1.0	1.5	2.4	N	N	N	Y	Y	Y	Y	Raise levee to 500-yr	Y	Y	Y		
Hillview	46.6	13106	62	12580	464	0	96	4	0.6	1.0	1.4	2.1	N	N	N	Y	Y	Y	Y	Raise levee to 500-yr	Y	Y	Y		
Village of Pearl	43.2				?	?	?	?	0.7	1.0	1.4	2.0	Y	N	Y	N	Y	N	Y	Raise levee to 500-yr	Y	-	Y		
Hartwell	40.7	9582	16	8922	644	0	93	7	0.7	1.0	1.3	1.9	N	N	Y	N	Y	Y	Y	Raise levee to 500-yr	Y	Y	Y		
Keach	35.3	9304	54	8680	570	1	93	6	0.7	1.0	1.3	1.7	N	N</td											

ATTACHMENT 31. PLAN B OPTION 4 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER
(Yellow = Areas with <100-Year level of protection with a project in place, without flowage easements, but with a levee raise required)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres		Percent Total Site		Induced Rise			Overtopping Flood Event						Flood Damage Reduction Feature	Less Than 100-Yr Protection Level (Y/N)	Easements Not Required (Y/N)	Levee Raise Required Y/N	OPTION 4: ER OPPORTUNITY (Y/N)				
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	Without	50-Yr	Without	100-Yr	Without	200-Yr	50-Yr					
Dubuque	580.60	1084	973	0	111	90	0	10	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	Existing Levee is Adequate	N	Y	N	N
Sabula	535.00	561	110	11	440	20	2	78	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	Y	N
REACH 1 SUBTOTALS	--	0	0	0	0								-	-	-	-	-	-	-	--	-	-	-	
Fulton	519.80	6803	1440	3800	1563	21	56	23	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	Existing Levee is Adequate	N	Y	N	N
Clinton	517.30	1891	1687	74	130	89	0	11	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	Existing Levee is Adequate	N	Y	N	N
Meredosia	511.50	10493	187	8899	1407	2	85	13	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	Y	N
East Moline	489.30	960	838	16	106	87	2	11	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	Existing Levee is Adequate	N	Y	N	N
Bettendorf	486.60	427	387	0	40	91	0	9	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	Existing Levee is Adequate	N	Y	N	N
Rock Island	481.20	823	678	0	145	82	0	18	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	Y	N
Milan	478.50	2202	851	454	897	39	21	40	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	Y	N
Andalusia	473.40	105	0	5	100	0	5	95	0.0	0.0	0.0	0.0	N	N	N	N	Y	N	N	Raise levee to 500-yr	N	Y	Y	N
Muscatine/Mad Creek	456.00	1	1	0	0	100	0	0	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	Y	N
Drury	455.20	5077	69	4463	545	1	88	11	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	Y	N
Muscatine Island	448.40	30099	4711	19360	6028	16	64	20	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	Existing Levee is Adequate	N	Y	N	N
Bay Island	442.60	19,974	133	17076	2765	1	85	14	0.0	0.0	0.0	0.0	N	N	N	N	N	Y	N	Raise levee to 500-yr	N	Y	Y	N
Iowa R.-Flint Cr	427.90	45528	1251	39883	4394	3	88	9	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	Y	N
Keithsburg	427.60	119	111	0	8	93	0	7	0.0	0.0	0.0	0.0	N	N	N	N	Y	N	N	Raise levee to 500-yr	N	Y	Y	N
Henderson #1	407.30	8488	299	6071	2118	4	72	24	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	Y	N
Henderson #2	402.40	8681	249	7188	1244	3	83	14	0.0	0.0	0.0	0.0	N	N	N	N	N	Y	N	Raise levee to 500-yr	N	Y	Y	N
Green Bay	391.00	15160	473	13368	1319	0	12	88	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	Y	N
REACH 2 SUBTOTALS	--	0	0	0	0								--	--	--	--	--	--	--	--	--	--		
Des Moines/Mississippi	358.95	8525	236	7544	745	3	88	9	0.0	0.2	0.3	0.7	N	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	Y	N
Mississippi & Fox	357.75	8657	57	7800	800	1	90	9	0.0	0.2	0.3	0.7	N	N	N	N	Y	N	N	Raise levee to 500-yr	N	Y	Y	N
Hunt-Lima	351.65	17012	124	16010	878	1	94	5	0.0	0.2	0.4	0.7	N	N	N	N	N	Y	N	Raise levee to 500-yr	N	Y	Y	N
Gregory	351.25	8975	37	7183	1755	0	80	20	0.0	0.2	0.3	0.7	N	N	N	N	N	Y	N	Raise levee to 500-yr	N	Y	Y	N
Canton	342.00	592	385	100	107	65	17	18	0.1	0.2	0.4	0.8	N	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	Y	N
Indian Grave	338.75	19615	142	18093	1380	1	92	7	0.1	0.2	0.4	0.9	N	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	Y	N
Union Township	333.30	4007	147	2784	1076	4	69	27	0.1	0.2	0.5	1.0	N	N	N	N	N	Y	N	Raise levee to 500-yr	N	Y	Y	N
Fabius	327.75	15065	345	13302	1418	2	88	10	0.1	0.3	0.6	1.1	N	N	N	N	N	Y	N	Raise levee to 500-yr	N	Y	Y	N
Marion County	322.40	4102	6	3800	296	0	93	7	0.1	0.3	0.7	1.4	N	N	N	Y	N	Y	N	Raise levee to 500-yr	N	Y	Y	N
South Quincy	321.70	5767	578	3759	1430	10	65	25	0.1	0.3	0.7	1.5	N	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	Y	N
South River Industrial	319.00	1626	1626	0	0	100	--	--	0.1	0.4	0.9	1.8	N	N	N	N	N	N	N	Existing Levee is Adequate	N	Y	N	N
South River	315.65	10155	313	8652	1190	3	85	12	0.2	0.5	1.1	2.2	N	N	N	N	N	Y	N	Raise levee to 500-yr	N	Y	Y	N
Hannibal	309.50	40	40	0	0	100	0	0	0.2	0.6	1.3	2.7	N	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	Y	N
Sny Island Reach I	307.60	44571	632	39663	4276	1	89	10	0.2	0.6	1.3	2.5	N	N	N	N	N	Y	N	Raise levee to 500-yr	N	Y	Y	N
Sny Island Reach II	292.45	17277	189	15912	1176	1	92	7	0.2	0.5	1.1	2.2	N	N	N	N	N	Y	N	Raise levee to 500-yr	N	Y	Y	N
Riverland Private Levee		2758	2	1501	1255				0.2	0.5	1.1	2.2	N	Y	Y	Y	Y	Y	Y	Cons				

ATTACHMENT 31. PLAN B OPTION 4 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER (CONTINUED)
(Yellow = Areas with <100-Year level of protection with a project in place, without flowage easements, but with a levee raise required)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres			Percent Total Site			Induced Rise			Overtopping Flood Event						Flood Damage Reduction Feature	Less Than 100-Yr Protection Level (Y/N)	Easements Not Required (Y/N)	Levee Raise Required Y/N	OPTION 4: ER OPPORTUNITY (Y/N)			
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	50-Yr		100-Yr		200-Yr		50-Yr	Without	With	Without	With		
													Without	With	Without	With	Without	With							
Clarksville Levees	269.04	2151	2	1675	474	0	78	22	0.4	0.7	1.3	2.3	N	N	N	N	N	Y	Y	Y	Remains at existing conditions	a	N	N	N
Sny Island Reach IV	268.75	11518	44	9586	1888	0	83	17	0.4	0.8	1.3	2.3	N	N	N	N	N	N	N	N	Raise levee to 500-yr	b	Y	Y	N
Kissinger Levee District	266.41	2498	4	2148	346	0	86	14	0.5	0.8	1.3	2.4	N	N	N	Y	N	Y	Y	Y	Remains at existing conditions	c	N	N	N
Busch-Goose Pasture Farms	264.10	447	1	341	105	0	76	24	0.6	0.9	1.4	2.5	N	N	Y	N	Y	N	Y	N	Raise levee to 500-yr	d	Y	Y	N
Cannon Wildlife Refuge	262.24	3477	3	1141	2333	0	33	67	0.6	1.0	1.5	2.5	Y	Y	Y	Y	Y	Y	Y	Y	Conservation Levee - No Raise	e	N	N	N
Annada	262.22	3320	25	1554	1741	1	47	52	0.7	1.0	1.6	2.5	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	f	N	N	N
Elsberry Drainage District	255.94	18502	138	16254	2110	1	88	11	0.7	1.0	1.5	2.4	N	N	N	N	N	N	Y	N	Raise levee to 500-yr	g	Y	Y	N
Elsberry Drainage Dist - A		5300	--	5300	--	--	100	--	0.6	1.0	1.5	2.4	Y	Y	Y	Y	Y	Y	Y	Y	5300ac as storage between MRM 260.17 & 255.26	h	N	Y	N
Kings Lake Drainage District	249.04	3212	21	1108	2083	1	34	65	0.6	0.9	1.2	1.9	N	N	Y	N	Y	Y	Y	Y	Remains at existing conditions	i	N	N	N
Sandy Creek D. District	245.70	1082	21	806	255	2	74	24	0.5	0.8	1.1	1.8	Y	N	Y	N	Y	N	Y	N	Raise levee to 500-yr	j	Y	Y	N
Foley Drainage District	245.03	1168	98	947	123	8	81	11	0.5	0.8	1.1	1.8	Y	N	Y	N	Y	N	Y	N	Raise levee to 500-yr	k	Y	Y	N
Cap Au Gris D&LD	241.16	4812	226	3895	691	5	81	14	0.6	0.8	1.0	1.6	Y	N	Y	N	Y	N	Y	N	Raise levee to 500-yr	l	Y	Y	N
Winfield D&LD	238.88	1661	56	1480	125	3	89	8	0.6	0.8	1.1	1.7	Y	N	Y	N	Y	N	Y	N	Raise levee to 500-yr	m	Y	Y	N
Brevator D&LD	238.08	2092	92	1744	256	4	83	13	0.6	0.8	1.1	1.6	Y	N	Y	N	Y	N	Y	N	Raise levee to 500-yr	n	Y	Y	N
Schramm Private Levee	237.25	273	1	210	62	0	77	23	0.6	0.8	1.1	1.7	Y	N	Y	N	Y	N	Y	N	Raise levee to 500-yr	o	Y	Y	N
Old Monroe Private Levee	236.75	802	60	700	42	7	87	6	0.6	0.8	1.1	1.7	Y	N	Y	N	Y	N	Y	N	Raise levee to 500-yr	p	Y	Y	N
Heitman Private Levee	236.39	196	1	182	13	1	93	6	0.6	0.9	1.1	1.7	Y	N	Y	N	Y	N	Y	N	Raise levee to 500-yr	q	Y	Y	N
Marstan-Portuchek Private L.	236.09	888	7	817	64	44	45	11	0.6	0.9	1.1	1.7	Y	N	Y	N	Y	N	Y	N	Raise levee to 500-yr	r	Y	Y	N
St. Peters Drainage Association No. 1/Urban	230.02	1098	202	662	234	18	60	22	0.6	0.8	1.0	1.4	N	N	N	N	N	N	Y	N	Raise levee to 500-yr	s	Y	Y	N
Consolidated North County Levee District	206.25	18706	881	15280	2545	3	51	46	0.5	0.7	0.8	1.1									Remains at existing conditions	t	Y	Y	N
Wood River	198.05	11325	6438	3019	1868	57	27	16	0.5	0.6	0.8	1.1	N	N	N	N	N	N	Y	N	Existing Levee is Adequate	u	Y	Y	N
Columbia Bottoms Levee	194.15	4434	70	4030	334	2	10	88	0.5	0.7	0.8	1.1	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	v	N	N	N
Chouteau Island D&LD	191.19	2033	236	914	883	12	45	43	0.5	0.6	0.8	1.1	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	w	N	N	N
Chouteau, Nameoki and Venice D&LD	189.89	4800	--	4800	--	--	100	--	0.5	0.7	0.8	1.1	N	N	N	N	N	N	Y	N	Existing Levee is Adequate	x	Y	Y	N
Gabaret/Cabrolet Island D&LD	187.32	776	3	673	100	0	87	13	0.5	0.6	0.8	1.1	Y	Y	Y	Y	Y	Y	N	Y	Remains at existing conditions	y	N	N	N
St. Louis Flood Protection Project	181.69	3003	2750	0	253	92	0	8	0.4	0.6	0.7	0.8	N	N	N	N	N	N	N	N	Raise levee to 500-yr	z	Y	Y	N
Metro East Sanitary Dist.	179.35	86031	36418	27607	22006	42	32	26	0.4	0.5	0.6	0.7	N	N	N	N	N	N	Y	N	Existing Levee is Adequate	aa	Y	Y	N
Prairie du Pont	170.71	12766	2103	8755	1908	16	69	15	0.4	0.5	0.5	0.6	Y	N	Y	N	Y	N	Y	N	Existing Levee is Adequate	ab	Y	Y	N
Columbia	160.89	13730	212	12640	878	2	92	6	0.4	0.5	0.5	0.6	N	N	Y	N	Y	Y	Y	Y	Remains at existing conditions	ac	N	Y	N
Harrisonville	142.89	26836	612	24068	2156	2	90	8	0.4	0.5	0.7	1.1	N	N	N	N	N	N	N	Y	Remains at existing conditions	ad	N	Y	N

ATTACHMENT 31. PLAN B OPTION 4 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER (CONTINUED)
(Yellow = Areas with <100-Year level of protection with a project in place, without flowage easements, but with a levee raise required)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres			Percent Total Site			Induced Rise			Overtopping Flood Event						Flood Damage Reduction Feature	Less Than 100-Yr Protection Level (Y/N)	Easements Not Required (Y/N)	Levee Raise Required (Y/N)	OPTION 4: ER OPPORTUNITY (Y/N)		
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	Without	With	Without	With	Without	With						
Stringtown	139.50	2673	40	2570	63	1	96	3	0.4	0.6	0.8	1.1	N	N	N	N	N	N	Y	Remains at existing conditions	N	Y	Y	N
Fort Chartres & Ivy Landing	134.00	15232	268	13283	1681	2	87	2	0.4	0.6	0.8	1.3	N	N	N	N	N	N	Y	Remains at existing conditions	N	Y	Y	N
Prairie Du Rocher & Modoc	124.45	15891	251	14449	1191	2	91	7	0.4	0.6	0.8	1.1	N	N	N	N	N	N	Y	Remains at existing conditions	Y	N	N	N
Ste. Genevieve Urban Levee	123.75				--	--	--	--	0.4	0.5	0.8	1.1	N	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	Y	N
Ste. Genevieve Levee District No. 2	119.51	7852	11	7178	663	0	92	8	0.4	0.5	0.7	1.0	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	Y	N	N	N
Kaskaskia Island	113.40	9365	125	8755	485	1	93	6	0.4	0.5	0.6	0.7	N	N	N	N	N	N	Y	Remains at existing conditions	N	N	N	N
Bois Brule	103.22	26483	490	24710	1283	2	93	5	0.3	0.4	0.4	0.4	N	N	N	N	Y	Y	Y	Remains at existing conditions	N	Y	Y	N
Degognia & Fountain Bluff	91.75	39121	1073	32764	5284	3	84	13	0.3	0.4	0.4	0.4	N	N	N	N	N	N	Y	Remains at existing conditions	Y	N	N	N
Grand Tower	78.90	14438	399	7196	6843	3	50	47	0.3	0.3	0.3	0.2	N	N	N	N	N	N	Y	Remains at existing conditions	Y	N	N	N
Preston	70.75	16104	351	11454	4299	2	71	27	0.3	0.3	0.3	0.2	N	N	N	N	N	N	Y	Remains at existing conditions	Y	N	N	N
Miller Pond	70.73	3790	30	3465	295	1	91	8	0.3	0.3	0.3	0.2	N	N	N	N	N	N	Y	Remains at existing conditions	Y	N	N	N
Clear Creek	61.02	15882	284	10387	5211	2	65	33	0.2	0.2	0.2	0.1	N	N	N	N	N	N	Y	Remains at existing conditions	Y	N	N	N
Cape Girardeau	52.15	22	4	0	18	3	0	97	0.2	0.2	0.2	0.1	N	N	N	N	N	N	N	Existing Levee is Adequate	N	Y	Y	N
N. Alexander Co.	51.47	3019	62	1370	1587	2	45	53	0.2	0.2	0.2	0.1	N	N	N	N	N	N	Y	Remains at existing conditions	Y	N	N	N
E. Cape Girardeau & Clear Creek	51.45	10410	349	7364	2697	3	71	26	0.2	0.2	0.2	0.1	N	N	N	N	N	N	Y	Remains at existing conditions	Y	N	N	N
REACH 3 SUBTOTALS	--	0	0	0	0				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

ATTACHMENT 32. PLAN B OPTION 4 ER LOCATION OPPORTUNITIES FOR ILLINOIS RIVER
(Yellow = Areas with <100-Year level of protection with a project in place, without flowage easements, but with a levee raise required)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres		Percent Total Site			Induced Rise			Overtopping Flood Event						Flood Damage Reduction Feature	Less Than 100-Yr Protection Level (Y/N)	Easements Not Required (Y/N)	Levee Raise Required (Y/N)	OPTION 4: ER OPPORTUNITY (Y/N)		
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	Without	With	Without	With	Without	With					
Ottawa	239.9								0.0	0.0	0.0	0.0	N	N	N	N	N	N	Raise levee to 500-yr	a	Y	Y	N
East Peoria Sanitary District	162.4	296	223	0	73	76	0	24	0.0	0.1	0.1	0.2	N	N	N	N	N	N	Raise levee to 500-yr	b	Y	Y	N
East Peoria	161.2	1092	940	0	152	86	0	14	0.1	0.1	0.2	0.3	N	N	N	N	N	N	Raise levee to 500-yr	c	Y	Y	N
North Pekin	161.2				?	?	?	?	0.1	0.1	0.2	0.4	N	N	N	N	N	N	Raise levee to 500-yr	d	Y	Y	N
Pekin-LaMarsh	152.4	2686	262	2046	378	10	76	14	0.1	0.2	0.3	0.5	N	N	Y	N	Y	Y	Raise levee to 500-yr	e	Y	Y	N
Rocky Ford	152.4	1585	--	1585	--	100	--	0.1	0.2	0.3	0.6	N	N	Y	Y	Y	Y	Conservation levee—no raise	f	N	N	N	
Spring Lake	141.0	12959	170	10645	2144	1	82	17	0.2	0.3	0.5	0.8	N	N	Y	N	Y	Y	Raise levee to 500-yr	g	Y	Y	N
Liverpool	141.0	3236	99	2645	492	3	82	15	0.2	0.4	0.6	0.9	N	N	N	N	N	N	Raise levee to 500-yr	h	Y	Y	N
East Liverpool	130.1	2920	7	2770	143	0	95	5	0.2	0.4	0.6	0.9	N	N	N	N	N	N	Raise levee to 500-yr	i	Y	Y	N
Lacey, Langellier, W.Matanzas, Kerton Valley	115.6	11235	143	10248	844	1	91	8	0.3	0.5	0.6	0.9	N	N	N	N	N	N	Raise levee to 500-yr	j	Y	Y	N
Seahorn	115.6	1629	32	1463	134	2	90	8	0.3	0.5	0.7	0.9	N	N	Y	N	Y	Y	Raise levee to 500-yr	k	Y	Y	N
Big Lake	105.7	3916	26	3751	139	1	96	3	0.3	0.5	0.7	0.9	N	N	Y	N	Y	Y	Raise levee to 500-yr	l	Y	Y	N
Kelly Lake	101.7	1161	6	927	228	1	80	19	0.3	0.5	0.7	0.9	N	N	N	N	N	N	Raise levee to 500-yr	m	Y	Y	N
Hager Slough	92.0	6915	44	5693	1178	1	82	17	0.4	0.6	0.8	1.1	N	N	Y	N	Y	N	Raise levee to 500-yr	n	Y	Y	N
Lost Creek	89.7	3468	267	2754	447	8	79	13	0.4	0.6	0.8	1.1	N	N	N	N	N	N	Raise levee to 500-yr	o	Y	Y	N
Sanitary Dist. of Beardstown	88.6	858	807	13	38	94	2	4	0.4	0.6	0.8	1.1	N	N	N	N	N	N	Raise levee to 500-yr	p	Y	Y	N
Coal Creek	88.5	6272	75	5757	440	1	92	7	0.4	0.6	0.8	1.1	N	N	N	N	N	N	Raise levee to 500-yr	q	Y	Y	N
Crane Creek	84.2	4292	26	3985	281	1	93	6	0.4	0.7	0.9	1.3	N	N	N	Y	N	Y	Raise levee to 500-yr	r	Y	Y	N
South Beardstown	84.2	8467	340	7125	1002	4	4	11	0.4	0.7	0.9	1.3	N	N	N	N	N	N	Raise levee to 500-yr	s	Y	Y	N
Little Creek	76.7	1639	7	1194	438	0	73	27	0.5	0.7	1.0	1.3	Y	N	Y	N	Y	Y	Raise levee to 500-yr	t	Y	Y	N
Meredosia Lake & Willow Creek									0.5	0.8	1.0	1.3	N	N	N	N	N	N	Raise levee to 500-yr	u	Y	Y	N
McGee Creek	71.4	12605	65	11543	997	1	92	7	0.5	0.8	1.0	1.4	N	N	N	N	N	N	Raise levee to 500-yr	v	Y	Y	N
Meredosia & Willow Cr	69.4	16946	1050	13029	2867	6	77	17	0.5	0.8	1.2	1.9	N	N	N	N	N	N	Raise levee to 500-yr	w	Y	Y	N
Coon Run	68.9	2423	7	2248	168	0	93	7	0.5	0.8	1.2	1.9	Y	N	Y	N	Y	N	Raise levee to 500-yr	x	Y	Y	N
Smith Lake	67.2				?	?	?	?	0.5	0.8	1.2	1.9	N	N	N	N	N	N	Raise levee to 500-yr	y	Y	Y	N
Oakes	66.3	617	3	583	31	0	95	5	0.5	0.8	1.2	2.0	N	N	N	Y	N	Y	Raise levee to 500-yr	z	Y	Y	N
Valley City	65.1	4790	21	4218	551	0	88	12	0.5	0.8	1.3	2.0	N	N	N	N	Y	Y	Raise levee to 500-yr	aa	Y	Y	N
Mauvaise Terre	64.8	5667	168	4986	513	3	88	9	0.5	0.9	1.3	2.0	Y	N	Y	N	Y	Y	Raise levee to 500-yr	ab	Y	Y	N
Robertson	63.3	852	10	721	121	1	85	14	0.5	0.9	1.3	2.1	N	N	N	N	Y	Y	Raise levee to 500-yr	ac	Y	Y	N
Scott County	59.3	11599	143	10309	1147	1	89	10	0.6	0.9	1.4	2.3	N	N	N	Y	Y	Y	Raise levee to 500-yr	ad	Y	Y	N
Walnut Creek	56.3	500	--	500	--	--	100	--	0.6	1.0	1.5	2.5	N	N	Y	N	Y	N	Raise levee to 500-yr	ae	Y	Y	N
Big Swan	53.6	13775	177	12937	661	1	94	5	0.6	1.0	1.5	2.4	N	N	N	Y	Y	Y	Raise levee to 500-yr	af	Y	Y	N
Hillview	46.6	13106	62	12580	464	0	96	4	0.6	1.0	1.4	2.1	N	N	N	Y	Y	Y	Raise levee to 500-yr	ag	Y	Y	N
Village of Pearl	43.2				?	?	?	?	0.7	1.0	1.4	2.0	Y	N	Y	N	Y	N	Raise levee to 500-yr	ah	Y	Y	N
Hartwell	40.7	9582	16	8922	644	0	93	7	0.7	1.0	1.3	1.9	N	N	Y	N	Y	Y	Raise levee to 500-yr	ai	Y	Y	N
Keach	35.3	9304	54	8680	570	1	93	6	0.7	1.0	1.3	1.7	N	N	Y	N	Y	Y	Raise levee to 500-yr	aj	Y	Y	N
Schaefer – Farrow	32.6	802	52	715	35	5	91	4	0.7	1.0	1.2	1.6	Y	N	Y	N	Y	Y	Raise levee to 500-yr	ak	Y	Y	N
Bluffdale Farms	32.3	636	0	382	254	0	60	40	0.7	0.9	1.2	1.6	N	N	N	Y	Y	Y	Raise levee to 500-yr	al	Y	Y	N
Eldred – Spankey DL	28.1	10336	51	9822	463	1	95	4															

ATTACHMENT 33. PLAN D OPTION 2 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER
(Yellow = Areas with < 100-year level of protection with project in place, and requiring flowage easements, i.e. hydraulic mitigation)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres		Percent Total Site			Induced Rise			Overtopping Flood Event						Flood Damage Reduction Feature	Less Than 100-Yr Protection Level (Y/N)	Flowage Easements Required (Y/N)	Reason for Acquisition (Y/N)	OPTION 2: ER OPPORTUNITY (Y/N)			
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	Without	With	Without	With	Without	With						
Dubuque	580.60	1084	973	0	111	90	0	10	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Existing levee is adequate	N	N		N	
Sabula	535.00	561	110	11	440	20	2	78	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Raise levee to 500-yr	N	N		N	
REACH 1 SUBTOTALS	0	0	0	0																				
Fulton	519.80	6803	1440	3800	1563	21	56	23	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Existing levee is adequate	N	N		N	
Clinton	517.30	1891	1687	74	130	89	0	11	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Existing levee is adequate	N	N		N	
Meredosia	511.50	10493	187	8899	1407	2	85	13	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Raise levee to 100-yr FFF	Y	Y	3	Y	
East Moline	489.30	960	838	16	106	87	2	11	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Existing levee is adequate	N	N		N	
Bettendorf	486.60	427	387	0	40	91	0	9	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Existing levee is adequate	N	N		N	
Rock Island	481.20	823	678	0	145	82	0	18	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Raise levee to 500-yr	N	N		N	
Milan	478.50	2202	851	454	897	39	21	40	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Existing levee is adequate	N	N		N	
Andalusia	473.40	105	0	5	100	0	5	95	0.0	0.0	0.0	0.0	N	N	N	N	Y	Y	Raise levee to 100-yr FFF	Y	Y	3	Y	
Muscatine/Mad Creek	456.00	1	1	0	0	100	0	0	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Raise levee to 500-yr	N	N		N	
Drury	455.20	5077	69	4463	545	1	88	11	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Existing levee is at or above plan design level	N	Y	3	N	
Muscatine Island	448.40	30099	4711	19360	6028	16	64	20	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Existing levee is adequate	N	N		N	
Bay Island	442.60	19974	133	17076	2765	1	85	14	0.0	0.0	0.0	0.0	N	N	N	N	N	Y	Raise levee to 100-yr	Y	Y	3	Y	
Iowa R.-Flint Cr	427.90	45528	1251	39883	4394	3	88	9	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Existing levee is at or above plan design level	N	Y	3	N	
Keithsburg	427.60	119	111	0	8	93	0	7	0.0	0.0	0.0	0.0	N	N	N	N	N	Y	Raise levee to 100-yr FFF	Y	Y	3	Y	
Henderson #1	407.30	8488	299	6071	2118	4	72	24	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Raise levee to 100-yr FFF	Y	Y	3	Y	
Henderson #2	402.40	8681	249	7188	1244	3	83	14	0.0	0.0	0.0	0.0	N	N	N	N	N	Y	Raise levee to 100-yr FFF	Y	Y	3	Y	
Green Bay	391.00	15160	473	13368	1319	0	12	88	0.0	0.0	0.0	0.0	Y	N	Y	Y	Y	Y	Raise levee to 100-yr FFF	Y	Y	3	Y	
REACH 2 SUBTOTALS	63020	1452	52607	8961																				
Des Moines/Mississippi	358.95	8525	236	7544	745	3	88	9	0.0	0.0	0.0	0.1	N	N	N	N	N	N	Existing levee is at or above plan design level	N	Y	3	N	
Mississippi & Fox	357.75	8657	57	7800	800	1	90	9	0.0	0.0	0.0	0.1	N	N	N	N	N	Y	Raise levee to 100-yr FFF	Y	Y	3	Y	
Hunt-Lima	351.65	17012	124	16010	878	1	94	5	0.0	0.0	0.0	0.1	N	N	N	N	N	Y	Y	Existing levee is at or above plan design level	N	Y	3	N
Gregory	351.25	8975	37	7183	1755	0	80	20	0.0	0.0	0.0	0.1	N	N	N	N	N	Y	Y	Existing levee is at or above plan design level	N	Y	3	N
Canton	342.00	592	385	100	107	65	17	18	0.0	0.0	0.1	0.1	N	N	N	N	N	N	Raise levee to 500-yr	N	N		N	
Indian Grave	338.75	19615	142	18093	1380	1	92	7	0.0	0.0	0.1	0.1	N	N	N	N	N	N	Existing levee is at or above plan design level	N	Y	3	N	
Union Township	333.30	4007	147	2784	1076	4	69	27	0.0	0.0	0.1	0.1	N	N	N	N	N	Y	Y	Raise levee to 100-yr FFF	Y	Y	3	Y
Fabius	327.75	15065	345	13302	1418	2	88	10	0.0	0.1	0.1	0.1	N	N	N	N	N	Y	Y	Raise levee to 100-yr FFF	Y	Y	3	Y

