

XV. Post Flood Recovery Activities

Within the Rock Island District, there are more than 300 levee districts with levee systems. Ninety-six of these levee districts are eligible for Corps assistance under emergency repair law (Public Law 84-99). Even though most of these flood protection systems performed successfully and prevented millions of dollars of damage, 33 were damaged to an extent that warranted Corps emergency repair work. They included 19 large, agricultural levees which were overtopped and subsequently breached. Levee breaks ranged from a few hundred feet to more than 4,000 feet.

A levee task force was established to ensure all emergency repairs were completed to restore flood protection prior to the spring 1994 flood season. The hastened schedule was necessary to avoid winter's frozen soil and river ice conditions which would make needed repairs difficult, if not impossible. The Phase I rehabilitation of the 19 major levee districts was publicly advertised and competitively bid. The work was accomplished through hydraulic dredging by 13 contracted dredges and numerous heavy machinery contractors. Contractors partnered with Corps employees to return flood protection to more than 360,000 acres of agricultural and urban property.

Prior to repairs, the Corps informed each levee district of the possible alternatives to repairs which included the creation of wetlands and/or relocation through land purchases in coordination with the Federal Emergency Management Agency, Fish and Wildlife Service, Environmental Protection Agency and the Soil Conservation Service.

Work in Phase I included repairing breached or overtopped levee systems. Phase II work consists of repairing the levee system's pumping stations. Phase II pumping station restoration is underway. Partial capacity was restored by March 1994, and complete pumping capacity will be restored by late 1994. Phase III is the restoration of interior or exterior portions of levees damaged by wave wash--the repair of all "non-breached" levees and levee sections--and, in some instances, the removal of wave-washed soil from farm fields when needed for borrow.

Because of the magnitude and extent of flood damage to levees and pump stations, the uncertainty of the weather, and the need for careful consideration of environmental impacts, complete levee rehabilitation in the Rock Island District's area of responsibility is expected to take approximately one year. The estimated total cost of repairs is about \$49 million.

Table 35 summarizes the damage that was done to