ATTACHMENT 33. PLAN D OPTION 2 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER (CONTINUED)
(Yellow = Areas with < 100-year level of protection with project in place, and requiring flowage easements, i.e. hydraulic mitigation)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres		Percent Total Site			Induced Rise			Overtopping Flood Event						Flood Damage Reduction Feature	Less Than 100-Yr Protection Level (Y/N)	Flowage Easements Required (Y/N)	Reason for Acquisitions	OPTION 2: ER OPPORTUNITY (Y/N)				
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	Without	With	Without	With	Without	With							
														50-Yr		100-Yr		200-Yr		50-Yr					
Marion County	322.40	4102	6	3800	296	0	93	7	0.0	0.1	0.1	0.2	N	N	N	N	Y	N	Y	Y	Raise levee to 100-yr FFF	Y	Y	3	Y
South Quincy	321.70	5767	578	3759	1430	10	65	25	0.0	0.1	0.1	0.2	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	N		N
South River Industrial	319.00	1626	1626	0	0	100	--	--	0.0	0.1	0.1	0.2	N	N	N	N	N	N	N	N	Existing levee is adequate	N	Y	3	N
South River	315.65	10155	313	8652	1190	3	85	12	0.1	0.1	0.2	0.3	N	N	N	N	N	N	Y	Y	Raise levee to 100-yr FFF	Y	Y	3	Y
Hannibal	309.50	40	40	0	0	100	0	0	0.1	0.1	0.2	0.3	N	N	N	N	N	N	N	N	Existing levee is adequate	N	Y	3	N
Sny Island Reach I	307.60	44571	632	39663	4276	1	89	10	0.1	0.1	0.1	0.3	N	N	N	N	N	N	Y	Y	Raise levee to 100-yr FFF	Y	Y	3	Y
Riverland Private Levee	2758	2	1501	1255	54	46			0.1	0.1	0.2	N	N	Y	N	Y	N	Y	Y	Raise levee to 100-yr FFF	Y	Y	3	Y	
Sny Island Reach II	292.45	17277	189	15912	1176	1	92	7	0.1	0.1	0.1	0.2	N	N	N	Y	N	Y	Y	Y	Remains at existing conditions	N	Y	3	N
Sny Island Reach III	282.25	43098	370	35711	7017	1	83	16	0.1	0.2	0.2	0.3	N	N	N	N	N	N	Y	N	Raise levee to 100-yr FFF	Y	Y	3	Y
Petus-Burns-Prewitt-Jeager	271.60	501	10	420	71	2	84	14	0.1	0.2	0.2	0.3	Y	N	Y	N	Y	N	Y	Y	Raise levee to 100-yr FFF	Y	Y	3	Y
Clarksville Levees	269.04	2151	2	1675	474	0	78	22	0.3	0.4	0.4	0.5	N	N	N	N	N	N	Y	Y	Raise levee to 100-yr FFF	Y	Y	3	Y
Sny Island Reach IV	268.75	11518	44	9586	1888	0	83	17	0.3	0.4	0.4	0.5	N	N	N	N	N	N	N	N	Existing levee is at or above plan design level	N	Y	3	N
Kissinger Levee District	266.41	2498	4	2148	346	0	86	14	0.4	0.5	0.5	0.6	N	N	N	N	N	N	Y	Y	Raise levee to 100-yr FFF	Y	Y	3	Y
Busch-Goose Pasture Farms	264.10	447	1	341	105	0	76	24	0.5	0.6	0.6	0.7	N	N	Y	N	Y	N	Y	Y	Raise levee to 100-yr FFF	Y	Y	3	Y
Cannon Wildlife Refuge	262.24	3477	3	1141	2333	0	33	67	0.6	0.7	0.7	0.8	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	Y	Y	3	Y
Annada	262.22	3320	25	1554	1741	1	47	52	0.6	0.7	0.8	0.8	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	Y	Y	3	Y
Elsberry Drainage District	255.94	18502	138	16254	2110	1	88	11	0.6	0.6	0.7	0.7	N	N	N	N	N	N	Y	Y	Raise levee to 100-yr FFF	Y	Y	3	Y
Kings Lake Drainage District	249.04	3212	21	1108	2083	1	34	65	0.5	0.6	0.5	0.4	Y	N	Y	N	Y	Y	Y	Y	Raise levee to 100-yr FFF	Y	Y	3	Y
Sandy Creek D. District	245.70	1082	21	806	255	2	74	24	0.5	0.5	0.5	0.3	Y	N	Y	N	Y	N	Y	N	Raise levee to 100-yr FFF	Y	Y	3	Y
Foley Drainage District	245.03	1168	98	947	123	8	81	11	0.5	0.5	0.5	0.3	Y	N	Y	N	Y	N	Y	Y	Raise levee to 100-yr FFF	Y	Y	3	Y
Cap Au Gris D&LD	241.16	4812	241	3898	674	5	81	14	0.5	0.5	0.4	0.3	Y	N	Y	N	Y	N	Y	Y	Raise levee to 100-yr FFF	Y	Y	3	Y
Winfield D&LD	238.88	1661	56	1480	125	3	89	8	0.5	0.5	0.5	0.3	Y	N	Y	N	Y	N	Y	N	Raise levee to 100-yr FFF	Y	Y	3	Y
Brevator D&LD	238.08	2092	92	1744	256	4	83	13	0.5	0.6	0.5	0.3	Y	N	Y	N	Y	N	Y	Y	Raise levee to 100-yr FFF	Y	Y	3	Y
Schramm Private Levee	237.25	273	1	210	62	0	77	23	0.5	0.6	0.5	0.3	Y	N	Y	N	Y	N	Y	Y	Raise levee to 100-yr FFF	Y	Y	3	Y
Old Monroe Private Levee	236.75	802	60	700	42	7	87	6	0.5	0.6	0.5	0.4	Y	N	Y	N	Y	N	Y	Y	Raise levee to 100-yr FFF	Y	Y	3	Y
Heitman Private Levee	236.39	196	1	182	13	1	93	6	0.5	0.6	0.6	0.4	Y	N	Y	N	Y	N	Y	Y	Raise levee to 100-yr FFF	Y	Y	3	Y
Marstan-Portuchek Private L.	236.09	888	7	817	64	44	45	11	0.5	0.6	0.6	0.4	Y	N	Y	N	Y	N	Y	Y	Raise levee to 100-yr FFF	Y	Y	3	Y
New Levee—Perquie Creek									0.0	0.2	0.2	0.1		N		N		N		N	New levee	Y	Y	3	Y
St. Peters Drainage Association No. 1/Urban	230.02	1098	202	662	234	18	60	22	0.5	0.6	0.6	0.6	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	N		N
Consolidated North County Levee District	206.25	18706	881	15280	2545	3	51	46	0.5	0.7	0.8	1.0	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	Y	Y	3	Y
Wood River	198.05	11325	6438	3019	1868	57	27	16	0.5	0.7	0.9	1.1	N	N	N	N	N	N	N	N	Existing levee is adequate	N	N		N
Columbia Bottoms Levee	194.15	4434	70	4030	334	2	10	88	0.5	0.7	0.9	1.2	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	N	Y	3	N

ATTACHMENT 33. PLAN D OPTION 2 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER (CONTINUED)
(Yellow = Areas with < 100-year level of protection with project in place, and requiring flowage easements, i.e. hydraulic mitigation)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres		Percent Total Site			Induced Rise			Overtopping Flood Event						Flood Damage Reduction Feature	Less Than 100-Yr Protection Level (Y/N)	Flowage Easements Required (Y/N)	Reason for Acquisition	OPTION 2: ER OPPORTUNITY (Y/N)				
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	Without	With	Without	With	Without	With	Without	With					
Chouteau Island D&LD	191.19	2033	236	914	883	12	45	43	0.5	0.7	1.0	1.3	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	Y	Y	3	Y
Chouteau, Nameoki and Venice D&LD	189.89	4800	--	4800	--	100	--	0.5	0.7	1.0	1.3	N	N	N	N	N	N	N	N	N	Existing levee is adequate	N	Y	3	N
Gabaret/Cabrolet Island D&LD	187.32	776	3	673	100	0	87	13	0.5	0.7	1.0	1.3	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	Y	Y	3	Y
St. Louis Flood Protection Project	181.69	3003	2750	0	253	92	0	8	0.5	0.7	0.9	1.2	N	N	N	N	N	N	N	N	Existing levee is adequate	N	N		N
Metro East Sanitary Dist.	179.35	86031	36418	27607	22006	42	32	26	0.5	0.7	0.9	1.2	N	N	N	N	N	N	N	N	Existing levee is adequate	N	N		N
Prairie du Pont	170.71	12766	2103	8755	1908	16	69	15	0.5	0.8	1.1	1.5	Y	N	Y	N	Y	N	Y	N	Existing levee is adequate	N	N		N
Columbia	160.89	13730	212	12640	878	2	92	6	0.5	0.8	1.1	1.6	N	N	N	N	N	N	Y	Y	Raise levee to 100-yr FFF	Y	Y	3	Y
Harrisonville	142.89	26836	612	24068	2156	2	90	8	0.5	0.7	1.0	1.4	N	N	N	N	N	N	N	N	Existing levee is at or above plan design level	N	Y	3	N
Stringtown	139.50	2673	40	2570	63	1	96	3	0.5	0.7	0.9	1.3	N	N	N	N	N	N	N	N	Existing levee is at or above plan design level	Y	Y	3	Y
Fort Chartres & Ivy Landing	134.00	15232	268	13283	1681	2	87	2	0.5	0.6	0.8	1.1	N	N	N	N	N	N	N	N	Existing levee is at or above plan design level	Y	Y	3	Y
Prairie Du Rocher & Modoc	124.45	15891	251	14449	1191	2	91	7	0.5	0.6	0.8	1.0	N	N	N	N	N	N	N	Y	Existing levee is at or above plan design level	N	Y	3	N
Ste. Genevieve Urban Levee	123.75				--	--	--	--	0.5	0.6	0.8	1.0	N	N	N	N	N	N	N	N	Raise levee to 500-year	N	N		N
Ste. Genevieve Levee District No. 2	119.51	7852	11	7178	663	0	92	8	0.5	0.7	0.8	1.1	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	Y	Y	3	Y
Kaskaskia Island	113.40	9365	125	8755	485	1	93	6	0.5	0.7	0.9	1.3	N	N	N	N	N	N	N	Y	Existing levee is at or above plan design level	N	Y	3	N
Bois Brule	103.22	26483	490	24710	1283	2	93	5	0.5	0.7	0.9	1.1	N	N	N	N	Y	Y	Y	Y	Raise levee to 100-yr FFF	Y	Y	3	Y
Degognia & Fountain Bluff	91.75	39121	1073	32764	5284	3	84	13	0.5	0.7	0.9	1.1	N	N	N	N	N	N	Y	Y	Existing levee is at or above plan design level	N	Y	3	N
Grand Tower	78.90	14438	399	7196	6843	3	50	47	0.4	0.5	0.6	0.7	N	N	N	N	N	N	Y	Y	Existing levee is at or above plan design level	Y	Y	3	Y
Preston	70.75	16104	351	11454	4299	2	71	27	0.3	0.4	0.5	0.5	N	N	N	N	N	N	Y	Y	Existing levee is at or above plan design level	N	Y	3	N
Miller Pond	70.73	3790	30	3465	295	1	91	8	0.3	0.4	0.5	0.5	N	N	N	N	N	N	Y	Y	Existing levee is at or above plan design level	N	Y	3	N
Clear Creek	61.02	15882	284	10387	5211	2	65	33	0.3	0.3	0.3	0.3	N	N	N	N	N	N	Y	Y	Existing levee is at or above plan design level	N	Y	3	N
Cape Girardeau	52.15	22	4	0	18	3	0	97	0.2	0.3	0.3	0.2	N	N	N	N	N	N	N	N	Existing levee is adequate	N	N		N
N. Alexander Co.	51.47	3019	62	1370	1587	2	45	53	0.2	0.3	0.2	0.2	N	N	N	N	N	N	Y	Y	Existing levee is at or above plan design level	N	Y	3	N
E. Cape Girardeau & Clear Creek	51.45	10410	349	7364	2697	3	71	26	0.2	0.3	0.2	0.2	N	N	N	N	N	N	Y	Y	Existing levee is at or above plan design level	N	Y	3	N
New Levee									0.2	0.3	0.2	0.1	N	N	N	Y	Y	Y	New levee	Y	Y	3	Y		
REACH 3 SUBTOTALS	--	281418	5193	233082	43144								--	--	--	--	--	--	--	--	--	--	--	--	

ATTACHMENT 34. PLAN D OPTION 2 ER LOCATION OPPORTUNITIES FOR ILLINOIS RIVER
(Yellow = Areas with < 100-year level of protection with project in place, and requiring flowage easements, i.e. hydraulic mitigation)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres			Percent Total Site			Induced Rise			Overtopping Flood Event						Flood Damage Reduction Feature	Less Than 100-Yr Protection Level (Y/N)	Flowage Easements Required (Y/N)	Reason for Acquisition	OPTION 2: ER OPPORTUNITY (Y/N)	
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	Without	With	Without	With	Without	With					
Ottawa	239.9								0.0	0.0	0.0	0.0	N	N	N	N	N	N	Raise levee to 500-yr	N	N		N
East Peoria Sanitary District	162.4	296	223	0	73	76	0	24	0.1	0.1	0.1	0.2	N	N	N	N	N	N	Raise levee to 500-yr	N	N		N
East Peoria	161.2	1092	940	0	152	86	0	14	0.1	0.1	0.2	0.4	N	N	N	N	N	N	Raise levee to 500-yr	N	N		N
North Pekin	161.2				?	?	?	?	0.1	0.2	0.4	0.7	N	N	N	N	N	Y	Raise levee to 100-yr	Y	Y	3	Y
Pekin-LaMarsh	152.4	2686	262	2046	378	10	76	14	0.1	0.2	0.5	0.9	N	N	Y	N	Y	N	Raise levee to 100-yr	Y	Y	3	Y
Rocky Ford	152.4	1585	--	1585	--	100	--	0.1	0.3	0.6	1.1	N	N	Y	Y	Y	Y	Conservation levee – no raise	Y	Y	3	Y	
Spring Lake	141.0	12959	170	10645	2144	1	82	17	0.2	0.4	0.8	1.4	N	N	Y	N	Y	N	Raise levee to 100-yr	Y	Y	3	Y
Liverpool	141.0	3236	99	2645	492	3	82	15	0.2	0.5	0.9	1.6	N	N	N	N	N	N	Existing levee is at or above 100-yr FFF	Y	Y	3	Y
East Liverpool	130.1	2920	7	2770	143	0	95	5	0.3	0.5	0.9	1.6	N	N	N	N	N	Y	Raise levee to 500-yr	N	N		N
Lacey, Langellier, W.Matanzas, Kerton Valley	115.6	11235	143	10248	844	1	91	8	0.3	0.6	1.0	1.7	N	N	N	N	N	Y	Existing levee is at or above 100-yr FFF	Y	Y	3	Y
Seahorn	115.6	1629	32	1463	134	2	90	8	0.3	0.6	1.0	1.7	Y	N	Y	N	Y	N	Raise levee to 100-yr	Y	Y	3	Y
Big Lake	105.7	3916	26	3751	139	1	96	3	0.3	0.6	1.0	1.7	N	N	Y	N	Y	N	Raise levee to 100-yr	Y	Y	3	Y
Kelly Lake	101.7	1161	6	927	228	1	80	19	0.3	0.6	1.0	1.7	N	N	N	N	N	Y	Existing levee is at or above 100-yr FFF	Y	Y	3	Y
Hager Slough	92.0	6915	44	5693	1178	1	82	17	0.4	0.6	1.0	1.6	N	N	Y	N	Y	Y	Raise levee to 100-yr	Y	Y	3	Y
Lost Creek	89.7	3468	267	2754	447	8	79	13	0.4	0.6	1.0	1.6	N	N	N	N	N	N	Existing levee is at or above 100-yr FFF	Y	Y	3	Y
Sanitary Dist. of Beardstown	88.6	858	807	13	38	94	2	4	0.4	0.7	1.0	1.5	N	N	N	N	N	N	Raise levee to 500-yr	N	N		N
Coal Creek	88.5	6272	75	5757	440	1	92	7	0.4	0.7	1.0	1.5	N	N	N	N	N	N	Existing levee is at or above 100-yr FFF	Y	Y	3	Y
Crane Creek	84.2	4292	26	3985	281	1	93	6	0.4	0.7	1.0	1.5	N	N	N	Y	N	Y	Raise levee to 100-yr	Y	Y	3	Y
South Beardstown	84.2	8467	340	7125	1002	4	4	11	0.4	0.7	1.0	1.5	N	N	N	N	N	N	Existing levee is at or above 100-yr FFF	Y	Y	3	Y
Little Creek	76.7	1639	7	1194	438	0	73	27	0.4	0.7	1.0	1.4	Y	N	Y	N	Y	Y	Raise levee to 100-yr	Y	Y	3	Y
Meredosia Lake & Willow Creek									0.5	0.7	1.0	1.4	N	N	N	N	N	N	Existing levee is at or above 100-yr FFF	Y	Y	3	Y
McGee Creek	71.4	12605	65	11543	997	1	92	7	0.5	0.7	1.0	1.4	N	N	N	N	N	N	Existing levee is at or above 100-yr FFF	Y	Y	3	Y
Meredosia & Willow Cr	69.4	16946	1050	13029	2867	6	77	17	0.2	0.3	0.5	0.7	Y	N	Y	N	Y	N	Existing levee is at or above 100-yr FFF	Y	Y	3	Y
Coon Run	68.9	2423	7	2248	168	0	93	7	0.2	0.4	0.5	0.7	Y		Y		Y		Existing levee is at or above 100-yr FFF	Y	Y	3	Y
Smith Lake	67.2				?	?	?	?	0.3	0.4	0.5	0.8	Y	N	Y	N	Y	N	Raise levee to 100-yr	Y	Y	3	Y
Oakes	66.3	617	3	583	31	0	95	5	0.3	0.4	0.5	0.8	N		N		Y		Raise levee to 100-yr	Y	Y	3	Y
Valley City	65.1	4790	21	4218	551	0	88	12	0.3	0.4	0.5	0.8	N	N	N	N	Y	Y	Raise levee to 100-yr	Y	Y	3	Y
Mauvaise Terre	64.8	5667	168	4986	513	3	88	9	0.3	0.4	0.6	0.8	Y	N	Y	N	Y	N	Raise levee to 100-yr	Y	Y	3	Y
Robertson	63.3	852	10	721	121	1	85	14	0.3	0.4	0.6	0.9	N	N	N	N	Y	Y	Raise levee to 100-yr	Y	Y	3	Y
Scott County	59.3	11599	143	10309	1147	1	89	10	0.3	0.4	0.6	1.0	Y	N	Y	N	Y	Y	Raise levee to 100-yr	Y	Y	3	Y
Walnut Creek	56.3	500	--	500	--	100	--	0.3	0.4	0.7	1.2	N		Y		Y		Raise levee to 100-yr	Y	Y	3	Y	
Big Swan	53.6	13775	177	12937	661	1	94	5	0.3	0.5	0.8	1.3	N	N	N	Y	N	Y	Raise levee to 100-yr	Y	Y	3	Y
Hillview	46.6	13106	62	12580	464	0	96	4	0.3	0.5	0.8	1.2	Y	N	Y	N	Y	Y	Raise levee to 100-yr	Y	Y	3	Y
Village of Pearl	43.2				?	?	?	?	0.4	0.6	0.8	1.2	Y		Y		Y		Raise levee to 100-yr	Y	Y	3	Y
Hartwell	40.7	9582	16	8922	644	0	93	7	0.4	0.6	0.8	1.1	N	N	Y	N	Y	Y	Raise levee to 100-yr	Y	Y	3	Y
Keach	35.3	9304	54	8680	570	1	93	6	0.4	0.6	0.8	1.1	N	N	Y	N	Y	Y	Raise levee to 100-yr	Y	Y	3	Y
Schaefer - Farrow	32.6	802	52	715	35	5	91	4	0.4	0.6	0.8	1.1	Y	N	Y	N	Y	Y	Raise levee to 100-yr	Y	Y	3	Y
Bluffdale Farms	32.3	636	0	382	254	0	60	40	0.4	0.6	0.8	1.1	N	N	Y	N	Y	Y	Raise levee to 100-yr	Y	Y	3	Y

ATTACHMENT 35. PLAN D OPTION 3 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER
(Yellow = Areas with cost of levee improvements exceeding the value of the lands, and land use in area is <10% urban)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres			Percent Total Site			Induced Rise			Overtopping Flood Event						Flood Damage Reduction Feature	Cost of Levee Exceeds Cost of Lands (Y/N)	D&LD Less Than 10% Urban (Y/N)	OPTION 3: ER OPPORTUNITY (Y/N)	
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	Without	With	Without	With	Without	With				
Dubuque	580.60	1084	973	0	111	90	0	10	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Existing levee is adequate	N	N	N
Sabula	535.00	561	110	11	440	20	2	78	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Raise levee to 500-yr	Y	N	N
REACH 1 SUBTOTALS	0	0	0	0															--	--	--	--
Fulton	519.80	6803	1440	3800	1563	21	56	23	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Existing levee is adequate	N	N	N
Clinton	517.30	1891	1687	74	130	89	0	11	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Existing levee is adequate	Y	N	N
Meredosia	511.50	10493	187	8899	1407	2	85	13	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Raise levee to 100-yr FFF	N	Y	N
East Moline	489.30	960	838	16	106	87	2	11	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Existing levee is adequate	Y	N	N
Bettendorf	486.60	427	387	0	40	91	0	9	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Existing levee is adequate	N	N	N
Rock Island	481.20	823	678	0	145	82	0	18	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Raise levee to 500-yr	Y	N	N
Milan	478.50	2202	851	454	897	39	21	40	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Existing levee is adequate	N	N	N
Andalusia	473.40	105	0	5	100	0	5	95	0.0	0.0	0.0	0.0	N	N	N	Y	Y	Y	Raise levee to 100-yr FFF	Y	N	N
Muscatine/Mad Creek	456.00	1	1	0	0	100	0	0	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Raise levee to 500-yr	N	N	N
Drury	455.20	5077	69	4463	545	1	88	11	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Existing levee is at or above plan design level	N	Y	N
Muscatine Island	448.40	30099	4711	19360	6028	16	64	20	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Existing levee is adequate	N	N	N
Bay Island	442.60	19974	133	17076	2765	1	85	14	0.0	0.0	0.0	0.0	N	N	N	N	N	Y	Raise levee to 100-yr	N	Y	N
Iowa R-Flint Cr	427.90	45528	1251	39883	4394	3	88	9	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Existing levee is at or above plan design level	N	Y	N
Keithsburg	427.60	119	111	0	8	93	0	7	0.0	0.0	0.0	0.0	N	N	N	N	N	Y	Raise levee to 100-yr FFF	Y	N	N
Henderson #1	407.30	8488	299	6071	2118	4	72	24	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Raise levee to 100-yr FFF	N	Y	N
Henderson #2	402.40	8681	249	7188	1244	3	83	14	0.0	0.0	0.0	0.0	N	N	N	N	N	Y	Raise levee to 100-yr FFF	N	Y	N
Green Bay	391.00	15160	473	13368	1319	0	12	88	0.0	0.0	0.0	0.0	Y	N	Y	Y	Y	Y	Raise levee to 100-yr FFF	N	Y	N
REACH 2 SUBTOTALS	0	0	0	0															--	--	--	--
Des Moines/Mississippi	358.95	8525	236	7544	745	3	88	9	0.0	0.0	0.0	0.1	N	N	N	N	N	N	Existing levee is at or above plan design level	N	Y	N
Mississippi & Fox	357.75	8657	57	7800	800	1	90	9	0.0	0.0	0.0	0.1	N	N	N	N	N	Y	Raise levee to 100-yr FFF	N	Y	N
Hunt-Lima	351.65	17012	124	16010	878	1	94	5	0.0	0.0	0.0	0.1	N	N	N	N	N	Y	Existing levee is at or above plan design level	N	Y	N
Gregory	351.25	8975	37	7183	1755	0	80	20	0.0	0.0	0.0	0.1	N	N	N	N	N	Y	Existing levee is at or above plan design level	N	Y	N
Canton	342.00	592	385	100	107	65	17	18	0.0	0.0	0.1	0.1	N	N	N	N	N	N	Raise levee to 500-yr	Y	N	N
Indian Grave	338.75	19615	142	18093	1380	1	92	7	0.0	0.0	0.1	0.1	N	N	N	N	N	N	Existing levee is at or above plan design level	N	Y	N
Union Township	333.30	4007	147	2784	1076	4	69	27	0.0	0.0	0.1	0.1	N	N	N	N	N	Y	Raise levee to 100-yr FFF	N	Y	N
Fabius	327.75	15065	345	13302	1418	2	88	10	0.0	0.1	0.1	0.1	N	N	N	N	N	Y	Raise levee to 100-yr FFF	N	Y	N

ATTACHMENT 35. PLAN D OPTION 3 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER (CONTINUED)
(Yellow = Areas with cost of levee improvements exceeding the value of the lands, and land use in area is <10% urban)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres		Percent Total Site			Induced Rise			Overtopping Flood EventY						Flood Damage Reduction Feature	Cost of Levee Raise Exceeds Cost of Lands	Easements Not Required (Y/N)	OPTION 3: ER OPPORTUNITY (Y/N)				
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	Without	With	Without	With	Without	With						
Marion County	322.40	4102	6	3800	296	0	93	7	0.0	0.1	0.1	0.2	N	N	N	N	Y	N	Y	Y	Raise levee to 100-yr FFF	N	Y	N
South Quincy	321.70	5767	578	3759	1430	10	65	25	0.0	0.1	0.1	0.2	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	N
South River Industrial	319.00	1626	1626	0	0	100	--	--	0.0	0.1	0.1	0.2	N	N	N	N	N	N	N	N	Existing levee is adequate	N	--	N
South River	315.65	10155	313	8652	1190	3	85	12	0.1	0.1	0.2	0.3	N	N	N	N	N	N	Y	Y	Raise levee to 100-yr FFF	N	Y	N
Hannibal	309.50	40	40	0	0	100	0	0	0.1	0.1	0.2	0.3	N	N	N	N	N	N	N	N	Existing levee is adequate	Y	N	N
Sny Island Reach I	307.60	44571	632	39663	4276	1	89	10	0.1	0.1	0.1	0.3	N	N	N	N	N	N	Y	Y	Raise levee to 100-yr FFF	N	Y	N
Riverland Private Levee		2758	2	1501	1255	54	46		0.1	0.1	0.2	N	N	Y	N	Y	N	Y	Y	Raise levee to 100-yr FFF	N	Y	N	
Sny Island Reach II	292.45	17277	189	15912	1176	1	92	7	0.1	0.1	0.1	0.2	N	N	N	Y	N	Y	Y	Y	Remains at existing conditions	N	Y	N
Sny Island Reach III	282.25	43098	370	35711	7017	1	83	16	0.1	0.2	0.2	0.3	N	N	N	N	N	N	Y	N	Raise levee to 100-yr FFF	N	Y	N
Petus-Burns-Prewitt-Jeager	271.60	501	10	420	71	2	84	14	0.1	0.2	0.2	0.3	Y	N	Y	N	Y	N	Y	Y	Raise levee to 100-yr FFF	Y	Y	Y
Clarksville Levees	269.04	2151	2	1675	474	0	78	22	0.3	0.4	0.4	0.5	N	N	N	N	N	N	Y	Y	Raise levee to 100-yr FFF	Y	Y	Y
Sny Island Reach IV	268.75	11518	44	9586	1888	0	83	17	0.3	0.4	0.4	0.5	N	N	N	N	N	N	N	N	Existing levee is at or above plan design level	N	Y	N
Kissinger Levee District	266.41	2498	4	2148	346	0	86	14	0.4	0.5	0.5	0.6	N	N	N	N	N	N	Y	Y	Raise levee to 100-yr FFF	Y	Y	Y
Busch-Goose Pasture Farms	264.10	447	1	341	105	0	76	24	0.5	0.6	0.6	0.7	N	N	Y	N	Y	N	Y	Y	Raise levee to 100-yr FFF	Y	Y	Y
Cannon Wildlife Refuge	262.24	3477	3	1141	2333	0	33	67	0.6	0.7	0.7	0.8	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	N	Y	N
Annada	262.22	3320	25	1554	1741	1	47	52	0.6	0.7	0.8	0.8	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	N	Y	N
Elsberry Drainage District	255.94	18502	138	16254	2110	1	88	11	0.6	0.6	0.7	0.7	N	N	N	N	N	N	Y	Y	Raise levee to 100-yr FFF	Y	Y	Y
Elsberry Drainage District-A		3212	21	1108	2083	1	34	65													--	--	--	
Kings Lake Drainage District	249.04	1082	21	806	255	2	74	24	0.5	0.6	0.5	0.4	Y	N	Y	N	Y	Y	Y	Y	Raise levee to 100-yr FFF	Y	Y	Y
Sandy Creek D. District	245.70	1168	98	947	123	8	81	11	0.5	0.5	0.5	0.3	Y	N	Y	N	Y	N	Y	N	Raise levee to 100-yr FFF	Y	Y	Y
Foley Drainage District	245.03	4812	241	3898	674	5	81	14	0.5	0.5	0.5	0.3	Y	N	Y	N	Y	N	Y	Y	Raise levee to 100-yr FFF	Y	Y	Y
Cap Au Gris D&LD	241.16	1661	56	1480	125	3	89	8	0.5	0.5	0.4	0.3	Y	N	Y	N	Y	N	Y	Y	Raise levee to 100-yr FFF	Y	Y	Y
Winfield D&LD	238.88	2092	92	1744	256	4	83	13	0.5	0.5	0.5	0.3	Y	N	Y	N	Y	N	Y	N	Raise levee to 100-yr FFF	N	Y	N
Brevator D&LD	238.08	273	1	210	62	0	77	23	0.5	0.6	0.5	0.3	Y	N	Y	N	Y	N	Y	Y	Raise levee to 100-yr FFF	Y	Y	Y
Schramm Private Levee	237.25	802	60	700	42	7	87	6	0.5	0.6	0.5	0.3	Y	N	Y	N	Y	N	Y	Y	Raise levee to 100-yr FFF	Y	Y	Y
Old Monroe Private Levee	236.75	196	1	182	13	1	93	6	0.5	0.6	0.5	0.4	Y	N	Y	N	Y	N	Y	Y	Raise levee to 100-yr FFF	Y	Y	Y
Heilman Private Levee	236.39	888	7	817	64	44	45	11	0.5	0.6	0.6	0.4	Y	N	Y	N	Y	N	Y	Y	Raise levee to 100-yr FFF	Y	Y	Y
Marstan-Portuchek Private L.	236.09								0.5	0.6	0.6	0.4	Y	N	Y	N	Y	N	Y	Y	Raise levee to 100-yr FFF	Y	N	N
St. Peters Drainage Association No. 1/Urban	230.02	1098	202	662	234	18	60	22	0.5	0.6	0.6	0.6	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	N	N
Consolidated North County Levee District	206.25	18706	881	15280	2545	3	51	46	0.5	0.7	0.8	1.0	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	N	Y	N
Wood River	198.05	11325	6438	3019	1868	57	27	16	0.5	0.7	0.9	1.1	N	N	N	N	N	N	N	N	Existing levee is adequate	N	N	N
Columbia Bottoms Levee	194.15	4434	70	4030	334	2	10	88	0.5	0.7	0.9	1.2	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	N	Y	N

ATTACHMENT 35. PLAN D OPTION 3 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER (CONTINUED)
(Yellow = Areas with cost of levee improvements exceeding the value of the lands, and land use in area is <10% urban)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres		Percent Total Site		Induced Rise			Overtopping Flood Event						Flood Damage Reduction Feature	Cost of Levee Raise Exceeds Cost of Lands (Y/N)	D&LD Less Than 10% Urban (Y/N)	OPTION 3: ER OPPORTUNITY (Y/N)					
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	Without	With	Without	With	Without	With	Without	With				
Chouteau Island D&LD	191.19	2033	236	914	883	12	45	43	0.5	0.7	1.0	1.3	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	Y	Y	Y
Chouteau, Nameoki and Venice D&LD	189.89	4800	--	4800	--	100	--	0.5	0.7	1.0	1.3	N	N	N	N	N	N	N	N	N	Existing levee is adequate	N	N	N
Gabaret/Cabrolet Island D&LD	187.32	776	3	673	100	0	87	13	0.5	0.7	1.0	1.3	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	N	Y	N
St. Louis Flood Protection Project	181.69	3003	2750	0	253	92	0	8	0.5	0.7	0.9	1.2	N	N	N	N	N	N	N	N	Existing levee is adequate	Y	N	N
Metro East Sanitary Dist.	179.35	86031	36418	27607	22006	42	32	26	0.5	0.7	0.9	1.2	N	N	N	N	N	N	N	N	Existing levee is adequate	N	N	N
Prairie du Pont	170.71	12766	2103	8755	1908	16	69	15	0.5	0.8	1.1	1.5	Y	N	Y	N	Y	N	Y	N	Existing levee is adequate	N	N	N
Columbia	160.89	13730	212	12640	878	2	92	6	0.5	0.8	1.1	1.6	N	N	N	N	N	N	Y	Y	Raise levee to 100-yr FFF	N	Y	N
Harrisonville	142.89	26836	612	24068	2156	2	90	8	0.5	0.7	1.0	1.4	N	N	N	N	N	N	N	N	Existing levee is at or above plan design level	N	Y	N
Stringtown	139.50	2673	40	2570	63	1	96	3	0.5	0.7	0.9	1.3	N	N	N	N	N	N	N	N	Existing levee is at or above plan design level	N	Y	N
Fort Chartres & Ivy Landing	134.00	15232	268	13283	1681	2	87	2	0.5	0.6	0.8	1.1	N	N	N	N	N	N	N	N	Existing levee is at or above plan design level	N	Y	N
Prairie Du Rocher & Modoc	124.45	15891	251	14449	1191	2	91	7	0.5	0.6	0.8	1.0	N	N	N	N	N	N	Y	N	Existing levee is at or above plan design level	N	Y	N
Ste. Genevieve Urban Levee	123.75				--	--	--	--	0.5	0.6	0.8	1.0	N	N	N	N	N	N	N	N	Raise levee to 500-year	Y	N	N
Ste. Genevieve Levee District No. 2	119.51	7852	11	7178	663	0	92	8	0.5	0.7	0.8	1.1	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	N	Y	N
Kaskaskia Island	113.40	9365	125	8755	485	1	93	6	0.5	0.7	0.9	1.3	N	N	N	N	N	N	Y	N	Existing levee is at or above plan design level	N	Y	N
Bois Brule	103.22	26483	490	24710	1283	2	93	5	0.5	0.7	0.9	1.1	N	N	N	N	Y	Y	Y	Y	Raise levee to 100-yr FFF	N	Y	N
Degognia & Fountain Bluff	91.75	39121	1073	32764	5284	3	84	13	0.5	0.7	0.9	1.1	N	N	N	N	N	Y	Y	Y	Existing levee is at or above plan design level	N	Y	N
Grand Tower	78.90	14438	399	7196	6843	3	50	47	0.4	0.5	0.6	0.7	N	N	N	N	N	Y	Y	Y	Existing levee is at or above plan design level	N	Y	N
Miller Pond	70.75	16104	351	11454	4299	2	71	27	0.3	0.4	0.5	0.5	N	N	N	N	N	Y	Y	Y	Existing levee is at or above plan design level	N	Y	N
Preston	70.73	3790	30	3465	295	1	91	8	0.3	0.4	0.5	0.5	N	N	N	N	N	Y	Y	Y	Existing levee is at or above plan design level	N	Y	N
Clear Creek	61.02	15882	284	10387	5211	2	65	33	0.3	0.3	0.3	0.3	N	N	N	N	N	Y	Y	Y	Existing levee is at or above plan design level	N	Y	N
Cape Girardeau	52.15	22	4	0	18	3	0	97	0.2	0.3	0.3	0.2	N	N	N	N	N	N	N	N	Existing levee is adequate	N	Y	N
E. Cape Girardeau & Clear Creek	51.47	3019	62	1370	1587	2	45	53	0.2	0.3	0.2	0.2	N	N	N	N	N	Y	Y	Y	Existing levee is at or above plan design level	N	Y	N
N. Alexander Co.	51.45	10410	349	7364	2697	3	71	26	0.2	0.3	0.2	0.2	N	N	N	N	N	Y	Y	Y	Existing levee is at or above plan design level	N	Y	N
New Levee (Hubble Creek)									0.2	0.3	0.2	0.1	N	N	N	Y	Y	Y	Y	New levee	Y	Y	Y	
REACH 3 SUBTOTALS	--	37015	876	30792	5347								--	--	--	--	--	--	--	--	--	--	--	

ATTACHMENT 36. PLAN D OPTION 3 ER LOCATION OPPORTUNITIES FOR ILLINOIS RIVER
(Yellow = Areas with cost of levee improvements exceeding the value of the lands, and land use in area is <10% urban)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres			Percent Total Site			Induced Rise			Overtopping Flood Event						Flood Damage Reduction Feature	Cost of Levee Raise Exceeds Cost of Lands (Y/N)	D&LD Less than 10% Urban (Y/N)	OPTION 3: ER OPPORTUNITY (Y/N)	
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	Without	With	Without	With	Without	With				
Ottawa	239.9								0.0	0.0	0.0	0.0	N	N	N	N	N	N	Raise levee to 500-yr	N	--	N
East Peoria Sanitary District	162.4	296	223	0	73	76	0	24	0.1	0.1	0.1	0.2	N	N	N	N	N	N	Raise levee to 500-yr	N	N	N
East Peoria	161.2	1092	940	0	152	86	0	14	0.1	0.1	0.2	0.4	N	N	N	N	N	N	Raise levee to 500-yr	Y	N	N
North Pekin	161.2				?	?	?	?	0.1	0.2	0.4	0.7	N	N	N	N	N	N	Raise levee to 100-yr	--	--	--
Pekin-LaMarsh	152.4	2686	262	2046	378	10	76	14	0.1	0.2	0.5	0.9	N	N	Y	N	Y	N	Raise levee to 100-yr	N	Y	N
Rocky Ford	152.4	1585	--	1585	--	100	--	0.1	0.3	0.6	1.1	N	N	Y	Y	Y	Y	Conservation levee – no raise	--	--	--	
Spring Lake	141.0	12959	170	10645	2144	1	82	17	0.2	0.4	0.8	1.4	N	N	Y	N	Y	Y	Raise levee to 100-yr	N	Y	N
East Liverpool	141.0	3236	99	2645	492	3	82	15	0.2	0.5	0.9	1.6	N	N	N	N	N	N	Existing levee is at or above 100-yr FFF	Y	Y	Y
Liverpool	130.1	2920	7	2770	143	0	95	5	0.3	0.5	0.9	1.6	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	N
Lacey, Langellier, W.Matanzas, Kerton Valley	115.6	11235	143	10248	844	1	91	8	0.3	0.6	1.0	1.7	N	N	N	N	N	N	Existing levee is at or above 100-yr FFF	N	Y	N
Seahorn	115.6	1629	32	1463	134	2	90	8	0.3	0.6	1.0	1.7	Y	N	Y	N	Y	N	Raise levee to 100-yr	N	Y	N
Big Lake	105.7	3916	26	3751	139	1	96	3	0.3	0.6	1.0	1.7	N	N	Y	N	Y	Y	Raise levee to 100-yr	N	Y	N
Kelly Lake	101.7	1161	6	927	228	1	80	19	0.3	0.6	1.0	1.7	N	N	N	N	N	N	Existing levee is at or above 100-yr FFF	Y	Y	Y
Hager Slough	92.0	6915	44	5693	1178	1	82	17	0.4	0.6	1.0	1.6	N	N	Y	N	Y	N	Raise levee to 100-yr	N	Y	N
Lost Creek	89.7	3468	267	2754	447	8	79	13	0.4	0.6	1.0	1.6	N	N	N	N	N	N	Existing levee is at or above 100-yr FFF	Y	Y	Y
Sanitary Dist. of Beardstown	88.6	858	807	13	38	94	2	4	0.4	0.7	1.0	1.5	N	N	N	N	N	N	Raise levee to 500-yr	Y	N	N
Coal Creek	88.5	6272	75	5757	440	1	92	7	0.4	0.7	1.0	1.5	N	N	N	N	N	N	Existing levee is at or above 100-yr FFF	N	Y	N
Crane Creek	84.2	4292	26	3985	281	1	93	6	0.4	0.7	1.0	1.5	N	N	N	Y	N	Y	Raise levee to 100-yr	--	--	--
South Beardstown	84.2	8467	340	7125	1002	4	4	11	0.4	0.7	1.0	1.5	N	N	N	N	N	N	Existing levee is at or above 100-yr FFF	N	N	N
Little Creek	76.7	1639	7	1194	438	0	73	27	0.4	0.7	1.0	1.4	Y	N	Y	N	Y	Y	Raise levee to 100-yr	Y	Y	Y
Meredosia Lake & Willow Creek									0.5	0.7	1.0	1.4	N	N	N	N	N	N	Existing levee is at or above 100-yr FFF	N	Y	N
McGee Creek	71.4	12605	65	11543	997	1	92	7	0.5	0.7	1.0	1.4	N	N	N	N	N	N	Existing levee is at or above 100-yr FFF	N	Y	N
Meredosia & Willow Cr	69.4	16946	1050	13029	2867	6	77	17	0.2	0.3	0.5	0.7	Y	N	Y	N	Y	N	Existing levee is at or above 100-yr FFF	N	Y	N
Coon Run	68.9	2423	7	2248	168	0	93	7	0.2	0.4	0.5	0.7	Y		Y		Y		Existing levee is at or above 100-yr FFF	N	Y	N
Smith Lake	67.2					?	?	?	0.3	0.4	0.5	0.8	Y	N	Y	N	Y	N	Raise levee to 100-yr	N	--	N
Oakes	66.3	617	3	583	31	0	95	5	0.3	0.4	0.5	0.8	N		N		Y	Y	Raise levee to 100-yr	Y	Y	Y
Valley City	65.1	4790	21	4218	551	0	88	12	0.3	0.4	0.5	0.8	N	N	N	N	N	Y	Raise levee to 100-yr	Y	Y	Y
Mauvaise Terre	64.8	5667	168	4986	513	3	88	9	0.3	0.4	0.6	0.8	Y	N	Y	N	Y	N	Raise levee to 100-yr	N	Y	N
Robertson	63.3	852	10	721	121	1	85	14	0.3	0.4	0.6	0.9	N	N	N	N	N	Y	Raise levee to 100-yr	Y	Y	Y
Scott County	59.3	11599	143	10309	1147	1	89	10	0.3	0.4	0.6	1.0	Y	N	Y	N	Y	Y	Raise levee to 100-yr	Y	Y	Y
Walnut Creek	56.3	500	--	500	--	100	--	0.3	0.4	0.7	1.2	N		Y		Y		Raise levee to 100-yr	Y	--	N	
Big Swan	53.6	13775	177	12937	661	1	94	5	0.3	0.5	0.8	1.3	N	N	N	Y	N	Y	Raise levee to 100-yr	Y	Y	Y
Hillview	46.6	13106	62	12580	464	0	96	4	0.3	0.5	0.8	1.2	Y	N	Y	N	Y	Y	Raise levee to 100-yr	Y	Y	Y
Village of Pearl	43.2					?	?	?	0.4	0.6	0.8	1.2	Y		Y		Y		Raise levee to 100-yr	Y	--	N
Hartwell	40.7	9582	16	8922	644	0	93	7	0.4	0.6	0.8	1.1	N	N	Y	N	Y	Y	Raise levee to 100-yr	Y	Y	Y
Keach	35.3	9304	54	8680	570	1	93	6	0.4	0.6	0.8	1.1	N	N	Y	N	Y	Y	Raise levee to 100-yr	Y	Y	Y
Schaefer - Farrow	32.6	802	52	715	35	5	91	4	0.4	0.6	0.8	1.1	Y	N	Y	N	Y	Y	Raise levee to 100-yr	Y	Y	Y
Bluffdale Farms	32.3	636	0	382	254	0	60	40	0.4	0.6	0.8	1.1	N	N	N	Y	Y	Y	Raise levee to 100-yr	Y	Y	Y
Eldred - Spankey DL	28.1	10336	51	9822	463	1	95	4	0.4	0.6	0.8	1.0	N	N	Y	N	Y	Y	Raise levee to 100-yr	Y	Y	Y
Nutwood	19.4	10679	111	9887	681	1	93	6	0.5	0.6	0.8	1.0	N	N	N							

ATTACHMENT 37. PLAN D OPTION 4 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER
(Yellow = Areas with <100-Year level of protection with a project in place, without flowage easements, but with a levee raise required)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres		Percent Total Site		Induced Rise			Overtopping Flood Event						Flood Damage Reduction Feature	Less Than 100-Yr Protection Level (Y/N)	Easements Not Required (Y/N)	Levee Raise Required (Y/N)	OPTION 4: ER OPPORTUNITY (Y/N)			
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	Without	With	Without	With	Without	With					
Dubuque	580.60	1084	973	0	111	90	0	10	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Existing levee is adequate	N	Y	N	N
Sabula	535.00	561	110	11	440	20	2	78	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	Y	N
REACH 1 SUBTOTALS	0	0	0	0																			
Fulton	519.80	6803	1440	3800	1563	21	56	23	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Existing levee is adequate	N	Y	N	N
Clinton	517.30	1891	1687	74	130	89	0	11	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Existing levee is adequate	N	Y	N	N
Meredosia	511.50	10493	187	8899	1407	2	85	13	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Raise levee to 100-yr FFF	Y	N	Y	N
East Moline	489.30	960	838	16	106	87	2	11	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Existing levee is adequate	N	Y	N	N
Bettendorf	486.60	427	387	0	40	91	0	9	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Existing levee is adequate	N	Y	N	N
Rock Island	481.20	823	678	0	145	82	0	18	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	Y	N
Milan	478.50	2202	851	454	897	39	21	40	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Existing levee is adequate	N	Y	N	N
Andalusia	473.40	105	0	5	100	0	5	95	0.0	0.0	0.0	0.0	N	N	N	Y	Y	Y	Raise levee to 100-yr FFF	Y	N	Y	N
Muscatine/Mad Creek	456.00	1	1	0	0	100	0	0	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	Y	N
Drury	455.20	5077	69	4463	545	1	88	11	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Existing levee is at or above plan design level	N	N	N	N
Muscatine Island	448.40	30099	4711	19360	6028	16	64	20	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Existing levee is adequate	N	Y	N	N
Bay Island	442.60	19974	133	17076	2765	1	85	14	0.0	0.0	0.0	0.0	N	N	N	N	N	Y	Raise levee to 100-yr	Y	N	Y	N
Iowa R-Flint Cr	427.90	45528	1251	39883	4394	3	88	9	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Existing levee is at or above plan design level	N	N	N	N
Keithsburg	427.60	119	111	0	8	93	0	7	0.0	0.0	0.0	0.0	N	N	N	N	Y	Y	Raise levee to 100-yr FFF	Y	N	Y	N
Henderson #1	407.30	8488	299	6071	2118	4	72	24	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Raise levee to 100-yr FFF	Y	N	Y	N
Henderson #2	402.40	8681	249	7188	1244	3	83	14	0.0	0.0	0.0	0.0	N	N	N	N	N	Y	Raise levee to 100-yr FFF	Y	N	Y	N
Green Bay	391.00	15160	473	13368	1319	0	12	88	0.0	0.0	0.0	0.0	Y	N	Y	Y	Y	Y	Raise levee to 100-yr FFF	Y	N	Y	N
REACH 2 SUBTOTALS	0	0	0	0																			
Des Moines/Mississippi	358.95	8525	236	7544	745	3	88	9	0.0	0.0	0.0	0.1	N	N	N	N	N	N	Existing levee is at or above plan design level	N	N	N	N
Mississippi & Fox	357.75	8657	57	7800	800	1	90	9	0.0	0.0	0.0	0.1	N	N	N	N	N	Y	Raise levee to 100-yr FFF	Y	N	Y	N
Hunt-Lima	351.65	17012	124	16010	878	1	94	5	0.0	0.0	0.0	0.1	N	N	N	N	N	Y	Existing levee is at or above plan design level	N	N	N	N
Gregory	351.25	8975	37	7183	1755	0	80	20	0.0	0.0	0.0	0.1	N	N	N	N	N	Y	Existing levee is at or above plan design level	N	N	N	N
Canton	342.00	592	385	100	107	65	17	18	0.0	0.0	0.1	0.1	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	Y	N
Indian Grave	338.75	19615	142	18093	1380	1	92	7	0.0	0.0	0.1	0.1	N	N	N	N	N	N	Existing levee is at or above plan design level	N	N	N	N
Union Township	333.30	4007	147	2784	1076	4	69	27	0.0	0.0	0.1	0.1	N	N	N	N	N	Y	Raise levee to 100-yr FFF	Y	N	Y	N
Fabius	327.75	15065	345	13302	1418	2	88	10	0.0	0.1	0.1	0.1	N	N	N	N	N	Y	Raise levee to 100-yr FFF	Y	N	Y	N

ATTACHMENT 37. PLAN D OPTION 4 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER (CONTINUED)
(Yellow = Areas with <100-Year level of protection with a project in place, without flowage easements, but with a levee raise required)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres		Percent Total Site		Induced Rise			Overtopping Flood EventY						Flood Damage Reduction Feature	Less Than 100-Yr Protection Level (Y/N)	Easements Not Required (Y/N)	Levee Raise Required (Y/N)	OPTION 4: ER OPPORTUNITY (Y/N)					
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	Without	With	Without	With	Without	With	Without	With					
Marion County	322.40	4102	6	3800	296	0	93	7	0.0	0.1	0.1	0.2	N	N	N	N	Y	N	Y	Y	Raise levee to 100-yr FFF	Y	N	Y	N
South Quincy	321.70	5767	578	3759	1430	10	65	25	0.0	0.1	0.1	0.2	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	Y	N
South River Industrial	319.00	1626	1626	0	0	100	--	--	0.0	0.1	0.1	0.2	N	N	N	N	N	N	N	N	Existing levee is adequate	N	Y	N	N
South River	315.65	10155	313	8652	1190	3	85	12	0.1	0.1	0.2	0.3	N	N	N	N	N	N	Y	Y	Raise levee to 100-yr FFF	Y	N	Y	N
Hannibal	309.50	40	40	0	0	100	0	0	0.1	0.1	0.2	0.3	N	N	N	N	N	N	N	N	Existing levee is adequate	N	Y	N	N
Sny Island Reach I	307.60	44571	632	39663	4276	1	89	10	0.1	0.1	0.1	0.3	N	N	N	N	N	N	Y	Y	Raise levee to 100-yr FFF	Y	N	Y	N
Riverland		2758	2	1501	1255	54	46		0.1	0.1	0.2	N	N	Y	N	Y	N	Y	Y	Raise levee to 100-yr FFF	Y	N	Y	N	
Sny Island Reach II	292.45	17277	189	15912	1176	1	92	7	0.1	0.1	0.1	0.2	N	N	N	Y	N	Y	Y	Y	Remains at existing conditions	N	N	N	N
Sny Island Reach III	282.25	43098	370	35711	7017	1	83	16	0.1	0.2	0.2	0.3	N	N	N	N	N	N	Y	N	Raise levee to 100-yr FFF	Y	N	Y	N
Petus-Burns-Prewitt-Jeager	271.60	501	10	420	71	2	84	14	0.1	0.2	0.2	0.3	Y	N	Y	N	Y	N	Y	Y	Raise levee to 100-yr FFF	Y	N	Y	N
Clarksville Levees	269.04	2151	2	1675	474	0	78	22	0.3	0.4	0.4	0.5	N	N	N	N	N	N	Y	Y	Raise levee to 100-yr FFF	Y	N	Y	N
Sny Island Reach IV	268.75	11518	44	9586	1888	0	83	17	0.3	0.4	0.4	0.5	N	N	N	N	N	N	N	N	Existing levee is at or above plan design level	N	N	N	N
Kissinger Levee District	266.41	2498	4	2148	346	0	86	14	0.4	0.5	0.5	0.6	N	N	N	N	N	N	Y	Y	Raise levee to 100-yr FFF	Y	N	Y	N
Busch-Goose Pasture Farms	264.10	447	1	341	105	0	76	24	0.5	0.6	0.6	0.7	N	N	Y	N	Y	N	Y	Y	Raise levee to 100-yr FFF	Y	N	Y	N
Cannon Wildlife Refuge	262.24	3477	3	1141	2333	0	33	67	0.6	0.7	0.7	0.8	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	Y	N	N	N
Annada	262.22	3320	25	1554	1741	1	47	52	0.6	0.7	0.8	0.8	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	Y	N	N	N
Elsberry Drainage District	255.94	18502	138	16254	2110	1	88	11	0.6	0.6	0.7	0.7	N	N	N	N	N	Y	Y	Raise levee to 100-yr FFF	Y	N	Y	N	
Kings Lake Drainage District	249.04	3212	21	1108	2083	1	34	65	0.5	0.6	0.5	0.4	Y	N	Y	N	Y	Y	Y	Y	Raise levee to 100-yr FFF	Y	N	Y	N
Sandy Creek D. District	245.70	1082	21	806	255	2	74	24	0.5	0.5	0.5	0.3	Y	N	Y	N	Y	N	Y	N	Raise levee to 100-yr FFF	Y	N	Y	N
Foley Drainage District	245.03	1168	98	947	123	8	81	11	0.5	0.5	0.5	0.3	Y	N	Y	N	Y	N	Y	Y	Raise levee to 100-yr FFF	Y	N	Y	N
Cap Au Gris D&LD	241.16	4812	241	3898	674	5	81	14	0.5	0.5	0.4	0.3	Y	N	Y	N	Y	N	Y	Y	Raise levee to 100-yr FFF	Y	N	Y	N
Winfield D&LD	238.88	1661	56	1480	125	3	89	8	0.5	0.5	0.5	0.3	Y	N	Y	N	Y	N	Y	N	Raise levee to 100-yr FFF	Y	N	Y	N
Brevator D&LD	238.08	2092	92	1744	256	4	83	13	0.5	0.6	0.5	0.3	Y	N	Y	N	Y	N	Y	Y	Raise levee to 100-yr FFF	Y	N	Y	N
Schramm Private Levee	237.25	273	1	210	62	0	77	23	0.5	0.6	0.5	0.3	Y	N	Y	N	Y	N	Y	Y	Raise levee to 100-yr FFF	Y	N	Y	N
Old Monroe Private Levee	236.75	802	60	700	42	7	87	6	0.5	0.6	0.5	0.4	Y	N	Y	N	Y	N	Y	Y	Raise levee to 100-yr FFF	Y	N	Y	N
Heitman Private Levee	236.39	196	1	182	13	1	93	6	0.5	0.6	0.6	0.4	Y	N	Y	N	Y	N	Y	Y	Raise levee to 100-yr FFF	Y	N	Y	N
Marstan-Portuchek Private L.	236.09	888	7	817	64	44	45	11	0.5	0.6	0.6	0.4	Y	N	Y	N	Y	N	Y	Y	Raise levee to 100-yr FFF	Y	N	Y	N
New Levee—Perquie Creek									0.0	0.2	0.2	0.1	N	N	N	N	N	N	N	New levee	Y	N	Y	N	
St. Peters Drainage Association No. 1/Urban	230.02	1098	202	662	234	18	60	22	0.5	0.6	0.6	0.6	N	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	Y	N	
Consolidated North County Levee District	206.25	18706	881	15280	2545	3	51	46	0.5	0.7	0.8	1.0	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	Y	N	N	N
Wood River	198.05	11325	6438	3019	1868	57	27	16	0.5	0.7	0.9	1.1	N	N	N	N	N	N	N	N	Existing levee is adequate	N	Y	N	N
Columbia Bottoms Levee	194.15	4434	70	4030	334	2	10	88	0.5	0.7	0.9	1.2	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	N	N	N	N

ATTACHMENT 37. PLAN D OPTION 4 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER (CONTINUED)
(Yellow = Areas with <100-Year level of protection with a project in place, without flowage easements, but with a levee raise required)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres		Percent Total Site		Induced Rise			Overtopping Flood Event						Flood Damage Reduction Feature	Less Than 100-Yr Protection Level (Y/N)	Easements Not Required (Y/N)	Levee Raise Required (Y/N)	OPTION 4: ER OPPORTUNITY (Y/N)				
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	Without	With	Without	With	Without	With	Without	With				
Chouteau Island D&LD	191.19	191.19	2033	236	914	883	12	45	0.5	0.7	1.0	1.3	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	Y	N	N
Chouteau, Nameoki and Venice D&LD	189.89	189.89	4800	--	4800	--	--	100	0.5	0.7	1.0	1.3	N	N	N	N	N	N	N	N	Existing levee is adequate	N	N	N
Gabaret/Cabrolet Island D&LD	187.32	187.32	776	3	673	100	0	87	0.5	0.7	1.0	1.3	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	Y	N	N
St. Louis Flood Protection Project	181.69	181.69	3003	2750	0	253	92	0	0.5	0.7	0.9	1.2	N	N	N	N	N	N	N	N	Existing levee is adequate	N	Y	N
Metro East Sanitary Dist.	179.35	179.35	86031	36418	27607	22006	42	32	0.5	0.7	0.9	1.2	N	N	N	N	N	N	N	N	Existing levee is adequate	N	Y	N
Prairie du Pont	170.71	170.71	12766	2103	8755	1908	16	69	0.5	0.8	1.1	1.5	Y	N	Y	N	Y	N	Y	N	Existing levee is adequate	N	Y	N
Columbia	160.89	160.89	13730	212	12640	878	2	92	0.5	0.8	1.1	1.6	N	N	N	N	N	Y	Y	Raise levee to 100-yr FFF	Y	N	Y	
Harrisonville	142.89	142.89	26836	612	24068	2156	2	90	0.5	0.7	1.0	1.4	N	N	N	N	N	N	N	Existing levee is at or above plan design level	N	N	N	
Stringtown	139.50	139.50	2673	40	2570	63	1	96	0.5	0.7	0.9	1.3	N	N	N	N	N	N	N	Existing levee is at or above plan design level	Y	N	N	
Fort Chartres & Ivy Landing	134.00	134.00	15232	268	13283	1681	2	87	0.5	0.6	0.8	1.1	N	N	N	N	N	N	N	Existing levee is at or above plan design level	Y	N	N	
Prairie Du Rocher & Modoc	124.45	124.45	15891	251	14449	1191	2	91	0.5	0.6	0.8	1.0	N	N	N	N	N	N	Y	Existing levee is at or above plan design level	N	N	N	
Ste. Genevieve Urban Levee	123.75	123.75				--	--	--	0.5	0.6	0.8	1.0	N	N	N	N	N	N	N	Raise levee to 500-year	N	Y	Y	
Ste. Genevieve Levee District No. 2	119.51	119.51	7852	11	7178	663	0	92	0.5	0.7	0.8	1.1	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	Y	N	N	
Kaskaskia Island	113.40	113.40	9365	125	8755	485	1	93	0.5	0.7	0.9	1.3	N	N	N	N	N	N	Y	Existing levee is at or above plan design level	N	N	N	
Bois Brule	103.22	103.22	26483	490	24710	1283	2	93	0.5	0.7	0.9	1.1	N	N	N	Y	Y	Y	Y	Raise levee to 100-yr FFF	Y	N	Y	
Degognia & Fountain Bluff	91.75	91.75	39121	1073	32764	5284	3	84	0.5	0.7	0.9	1.1	N	N	N	N	N	Y	Y	Existing levee is at or above plan design level	N	N	N	
Grand Tower	78.90	78.90	14438	399	7196	6843	3	50	0.4	0.5	0.6	0.7	N	N	N	N	N	Y	Y	Existing levee is at or above plan design level	Y	N	N	
Miller Pond	70.75	70.75	16104	351	11454	4299	2	71	0.3	0.4	0.5	0.5	N	N	N	N	N	Y	Y	Existing levee is at or above plan design level	N	N	N	
Preston	70.73	70.73	3790	30	3465	295	1	91	0.3	0.4	0.5	0.5	N	N	N	N	N	Y	Y	Existing levee is at or above plan design level	N	N	N	
Clear Creek	61.02	61.02	15882	284	10387	5211	2	65	0.3	0.3	0.3	0.3	N	N	N	N	N	Y	Y	Existing levee is at or above plan design level	N	N	N	
Cape Girardeau	52.15	52.15	22	4	0	18	3	0	0.2	0.3	0.3	0.2	N	N	N	N	N	N	N	Existing levee is adequate	N	Y	N	
E. Cape Girardeau & Clear Creek	51.47	51.47	3019	62	1370	1587	2	45	0.2	0.3	0.2	0.2	N	N	N	N	N	Y	Y	Existing levee is at or above plan design level	N	N	N	
N. Alexander Co.	51.45	51.45	10410	349	7364	2697	3	71	0.2	0.3	0.2	0.2	N	N	N	N	N	Y	Y	Existing levee is at or above plan design level	N	N	N	
New Levee									0.2	0.3	0.2	0.1	N	N	N	Y	Y	Y	New levee	Y	N	Y		
REACH 3 SUBTOTALS	--	0	0	0	0								--	--	--	--	--	--	--					

ATTACHMENT 38. PLAN D OPTION 4 ER LOCATION OPPORTUNITIES FOR ILLINOIS RIVER
(Yellow = Areas with <100-Year level of protection with a project in place, without flowage easements, but with a levee raise required)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres			Percent Total Site			Induced Rise			Overtopping Flood Event						Flood Damage Reduction Feature	Less Than 100-Yr Protection Level (Y/N)	Easements Not Required (Y/N)	Levee Raise Required (Y/N)	OPTION 4: ER OPPORTUNITY (Y/N)	
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	Without	With	Without	With	Without	With					
Ottawa	239.9								0.0	0.0	0.0	0.0	N	N	N	N	N	N	Raise levee to 500-yr	a	Y	Y	N
East Peoria Sanitary District	162.4	296	223	0	73	76	0	24	0.1	0.1	0.1	0.2	N	N	N	N	N	N	Raise levee to 500-yr	b	Y	Y	N
East Peoria	161.2	1092	940	0	152	86	0	14	0.1	0.1	0.2	0.4	N	N	N	N	N	N	Raise levee to 500-yr	c	Y	Y	N
North Pekin	161.2				?	?	?	?	0.1	0.2	0.4	0.7	N	N	N	N	N	N	Raise levee to 100-yr	d	N	Y	N
Pekin-LaMarsh	152.4	2686	262	2046	378	10	76	14	0.1	0.2	0.5	0.9	N	N	Y	N	Y	Y	Raise levee to 100-yr	e	N	Y	N
Rocky Ford	152.4	1585	--	1585	--	100	--	0.1	0.3	0.6	1.1	N	N	Y	Y	Y	Y	Conservation levee – no raise	f	N	N	N	
Spring Lake	141.0	12959	170	10645	2144	1	82	17	0.2	0.4	0.8	1.4	N	N	Y	N	Y	Y	Raise levee to 100-yr	g	N	Y	N
East Liverpool	141.0	3236	99	2645	492	3	82	15	0.2	0.5	0.9	1.6	N	N	N	N	N	N	Existing levee is at or above 100-yr FFF	h	N	N	N
Liverpool	130.1	2920	7	2770	143	0	95	5	0.3	0.5	0.9	1.6	N	N	N	N	N	N	Raise levee to 500-yr	i	Y	Y	N
Lacey, Langellier, W.Matanzas, Kerton Valley	115.6	11235	143	10248	844	1	91	8	0.3	0.6	1.0	1.7	N	N	N	N	N	N	Existing levee is at or above 100-yr FFF	j	N	N	N
Seahorn	115.6	1629	32	1463	134	2	90	8	0.3	0.6	1.0	1.7	Y	N	Y	N	Y	Y	Raise levee to 100-yr	k	N	Y	N
Big Lake	105.7	3916	26	3751	139	1	96	3	0.3	0.6	1.0	1.7	N	N	Y	N	Y	Y	Raise levee to 100-yr	l	N	Y	N
Kelly Lake	101.7	1161	6	927	228	1	80	19	0.3	0.6	1.0	1.7	N	N	N	N	N	N	Existing levee is at or above 100-yr FFF	m	N	N	N
Hager Slough	92.0	6915	44	5693	1178	1	82	17	0.4	0.6	1.0	1.6	N	N	Y	N	Y	Y	Raise levee to 100-yr	n	N	Y	N
Lost Creek	89.7	3468	267	2754	447	8	79	13	0.4	0.6	1.0	1.6	N	N	N	N	N	N	Existing levee is at or above 100-yr FFF	o	Y	N	N
Sanitary Dist. of Beardstown	88.6	858	807	13	38	94	2	4	0.4	0.7	1.0	1.5	N	N	N	N	N	N	Raise levee to 500-yr	p	Y	Y	N
Coal Creek	88.5	6272	75	5757	440	1	92	7	0.4	0.7	1.0	1.5	N	N	N	N	N	N	Existing levee is at or above 100-yr FFF	q	N	N	N
Crane Creek	84.2	4292	26	3985	281	1	93	6	0.4	0.7	1.0	1.5	N	N	N	Y	N	Y	Raise levee to 100-yr	r	N	Y	N
South Beardstown	84.2	8467	340	7125	1002	4	4	11	0.4	0.7	1.0	1.5	N	N	N	N	N	N	Existing levee is at or above 100-yr FFF	s	N	N	N
Little Creek	76.7	1639	7	1194	438	0	73	27	0.4	0.7	1.0	1.4	Y	N	Y	N	Y	Y	Raise levee to 100-yr	t	N	Y	N
Meredosia Lake & Willow Creek									0.5	0.7	1.0	1.4	N	N	N	N	N	N	Existing levee is at or above 100-yr FFF	u	N	N	N
McGee Creek	71.4	12605	65	11543	997	1	92	7	0.5	0.7	1.0	1.4	N	N	N	N	N	N	Existing levee is at or above 100-yr FFF	v	N	N	N
Meredosia & Willow Cr	69.4	16946	1050	13029	2867	6	77	17	0.2	0.3	0.5	0.7	Y	N	Y	N	Y	N	Existing levee is at or above 100-yr FFF	w	N	N	N
Coon Run	68.9	2423	7	2248	168	0	93	7	0.2	0.4	0.5	0.7	Y		Y		Y		Existing levee is at or above 100-yr FFF	x	N	N	N
Smith Lake	67.2					?	?	?	0.3	0.4	0.5	0.8	Y	N	Y	N	Y	N	Raise levee to 100-yr	y	N	Y	N
Oakes	66.3	617	3	583	31	0	95	5	0.3	0.4	0.5	0.8	N		N		Y		Raise levee to 100-yr	z	N	Y	N
Valley City	65.1	4790	21	4218	551	0	88	12	0.3	0.4	0.5	0.8	N	N	N	N	N	N	Raise levee to 100-yr	aa	N	Y	N
Mauvaise Terre	64.8	5667	168	4986	513	3	88	9	0.3	0.4	0.6	0.8	Y	N	Y	N	Y	N	Raise levee to 100-yr	ab	N	Y	N
Robertson	63.3	852	10	721	121	1	85	14	0.3	0.4	0.6	0.9	N	N	N	N	N	N	Raise levee to 100-yr	ac	N	Y	N
Scott County	59.3	11599	143	10309	1147	1	89	10	0.3	0.4	0.6	1.0	Y	N	Y	N	Y	N	Raise levee to 100-yr	ad	N	Y	N
Walnut Creek	56.3	500	--	500	--	100	--	0.3	0.4	0.7	1.2	N		Y		Y		Raise levee to 100-yr	ae	N	Y	N	
Big Swan	53.6	13775	177	12937	661	1	94	5	0.3	0.5	0.8	1.3	N	N	N	Y	N	Y	Raise levee to 100-yr	af	N	Y	N
Hillyview	46.6	13106	62	12580	464	0	96	4	0.3	0.5	0.8	1.2	Y	N	Y	N	Y	Y	Raise levee to 100-yr	ag	N	Y	N
Village of Pearl	43.2					?	?	?	0.4	0.6	0.8	1.2	Y		Y		Y		Raise levee to 100-yr	ah	N	Y	N
Hartwell	40.7	9582	16	8922	644	0	93	7	0.4	0.6	0.8	1.1	N	N	Y	N	Y	Y	Raise levee to 100-yr	ai	N	Y	N
Keach	35.3	9304	54	8680	570	1	93	6	0.4	0.6	0.8	1.1	N	N	Y	N	Y	Y	Raise levee to 100-yr	aj	N	Y	N
Schaefer - Farrow	32.6	802	52	715	35	5	91	4	0.4	0.6	0.8	1.1	Y	N	Y	N	Y	Y	Raise levee to 100-yr	ak	N	Y	N
Bluffdale Farms	32.3	636	0	382	254	0	60	40	0.4	0.6	0.8	1.1	N	N	N	Y	Y	Y	Raise levee to 100-yr	al	N	Y	N
Eldred - Spankey DL	28.1	10336	51	9822	463	1	95	4															

ATTACHMENT 39. PLAN E OPTION 2 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER
 (Yellow = Areas with < 100-year level of protection with project in place, and requiring flowage easements, i.e. hydraulic mitigation)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres			Percent Total Site			Induced Rise				Overtopping Flood Event						Flood Damage Reduction Feature Code	Less Than 100-Yr Protection with Project (Y/N)	Flowage Easements Required (Y/N)	Reason for Acquisition	Option 2 ER Opportunity			
									50-yr	100-yr	200-yr	500-yr	50-yr	100yr	200yr	500yr	W	W	W	W	W	W				
			U	Ag	Other	U	Ag	Other*																		
Dubuque	580.60	1084	973	0	111	90	0	10	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	Existing Levee is Adequate	N	N	N	
Sabula	535.00	561	110	11	440	20	2	78	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	N	N	
REACH 1 SUBTOTALS	--	0	0	0	0				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Fulton	519.80	6803	1440	3800	1563	21	56	23	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	Existing Levee is Adequate	N	N	N	
Clinton	517.30	1891	1687	74	130	89	0	11	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	Existing Levee is Adequate	N	N	N	
Meredosia	511.50	10493	187	8899	1407	2	85	13	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	Existing Levee is at or above plan design level	Y	N	N	
East Moline	489.30	960	838	16	106	87	2	11	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	Existing Levee is Adequate	N	N	N	
Bettendorf	486.60	427	387	0	40	91	0	9	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	Existing Levee is Adequate	N	N	N	
Rock Island	481.20	823	678	0	145	82	0	18	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	N	N	
Milan	478.50	2202	851	454	897	39	21	40	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	Existing Levee is Adequate	N	N	N	
Andalusia	473.40	105	0	5	100	0	5	95	0.0	0.0	0.0	0.0	N	N	Y	Y	Y	Y	Y	Y	Y	Raise levee to 500-yr	N	N	N	
Muscatine/Mad Creek	456.00	1	1	0	0	100	0	0	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	N	N	
Drury	455.20	5077	69	4463	545	1	88	11	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	Existing Levee is at or above plan design level	N	N	N	
Muscatine Island	448.40	30099	4711	19360	6028	16	64	20	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	Existing Levee is Adequate	N	N	N	
Bay Island	442.60	19,974	133	17076	2765	1	85	14	0.0	0.0	0.0	0.0	N	N	N	N	N	Y	N	N	N	Existing Levee is at or above design level	Y	N	N	
Iowa R.-Flint Cr	427.90	45528	1251	39883	4394	3	88	9	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	Existing Levee is Adequate	N	N	N	
Keithsburg	427.60	119	111	0	8	93	0	7	0.0	0.0	0.0	0.0	N	N	N	Y	Y	Y	Y	Y	Y	Raise levee to 500-yr	N	N	N	
Henderson #1	407.30	8488	299	6071	2118	4	72	24	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	Existing Levee is at or above plan design level	N	N	N	
Henderson #2	402.40	8681	249	7188	1244	3	83	14	0.0	0.0	0.0	0.0	N	N	N	N	N	Y	N	N	N	Raise levee to 50-yr	Y	N	N	
Green Bay	391.00	15160	473	13368	1319	0	12	88	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	Existing Levee is at or above plan design level	Y	Y	3	Y
REACH 2 SUBTOTALS	15160	473	13368	1319																						
Des Moines/Mississippi	358.95	8525	236	7544	745	3	88	9	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	Existing Levee is at or above plan design level	N	N	N	
Mississippi & Fox	357.75	8657	57	7800	800	1	90	9	0.0	0.0	0.0	0.0	N	N	N	N	N	Y	Y	Y	Y	Existing Levee is at or above plan design level	N	Y	3	N
Hunt-Lima	351.65	17012	124	16010	878	1	94	5	0.0	0.0	0.0	0.0	N	N	N	N	N	Y	Y	Y	Y	Existing Levee is at or above plan design level	N	Y	3	N
Gregory	351.25	8975	37	7183	1755	0	80	20	0.0	0.0	0.0	0.0	N	N	N	N	N	Y	Y	Y	Y	Existing Levee is at or above plan design level	N	Y	N	N
Canton	342.00	592	385	100	107	65	17	18	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	N	N	N
Indian Grave	338.75	19615	142	18093	1380	1	92	7	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	Existing Levee is at or above plan design level	N	N	N	N
Union Township	333.30	4007	147	2784	1076	4	69	27	0.0	0.0	0.0	0.0	N	N	N	N	N	Y	Y	Y	Y	Existing Levee is at or above plan design level	N	Y	3	N
Fabius	327.75	15065	345	13302	1418	2	88	10	0.0	0.0	0.0	0.0	N	N	N	N	N	Y	Y	Y	Y	Existing Levee is at or above plan design level	N	Y	3	N
Marion County	322.40	4102	6	3800	296	0	93	7	0.0	0.0	0.0	0.0	N	N	N	N	Y	Y	Y	Y	Y	Existing Levee is at or above plan design level	N	Y	3	N
South Quincy	321.70	5767	578	3759	1430	10	65	25	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	N	N	N
South River Industrial	319.00	1626	1626	0	0	100	--	--	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	Existing Levee is Adequate	N	N	N	N
South River	315.65	10155	313	8652	1190	3	85	12	0.0	0.0	0.0	0.0	N	N	N	N	N	Y	<b							

ATTACHMENT 39. PLAN E OPTION 2 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER (CONTINUED)

(Yellow = Areas with < 100-year level of protection with project in place, and requiring flowage easements, i.e. hydraulic mitigation)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres			Percent Total Site			Induced Rise				Overtopping Flood Event								Flood Damage Reduction Feature Code	Less Than 100-Yr Protection with Project (Y/N)	Flowage Easements Required (Y/N)	Reason for Easement	ER Opportunity					
			U	A	Other	U	A	Other	50-yr	100-yr	200-yr	500-yr	50-yr		100yr		200yr		500yr											
													W O	W	W O	W	W O	W	W O	W										
Clarksville Levees	269.04	2151	2	1675	474	0	78	22	0.2	0.2	0.3	0.3	N	N	N	N	N	N	Y	Y	Raise levee to 50-yr	Y	Y	3	Y					
Sny Island Reach IV	268.75	11518	44	9586	1888	0	83	17	0.2	0.3	0.3	0.3	N	N	N	N	N	N	N	N	Existing Levee is at or above plan design level	N	N		N					
Kissinger Levee District	266.41	2498	4	2148	346	0	86	14	0.3	0.3	0.3	0.4	N	N	N	N	N	N	Y	Y	Raise levee to 50-yr	Y	Y	3	Y					
Busch-Goose Pasture Farms	264.10	447	1	341	105	0	76	24	0.3	0.4	0.4	0.5	N	N	Y	N	Y	N	Y	Y	Raise levee to 50-yr	Y	Y	3	Y					
Cannon Wildlife Refuge Levee	262.24	3477	3	1141	2333	0	33	67	0.4	0.5	0.5	0.6	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	Y	Y	3	Y					
Annada	262.22	3320	25	1554	1741	1	47	52	0.4	0.5	0.6	0.6	Y	Y	Y	Y	Y	Y	Y	Y	Raise levee to 50-yr	Y	Y	3	Y					
Elsberry Drainage District	255.94	18502	138	16254	2110	1	88	11	0.4	0.4	0.5	0.5	N	N	N	N	N	N	Y	Y	Raise levee to 50-yr	Y	Y	3	Y					
Kings Lake Drainage District	249.04	3212	21	1108	2083	1	34	65	0.4	0.4	0.3	0.1	Y	N	Y	Y	Y	Y	Y	Y	Raise levee to 50-yr	Y	Y	3	Y					
Sandy Creek Drainage District	245.70	1082	21	806	255	2	74	24	0.3	0.3	0.2	0.0	Y	N	Y	N	Y	Y	Y	Y	Raise levee to 50-yr	Y	Y	3	Y					
Foley Drainage District	245.03	1168	98	947	123	8	81	11	0.3	0.3	0.2	0.0	Y	N	Y	N	Y	Y	Y	Y	Raise levee to 50-yr	Y	Y	3	Y					
Cap Au Gris D&LD	241.16	4812	241	3898	674	5	81	14	0.4	0.3	0.2	0.0	Y	N	Y	N	Y	Y	Y	Y	Raise levee to 50-yr	Y	Y	3	Y					
Winfield D&LD	238.88	1661	56	1480	125	3	89	8	0.4	0.3	0.2	0.0	Y	N	Y	N	Y	N	Y	Y	Raise levee to 50-yr	Y	Y	3	Y					
Brevator D&LD	238.08	2092	92	1744	256	4	83	13	0.4	0.3	0.2	0.0	Y	N	Y	N	Y	Y	Y	Y	Raise levee to 50-yr	Y	Y	3	Y					
Schramm Private Levee	237.25	273	1	210	62	0	77	23	0.4	0.3	0.2	0.0	Y	N	Y	N	Y	Y	Y	Y	Raise levee to 50-yr	Y	Y	3	Y					
Old Monroe Private Levee	236.75	802	60	700	42	7	87	6	0.4	0.3	0.2	0.0	Y	N	Y	N	Y	Y	Y	Y	Raise levee to 50-yr	Y	Y	3	Y					
Heitman Private Levee	236.39	196	1	182	13	1	93	6	0.4	0.3	0.2	0.0	Y	N	Y	N	Y	Y	Y	Y	Raise levee to 50-yr	Y	Y	3	Y					
Marstan-Portuchek Private Levee	236.09	888	7	817	64	44	45	11	0.4	0.3	0.2	0.0	Y	N	Y	N	Y	Y	Y	Y	Raise levee to 50-yr	Y	Y	3	Y					
St. Peters Drainage Association No. 1/Urban	230.02	1098	202	662	234	18	60	22	0.4	0.3	0.2	0.0	N		N		N		N		Raise levee to 500-yr	N	N		N					
St. Peters Drainage Association No. 1	229.76								0.4	0.3	0.2	0.0	Y	N	Y	Y	Y	Y	Y	Y	Raise levee to 50-yr	Y	Y	3	Y					
Consolidated North County Levee District	206.25	18706	881	15280	2545	3	51	46	0.4	0.4	0.4	0.2									Remains at existing conditions	Y	N		N					
Wood River	198.05	11325	6438	3019	1868	57	27	16	0.4	0.4	0.4	0.2	N		N		N		N		Existing Levee is Adequate	N	N		N					
Columbia Bottoms Levee	194.15	4434	70	4030	334	2	10	88	0.4	0.4	0.4	0.2	Y		Y		Y		Y		Remains at existing conditions	Y	3		Y					
Chouteau Island D&LD	191.19	2033	236	914	883	12	45	43	0.4	0.4	0.4	0.2	Y	N	Y	Y	Y	Y	Y	Y	Raise levee to 50-yr	Y	Y	3	Y					
Chouteau, Nameoki and Venice D&LD	189.89	4800	--	4800	--	--	100	--	0.4	0.4	0.4	0.2	N		N		N		N		Existing Levee is Adequate	N	N		N					
Gabaret/Cabrolet Island D&LD	187.32	776	3	673	100	0	87	13	0.4	0.4	0.4	0.2	Y	N	Y	Y	Y	Y	Y	Y	Raise levee to 50-yr	Y	Y	3	Y					
St. Louis Flood Protection Project	181.69	3003	2750	0	253	92	0	8	0.3	0.4	0.3	0.1	N		N		N		N		Existing Levee is Adequate	N	N		N					
Metro East Sanitary Dist.	179.35	86031	36418	27607	22006	42	32	26	0.3	0.4	0.3	0.1	N		N		N		N		Existing Levee is Adequate	N	N		N					
Prairie du Pont	170.71	12766	2103	8755	1908	16	69	15	0.3	0.3	0.3	0.0	Y		Y		Y		Y		Existing Levee is Adequate	N	N		N					
Columbia	160.89	13730	212	12640	878	2	92	6	0.3	0.3	0.2	0.0	N	N	N	N	N	N	Y	Y	Raise levee to 50-yr	Y	Y	3	Y					
Harrisonville	142.89	26836	612	24068	2156	2	90	8	0.3	0.3	0.2	0.0	N	N	N	N	N	N	N	N	Existing Levee is at or above plan design level	Y	N		N					

ATTACHMENT 39. PLAN E OPTION 2 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER (CONTINUED)
(Yellow = Areas with < 100-year level of protection with project in place, and requiring flowage easements, i.e. hydraulic mitigation)

Leveed Area	Mid Point River Mile	Total Site Acres	Acres			Percent Total Site			Induced Rise				Overtopping Flood Event				Flood Damage Reduction Feature Code								Less Than 100-Yr Protection with Project (Y/N)	Flowage Easements Required (Y/N)	Reason for Easement	OPTION 2: ER Opportunities			
									50-yr	100-yr	200-yr	500-yr	50-yr	100yr	200yr	500yr															
			U	A	Other	U	A	Other	W O	W	W O	W	W O	W	W O	W															
Stringtown	139.50	2673	40	2570	63	1	96	3	0.3	0.3	0.2	0.1	N	N	N	N	N	N	N	N	N	N	N	N	N	Existing Levee is at or above plan design level	Y	N	N		
Fort Chartres & Ivy Landing	134.00	15232	268	13283	1681	2	87	2	0.3	0.3	0.3	0.2	N	N	N	N	N	N	N	N	N	N	N	N	N	N	Existing Levee is at or above plan design level	Y	N	N	
Prairie Du Rocher & Modoc	124.45	15891	251	14449	1191	2	91	7	0.3	0.3	0.3	0.1	N	N	N	N	N	N	N	N	N	N	N	N	N	N	Existing Levee is at or above plan design level	N	N	N	
Ste. Genevieve Urban Levee	123.75				--	--	--	--	0.3	0.3	0.3	0.1	N	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	N	N						
Ste. Genevieve Levee District No. 2	119.51	7852	11	7178	663	0	92	8	0.3	0.3	0.3	0.1	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	Y	Y	3	Y	
Kaskaskia Island	113.40	9365	125	8755	485	1	93	6	0.3	0.3	0.3	0.1	N	N	N	N	N	N	N	N	N	N	N	N	N	N	Existing Levee is at or above plan design level	N	N	N	
Bois Brule	103.22	26483	490	24710	1283	2	93	5	0.3	0.3	0.2	0.1	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Raise Levee to 50yr	Y	Y	3	Y
Degognia & Fountain Bluff	91.75	39121	1073	32764	5284	3	84	13	0.3	0.3	0.3	0.1	N	N	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Existing Levee is at or above plan design level	N	Y	3	N
Grand Tower	78.90	14438	399	7196	6843	3	50	47	0.2	0.2	0.2	0.1	N	N	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Existing Levee is at or above plan design level	Y	Y	3	Y
Preston	70.75	16104	351	11454	4299	2	71	27	0.2	0.2	0.2	0.0	N	N	N	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Existing Levee is Adequate	N	Y	3	N
Miller Pond	70.73	3790	30	3465	295	1	91	8	0.2	0.2	0.2	0.0	N	N	N	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Existing Levee is at or above plan design level	N	Y	3	N
Clear Creek	61.02	15882	284	10387	5211	2	65	33	0.2	0.2	0.1	0.0	N	N	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Existing Levee is at or above plan design level	N	Y	3	N
Cape Girardeau	52.15	22	4	0	18	3	0	97	0.2	0.1	0.1	0.0	N	N	N	N	N	N	N	N	N	N	N	N	N	N	Existing Levee is Adequate	N	Y	3	N
N. Alexander Co.	51.47	3019	62	1370	1587	2	45	53	0.2	0.1	0.1	0.0	N	N	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Existing Levee is at or above plan design level	N	Y	3	N
E. Cape Girardeau & Clear Creek	51.45	10410	349	7364	2697	3	71	26	0.2	0.1	0.1	0.0	N	N	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Existing Levee is at or above plan design level	N	Y	3	N
REACH 3 SUBTOTALS	--	126983	2515	101418	23051								--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		

Reason for Easements: 1/ Induced water rise relative to 500yr flood of > 1-foot for levees with >50 yr level of protection

2/ Levee is overtopped by a flood equal to the existing level of protection due to induced rise

3/ Restrictions needed on future levee development for levees with < 500yr level of protection

ATTACHMENT 40. PLAN E OPTION 2 ER LOCATION OPPORTUNITIES FOR ILLINOIS RIVER (CONTINUED)
(Yellow = Areas with < 100-year level of protection with project in place, and requiring flowage easements, i.e. hydraulic mitigation)

Leveed Area	Mid Point River Mile	Total Site Acres	Acres			Percent Site			Induced Rise				Overtopping Flood Event				Flood Damage Reduction Feature Code	Less Than 100-Yr Protection with Project (Y/N)	Flowage Easements Required (Y/N)	Reason for Acquisition	OPTION 2: ER Opportunities		
									50-yr	100-yr	200-yr	500-yr	50-yr	100yr	200yr	500yr							
			Urban	Ag	Other	Urban	Ag	Other	W O	W	W O	W	W O	W	W O	W							
Ottawa	239.9																Raise levee to 500-yr						
East Peoria Sanitary District	162.4	296	223	0	73	76	0	24	0.0	0.1	0.1	0.1	N	N	N	N	N	N	N	N	N	N	N
East Peoria	161.2	1092	940	0	152	86	0	14	0.0	0.1	0.1	0.1	N	N	N	N	N	N	Y	N	N	N	N
North Pekin	161.2				?	?	?	?	0.1	0.1	0.1	0.2	N	N	N	N	N	N	Y	N	Existing Levee is at or above plan design level	Y	3
Pekin-LaMarsh	152.4	2686	262	2046	378	10	76	14	0.1	0.1	0.2	0.4	N	N	Y	N	Y	N	Y	N	Raise levee to 50-yr	Y	3
Rocky Ford	152.4	1585	--	1585	--	--	100	--	0.1	0.2	0.3	0.6	N	N	Y	Y	Y	Y	Y	Y	Conservation Levee - No Raise	Y	3
Spring Lake	141.0	12959	170	10645	2144	1	82	17	0.1	0.2	0.4	0.7	N	N	Y	N	Y	N	Y	N	Existing Levee is at or above plan design level	N	3
Liverpool	141.0	3236	99	2645	492	3	82	15	0.1	0.3	0.5	1.0	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	N
East Liverpool	130.1	2920	7	2770	143	0	95	5	0.2	0.4	0.6	1.1	N	N	N	N	N	Y	N	N	Existing levee is at or above the plan design level	N	N
Lacey, Langellier, W.Matanzas, Kerton Valley	115.6	11235	143	10248	844	1	91	8	0.2	0.4	0.6	1.1	N	N	N	N	N	N	N	N	Existing Levee is at or above plan design level	Y	3
Seahorn	115.6	1629	32	1463	134	2	90	8	0.2	0.4	0.6	1.1	Y	N	Y	N	Y	N	Y	N	Raise Levee to 50-yr	Y	3
Big Lake	105.7	3916	26	3751	139	1	96	3	0.2	0.4	0.7	1.1	N	N	Y	N	Y	N	Y	N	Raise levee to 50-yr	Y	3
Kelly Lake	101.7	1161	6	927	228	1	80	19	0.2	0.4	0.7	1.1	N	N	N	N	N	N	N	N	Existing Levee is at or above plan design level	N	3
Hager Slough	92.0	6915	44	5693	1178	1	82	17	0.2	0.4	0.7	1.1	N	N	Y	N	Y	N	Y	N	Raise levee to 50-yr	Y	3
Lost Creek	89.7	3468	267	2754	447	8	79	13	0.2	0.4	0.7	1.1	N	N	N	N	N	N	N	N	Existing Levee is at or above plan design level	N	N
Sanitary Dist. of Beardstown	88.6	858	807	13	38	94	2	4	0.2	0.4	0.7	1.1	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	N
Coal Creek	88.5	6272	75	5757	440	1	92	7	0.2	0.4	0.7	1.0	N	N	N	N	N	N	N	N	Existing Levee is at or above plan design level	N	N
Crane Creek	84.2	4292	26	3985	281	1	93	6					N	N	N	Y	N	Y	N	Raise Levee to 50-yr	Y	3	
South Beardstown	84.2	8467	340	7125	1002	4	4	11	0.3	0.4	0.7	1.0	N		N	N	N	N	N	N	Existing Levee is at or above plan design level	N	3
Little Creek	76.7	1639	7	1194	438	0	73	27	0.3	0.4	0.6	1.0	Y	N	Y	N	Y	N	Y	N	Raise Levee to 50-yr	N	3
McGee Creek	71.4	12605	65	11543	997	1	92	7	0.3	0.4	0.6	0.9	N	N	N	N	N	N	N	N	Existing Levee is at or above plan design level	N	3
Meredosia & Willow Cr	69.4	16946	1050	13029	2867	6	77	17	0.3	0.4	0.6	0.9	N	N	N	N	N	N	N	N	Existing Levee is at or above plan design level	N	3
Coon Run	68.9	2423	7	2248	168	0	93	7	0.2	0.3	0.5	0.9								N	Existing Levee is at or above plan design level	N	N
Smith Lake	67.2				?	?	?	?	0.2	0.3	0.5	0.9	Y	N	Y	N	Y	N	Y	N	Raise levee to 50-yr	Y	3
Oakes	66.3	617	3	583	31	0	95	5	0.2	0.3	0.5	0.9									Raise levee to 50-yr	Y	3
Valley City	65.1	4790	21	4218	551	0	88	12	0.2	0.3	0.5	0.9	N	N	N	Y	N	Y	N	N	Raise levee to 50-yr	Y	3
Mauvaise Terre	64.8	5667	168	4986	513	3	88	9	0.2	0.3	0.5	0.9	N	N	N	N	N	Y	N	N	Raise levee to 50-yr	Y	3
Robertson	63.3	852	10	721	121	1	85	14	0.2	0.3	0.6	0.9	Y	N	Y	N	Y	N	Y	N	Raise levee to 50-yr	Y	3
Scott County	59.3	11599	143	10309	1147	1	89	10	0.2	0.4	0.6	1.0	N	N	N	N	N	Y	N	N	Raise levee to 50-yr	Y	3
Walnut Creek	56.3	500	--	500	--	--	100	--	0.2	0.4	0.6	1.0									Raise levee to 50-yr	Y	3
Big Swan	53.6	13775	177	12937	661	1	94	5	0.2	0.4	0.6	1.0	N	N	Y	N	Y	N	Y	N	Raise levee to 50-yr	Y	3
Hillview	46.6	13106	62	12580	464	0	96	4	0.3	0.4	0.6	1.0	N	N	N	Y	N	Y	N	N	Raise levee to 50-yr	Y	3
Village of Pearl	43.2				?	?	?	?	0.3	0.4	0.5	0.7									Raise levee to 50-yr	Y	3
Hartwell	40.7	9582	16	8922	644	0	93	7	0.3	0.4	0.5	0.6	Y	N	Y	N	Y	N	Y	N	Raise levee to 50-yr	Y	3
Keach	35.3	9304	54	8680	570	1	93	6	0.3	0.4	0.5	0.5	N	N	Y	N	Y	N	Y	N	Raise levee to 50-yr	Y	3
Schaefer – Farrow	32.6	802	52	715	35	5	91	4	0.3	0.4	0.4	0.4	N	N	Y	N	Y	N	Y	N	Raise levee to 50-yr	Y	3
Bluffdale Farms	32.3	636	0	382	254	0	60	40	0.3	0.4	0.4	0.4	Y	N	Y	N	Y	N	Y	N	Raise levee to 50-yr	Y	3

ATTACHMENT 41. PLAN E OPTION 3 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER
(Yellow = Areas with cost of levee improvements exceeding the value of the lands, and land use in area is <10% urban)

Leveed Area	Mid Point River Mile	Total Site Acres	Acres			Percent Total Site			Induced Rise				Overtopping Flood Event						Flood Damage Reduction Feature Code	Cost of Levee Raise Exceeds Land Value (Y/N)	D&LD Less Than 10% Urban	OPTION 3: ER Opportunities	
									50-yr	100-yr	200-yr	500-yr	50-yr	100yr	200yr	500yr							
			U	Ag	Other	U	Ag	Other*	W O	W	W O	W	W O	W	W O	W							
Dubuque	580.60	1084	973	0	111	90	0	10	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is Adequate	N	N	N			
Sabula	535.00	561	110	11	440	20	2	78	0.0	0.0	0.0	0.0	N	N	N	N	Raise levee to 500-yr	Y	N	N			
REACH 1 SUBTOTALS	--	0	0	0	0						--	--	--	--	--	--	--						
Fulton	519.80	6803	1440	3800	1563	21	56	23	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is Adequate	N	N	N			
Clinton	517.30	1891	1687	74	130	89	0	11	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is Adequate	Y	N	N			
Meredosia	511.50	10493	187	8899	1407	2	85	13	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is at or above plan design level	N	Y	N			
East Moline	489.30	960	838	16	106	87	2	11	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is Adequate	Y	N	N			
Bettendorf	486.60	427	387	0	40	91	0	9	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is Adequate	N	N	N			
Rock Island	481.20	823	678	0	145	82	0	18	0.0	0.0	0.0	0.0	N	N	N	N	Raise levee to 500-yr	Y	N	N			
Milan	478.50	2202	851	454	897	39	21	40	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is Adequate	N	N	N			
Andalusia	473.40	105	0	5	100	0	5	95	0.0	0.0	0.0	0.0	N	N	Y	Y	Raise levee to 500-yr	Y	N	N			
Muscatine/Mad Creek	456.00	1	1	0	0	100	0	0	0.0	0.0	0.0	0.0	N	N	N	N	Raise levee to 500-yr	N	N	N			
Drury	455.20	5077	69	4463	545	1	88	11	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is at or above plan design level	N	Y	N			
Muscatine Island	448.40	30099	4711	19360	6028	16	64	20	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is Adequate	N	N	N			
Bay Island	442.60	19,974	133	17076	2765	1	85	14	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is at or above design level	N	Y	N			
Iowa R.-Flint Cr	427.90	45528	1251	39883	4394	3	88	9	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is Adequate	N	Y	N			
Keithsburg	427.60	119	111	0	8	93	0	7	0.0	0.0	0.0	0.0	N	N	Y	Y	Raise levee to 500-yr	Y	N	N			
Henderson #1	407.30	8488	299	6071	2118	4	72	24	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is at or above plan design level	N	Y	N			
Henderson #2	402.40	8681	249	7188	1244	3	83	14	0.0	0.0	0.0	0.0	N	N	N	N	Raise levee to 50-yr	N	Y	N			
Green Bay	391.00	15160	473	13368	1319	0	12	88	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is at or above plan design level	N	Y	N			
REACH 2 SUBTOTALS	0	0	0	0																			
Des Moines/Mississippi	358.95	8525	236	7544	745	3	88	9	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is at or above plan design level	N	-	N			
Mississippi & Fox	357.75	8657	57	7800	800	1	90	9	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is at or above plan design level	N	Y	N			
Hunt-Lima	351.65	17012	124	16010	878	1	94	5	0.0	0.0	0.0	0.0	N	N	N	N	Y	Y	Existing Levee is at or above plan design level	N	Y	N	
Gregory	351.25	8975	37	7183	1755	0	80	20	0.0	0.0	0.0	0.0	N	N	N	N	Y	Y	Existing Levee is at or above plan design level	N	Y	N	
Canton	342.00	592	385	100	107	65	17	18	0.0	0.0	0.0	0.0	N	N	N	N	Raise levee to 500-yr	Y	N	N			
Indian Grave	338.75	19615	142	18093	1380	1	92	7	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is at or above plan design level	N	Y	N			
Union Township	333.30	4007	147	2784	1076	4	69	27	0.0	0.0	0.0	0.0	N	N	N	N	Y	Y	Existing Levee is at or above plan design level	N	Y	N	
Fabius	327.75	15065	345	13302	1418	2	88	10	0.0	0.0	0.0	0.0	N	N	N	N	Y	Y	Existing Levee is at or above plan design level	N	Y	N	
Marion County	322.40	4102	6	3800	296	0	93	7	0.0	0.0	0.0	0.0	N	N	N	N	Y	Y	Existing Levee is at or above plan design level	N	Y	N	
South Quincy	321.70	5767	578	3759	1430	10	65	25	0.0	0.0	0.0	0.0	N	N	N	N	Raise levee to 500-yr	N	Y	N			
South River Industrial	319.00	1626	1626	0	0	100	--	--	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is Adequate	N	Y	N			
South River	315.65	10155	313	8652	1190	3	85	12	0.0	0.0	0.0	0.0	N	N	N	N	Y	Y	Raise levee to 50-yr	N	Y	N	
Hannibal	309.50	40	40	0	0	100	0	0	0.0	0.0	0.0	0.0	N	N	N	N	Raise levee to 500-yr	N	N	N			
Sny Island Reach I	307.60	44571	632	39663	4276	1	89	10	0.0	0.0	0.0	0.0	N	N	N	N	Y	Y	Existing Levee is at or above plan design level	N	Y	N	
Sny Island Reach II	292.45	17277	189	15912	1176	1	92	7	0.0	0.0	0.0	0.0	N	N	N	N	Y	Y	Existing Levee is at or above plan design level	N	Y	N	
Sny Island Reach III	282.25	43098	370	35711	7017	1	83	16	0.1	0.1	0.1	0.0	N	N	N	N	Y	Y	Existing Levee is at or above plan design level	N	Y	N	
Pelus-Burns-Prewitt-Jeager Private Levee	271.60	501	10	420	71	2	84	14	0.1	0.1	0.1	0.1	Y	N	Y	N	Y	Y	Raise levee to 50-yr	Y	Y	Y	

ATTACHMENT 41. PLAN E OPTION 3 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER (CONTINUED)
(Yellow = Areas with cost of levee improvements exceeding the value of the lands, and land use in area is <10% urban)

Leveed Area	Mid Point River Mile	Total Site Acres	Acres			Percent Total Site			Induced Rise				Overtopping Flood Event								Flood Damage Reduction Feature Code	Cost of Levee Raise Exceeds Land Value (Y/N)	Cost of Levee Raise Exceeds Land Value (Y/N)	OPTION 3: ER Opportunities
									50-yr	100-yr	200-yr	500-yr	50-yr	100yr	200yr	500yr								
			U	A	Other	U	A	Other	W O	W	W O	W	W O	W	W O	W	W O	W	W O	W	W O	W		
Clarksville Levees	269.04	2151	2	1675	474	0	78	22	0.2	0.2	0.3	0.3	N	N	N	N	N	N	Y	Y	Raise levee to 50-yr	Y	Y	Y
Sny Island Reach IV	268.75	11518	44	9586	1888	0	83	17	0.2	0.3	0.3	0.3	N	N	N	N	N	N	N	N	Existing Levee is at or above plan design level	N	Y	N
Kissinger Levee District	266.41	2498	4	2148	346	0	86	14	0.3	0.3	0.3	0.4	N	N	N	N	N	N	Y	Y	Raise levee to 50-yr	N	Y	N
Busch-Goose Pasture Farms	264.10	447	1	341	105	0	76	24	0.3	0.4	0.4	0.5	N	N	Y	N	Y	N	Y	Y	Raise levee to 50-yr	Y	Y	Y
Cannon Wildlife Refuge Levee	262.24	3477	3	1141	2333	0	33	67	0.4	0.5	0.5	0.6	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	N	Y	N
Annada D&LD	262.22	3320	25	1554	1741	1	47	52	0.4	0.5	0.6	0.6	Y	Y	Y	Y	Y	Y	Y	Y	Raise levee to 50-yr	Y	Y	Y
Elsberry Drainage District	255.94	18502	138	16254	2110	1	88	11	0.4	0.4	0.5	0.5	N	N	N	N	Y	Y	Y	Y	Raise levee to 50-yr	Y	Y	Y
Kings Lake Drainage District	249.04	3212	21	1108	2083	1	34	65	0.4	0.4	0.3	0.1	Y	N	Y	Y	Y	Y	Y	Y	Raise levee to 50-yr	Y	Y	Y
Sandy Creek Drainage District	245.70	1082	21	806	255	2	74	24	0.3	0.3	0.2	0.0	Y	N	Y	N	Y	Y	Y	Y	Raise levee to 50-yr	Y	Y	Y
Foley Drainage District	245.03	1168	98	947	123	8	81	11	0.3	0.3	0.2	0.0	Y	N	Y	N	Y	Y	Y	Y	Raise levee to 50-yr	Y	Y	Y
Cap Au Gris D&LD	241.16	4812	241	3898	674	5	81	14	0.4	0.3	0.2	0.0	Y	N	Y	N	Y	Y	Y	Y	Raise levee to 50-yr	Y	Y	Y
Winfield D&LD	238.88	1661	56	1480	125	3	89	8	0.4	0.3	0.2	0.0	Y	N	Y	N	Y	N	Y	Y	Raise levee to 50-yr	Y	Y	Y
Brevator D&LD	238.08	2092	92	1744	256	4	83	13	0.4	0.3	0.2	0.0	Y	N	Y	N	Y	Y	Y	Y	Raise levee to 50-yr	Y	Y	Y
Schramm Private Levee	237.25	273	1	210	62	0	77	23	0.4	0.3	0.2	0.0	Y	N	Y	N	Y	Y	Y	Y	Raise levee to 50-yr	Y	Y	Y
Old Monroe Private Levee	236.75	802	60	700	42	7	87	6	0.4	0.3	0.2	0.0	Y	N	Y	N	Y	Y	Y	Y	Raise levee to 50-yr	Y	Y	Y
Heitman Private Levee	236.39	196	1	182	13	1	93	6	0.4	0.3	0.2	0.0	Y	N	Y	N	Y	Y	Y	Y	Raise levee to 50-yr	Y	Y	Y
Marstan-Portuchek Private Levee	236.09	888	7	817	64	44	45	11	0.4	0.3	0.2	0.0	Y	N	Y	N	Y	Y	Y	Y	Raise levee to 50-yr	Y	N	N
St. Peters Drainage Association No. 1/Urban	230.02	1098	202	662	234	18	60	22	0.4	0.3	0.2	0.0	N		N		N		N		Raise levee to 500-yr	N	N	N
St. Peters Drainage Association No. 1/Ag	229.76								0.4	0.3	0.2	0.0	Y	N	Y	Y	Y	Y	Y	Y	Raise levee to 50-yr	Y	Y	Y
Consolidated North County Levee District	206.25	18706	881	15280	2545	3	51	46	0.4	0.4	0.4	0.2									Remains at existing conditions	N	Y	N
Wood River	198.05	11325	6438	3019	1868	57	27	16	0.4	0.4	0.4	0.2	N		N		N		N		Existing Levee is Adequate	N	N	N
Columbia Bottoms Levee	194.15	4434	70	4030	334	2	10	88	0.4	0.4	0.4	0.2	Y		Y		Y		Y		Remains at existing conditions	N	Y	Y
Chouteau Island D&LD	191.19	2033	236	914	883	12	45	43	0.4	0.4	0.4	0.2	Y	N	Y	Y	Y	Y	Y	Y	Raise levee to 50-yr	Y	Y	Y
Chouteau, Nameoki and Venice D&LD	189.89	4800	--	4800	--	--	100	--	0.4	0.4	0.4	0.2	N		N		N		N		Existing Levee is Adequate	Y	N	N
Gabaret/Cabrolet Island D&LD	187.32	776	3	673	100	0	87	13	0.4	0.4	0.4	0.2	Y	N	Y	Y	Y	Y	Y	Y	Raise levee to 50-yr	Y	Y	Y
St. Louis Flood Protection Project	181.69	3003	2750	0	253	92	0	8	0.3	0.4	0.3	0.1	N		N		N		N		Existing Levee is Adequate	N	N	N
Metro East Sanitary Dist.	179.35	86031	36418	27607	22006	42	32	26	0.3	0.4	0.3	0.1	N		N		N		N		Existing Levee is Adequate	N	N	N
Praire du Pont	170.71	12766	2103	8755	1908	16	69	15	0.3	0.3	0.3	0.0	Y		Y		Y		Y		Existing Levee is Adequate	N	N	N
Columbia	160.89	13730	212	12640	878	2	92	6	0.3	0.3	0.2	0.0	N	N	N	N	N	N	Y	Y	Raise levee to 50-yr	N	Y	N
Harrisonville	142.89	26836	612	24068	2156	2	90	8	0.3	0.3	0.2	0.0	N	N	N	N	N	N	N	N	Existing Levee is at or above plan design level	N	Y	N

ATTACHMENT 41. PLAN E OPTION 3 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER (CONTINUED)
(Yellow = Areas with cost of levee improvements exceeding the value of the lands, and land use in area is <10% urban)

Leveed Area	Mid Point River Mile	Total Site Acres	Acres			Percent Total Site			Induced Rise				Overtopping Flood Event				Flood Damage Reduction Feature Code	Cost of Levee Raise Exceeds Land Value (Y/N)	D&LD Less Than 10% Urban	OPTION 3 ER Opportunities
									50-yr	100-yr	200-yr	500-yr	50-yr	100yr	200yr	500yr				
			U	A	Other	U	A	Other	W O	W	W O	W	W O	W	W O	W				
Stringtown	139.50	2673	40	2570	63	1	96	3	0.3	0.3	0.2	0.1	N	N	N	N				
Fort Chartres & Ivy Landing	134.00	15232	268	13283	1681	2	87	2	0.3	0.3	0.3	0.2	N	N	N	N				
Prairie Du Rocher & Modoc	124.45	15891	251	14449	1191	2	91	7	0.3	0.3	0.3	0.1	N	N	N	N				
Ste. Genevieve Urban Levee	123.75				--	--	--	--	0.3	0.3	0.3	0.1	N		N	N				
Ste. Genevieve Levee District No. 2	119.51	7852	11	7178	663	0	92	8	0.3	0.3	0.3	0.1	Y	Y	Y	Y				
Kaskaskia Island	113.40	9365	125	8755	485	1	93	6	0.3	0.3	0.3	0.1	N	N	N	N				
Bois Brule	103.22	26483	490	24710	1283	2	93	5	0.3	0.3	0.2	0.1	N	N	N	N				
Degognia & Fountain Bluff	91.75	39121	1073	32764	5284	3	84	13	0.3	0.3	0.3	0.1	N	N	N	N				
Grand Tower	78.90	14438	399	7196	6843	3	50	47	0.2	0.2	0.2	0.1	N	N	N	N				
Preston	70.75	16104	351	11454	4299	2	71	27	0.2	0.2	0.2	0.0	N	N	N	N				
Miller Pond	70.73	3790	30	3465	295	1	91	8	0.2	0.2	0.2	0.0	N	N	N	N				
Clear Creek	61.02	15882	284	10387	5211	2	65	33	0.2	0.2	0.1	0.0	N	N	N	N				
Cape Girardeau	52.15	22	4	0	18	3	0	97	0.2	0.1	0.1	0.0	N		N	N				
N. Alexander Co.	51.47	3019	62	1370	1587	2	45	53	0.2	0.1	0.1	0.0	N	N	N	N				
E. Cape Girardeau & Clear Creek	51.45	10410	349	7364	2697	3	71	26	0.2	0.1	0.1	0.0	N	N	N	N				
REACH 3 SUBTOTALS	--	43028	1006	32906	9117				--	--	--	--	--	--	--	--	--	--	--	--

Reason for Easements: 1/ Induced water rise relative to 500yr flood of > 1-foot for levees with >50 yr level of protection

2/ Levee is overtopped by a flood equal to the existing level of protection due to induced rise

3/ Restrictions needed on future levee development for levees with < 500yr level of protection

ATTACHMENT 42. PLAN E OPTION 3 ER LOCATION OPPORTUNITIES FOR ILLINOIS RIVER
(Yellow = Areas with cost of levee improvements exceeding the value of the lands, and land use in area <10% urban)

Leveed Area	Mid Point River Mile	Total Site Acres	Acres			Percent Site			Induced Rise				Overtopping Flood Event						Flood Damage Reduction Feature Code	Cost of Levee Raise Exceeds Land Value (Y/N)	D&LD Less Than 10% Urban	ER Opportunity				
			Urban	Ag	Other	Urban	Ag	Other	50-yr	100-yr	200-yr	500-yr	50-yr		100yr		200yr		W	O	W	O	W	O		
													W	O	W	O	W	O								
Ottawa																										
East Peoria Sanitary District	162.4	296	223	0	73	76	0	24	0.0	0.1	0.1	0.1	N	N	N	N	N	N	N	N	Raise levee to 500-yr					
East Peoria	161.2	1092	940	0	152	86	0	14	0.0	0.1	0.1	0.1	N	N	N	N	N	Y	N		Raise levee to 500-yr	Y	N	N		
North Pekin	161.2				?	?	?	?	0.1	0.1	0.1	0.2	N	N	N	N	N	Y	N		Existing Levee is at or above plan design level	N	-	N		
Pekin-LaMarsh	152.4	2686	262	2046	378	10	76	14	0.1	0.1	0.2	0.4	N	N	Y	N	Y	N	Y	N	Raise levee to 50-yr		Y	N		
Rocky Ford	152.4	1585	--	1585	--	100	--	0.1	0.2	0.3	0.6	N	N	Y	Y	Y	Y	Y	Y	Y	Conservation Levee - No Raise		-	N		
Spring Lake	141.0	12959	170	10645	2144	1	82	17	0.1	0.2	0.4	0.7	N	N	Y	N	Y	N	Y	N	Existing Levee is at or above plan design level		Y	N		
East Liverpool	141.0	3236	99	2645	492	3	82	15	0.1	0.3	0.5	1.0	N	N	N	N	N	N	N	N	Raise levee to 500-yr		Y	N		
Liverpool	130.1	2920	7	2770	143	0	95	5	0.2	0.4	0.6	1.1	N	N	N	N	N	Y	N		Existing levee is at or above the plan design level		Y	N		
Lacey, Langellier, W.Matanzas, Kerton Valley	115.6	11235	143	10248	844	1	91	8	0.2	0.4	0.6	1.1	N	N	N	N	N	N	N		Existing Levee is at or above plan design level		Y	N		
Seahorn	115.6	1629	32	1463	134	2	90	8	0.2	0.4	0.6	1.1	Y	N	Y	N	Y	N	Y	N	Raise Levee to 50-yr			Y	N	
Big Lake	105.7	3916	26	3751	139	1	96	3	0.2	0.4	0.7	1.1	N	N	Y	N	Y	N	Y	N	Raise levee to 50-yr		N	N	N	
Kelly Lake	101.7	1161	6	927	228	1	80	19	0.2	0.4	0.7	1.1	N	N	N	N	N	N	N		Existing Levee is at or above plan design level	Y	Y	Y		
Hager Slough	92.0	6915	44	5693	1178	1	82	17	0.2	0.4	0.7	1.1	N	N	Y	N	Y	N	Y	N	Raise levee to 50-yr		Y	N		
Lost Creek	89.7	3468	267	2754	447	8	79	13	0.2	0.4	0.7	1.1	N	N	N	N	N	N	N		Existing Levee is at or above plan design level	Y	Y	Y		
Sanitary Dist. of Beardstown	88.6	858	807	13	38	94	2	4	0.2	0.4	0.7	1.1	N	N	N	N	N	N	N		Raise levee to 500-yr		Y	N		
Coal Creek	88.5	6272	75	5757	440	1	92	7	0.2	0.4	0.7	1.0	N	N	N	N	N	N	N		Existing Levee is at or above plan design level		Y	N		
Crane Creek	84.2	4292	26	3985	281	1	93	6					N	N	N	N	Y	N	Y		Raise Levee to 50-yr		-	N		
South Beardstown	84.2	8467	340	7125	1002	4	4	11	0.3	0.4	0.7	1.0	N	N	N	N	N	N	N		Existing Levee is at or above plan design level		N	N		
Little Creek	76.7	1639	7	1194	438	0	73	27	0.3	0.4	0.6	1.0	Y	N	Y	N	Y	N	Y		Raise Levee to 50-yr	Y	Y	Y		
McGee Creek	71.4	12605	65	11543	997	1	92	7	0.3	0.4	0.6	0.9	N	N	N	N	N	N	N		Existing Levee is at or above plan design level		Y	N		
Meredosia & Willow Cr	69.4	16946	1050	13029	2867	6	77	17	0.3	0.4	0.6	0.9	N	N	N	N	N	N	N		Existing Levee is at or above plan design level		Y	N		
Coon Run	68.9	2423	7	2248	168	0	93	7	0.2	0.3	0.5	0.9									Existing Levee is at or above plan design level		Y	N		
Smith Lake	67.2				?	?	?	?	0.2	0.3	0.5	0.9	Y	N	Y	N	Y	N	Y		Raise levee to 50-yr		Y	N		
Oakes	66.3	617	3	583	31	0	95	5	0.2	0.3	0.5	0.9									Raise levee to 50-yr	Y	Y	Y		
Valley City	65.1	4790	21	4218	551	0	88	12	0.2	0.3	0.5	0.9	N	N	N	Y	N	Y	N		Raise levee to 50-yr	Y	Y	Y		
Mauvaise Terre	64.8	5667	168	4986	513	3	88	9	0.2	0.3	0.5	0.9	N	N	N	N	N	Y	N		Raise levee to 50-yr		Y	N		
Robertson	63.3	852	10	721	121	1	85	14	0.2	0.3	0.6	0.9	Y	N	Y	N	Y	N	Y		Raise levee to 50-yr	Y	Y	Y		
Scott County	59.3	11599	143	10309	1147	1	89	10	0.2	0.4	0.6	1.0	N	N	N	N	N	Y	N		Raise levee to 50-yr	Y	Y	Y		
Walnut Creek	56.3	500	--	500	--	--	100	--	0.2	0.4	0.6	1.0									Raise levee to 50-yr		Y	-	Y	
Big Swan	53.6	13775	177	12937	661	1	94	5	0.2	0.4	0.6	1.0	N	N	Y	N	Y	N	Y		Raise levee to 50-yr		Y	Y	Y	
Hillview	46.6	13106	62	12580	464	0	96	4	0.3	0.4	0.6	1.0	N	N	N	Y	N	Y	N		Raise levee to 50-yr		Y	Y	Y	
Village of Pearl	43.2				?	?	?	?	0.3	0.4	0.5	0.7									Raise levee to 50-yr		Y	-	Y	
Hartwell	40.7	9582	16	8922	644	0	93	7	0.3	0.4	0.5	0.6	Y	N	Y	N	Y	N	Y		Raise levee to 50-yr		Y	Y	Y	
Keach	35.3	9304	54	8680	570	1	93	6	0.3	0.4	0.5	0.5	N	N	Y	N	Y	N	Y		Raise levee to 50-yr		Y</td			

ATTACHMENT 43. PLAN E OPTION 4 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER
(Yellow = Areas with <100-Year level of protection with a project in place, without flowage easements, but with a levee raise required)

Leveed Area	Mid Point River Mile	Total Site Acres	Acres			Percent Total Site			Induced Rise				Overtopping Flood Event						Flood Damage Reduction Feature Code	Less Than 100-Yr Protection with Project	Easements Not Required (Y/N)	Levee Raise Required (Y/N)	OPTION 4: ER Opportunities	
									50-yr	100-yr	200-yr	500-yr	50-yr	100yr	200yr	500yr								
			U	Ag	Other	U	Ag	Other*	W O	W	W O	W	W O	W	W O	W								
Dubuque	580.60	1084	973	0	111	90	0	10	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is Adequate	N	Y	N	N	N		
Sabula	535.00	561	110	11	440	20	2	78	0.0	0.0	0.0	0.0	N	N	N	N	Raise levee to 500-yr	N	Y	Y	N			
REACH 1 SUBTOTALS	--	0	0	0	0						--	--	--	--	--	--	--		---		--			
Fulton	519.80	6803	1440	3800	1563	21	56	23	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is Adequate	N	Y	N	N	N		
Clinton	517.30	1891	1687	74	130	89	0	11	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is Adequate	N	Y	N	N	N		
Meredosia	511.50	10493	187	8899	1407	2	85	13	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is at or above plan design level	Y	Y	N	N	N		
East Moline	489.30	960	838	16	106	87	2	11	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is Adequate	N	Y	N	N	N		
Bettendorf	486.60	427	387	0	40	91	0	9	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is Adequate	N	Y	N	N	N		
Rock Island	481.20	823	678	0	145	82	0	18	0.0	0.0	0.0	0.0	N	N	N	N	Raise levee to 500-yr	N	Y	Y	N	N		
Milan	478.50	2202	851	454	897	39	21	40	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is Adequate	N	Y	N	N	N		
Andalusia	473.40	105	0	5	100	0	5	95	0.0	0.0	0.0	0.0	N	N	Y	Y	Raise levee to 500-yr	N	Y	Y	N	N		
Muscatine/Mad Creek	456.00	1	1	0	0	100	0	0	0.0	0.0	0.0	0.0	N	N	N	N	Raise levee to 500-yr	N	Y	Y	N	N		
Drury	455.20	5077	69	4463	545	1	88	11	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is at or above plan design level	N	Y	N	N	N		
Muscatine Island	448.40	30099	4711	19360	6028	16	64	20	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is Adequate	N	Y	N	N	N		
Bay Island	442.60	19,974	133	17076	2765	1	85	14	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is at or above design level	Y	Y	N	N	N		
Iowa R.-Flint Cr	427.90	45528	1251	39883	4394	3	88	9	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is Adequate	N	Y	N	N	N		
Keithsburg	427.60	119	111	0	8	93	0	7	0.0	0.0	0.0	0.0	N	N	Y	Y	Raise levee to 500-yr	N	Y	Y	N			
Henderson #1	407.30	8488	299	6071	2118	4	72	24	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is at or above plan design level	N	Y	N	N	N		
Henderson #2	402.40	8681	249	7188	1244	3	83	14	0.0	0.0	0.0	0.0	N	N	N	N	Raise levee to 50-yr	Y	Y	Y	Y	Y		
Green Bay	391.00	15160	473	13368	1319	0	12	88	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is at or above plan design level	Y	N	Y	N	N		
REACH 2 SUBTOTALS		8681	249	7188	1244																			
Des Moines/Mississippi	358.95	8525	236	7544	745	3	88	9	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is at or above plan design level	N	Y	N	N	N		
Mississippi & Fox	357.75	8657	57	7800	800	1	90	9	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is at or above plan design level	N	N	N	N	N		
Hunt-Lima	351.65	17012	124	16010	878	1	94	5	0.0	0.0	0.0	0.0	N	N	N	N	Y	Y	Y	N	N	N	N	
Gregory	351.25	8975	37	7183	1755	0	80	20	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is at or above plan design level	N	Y	N	N	N		
Canton	342.00	592	385	100	107	65	17	18	0.0	0.0	0.0	0.0	N	N	N	N	Raise levee to 500-yr	N	Y	Y	N	N		
Indian Grave	338.75	19615	142	18093	1380	1	92	7	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is at or above plan design level	N	Y	N	N	N		
Union Township	333.30	4007	147	2784	1076	4	69	27	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is at or above plan design level	N	N	N	N	N		
Fabius	327.75	15065	345	13302	1418	2	88	10	0.0	0.0	0.0	0.0	N	N	N	N	Y	Y	Y	Y	N	N	N	
Marion County	322.40	4102	6	3800	296	0	93	7	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is at or above plan design level	N	N	N	N	N		
South Quincy	321.70	5767	578	3759	1430	10	65	25	0.0	0.0	0.0	0.0	N	N	N	N	Raise levee to 500-yr	N	Y	Y	N	N		
South River Industrial	319.00	1626	1626	0	0	100	--	--	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is Adequate	N	Y	N	N	N		
South River	315.65	10155	313	8652	1190	3	85	12	0.0	0.0	0.0	0.0	N	N	N	N	Raise levee to 50-yr	Y	N	Y	N	N		
Hannibal	309.50	40	40	0	0	100	0	0	0.0	0.0	0.0	0.0	N	N	N	N	Raise levee to 500-yr	N	Y	Y	N	N		
Sny Island Reach I	307.60	44571	632	39663	4276	1	89	10	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is at or above plan design level	N	N	N	N	N		
Sny Island Reach II	292.45	17277	189	15912	1176	1	92	7	0.0	0.0	0.0	0.0	N	N	N	N	Existing Levee is at or above plan design level	N	N	N	N	N		
Sny Island Reach III	282.25	43098	370	35711	7017	1	83	16	0.1	0.1	0.1	0.0	N	N	N	N	Existing Levee is at or above plan design level	N	N	N	N	N		
Petus-Burns-Prewitt-Jeager Private Levee	271.60	501	10	42																				

ATTACHMENT 43. PLAN E OPTION 4 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER (CONTINUED)
(Yellow = Areas with <100-Year level of protection with a project in place, without flowage easements, but with a levee raise required)

Leveed Area	Mid Point River Mile	Total Site Acres	Acres			Percent Total Site			Induced Rise				Overtopping Flood Event								Flood Damage Reduction Feature Code	Less Than 100-Yr Protection with Project	Easements Not Required (Y/N)	Levee Raise Required (Y/N)	OPTION 4: ER Opportunities					
			U	A	Other	U	A	Other	50-yr	100-yr	200-yr	500-yr	50-yr		100yr		200yr		500yr											
													W O	W	W O	W	W O	W	W O	W										
Clarksville Levees	269.04	2151	2	1675	474	0	78	22	0.2	0.2	0.3	0.3	N	N	N	N	N	N	Y	Y	Raise levee to 50-yr	Y	N	Y	N					
Sny Island Reach IV	268.75	11518	44	9586	1888	0	83	17	0.2	0.3	0.3	0.3	N	N	N	N	N	N	N	N	Existing Levee is at or above plan design level	N	Y	N	N					
Kissinger Levee District	266.41	2498	4	2148	346	0	86	14	0.3	0.3	0.3	0.4	N	N	N	N	N	N	Y	Y	Raise levee to 50-yr	Y	N	Y	N					
Busch-Goose Pasture Farms	264.10	447	1	341	105	0	76	24	0.3	0.4	0.4	0.5	N	N	Y	N	Y	N	Y	Y	Raise levee to 50-yr	Y	N	Y	N					
Cannon Wildlife Refuge Levee	262.24	3477	3	1141	2333	0	33	67	0.4	0.5	0.5	0.6	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	Y	N	N	N					
Annada	262.22	3320	25	1554	1741	1	47	52	0.4	0.5	0.6	0.6	Y	Y	Y	Y	Y	Y	Y	Y	Raise levee to 50-yr	Y	N	Y	N					
Elsberry Drainage District	255.94	18502	138	16254	2110	1	88	11	0.4	0.4	0.5	0.5	N	N	N	N	Y	Y	Y	Y	Raise levee to 50-yr	Y	N	Y	N					
Kings Lake Drainage District	249.04	3212	21	1108	2083	1	34	65	0.4	0.4	0.3	0.1	Y	N	Y	Y	Y	Y	Y	Y	Raise levee to 50-yr	Y	N	Y	N					
Sandy Creek Drainage District	245.70	1082	21	806	255	2	74	24	0.3	0.3	0.2	0.0	Y	N	Y	N	Y	Y	Y	Y	Raise levee to 50-yr	Y	N	Y	N					
Foley Drainage District	245.03	1168	98	947	123	8	81	11	0.3	0.3	0.2	0.0	Y	N	Y	N	Y	Y	Y	Y	Raise levee to 50-yr	Y	N	Y	N					
Cap Au Gris D&LD	241.16	4812	241	3898	674	5	81	14	0.4	0.3	0.2	0.0	Y	N	Y	N	Y	Y	Y	Y	Raise levee to 50-yr	Y	N	Y	N					
Winfield D&LD	238.88	1661	56	1480	125	3	89	8	0.4	0.3	0.2	0.0	Y	N	Y	N	Y	N	Y	Y	Raise levee to 50-yr	Y	N	Y	N					
Brevator D&LD	238.08	2092	92	1744	256	4	83	13	0.4	0.3	0.2	0.0	Y	N	Y	N	Y	Y	Y	Y	Raise levee to 50-yr	Y	N	Y	N					
Schramm Private Levee	237.25	273	1	210	62	0	77	23	0.4	0.3	0.2	0.0	Y	N	Y	N	Y	Y	Y	Y	Raise levee to 50-yr	Y	N	Y	N					
Old Monroe Private Levee	236.75	802	60	700	42	7	87	6	0.4	0.3	0.2	0.0	Y	N	Y	N	Y	Y	Y	Y	Raise levee to 50-yr	Y	N	Y	N					
Heitman Private Levee	236.39	196	1	182	13	1	93	6	0.4	0.3	0.2	0.0	Y	N	Y	N	Y	Y	Y	Y	Raise levee to 50-yr	Y	N	Y	N					
Marslan-Portuchek Private Levee	236.09	888	7	817	64	44	45	11	0.4	0.3	0.2	0.0	Y	N	Y	N	Y	Y	Y	Y	Raise levee to 50-yr	Y	N	Y	N					
St. Peters Drainage Association No. 1/Urban	230.02	1098	202	662	234	18	60	22	0.4	0.3	0.2	0.0	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	Y	N					
St. Peters Drainage Association No. 1	229.76								0.4	0.3	0.2	0.0	Y	N	Y	Y	Y	Y	Y	Y	Raise levee to 50-yr	Y	N	Y	N					
Consolidated North County Levee District	206.25	18706	881	15280	2545	3	51	46	0.4	0.4	0.4	0.2									Remains at existing conditions	Y	Y	N	N					
Wood River	198.05	11325	6438	3019	1868	57	27	16	0.4	0.4	0.4	0.2	N	N	N	N	N	N	N	N	Existing Levee is Adequate	N	Y	N	N					
Columbia Bottoms Levee	194.15	4434	70	4030	334	2	10	88	0.4	0.4	0.4	0.2	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	N								
Chouteau Island D&LD	191.19	2033	236	914	883	12	45	43	0.4	0.4	0.4	0.2	Y	N	Y	Y	Y	Y	Y	Y	Raise levee to 50-yr	Y	N	Y	N					
Chouteau, Nameoki and Venice D&LD	189.89	4800	--	4800	--	--	100	--	0.4	0.4	0.4	0.2	N	N	N	N	N	N	N	N	Existing Levee is Adequate	N	Y	N	N					
Gabaret/Cabrolet Island D&LD	187.32	776	3	673	100	0	87	13	0.4	0.4	0.4	0.2	Y	N	Y	Y	Y	Y	Y	Y	Raise levee to 50-yr	Y	N	Y	N					
St. Louis Flood Protection Project	181.69	3003	2750	0	253	92	0	8	0.3	0.4	0.3	0.1	N	N	N	N	N	N	N	N	Existing Levee is Adequate	N	Y	N	N					
Metro East Sanitary Dist.	179.35	86031	36418	27607	22006	42	32	26	0.3	0.4	0.3	0.1	N	N	N	N	N	N	N	N	Existing Levee is Adequate	N	Y	N	N					
Prairie du Pont	170.71	12766	2103	8755	1908	16	69	15	0.3	0.3	0.3	0.0	Y	Y	Y	Y	Y	Y	Y	Y	Existing Levee is Adequate	N	Y	N	N					
Columbia	160.89	13730	212	12640	878	2	92	6	0.3	0.3	0.2	0.0	N	N	N	N	N	N	Y	Y	Raise levee to 50-yr	Y	N	N	N					
Harrisonville	142.89	26836	612	24068	2156	2	90	8	0.3	0.3	0.2	0.0	N	N	N	N	N	N	N	N	Existing Levee is at or above plan design level	Y	Y	N	N					

ATTACHMENT 43. PLAN E OPTION 4 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER (CONTINUED)
(Yellow = Areas with <100-Year level of protection with a project in place, without flowage easements, but with a levee raise required)

Leveed Area	Mid Point River Mile	Total Site Acres	Acres			Percent Total Site			Induced Rise				Overtopping Flood Event				Flood Damage Reduction Feature Code	Less Than 100-Yr Protection with Project (Y/N)	Easements Not Required (Y/N)	Levee Raise Required (Y/N)	OPTION 4: ER Opportunities		
									50-yr	100-yr	200-yr	500-yr	50-yr	100yr	200yr	500yr							
			U	A	Other	U	A	Other	W O	W	W O	W	W O	W	W O	W							
Stringtown	139.50	2673	40	2570	63	1	96	3	0.3	0.3	0.2	0.1	N	N	N	N	N	N	Existing Levee is at or above plan design level	Y	Y	N	N
Fort Chartres & Ivy Landing	134.00	15232	268	13283	1681	2	87	2	0.3	0.3	0.3	0.2	N	N	N	N	N	N	Existing Levee is at or above plan design level	Y	Y	N	N
Prairie Du Rocher & Modoc	124.45	15891	251	14449	1191	2	91	7	0.3	0.3	0.3	0.1	N	N	N	N	N	N	Existing Levee is at or above plan design level	N	Y	N	N
Ste. Genevieve Urban Levee	123.75				--	--	--	--	0.3	0.3	0.3	0.1	N		N		N		Raise levee to 500-yr	N	Y	Y	N
Ste. Genevieve Levee District No. 2	119.51	7852	11	7178	663	0	92	8	0.3	0.3	0.3	0.1	Y	Y	Y	Y	Y	Y	Remains at existing conditions	Y	N	N	N
Kaskaskia Island	113.40	9365	125	8755	485	1	93	6	0.3	0.3	0.3	0.1	N	N	N	N	N	N	Existing Levee is at or above plan design level	N	Y	N	N
Bois Brule	103.22	26483	490	24710	1283	2	93	5	0.3	0.3	0.2	0.1	N	N	N	Y	Y	Y	Raise Levee to 50yr	Y	N	Y	N
Degognia & Fountain Bluff	91.75	39121	1073	32764	5284	3	84	13	0.3	0.3	0.3	0.1	N	N	N	N	Y	Y	Existing Levee is at or above plan design level	N	N	N	N
Grand Tower	78.90	14438	399	7196	6843	3	50	47	0.2	0.2	0.2	0.1	N	N	N	N	Y	Y	Existing Levee is at or above plan design level	Y	N	N	N
Preston	70.75	16104	351	11454	4299	2	71	27	0.2	0.2	0.2	0.0	N	N	N	N	Y	Y	Existing Levee is Adequate	N	N	N	N
Miller Pond	70.73	3790	30	3465	295	1	91	8	0.2	0.2	0.2	0.0	N	N	N	N	Y	Y	Existing Levee is at or above plan design level	N	N	N	N
Clear Creek	61.02	15882	284	10387	5211	2	65	33	0.2	0.2	0.1	0.0	N	N	N	N	Y	Y	Existing Levee is at or above plan design level	N	N	N	N
Cape Girardeau	52.15	22	4	0	18	3	0	97	0.2	0.1	0.1	0.0	N		N		N		Existing Levee is Adequate	N	N	N	N
N. Alexander Co.	51.47	3019	62	1370	1587	2	45	53	0.2	0.1	0.1	0.0	N	N	N	N	Y	Y	Existing Levee is at or above plan design level	N	N	N	N
E. Cape Girardeau & Clear Creek	51.45	10410	349	7364	2697	3	71	26	0.2	0.1	0.1	0.0	N	N	N	N	Y	Y	Existing Levee is at or above plan design level	N	N	N	N
REACH 3 SUBTOTALS	--	0	0	0	0				--	--	--	--	--	--	--	--	--	--	--	--	--	--	

Reason for Easements: 1/ Induced water rise relative to 500yr flood of > 1-foot for levees with >50 yr level of protection

2/ Levee is overtopped by a flood equal to the existing level of protection due to induced rise

3/ Restrictions needed on future levee development for levees with < 500yr level of protection

ATTACHMENT 44. PLAN E OPTION 4 ER LOCATION OPPORTUNITIES FOR ILLINOIS RIVER
(Yellow = Areas with <100-Year level of protection with a project in place, without flowage easements, but with a levee raise required)

Leveed Area	Mid Point River Mile	Total Site Acres	Acres			Percent Site			Induced Rise				Overtopping Flood Event						Flood Damage Reduction Feature Code	Less Than 100-Yr Protection with Project	Easements Not Required (Y/N)	Levee Raise Required (Y/N)	OPTION 4: ER Opportunities				
			Urban	Ag	Other	Urban	Ag	Other	50-yr	100-yr	200-yr	500-yr	50-yr		100yr		200yr		W	O	W	O	W	O	W	O	
													W	O	W	O	W	O									
Ottawa																											
East Peoria Sanitary District	162.4	296	223	0	73	76	0	24	0.0	0.1	0.1	0.1	N	N	N	N	N	N	N	N	Raise levee to 500-yr						
East Peoria	161.2	1092	940	0	152	86	0	14	0.0	0.1	0.1	0.1	N	N	N	N	N	Y	N								
North Pekin	161.2				?	?	?	?	0.1	0.1	0.1	0.2	N	N	N	N	N	Y	N		Existing Levee is at or above plan design level						
Pekin-LaMarsh	152.4	2686	262	2046	378	10	76	14	0.1	0.1	0.2	0.4	N	N	Y	N	Y	N	Y		Raise levee to 50-yr						
Rocky Ford	152.4	1585	--	1585	--	100	--	0.1	0.2	0.3	0.6	N	N	Y	Y	Y	Y	Y		Conservation Levee - No Raise							
Spring Lake	141.0	12959	170	10645	2144	1	82	17	0.1	0.2	0.4	0.7	N	N	Y	N	Y	N		Existing Levee is at or above plan design level							
East Liverpool	141.0	3236	99	2645	492	3	82	15	0.1	0.3	0.5	1.0	N	N	N	N	N	N	N		Raise levee to 500-yr						
Liverpool	130.1	2920	7	2770	143	0	95	5	0.2	0.4	0.6	1.1	N	N	N	N	N	Y	N		Existing levee is at or above the plan design level						
Lacey, Langellier, W.Matanzas, Kerton Valley	115.6	11235	143	10248	844	1	91	8	0.2	0.4	0.6	1.1	N	N	N	N	N	N	N		Existing Levee is at or above plan design level						
Seahorn	115.6	1629	32	1463	134	2	90	8	0.2	0.4	0.6	1.1	Y	N	Y	N	Y	N	Y		Raise Levee to 50-yr						
Big Lake	105.7	3916	26	3751	139	1	96	3	0.2	0.4	0.7	1.1	N	N	Y	N	Y	N	Y		Raise levee to 50-yr						
Kelly Lake	101.7	1161	6	927	228	1	80	19	0.2	0.4	0.7	1.1	N	N	N	N	N	N	N		Existing Levee is at or above plan design level						
Hager Slough	92.0	6915	44	5693	1178	1	82	17	0.2	0.4	0.7	1.1	N	N	Y	N	Y	N	Y		Raise levee to 50-yr						
Lost Creek	89.7	3468	267	2754	447	8	79	13	0.2	0.4	0.7	1.1	N	N	N	N	N	N	N		Existing Levee is at or above plan design level						
Sanitary Dist. of Beardstown	88.6	858	807	13	38	94	2	4	0.2	0.4	0.7	1.1	N	N	N	N	N	N	N		Raise levee to 500-yr						
Coal Creek	88.5	6272	75	5757	440	1	92	7	0.2	0.4	0.7	1.0	N	N	N	N	N	N	N		Existing Levee is at or above plan design level						
Crane Creek	84.2	4292	26	3985	281	1	93	6					N	N	N	N	Y	N	Y		Raise Levee to 50-yr						
South Beardstown	84.2	8467	340	7125	1002	4	4	11	0.3	0.4	0.7	1.0	N	N	N	N	N	N	N		Existing Levee is at or above plan design level						
Little Creek	76.7	1639	7	1194	438	0	73	27	0.3	0.4	0.6	1.0	Y	N	Y	N	Y	N	Y		Raise Levee to 50-yr						
McGee Creek	71.4	12605	65	11543	997	1	92	7	0.3	0.4	0.6	0.9	N	N	N	N	N	N	N		Existing Levee is at or above plan design level						
Meredosia & Willow Cr	69.4	16946	1050	13029	2867	6	77	17	0.3	0.4	0.6	0.9	N	N	N	N	N	N	N		Existing Levee is at or above plan design level						
Coon Run	68.9	2423	7	2248	168	0	93	7	0.2	0.3	0.5	0.9									Existing Levee is at or above plan design level						
Smith Lake	67.2				?	?	?	?	0.2	0.3	0.5	0.9	Y	N	Y	N	Y	N	Y		Raise levee to 50-yr						
Oakes	66.3	617	3	583	31	0	95	5	0.2	0.3	0.5	0.9									Raise levee to 50-yr						
Valley City	65.1	4790	21	4218	551	0	88	12	0.2	0.3	0.5	0.9	N	N	N	Y	N	Y	N		Raise levee to 50-yr						
Mauvaise Terre	64.8	5667	168	4986	513	3	88	9	0.2	0.3	0.5	0.9	N	N	N	N	N	Y	N		Raise levee to 50-yr						
Robertson	63.3	852	10	721	121	1	85	14	0.2	0.3	0.6	0.9	Y	N	Y	N	Y	N	Y		Raise levee to 50-yr						
Scott County	59.3	11599	143	10309	1147	1	89	10	0.2	0.4	0.6	1.0	N	N	N	N	Y	N		Raise levee to 50-yr							
Walnut Creek	56.3	500	--	500	--	--	100	--	0.2	0.4	0.6	1.0									Raise levee to 50-yr						
Big Swan	53.6	13775	177	12937	661	1	94	5	0.2	0.4	0.6	1.0	N	N	Y	N	Y	N	Y		Raise levee to 50-yr						
Hillview	46.6	13106	62	12580	464	0	96	4	0.3	0.4	0.6	1.0	N	N	N	Y	N	Y	N		Raise levee to 50-yr						
Village of Pearl	43.2				?	?	?	?	0.3	0.4	0.5	0.7										Raise levee to 50-yr					
Hartwell	40.7	9582	16	8922	644	0	93	7	0.3	0.4	0.5	0.6	Y	N	Y	N	Y	N	Y		Raise levee to 50-yr						
Keach	35.3	9304	54	8680	570	1	93	6	0.3	0.4	0.5	0.5	N</td														

ATTACHMENT 45. PLAN H OPTION 3 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER (CONTINUED)
(Yellow = Areas with cost of levee improvements exceeding the value of the lands, and land use in area is <10% urban)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres			Percent Total Site			Induced Rise				Overtopping Flood Event				Flood Damage Reduction Feature	Cost of Levee Raise Exceeds Cost of Lands (Y/N)	D&LD Less Than 10% Urban (Y/N)	OPTION 3: ER OPPORTUNITY (Y/N)			
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	Without	50-Yr with	Without	100-Yr with	Without	200-Yr with					
Dubuque	580.60	1084	973	0	111	90	0	10	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Existing Levee is Adequate	N	N	N	
Sabula	535.00	561	110	11	440	20	2	78	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Raise levee to 500-yr	Y	N	N	
REACH 1 SUBTOTALS	--	0	0	0	0								--	--	--	--	--	--	--	--	--	--	
Fulton	519.80	6803	1440	3800	1563	21	56	23	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Existing Levee is Adequate	N	N	N	
Clinton	517.30	1891	1687	74	130	89	0	11	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Existing Levee is Adequate	Y	N	N	
Meredosia	511.50	10493	187	8899	1407	2	85	13	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	N	
East Moline	489.30	960	838	16	106	87	2	11	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Existing Levee is Adequate	Y	N	N	
Bettendorf	486.60	427	387	0	40	91	0	9	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Existing Levee is Adequate	N	N	N	
Rock Island	481.20	823	678	0	145	82	0	18	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Raise levee to 500-yr	Y	N	N	
Milan	478.50	2202	851	454	897	39	21	40	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Raise levee to 500-yr	N	N	N	
Andalusia	473.40	105	0	5	100	0	5	95	0.0	0.0	0.0	0.0	N	N	N	Y	N	Y	Raise levee to 500-yr	Y	N	N	
Muscatine/Mad Creek	456.00	1	1	0	0	100	0	0	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Raise levee to 500-yr	N	N	N	
Drury	455.20	5077	69	4463	545	1	88	11	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Raise levee to 500-yr	Y	Y	Y	
Muscatine Island	448.40	30099	4711	19360	6028	16	64	20	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Existing Levee is Adequate	N	N	N	
Bay Island	442.60	19,974	133	17076	2765	1	85	14	0.0	0.0	0.0	0.0	N	N	N	N	N	Y	Raise levee to 500-yr	N	Y	N	
Iowa R.-Flint Cr Upper	427.90	45528	1251	39883	4394	3	88	9	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	N	
Keithsburg	427.60	119	111	0	8	93	0	7	0.0	0.0	0.0	0.0	N	N	N	N	N	Y	Raise levee to 500-yr	Y	N	N	
Iowa R.-Flint Cr Middle	416.40								0.0	0.0	0.0	0.0	N	N	N	N	N	Y	Raise levee to 500-yr	N	-	N	
Iowa R.-Flint Cr Lower	408.10								0.0	0.0	0.0	0.0	N	N	N	N	N	N	Raise levee to 500-yr	N	-	N	
Henderson #1	407.30	8488	299	6071	2118	4	72	24	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	N	
Henderson #2	402.40	8681	249	7188	1244	3	83	14	0.0	0.0	0.0	0.0	N	N	N	N	Y	N	Raise levee to 500-yr	N	Y	N	
Green Bay	391.00	15160	473	13368	1319	0	12	88	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	N	
REACH 2 SUBTOTALS	--	5077	69	4463	545								--	--	--	--	--	--	--	--	--	--	
Des Moines/Mississippi	358.95	8525	236	7544	745	3	88	9	0.0	0.2	0.3	0.7	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	N	
Mississippi & Fox Upper	357.75	8657	57	7800	800	1	90	9	0.0	0.2	0.3	0.7	N	N	N	N	N	Y	Raise levee to 500-yr	N	Y	N	
Mississippi & Fox Lower	356.20								0.1	0.2	0.3	0.7	N	N	N	Y	N	Y	Raise levee to 500-yr	N	Y	N	
Hunt-Lima	351.65	17012	124	16010	878	1	94	5	0.0	0.2	0.4	0.7	N	N	N	N	N	Y	Raise levee to 500-yr	N	Y	N	
Gregory	351.25	8975	37	7183	1755	0	80	20	0.0	0.2	0.3	0.7	N	N	N	N	N	Y	Raise levee to 500-yr	N	Y	N	
Canton	342.00	592	385	100	107	65	17	18	0.1	0.2	0.4	0.8	N	N	N	N	N	N	Raise levee to 500-yr	Y	N	N	
Indian Grave Upper	338.75	19615	142	18093	1380	1	92	7	0.1	0.2	0.4	0.9	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	N	
Union Township	333.30	4007	147	2784	1076	4	69	27	0.1	0.2	0.5	1.0	N	N	N	N	Y	N	Raise levee to 500-yr	N	Y	N	
Indian Grave Lower	332.85								0.1	0.3	0.5	1.0	N	N	N	Y	N	Y	Raise levee to 500-yr	N	Y	N	
Fabius	327.75	15065	345	13302	1418	2	88	10	0.1	0.3	0.6	1.1	N	N	N	N	N	Y	Raise levee to 500-yr	N	Y	N	
Marion County	322.40	4102	6	3800	296	0	93	7	0.1	0.3	0.7	1.4	N	N	N	Y	N	Y	Raise levee to 500-yr	Y	Y	Y	
South Quincy	321.70	5767	578	3759	1430	10	65	25	0.1	0.3	0.7	1.5	N	N	N	N	N	N	Raise levee to 500-yr	Y	Y	Y	
South River Industrial	319.00	1626	1626	0	0	100	--	--	0.1	0.4	0.9	1.8	N	N	N	N	N	N	Existing Levee is Adequate	N	--	N	
South River	315.65	10155	313	8652	1190	3	85	12	0.2	0.5	1.1	2.2	N	N	N	N	Y	N	Raise levee to 500-yr	N	Y	N	
Hannibal	309.50	40	40	0	0	100	0	0	0.2														

ATTACHMENT 45. PLAN H OPTION 3 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER (CONTINUED)
(Yellow = Areas with cost of levee improvements exceeding the value of the lands, and land use in area is <10% urban)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres			Percent Total Site			Induced Rise			Overtopping Flood Event						Flood Damage Reduction Feature	Cost of Levee Raise Exceeds Cost of Lands (Y/N)	D&LD Less Than 10% Urban (Y/N)	OPTION 3: ER OPPORTUNITY (Y/N)						
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	Without	50-Yr	Without	100-Yr	With	Without	200-Yr	With	Without	50-Yr	With				
Clarksville Levees	269.04	2151	2	1675	474	0	78	22	0.4	0.7	1.3	2.3	N	N	N	N	N	Y	Y	Y	Y	Y	Y	c	d	h	
Sny Island Reach IV	268.75	11518	44	9586	1888	0	83	17	0.4	0.8	1.3	2.3	N	N	N	N	N	N	N	N	N	N	N	Y	Y	Y	
Kissinger Levee District	266.41	2498	4	2148	346	0	86	14	0.5	0.8	1.3	2.4	N	N	N	Y	N	Y	Y	Y	Y	Y	Y	N	Y	N	
Busch-Goose Pasture Farms	264.10	447	1	341	105	0	76	24	0.6	0.9	1.4	2.5	N	N	Y	N	Y	N	Y	Y	N	N	N	Y	Y	Y	
Cannon Wildlife Refuge	262.24	3477	3	1141	2333	0	33	67	0.6	1.0	1.5	2.5	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	N	
Annada	262.22	3320	25	1554	1741	1	47	52	0.7	1.0	1.6	2.5	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	N
Elsberry Drainage District	255.94	18502	138	16254	2110	1	88	11	0.7	1.0	1.5	2.4	N	N	N	N	N	N	N	Y	N	N	Y	Y	Y	Y	
Elsberry Drainage Dist - A		5300	--	5300	--	--	100	--	0.6	1.0	1.5	2.4	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	--	--	N	
Kings Lake Drainage District	249.04	3212	21	1108	2083	1	34	65	0.6	0.9	1.2	1.9	N	N	Y	N	Y	Y	Y	Y	Y	Y	Y	N	Y	N	
Sandy Creek D. District	245.70	1082	21	806	255	2	74	24	0.5	0.8	1.1	1.8	Y	N	Y	N	Y	N	Y	N	Y	N	Y	Y	Y		
Foley Drainage District	245.03	1168	98	947	123	8	81	11	0.5	0.8	1.1	1.8	Y	N	Y	N	Y	N	Y	N	Y	N	Y	Y	Y		
Cap Au Gris D&LD	241.16	4812	241	3898	674	5	81	14	0.6	0.8	1.0	1.6	Y	N	Y	N	Y	N	Y	N	Y	N	Y	Y	Y		
Winfield D&LD	238.88	1661	56	1480	125	3	89	8	0.6	0.8	1.1	1.7	Y	N	Y	N	Y	N	Y	N	Y	N	Y	Y			
Brevator D&LD	238.08	2092	92	1744	256	4	83	13	0.6	0.8	1.1	1.6	Y	N	Y	N	Y	N	Y	N	Y	N	Y	Y			
Schramm Private Levee	237.25	273	1	210	62	0	77	23	0.6	0.8	1.1	1.7	Y	N	Y	N	Y	N	Y	N	Y	N	Y	Y			
Old Monroe Private Levee	236.75	802	60	700	42	7	87	6	0.6	0.8	1.1	1.7	Y	N	Y	N	Y	N	Y	N	Y	N	Y	Y			
Heitman Private Levee	236.39	196	1	182	13	1	93	6	0.6	0.9	1.1	1.7	Y	N	Y	N	Y	N	Y	N	Y	N	Y	Y			
Marstan-Portuchek Private L.	236.09	888	7	817	64	44	45	11	0.6	0.9	1.1	1.7	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N			
St. Peters Drainage Association No. 1/Urban	230.02	1098	202	662	234	18	60	22	0.6	0.8	1.0	1.4	N	N	N	N	N	N	N	Y	N	N	N	Y			
St. Peters Drainage Association No. 1/Aq	229.76								0.5	0.8	1.0	1.4	Y	N	Y	N	Y	N	Y	N	Y	N	Y	Y			
Consolidated North County Levee District	206.25	18706	881	15280	2545	3	51	46	0.5	0.7	0.8	1.1												N	Y	N	
Wood River	198.05	11325	6438	3019	1868	57	27	16	0.5	0.6	0.8	1.1	N	N	N	N	N	N	N	Y	N	N	N	N			
Columbia Bottoms Levee	194.15	4434	70	4030	334	2	10	88	0.5	0.7	0.8	1.1	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y				
Chouteau Island D&LD	191.19	2033	236	914	883	12	45	43	0.5	0.6	0.8	1.1	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y				
Chouteau, Nameoki and Venice D&LD	189.89	4800	--	4800	--	--	100	--	0.5	0.7	0.8	1.1	N	N	N	N	N	N	N	Y	N	N	N				
Gabaret/Cabrolet Island D&LD	187.32	776	3	673	100	0	87	13	0.5	0.6	0.8	1.1	Y	Y	Y	Y	Y	Y	Y	N	Y	N					
St. Louis Flood Protection Project	181.69	3003	2750	0	253	92	0	8	0.4	0.6	0.7	0.8	N	N	N	N	N	N	N	N	N	N	N				
Metro East Sanitary Dist.	179.35	86031	36418	27607	22006	42	32	26	0.4	0.5	0.6	0.7	N	N	N	N	N	N	N	Y	N	N	N				
Prairie du Pont	170.71	12766	2103	8755	1908	16	69	15	0.4	0.5	0.6	0.7	Y	N	Y	N	Y	N	Y	N	Y	N	N				
Columbia	160.89	13730	212	12640	878	2	92	6	0.4	0.5	0.5	0.6	N	N	N	Y	N	Y	Y	Y	N	Y	N				
Harrisonville	142.89	26836	612	24068	2156	2	90	8	0.4	0.5	0.7	1.1	N	N	N	N	N	N	N	N	N	Y	N				

ATTACHMENT 45. PLAN H OPTION 3 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER (CONTINUED)
(Yellow = Areas with cost of levee improvements exceeding the value of the lands, and land use in area is <10% urban)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres			Percent Total Site			Induced Rise			Overtopping Flood Event						Flood Damage Reduction Feature	Cost of Levee Raise Exceeds Cost of Lands (Y/N)	D&LD Less Than 10% Urban (Y/N)	OPTION 3: ER OPPORTUNITY (Y/N)			
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	Without	50-Yr with	Without	100-Yr with	Without	200-Yr with	Without	50-Yr with				
Stringtown	139.50	2673	40	2570	63	1	96	3	0.4	0.6	0.8	1.1	N	N	N	N	N	N	N	Y	Remains at existing conditions	N	Y	N
Fort Chartres & Ivy Landing	134.00	15232	268	13283	1681	2	87	2	0.4	0.6	0.8	1.3	N	N	N	N	N	N	N	Y	Remains at existing conditions	N	Y	N
Prairie Du Rocher & Modoc	124.45	15891	251	14449	1191	2	91	7	0.4	0.6	0.8	1.1	N	N	N	N	N	N	N	Y	Remains at existing conditions	N	Y	N
Ste. Genevieve Urban Levee	123.75				--	--	--	--	0.4	0.5	0.8	1.1	N	N	N	N	N	N	N	N	Raise levee to 500-yr	Y	N	N
Ste. Genevieve Levee District No. 2	119.51	7852	11	7178	663	0	92	8	0.4	0.5	0.7	1.0	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	N	Y	N
Kaskaskia Island	113.40	9365	125	8755	485	1	93	6	0.4	0.5	0.6	0.7	N	N	N	N	N	N	N	Y	Remains at existing conditions	N	Y	N
Bois Brule	103.22	26483	490	24710	1283	2	93	5	0.3	0.4	0.4	0.4	N	N	N	N	Y	Y	Y	Y	Remains at existing conditions	N	Y	N
Degognia & Fountain Bluff	91.75	39121	1073	32764	5284	3	84	13	0.3	0.4	0.4	0.4	N	N	N	N	N	N	Y	Y	Remains at existing conditions	N	Y	N
Grand Tower	78.90	14438	399	7196	6843	3	50	47	0.3	0.3	0.2	0.2	N	N	N	N	N	N	Y	Y	Remains at existing conditions	N	Y	N
Preston	70.75	16104	351	11454	4299	2	71	27	0.3	0.3	0.2	0.2	N	N	N	N	N	N	Y	Y	Remains at existing conditions	N	Y	N
Miller Pond	70.73	3790	30	3465	295	1	91	8	0.3	0.3	0.2	0.2	N	N	N	N	N	N	Y	Y	Remains at existing conditions	N	Y	N
Clear Creek	61.02	15882	284	10387	5211	2	65	33	0.2	0.2	0.2	0.1	N	N	N	N	N	N	Y	Y	Remains at existing conditions	N	Y	N
Cape Girardeau	52.15	22	4	0	18	3	0	97	0.2	0.2	0.2	0.1	N	N	N	N	N	N	N	N	Existing Levee is Adequate	N	Y	N
N. Alexander Co.	51.47	3019	62	1370	1587	2	45	53	0.2	0.2	0.2	0.1	N	N	N	N	N	N	Y	Y	Remains at existing conditions	N	Y	N
E. Cape Girardeau & Clear Creek	51.45	10410	349	7364	2697	3	71	26	0.2	0.2	0.2	0.1	N	N	N	N	N	N	Y	Y	Remains at existing conditions	N	Y	N
Hubble Creek (New Levee)																					Y	Y	Y	
REACH 3 SUBTOTALS	--	55074	1349	45802	7924								--	--	--	--	--	--	--	--				
													--	--	--	--	--	--	--	--				

Leveed Area		Mid-Point River Mile	Total Site Acres	Acres			Percent Total Site			Induced Rise				Overtopping Flood Event				Flood Damage Reduction Feature	Cost of Levee Raise Exceeds Cost of Lands (Y/N)	D&LD Less Than 10% Urban (Y/N)	OPTION 3: ER OPPORTUNITY (Y/N)			
				Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	Without	50-Yr with	Without	100-Yr with	Without	200-Yr with					
Ottawa	239.9									0.0	0.0	0.0	0.0	N	N	N	N	N	N	Raise levee to 500-yr	c	d	h	
East Peoria Sanitary District	162.4	296	223	0	73	76	0	24	0.0	0.1	0.1	0.2	N	N	N	N	N	N	N	Raise levee to 500-yr	Y	N	N	
East Peoria	161.2	1092	940	0	152	86	0	14	0.1	0.1	0.2	0.3	N	N	N	N	N	N	Y	Raise levee to 500-yr	Y	N	N	
North Pekin	161.2				?	?	?	?	0.1	0.1	0.2	0.4	N	N	N	N	N	N	Y	Raise levee to 500-yr	N	--	N	
Pekin-LaMarsh	152.4	2686	262	2046	378	10	76	14	0.1	0.2	0.3	0.5	N	N	Y	N	Y	N	Y	Raise levee to 500-yr	Y	Y	Y	
Rocky Ford	152.4	1585	--	1585	--	--	100	--	0.1	0.2	0.3	0.6	N	N	Y	Y	Y	Y	Y	Conservation levee—no raise	N	--	N	
Spring Lake	141.0	12959	170	10645	2144	1	82	17	0.2	0.3	0.5	0.8	N	N	Y	N	Y	N	Y	Raise levee to 500-yr	N	Y	N	
East Liverpool	141.0	3236	99	2645	492	3	82	15	0.2	0.4	0.6	0.9	N	N	N	N	N	N	N	Raise levee to 500-yr	Y	Y	Y	
Liverpool	130.1	2920	7	2770	143	0	95	5	0.2	0.4	0.6	0.9	N	N	N	N	N	N	Y	Raise levee to 500-yr	N	Y	N	
Lacey, Langellier, W.Matanzas, Kerton Valley	115.6	11235	143	10248	844	1	91	8	0.3	0.5	0.6	0.9	N	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	N	
Seahorn	115.6	1629	32	1463	134	2	90	8	0.3	0.5	0.7	0.9	Y	N	Y	N	Y	N	Y	Raise levee to 500-yr	N	Y	N	
Big Lake	105.7	3916	26	3751	139	1	96	3	0.3	0.5	0.7	0.9	N	N	Y	N	Y	N	Y	Raise levee to 500-yr	Y	Y	Y	
Kelly Lake	101.7	1161	6	927	228	1	80	19	0.3	0.5	0.7	0.9	N	N	N	N	N	N	N	Raise levee to 500-yr	Y	Y	Y	
Hager Slough	92.0	6915	44	5693	1178	1	82	17	0.4	0.6	0.8	1.1	N	N	Y	N	Y	N	Y	Raise levee to 500-yr	N	Y	N	
Lost Creek	89.7	3468	267	2754	447	8	79	13	0.4	0.6	0.8	1.1	N	N	N	N	N	N	N	Raise levee to 500-yr	Y	Y	Y	
Sanitary Dist. of Beardstown	88.6	858	807	13	38	94	2	4	0.4	0.6	0.8	1.1	N	N	N	N	N	N	N	Raise levee to 500-yr	Y	N	N	
Coal Creek	88.5	6272	75	5757	440	1	92	7	0.4	0.6	0.8	1.1	N	N	N	N	N	N	N	Raise levee to 500-yr	Y	Y	Y	
Crane Creek	84.2	4292	26	3985	281	1	93	6	0.4	0.7	0.9	1.3	N	N	N	Y	N	Y	Y	Raise levee to 500-yr	N	--	N	
South Beardstown	84.2	8467	340	7125	1002	4	4	11	0.4	0.7	0.9	1.3	N	N	N	N	N	N	N	Raise levee to 500-yr	N	N	N	
Little Creek	76.7	1639	7	1194	438	0	73	27	0.5	0.7	1.0	1.3	Y	N	Y	N	Y	N	Y	Raise levee to 500-yr	Y	Y	Y	
Meredosia Lake & Willow Creek		12605	65	11543	997	1	92	7	0.5	0.8	1.0	1.3	N	N	N	N	N	N	N	Raise levee to 500-yr	N	Y	N	
McGee Creek	71.4	16946	1050	13029	2867	6	77	17	0.5	0.8	1.0	1.4	N	N	N	N	N	N	N	Raise levee to 500-yr	Y	Y	Y	
Meredosia & Willow Cr	69.4	2423	7	2248	168	0	93	7	0.5	0.8	1.2	1.9	N	N	Y	N	Y	N	N	Raise levee to 500-yr	N	Y	N	
Coon Run	68.9				?	?	?	?	0.5	0.8	1.2	1.9	N	N	N	Y	N	Y	N	Raise levee to 500-yr	N	Y	N	
Smith Lake	67.2	617	3	583	31	0	95	5	0.5	0.8	1.2	1.9	N	N	N	N	Y	N	Y	Raise levee to 500-yr	N	-	N	
Oakes	66.3	4790	21	4218	551	0	88	12	0.5	0.8	1.2	2.0	N	N	N	Y	N	Y	N	Raise levee to 500-yr	Y	Y	Y	
Valley City	65.1	5667	168	4986	513	3	88	9	0.5	0.8	1.3	2.0	N	N	N	N	N	Y	Y	Raise levee to 500-yr	Y	Y	Y	
Mauvaise Terre	64.8	852	10	721	121	1	85	14	0.5	0.9	1.3	2.0	Y	N	Y	N	Y	N	Y	Raise levee to 500-yr	Y	Y	Y	
Robertson	63.3	11599	143	10309	1147	1	89	10	0.5	0.9	1.3	2.1	N	N	N	N	N	Y	Y	Raise levee to 500-yr	Y	Y	Y	
Scott County	59.3	500	--	500	--	--	100	--	0.6	0.9	1.4	2.3	N	N	N	Y	Y	Y	Y	Raise levee to 500-yr	Y	Y	Y	
Walnut Creek	56.3	13775	177	12937	661	1	94	5	0.6	1.0	1.5	2.5	N	N	Y	N	Y	N	Y	Raise levee to 500-yr	Y	-	Y	
Big Swan	53.6	13106	62	12580	464	0	96	4	0.6	1.0	1.5	2.4	N	N	N	Y	Y	Y	Y	Raise levee to 500-yr	Y	Y	Y	
Hillview	46.6				?	?	?	?	0.6	1.0	1.4	2.1	N	N	N	Y	Y	Y	Y	Raise levee to 500-yr	Y	Y	Y	
Village of Pearl	43.2	9582	16	8922	644	0	93	7	0.7	1.0	1.4	2.0	Y	N	Y	N	Y	N	Y	Raise levee to 500-yr	Y	-	Y	
Hartwell	40.7	9304	54	8680	570	1	93	6	0.7	1.0	1.3	1.9	N	N	Y	N	Y	Y	Y	Raise levee to 500-yr	Y	Y	Y	
Keach	35.3	802	52	715	35	5	91	4	0.7	1.0	1.3	1.7	N	N	Y	N	Y	Y	Y	Raise levee to 500-yr	Y	Y	Y	
Sch																								

ATTACHMENT 47. PLAN I OPTION 3 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER
(Purple = Areas with developed acres being removed from floodplain and converted to habitat)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres			Percent Total Site			Induced Rise			Overtopping Flood Event						Flood Damage Reduction Feature	Existing Protection Level < 100-Yr	OPTION 3: ER OPPORTUNITY (Y/N)	
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	Without		With		Without		Existing Protection Level < 100-Yr	OPTION 3: ER OPPORTUNITY (Y/N)	
Dubuque	580.60	1084	973	0	111	90	0	10	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N		
Sabula	535.00	561	110	11	440	20	2	78	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	
REACH 1 SUBTOTALS	--		0										--	--	--	--	--	--	--	--	
Fulton	519.80	6803	1440	3800	1563	21	56	23	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	
Clinton	517.30	1891	1687	74	130	89	0	11	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	
Meredosia	511.50	10493	187	8899	1407	2	85	13	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	Y	
East Moline	489.30	960	838	16	106	87	2	11	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	
Bettendorf	486.60	427	387	0	40	91	0	9	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	
Rock Island	481.20	823	678	0	145	82	0	18	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	
Milan	478.50	2202	851	454	897	39	21	40	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	
Andalusia	473.40	105	0	5	100	0	5	95	0.0	0.0	0.0	0.0	N	N	N	N	Y	Y	Y	Y	
Muscatine/Mad Creek	456.00	1	1	0	0	100	0	0	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	
Drury	455.20	5077	69	4463	545	1	88	11	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	Y	
Muscatine Island	448.40	30099	4711	19360	6028	16	64	20	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	
Bay Island	442.60	19,974	133	17076	2765	1	85	14	0.0	0.0	0.0	0.0	N	N	N	N	N	Y	Y	Y	
Iowa R.-Flint Cr	427.90	45528	1251	39883	4394	3	88	9	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	Y	
Keithsburg	427.60	119	111	0	8	93	0	7	0.0	0.0	0.0	0.0	N	N	N	N	Y	Y	Y		
Henderson #1	407.30	8488	299	6071	2118	4	72	24	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	Y	
Henderson #2	402.40	8681	249	7188	1244	3	83	14	0.0	0.0	0.0	0.0	N	N	N	N	Y	Y	Y		
Green Bay	391.00	15160	473	13368	1319	0	12	88	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	Y	
REACH 2 SUBTOTALS	--		1,452										--	--	--	--	--	--	--	--	
Des Moines/Mississippi	358.95	8525	236	7544	745	3	88	9	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	Y	
Mississippi & Fox	357.75	8657	57	7800	800	1	90	9	0.0	0.0	0.0	0.0	N	N	N	N	N	Y	Y	Y	
Hunt-Lima	351.65	17012	124	16010	878	1	94	5	0.0	0.0	0.0	0.0	N	N	N	N	N	Y	Y	Y	
Gregory	351.25	8975	37	7183	1755	0	80	20	0.0	0.0	0.0	0.0	N	N	N	N	N	Y	Y	Y	
Canton	342.00	592	385	100	107	65	17	18	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	
Indian Grave	338.75	19615	142	18093	1380	1	92	7	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	Y	
Union Township	333.30	4007	147	2784	1076	4	69	27	0.0	0.0	0.0	0.0	N	N	N	N	N	Y	Y	Y	
Fabius	327.75	15065	345	13302	1418	2	88	10	0.0	0.0	0.0	0.0	N	N	N	N	N	Y	Y	Y	
Marion County	322.40	4102	6	3800	296	0	93	7	0.0	0.0	0.0	0.0	N	N	N	N	Y	Y	Y	Y	
South Quincy	321.70	5767	578	3759	1430	10	65	25	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	
South River Industrial	319.00	1626	1626	0	0	100	--	--	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	
South River	315.65	10155	313	8652	1190	3	85	12	0.0	0.0	0.0	0.0	N	N	N	N	N	Y	Y	Y	
Hannibal	309.50	40	40	0	0	100	0	0	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	
Sny Island Reach I	307.60	44571	632	39663	4276	1	89	10	0.0	0.0	0.0	0.0	N	N	N	N	Y	Y	Y	Y	
Sny Island Reach II	292.45	17277	189	15912	1176	1	92	7	0.0	0.0	0.0	0.0	N	N	N	N	N	Y	Y	Y	
Riverland		2758	2	1501	1255	0	54	46	0.0	0.0	0.0	0.0	N	N	Y	Y	Y	Y	Y	Y	
Sny Island Reach III	282.25	43098	370	35711	7017	1	83	16	0.0	0.0	0.0	0.0	N	N	N	N	Y	Y	Y	Y	
Petus-Burns-Prewitt-Jeager	271.60	501	10	420	71	2	84	14	0.0	0.0	0.0	0.0	Y	Y	Y	Y	Y	Y	Y	Y	

ATTACHMENT 47. PLAN I OPTION 3 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER (CONTINUED)
(Purple = Areas with developed acres being removed from floodplain and converted to habitat)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres			Percent Total Site			Induced Rise			Overtopping Flood Event						Flood Damage Reduction Feature	Existing Protection Level < 100-Yr	OPTION 3: ER OPPORTUNITY (Y/N)				
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	Without	50-Yr with	Without	100-Yr with	Without	200-Yr with	Without	50-Yr with				
Clarksville Levees	269.04	2151	2	1675	474	0	78	22	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Y	Y	Remains at existing conditions	Y		
Sny Island Reach IV	268.75	11518	44	9586	1888	0	83	17	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	Raise levee to 500-yr	Y		
Kissinger Levee District	266.41	2498	4	2148	346	0	86	14	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Y	Y	Remains at existing conditions	Y		
Busch-Goose Pasture Farms	264.10	447	1	341	105	0	76	24	0.0	0.0	0.0	0.0	N	N	Y	Y	Y	Y	Y	Y	Raise levee to 500-yr	Y		
Cannon Wildlife Refuge	262.24	3477	3	1141	2333	0	33	67	0.0	0.0	0.0	0.0	Y	Y	Y	Y	Y	Y	Y	Y	Conservation Levee - No Raise	Y		
Annada	262.22	3320	25	1554	1741	1	47	52	0.0	0.0	0.0	0.0	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	Y		
Elsberry Drainage District	255.94	18502	138	16254	2110	1	88	11	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	Y	Raise levee to 500-yr	Y		
Elsberry Drainage Dist - A		5300	--	5300	--	--	100	--	0.0	0.0	0.0	0.0	Y	Y	Y	Y	Y	Y	Y	Y	5300ac as storage between MRM 260.17 & 255.26	Y		
Kings Lake Drainage District	249.04	3212	21	1108	2083	1	34	65	0.0	0.0	0.0	0.0	N	N	Y	Y	Y	Y	Y	Y	Remains at existing conditions	Y		
Sandy Creek D. District	245.70	1082	21	806	255	2	74	24	0.0	0.0	0.0	0.0	Y	Y	Y	Y	Y	Y	Y	Y	Raise levee to 500-yr	Y		
Foley Drainage District	245.03	1168	98	947	123	8	81	11	0.0	0.0	0.0	0.0	Y	Y	Y	Y	Y	Y	Y	Y	Raise levee to 500-yr	Y		
Cap Au Gris D&LD	241.16	4812	241	3898	673	5	81	14	0.0	0.0	0.0	0.0	Y	Y	Y	Y	Y	Y	Y	Y	Raise levee to 500-yr	Y		
Winfield D&LD	238.88	1661	56	1480	125	3	89	8	0.0	0.0	0.0	0.0	Y	Y	Y	Y	Y	Y	Y	Y	Raise levee to 500-yr	Y		
Brevator D&LD	238.08	2092	92	1744	256	4	83	13	0.0	0.0	0.0	0.0	Y	Y	Y	Y	Y	Y	Y	Y	Raise levee to 500-yr	Y		
Schramm Private Levee	237.25	273	1	210	62	0	77	23	0.0	0.0	0.0	0.0	Y	Y	Y	Y	Y	Y	Y	Y	Raise levee to 500-yr	Y		
Old Monroe Private Levee	236.75	802	60	700	42	7	87	6	0.0	0.0	0.0	0.0	Y	Y	Y	Y	Y	Y	Y	Y	Raise levee to 500-yr	Y		
Heitman Private Levee	236.39	196	1	182	13	1	93	6	0.0	0.0	0.0	0.0	Y	Y	Y	Y	Y	Y	Y	Y	Raise levee to 500-yr	Y		
Marstan-Portuchek Private L.	236.09	888	7	817	64	44	45	11	0.0	0.0	0.0	0.0	Y	Y	Y	Y	Y	Y	Y	Y	Raise levee to 500-yr	Y		
St. Peters Drainage Association No. 1/Urban	230.02	1098	202	662	234	18	60	22	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Y	Y	Raise levee to 500-yr	N		
Consolidated North County Levee District	206.25	18706	881	15280	2545	3	51	46	0.0	0.0	0.0	0.0									Remains at existing conditions	Y		
Wood River	198.05	11325	6438	3019	1868	57	27	16	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Y	Y	Existing Levee is Adequate	N		
Columbia Bottoms Levee	194.15	4434	70	4030	334	2	10	88	0.0	0.0	0.0	0.0	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	Y		
Chouteau Island D&LD	191.19	2033	236	914	883	12	45	43	0.0	0.0	0.0	0.0	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	Y		
Chouteau, Nameoki and Venice D&LD	189.89	4800	--	4800	--	--	100	--	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	Y	Y	Existing Levee is Adequate	N	
Gabaret/Cabrolet Island D&LD	187.32	776	3	673	100	0	87	13	0.0	0.0	0.0	0.0	Y	Y	Y	Y	Y	Y	N	N	Remains at existing conditions	Y		
St. Louis Flood Protection Project	181.69	3003	2750	0	253	92	0	8	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N		
Metro East Sanitary Dist.	179.35	86031	36418	27607	22006	42	32	26	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	Y	Y	Existing Levee is Adequate	N	
Prairie du Pont	170.71	12766	2103	8755	1908	16	69	15	0.0	0.0	0.0	0.0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Existing Levee is Adequate	N	
Columbia	160.89	13730	212	12640	878	2	92	6	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Y	Y	Remains at existing conditions	Y		
Harrisonville	142.89	26836	612	24068	2156	2	90	8	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	N	Remains at existing conditions	Y	

ATTACHMENT 48. PLAN I OPTION 3 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER (CONTINUED)
(Purple = Areas with developed acres being removed from floodplain and converted to habitat)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres			Percent Total Site			Induced Rise			Overtopping Flood Event						Flood Damage Reduction Feature	Existing Protection Level < 100-Yr	OPTION 3: ER OPPORTUNITY (Y/N)			
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	Without	50-Yr with	Without	100-Yr with	Without	200-Yr with	Without	50-Yr with			
Stringtown	139.50	2673	40	2570	63	1	96	3	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	Remains at existing conditions	Y	
Fort Chartres & Ivy Landing	134.00	15232	268	13283	1681	2	87	2	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	Remains at existing conditions	Y	
Prairie Du Rocher & Modoc	124.45	15891	251	14449	1191	2	91	7	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	Remains at existing conditions	Y	
Ste. Genevieve Urban Levee	123.75				--	--	--	--	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N	
Ste. Genevieve Levee District No. 2	119.51	7852	11	7178	663	0	92	8	0.0	0.0	0.0	0.0	Y	Y	Y	Y	Y	Y	Y	Y	Remains at existing conditions	Y	
Kaskaskia Island	113.40	9365	125	8755	485	1	93	6	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	Remains at existing conditions	Y	
Bois Brule	103.22	26483	490	24710	1283	2	93	5	0.0	0.0	0.0	0.0	N	N	N	N	Y	Y	Y	Y	Remains at existing conditions	Y	
Degognia & Fountain Bluff	91.75	39121	1073	32764	5284	3	84	13	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Y	Y	Remains at existing conditions	Y	
Grand Tower	78.90	14438	399	7196	6843	3	50	47	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Y	Y	Remains at existing conditions	Y	
Preston	70.75	16104	351	11454	4299	2	71	27	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Y	Y	Remains at existing conditions	Y	
Miller Pond	70.73	3790	30	3465	295	1	91	8	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Y	Y	Remains at existing conditions	Y	
Clear Creek	61.02	15882	284	10387	5211	2	65	33	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Y	Y	Remains at existing conditions	Y	
Cape Girardeau	52.15	22	4	0	18	3	0	97	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	Existing Levee is Adequate	N	
N. Alexander Co.	51.47	3019	62	1370	1587	2	45	53	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Y	Y	Remains at existing conditions	Y	
E. Cape Girardeau & Clear Creek	51.45	10410	349	7364	2697	3	71	26	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Y	Y	Remains at existing conditions	Y	
Hubble Creek (New Levee)																					Y		
REACH 3 SUBTOTALS	--								--	--	--	--	--	--	--	--	--	--	--	--	--	--	

ATTACHMENT 48. PLAN I OPTION 3 ER LOCATION OPPORTUNITIES FOR ILLINOIS RIVER
(Purple = Areas with developed acres being removed from floodplain and converted to habitat)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres			Percent Total Site			Induced Rise				Overtopping Flood Event						Flood Damage Reduction Feature	Existing Protection Level < 100-Yr	OPTION 3: ER OPPORTUNITY (Y/N)				
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	50-Yr		100-Yr		200-Yr								
													Without	With	Without	With	Without	With							
Ottawa	239.9								0.0	0.0	0.0	0.0													
East Peoria Sanitary District	162.4	296	223	0	73	76	0	24	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N			
East Peoria	161.2	1092	940	0	152	86	0	14	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Y	Y	Raise levee to 500-yr	N			
North Pekin	161.2				?	?	?	?	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Y	Y	Raise levee to 500-yr	Y			
Pekin-LaMarsh	152.4	2686	262	2046	378	10	76	14	0.0	0.0	0.0	0.0	N	N	Y	Y	Y	Y	Y	Y	Raise levee to 500-yr	Y			
Rocky Ford	152.4	1585	--	1585	--	--	100	--	0.0	0.0	0.0	0.0	N	N	Y	Y	Y	Y	Y	Y	Conservation levee—no raise	Y			
Spring Lake	141.0	12959	170	10645	2144	1	82	17	0.0	0.0	0.0	0.0	N	N	Y	Y	Y	Y	Y	Y	Raise levee to 500-yr	Y			
East Liverpool	141.0	3236	99	2645	492	3	82	15	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	Raise levee to 500-yr	Y			
Liverpool	130.1	2920	7	2770	143	0	95	5	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Y	Y	Raise levee to 500-yr	N			
Lacey, Langellier, W.Matanzas, Kerton Valley	115.6	11235	143	10248	844	1	91	8	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	Raise levee to 500-yr	Y			
Seahorn	115.6	1629	32	1463	134	2	90	8	0.0	0.0	0.0	0.0	Y	Y	Y	Y	Y	Y	Y	Y	Raise levee to 500-yr	Y			
Big Lake	105.7	3916	26	3751	139	1	96	3	0.0	0.0	0.0	0.0	N	N	Y	Y	Y	Y	Y	Y	Raise levee to 500-yr	Y			
Kelly Lake	101.7	1161	6	927	228	1	80	19	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	Raise levee to 500-yr	Y			
Hager Slough	92.0	6915	44	5693	1178	1	82	17	0.0	0.0	0.0	0.0	N	N	Y	Y	Y	Y	Y	Y	Raise levee to 500-yr	Y			
Lost Creek	89.7	3468	267	2754	447	8	79	13	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	Raise levee to 500-yr	Y			
Sanitary Dist. of Beardstown	88.6	858	807	13	38	94	2	4	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	Raise levee to 500-yr	N			
Coal Creek	88.5	6272	75	5757	440	1	92	7	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	Raise levee to 500-yr	Y			
Crane Creek	84.2	4292	26	3985	281	1	93	6	0.0	0.0	0.0	0.0	N	N	N	N	Y	Y	Y	Y	Raise levee to 500-yr	Y			
South Beardstown	84.2	8467	340	7125	1002	4	4	11	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	Raise levee to 500-yr	Y			
Little Creek	76.7	1639	7	1194	438	0	73	27	0.0	0.0	0.0	0.0	Y	Y	Y	Y	Y	Y	Y	Y	Raise levee to 500-yr	Y			
Meredosia Lake & Willow Creek		12605	65	11543	997	1	92	7	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	Raise levee to 500-yr	Y			
McGee Creek	71.4	16946	1050	13029	2867	6	77	17	0.0	0.0	0.0	0.0	N	N	N	N	N	N	N	N	Raise levee to 500-yr	Y			
Meredosia & Willow Cr	69.4	2423	7	2248	168	0	93	7	0.0	0.0	0.0	0.0									Raise levee to 500-yr	Y			
Coon Run	68.9				?	?	?	?	0.0	0.0	0.0	0.0	Y	Y	Y	Y	Y	Y	Y	Y	Raise levee to 500-yr	Y			
Smith Lake	67.2	617	3	583	31	0	95	5	0.0	0.0	0.0	0.0									Raise levee to 500-yr	Y			
Oakes	66.3	4790	21	4218	551	0	88	12	0.0	0.0	0.0	0.0	N	N	N	N	Y	Y	Y	Y	Raise levee to 500-yr	Y			
Valley City	65.1	5667	168	4986	513	3	88	9	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Y	Y	Raise levee to 500-yr	Y			
Mauvaise Terre	64.8	852	10	721	121	1	85	14	0.0	0.0	0.0	0.0	Y	Y	Y	Y	Y	Y	Y	Y	Raise levee to 500-yr	Y			
Robertson	63.3	11599	143	10309	1147	1	89	10	0.0	0.0	0.0	0.0	N	N	N	N	N	N	Y	Y	Raise levee to 500-yr	Y			
Scott County	59.3	500	--	500	--	--	100	--	0.0	0.0	0.0	0.0									Raise levee to 500-yr	Y			
Walnut Creek	56.3	13775	177	12937	661	1	94	5	0.0	0.0	0.0	0.0	N	N	Y	Y	Y	Y	Y	Y	Raise levee to 500-yr	Y			
Big Swan	53.6	13106	62	12580	464	0	96	4	0.0	0.0	0.0	0.0	N	N	N	N	Y	Y	Y	Y	Raise levee to 500-yr	Y			
Hillview	46.6				?	?	?	?	0.0	0.0	0.0	0.0									Raise levee to 500-yr	Y			
Village of Pearl	43.2	9582	16	8922	644	0	93	7	0.0	0.0	0.0	0.0	Y	Y	Y	Y	Y	Y	Y	Y	Raise levee to 500-yr	Y			
Hartwell	40.7	9304	54	8680	570	1	93	6	0.0	0.0	0.0	0.0	N	N	Y	Y	Y	Y	Y	Y	Raise levee to 500-yr	Y			
Keach	35.3	802	52	715	35	5	91	4	0.0	0.0	0.0	0.0	N	N	Y	Y	Y	Y	Y	Y	Raise levee to 500-yr	Y			
Schaefer – Farrow	32.6	636	0	382	254	0	60	40	0.0	0.0	0.0	0.0	Y	Y	Y	Y	Y	Y	Y	Y	Raise levee to 500-yr	Y			
Bluffdale Farms	32.3	10336	51	9822	463	1	95	4	0.0	0.0	0.0	0.0	N	N	N	N	Y	Y	Y</td						

ATTACHMENT 49. PLAN J OPTION 3 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER
(Yellow = All existing agricultural areas are bought out and levees removed)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres			Percent Total Site			Induced Rise				Overtopping Flood Event				Flood Damage Reduction Feature	Economics Designated Ag District (Y/N)	OPTION 3: ER OPPORTUNITY (Y/N)						
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	Without	50-Yr	With	Without	100-Yr	With	Without	200-Yr	With				
Dubuque	580.60	1084	973	0	111	90	0	10														No measures	N	N	
Sabula	535.00	561	110	11	440	20	2	78														No measures	N	N	
REACH 1 SUBTOTALS	--	0	0	0	0																				
Fulton	519.80	6803	1440	3800	1563	21	56	23														No measures	N	N	
Clinton	517.30	1891	1687	74	130	89	0	11														No measures	N	N	
Meredosia	511.50	10493	187	8899	1407	2	85	13														Y	Y		
East Moline	489.30	960	838	16	106	87	2	11														No measures	N	N	
Bettendorf	486.60	427	387	0	40	91	0	9														No measures	N	N	
Rock Island	481.20	823	678	0	145	82	0	18														No measures	N	N	
Milan	478.50	2202	851	454	897	39	21	40														No measures	N	N	
Andalusia	473.40	105	0	5	100	0	5	95														No measures	N	N	
Muscatine/Mad Creek	456.00	1	1	0	0	100	0	0														No measures	N	N	
Drury	455.20	5077	69	4463	545	1	88	11														Remove levees	Y	Y	
Muscatine Island	448.40	30099	4711	19360	6028	16	64	20														No measures	N	N	
Bay Island	442.60	19,974	133	17076	2765	1	85	14														Remove levees	Y	Y	
Iowa R.-Flint Cr	427.90	45528	1251	39883	4394	3	88	9														Remove levees	Y	Y	
Keithsburg	427.60	119	111	0	8	93	0	7														No measures	N	N	
Henderson #1	407.30	8488	299	6071	2118	4	72	24														Remove levees	Y	Y	
Henderson #2	402.40	8681	249	7188	1244	3	83	14														Remove levees	Y	Y	
Green Bay	391.00	15160	473	13368	1319	0	12	88														Remove levees	Y	Y	
REACH 2 SUBTOTALS	--	113401	2661	96948	13792																				
Des Moines/Mississippi	358.95	8525	236	7544	745	3	88	9														Remove levees	Y	Y	
Mississippi & Fox	357.75	8657	57	7800	800	1	90	9														Remove levees	Y	Y	
Hunt-Lima	351.65	17012	124	16010	878	1	94	5														Remove levees	Y	Y	
Gregory	351.25	8975	37	7183	1755	0	80	20														Remove levees	Y	Y	
Canton	342.00	592	385	100	107	65	17	18														No measures	N	N	
Indian Grave	338.75	19615	142	18093	1380	1	92	7														Remove levees	Y	Y	
Union Township	333.30	4007	147	2784	1076	4	69	27														Remove levees	Y	Y	
Fabius	327.75	15065	345	13302	1418	2	88	10														Remove levees	Y	Y	
Marion County	322.40	4102	6	3800	296	0	93	7														Remove levees	Y	Y	
South Quincy	321.70	5767	578	3759	1430	10	65	25														No measures	N	N	
South River Industrial	319.00	1626	1626	0	0	100	--	--														No measures	N	N	
South River	315.65	10155	313	8652	1190	3	85	12														Remove levees	Y	Y	
Hannibal	309.50	40	40	0	0	100	0	0														No measures	N	N	
Sny Island Reach I	307.60	44571	632	39663	4276	1	89	10														Remove levees	Y	Y	
Sny Island Reach II	292.45	17277	189	15912	1176	1	92	7														Remove levees	Y	Y	
Riverland		2758	2	1501	1255	0	54	46														Remove levees	Y	Y	
Sny Island Reach III	282.25	43098	370	35711	7017	1	83	16														Remove levees	Y	Y	
Petus-Burns-Prewitt-Jeager	271.60	501	10	420	71	2	84	14														Remove levees	Y	Y	

ATTACHMENT 49. PLAN J OPTION 3 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER (CONTINUED)
(Yellow = All existing agricultural areas are bought out and levees removed)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres		Percent Total Site		Induced Rise			Overtopping Flood Event				Flood Damage Reduction Feature	Economics Designated Ag District (Y/N)	OPTION 3: ER OPPORTUNITY (Y/N)		
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	50-Yr					
													Without	With	Without	With		
Clarksville Levees	269.04	2151	2	1675	474	0	78	22									Remove levees	Y Y
Sny Island Reach IV	268.75	11518	44	9586	1888	0	83	17									Remove levees	Y Y
Kissinger Levee District	266.41	2498	4	2148	346	0	86	14									Remove levees	Y Y
Busch-Goose Pasture Farms	264.10	447	1	341	105	0	76	24									Remove levees	Y Y
Cannon Wildlife Refuge	262.24	3477	3	1141	2333	0	33	67									Remove levees	Y Y
Annada	262.22	3320	25	1554	1741	1	47	52									No Measure	N N
Elsberry Drainage District	255.94	18502	138	16254	2110	1	88	11									Remove levees	Y Y
Elsberry Drainage Dist - A		5300	--	5300	--	--	100	--									No Measure	Y Y
Kings Lake Drainage District	249.04	3212	21	1108	2083	1	34	65									Remove levees	Y Y
Sandy Creek D. District	245.70	1082	21	806	255	2	74	24									Remove levees	Y Y
Foley Drainage District	245.03	1168	98	947	123	8	81	11									Remove levees	Y Y
Cap Au Gris D&LD	241.16	4812	241	3898	674	5	81	14									Remove levees	Y Y
Winfield D&LD	238.88	1661	56	1480	125	3	89	8									Remove levees	Y Y
Brevator D&LD	238.08	2092	92	1744	256	4	83	13									Remove levees	Y Y
Schramm Private Levee	237.25	273	1	210	62	0	77	23									Remove levees	Y Y
Old Monroe Private Levee	236.75	802	60	700	42	7	87	6									Remove levees	Y Y
Heitman Private Levee	236.39	196	1	182	13	1	93	6									Remove levees	Y Y
Marstan-Portuchek Private L.	236.09	888	7	817	64	44	45	11									Remove levees	Y Y
St. Peters Drainage Association No. 1/Urban	230.02	1098	202	662	234	18	60	22									No Measure	N N
St. Peters Drainage Association No. 1/Ag	229.76																Remove levees	Y Y
Consolidated North County Levee District	206.25	18706	881	15280	2545	3	51	46									Remove levees	Y Y
Wood River	198.05	11325	6438	3019	1868	57	27	16									No Measure	N N
Columbia Bottoms Levee	194.15	4434	70	4030	334	2	10	88									Remove levees	Y Y
Chouteau Island D&LD	191.19	2033	236	914	883	12	45	43									Remove levees	Y Y
Chouteau, Nameoki and Venice D&LD	189.89	4800	--	4800	--	--	100	--									No Measure	N N
Gabaret/Cabrolet Island D&LD	187.32	776	3	673	100	0	87	13									Remove levees	Y Y
St. Louis Flood Protection Project	181.69	3003	2750	0	253	92	0	8									No Measure	N N
Metro East Sanitary Dist.	179.35	86031	36418	27607	22006	42	32	26									No Measure	N N
Praire du Pont	170.71	12766	2103	8755	1908	16	69	15									No Measure	N N
Columbia	160.89	13730	212	12640	878	2	92	6									Remove levees	Y Y
Harrisonville	142.89	26836	612	24068	2156	2	90	8									Remove levees	Y Y

ATTACHMENT 49. PLAN J OPTION 3 ER LOCATION OPPORTUNITIES FOR MISSISSIPPI RIVER (CONTINUED)
(Yellow = All existing agricultural areas are bought out and levees removed)

Leveed Area	Mid-Point River Mile	Total Site Acres	Acres		Percent Total Site		Induced Rise				Overtopping Flood Event				Flood Damage Reduction Feature	Economics Designated Ag District (Y/N)	OPTION 3: ER OPPORTUNITY (Y/N)					
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	Without	50-Yr with	Without	100-Yr with	Without	200-Yr with	Without	50-Yr with		
Stringtown	139.50	2673	40	2570	63	1	96	3												Remove levees	Y	Y
Fort Chartres & Ivy Landing	134.00	15232	268	13283	1681	2	87	2												Remove levees	Y	Y
Prairie Du Rocher & Modoc	124.45	15891	251	14449	1191	2	91	7												Remove levees	Y	Y
Ste. Genevieve Urban Levee	123.75					--	--	--												No measures	N	N
Ste. Genevieve Levee District No. 2	119.51	7852	11	7178	663	0	92	8												Remove Levees	Y	Y
Kaskaskia Island	113.40	9365	125	8755	485	1	93	6												Remove Levees	Y	Y
Bois Brule	103.22	26483	490	24710	1283	2	93	5												Remove Levees	Y	Y
Degognia & Fountain Bluff	91.75	39121	1073	32764	5284	3	84	13												Remove levees	Y	Y
Grand Tower	78.90	14438	399	7196	6843	3	50	47												Remove levees	Y	Y
Preston	70.75	16104	351	11454	4299	2	71	27												Remove levees	Y	Y
Miller Pond	70.73	3790	30	3465	295	1	91	8												Remove levees	Y	Y
Clear Creek	61.02	15882	284	10387	5211	2	65	33												Remove levees	Y	Y
Cape Girardeau	52.15	22	4	0	18	3	0	97												No measures	N	N
N. Alexander Co.	51.47	3019	62	1370	1587	2	45	53												Remove levees	Y	Y
E. Cape Girardeau & Clear Creek	51.45	10410	349	7364	2697	3	71	26												Remove levees	Y	Y
Hubble Creek (New Levee)																						
REACH 3 SUBTOTALS	--	511172	9047	429262	72864								--	--	--	--	--	--	--			
													--	--	--	--	--	--	--			

ATTACHMENT 50. PLAN J OPTION 3 ER LOCATION OPPORTUNITIES FOR ILLINOIS RIVER (Yellow = All existing agricultural areas are bought out and levees removed)																											
Leveed Area	Mid-Point River Mile	Total Site Acres	Acres			Percent Total Site			Induced Rise				Overtopping Flood Event				Flood Damage Reduction Feature	Economics Designated Ag District (Y/N)	OPTION 3: ER OPPORTUNITY (Y/N)								
			Urban	Agricultural	Other	Urban	Agricultural	Other	50-Yr	100-Yr	200-Yr	500-Yr	Without	50-Yr	With	Without	100-Yr	With	Without	200-Yr	With	Without	50-Yr	With			
Ottawa	239.9																								No measures	N	N
East Peoria Sanitary District	162.4	296	223	0	73	76	0	24																No measures	N	N	
East Peoria	161.2	1092	940	0	152	86	0	14																No measures	N	N	
North Pekin	161.2				?	?	?	?																No measures	N	N	
Pekin-LaMarsh	152.4	2686	262	2046	378	10	76	14																Remove levees	Y	Y	
Rocky Ford	152.4	1585	--	1585	--	--	100	--																Conservation levee—no levee removal	N	N	
Spring Lake	141.0	12959	170	10645	2144	1	82	17																Remove levees	Y	Y	
East Liverpool	141.0	3236	99	2645	492	3	82	15																Remove levees	Y	Y	
Liverpool	130.1	2920	7	2770	143	0	95	5																No measures	N	N	
Lacey, Langellier, W.Matanzas, Kerton Valley	115.6	11235	143	10248	844	1	91	8																Remove levees	Y	Y	
Seahorn	115.6	1629	32	1463	134	2	90	8																Remove levees	Y	Y	
Big Lake	105.7	3916	26	3751	139	1	96	3																Remove levees	Y	Y	
Kelly Lake	101.7	1161	6	927	228	1	80	19																Remove levees	Y	Y	
Hager Slough	92.0	6915	44	5693	1178	1	82	17																Remove levees	Y	Y	
Lost Creek	89.7	3468	267	2754	447	8	79	13																Remove levees	Y	Y	
Sanitary Dist. of Beardstown	88.6	858	807	13	38	94	2	4																No measures	N	N	
Coal Creek	88.5	6272	75	5757	440	1	92	7																Remove levees	Y	Y	
Crane Creek	84.2	4292	26	3985	281	1	93	6																Remove levees	Y	Y	
South Beardstown	84.2	8467	340	7125	1002	4	4	11																Remove levees	Y	Y	
Little Creek	76.7	1639	7	1194	438	0	73	27																Remove levees	Y	Y	
Meredosia Lake & Willow Creek		12605	65	11543	997	1	92	7																Remove levees	Y	Y	
McGee Creek	71.4	16946	1050	13029	2867	6	77	17																Remove levees	Y	Y	
Meredosia & Willow Cr	69.4	2423	7	2248	168	0	93	7																Remove levees	Y	Y	
Coon Run	68.9				?	?	?	?																Remove levees	Y	Y	
Smith Lake	67.2	617	3	583	31	0	95	5																Remove levees	Y	Y	
Oakes	66.3	4790	21	4218	551	0	88	12																Remove levees	Y	Y	
Valley City	65.1	5667	168	4986	513	3	88	9																Remove levees	Y	Y	
Mauvaise Terre	64.8	852	10	721	121	1	85	14																Remove levees	Y	Y	
Robertson	63.3	11599	143	10309	1147	1	89	10																Remove levees	Y	Y	
Scott County	59.3	500	--	500	--	--	100	--																Remove levees	Y	Y	
Walnut Creek	56.3	13775	177	12937	661	1	94	5																Remove levees	Y	Y	
Big Swan	53.6	13106	62	12580	464	0	96	4																Remove levees	Y	Y	
Hillview	46.6				?	?	?	?																Remove levees	Y	Y	
Village of Pearl	43.2	9582	16	8922	644	0	93	7																No measures	N	N	
Hartwell	40.7	9304	54	8680	570	1	93	6																Remove levees	Y	Y	
Keach	35.3	802	52	715	35	5	91	4																Remove levees	Y	Y	
Schaefer – Farrow	32.6	636	0	382	254	0	60	40																Remove levees	Y	Y	
Bluffdale Farms	32.3	10336	51	9822	463	1	95	4																Remove levees	Y	Y	
Eldred – Spankey DL	28.1	10679	111	9887	681	1	93	6																Remove levees	Y	Y	
Nutwood	19.4																								Remove levees	Y	Y
REACH 4 SUBTOTALS	--	183370	4278	161386	17706																			--	--		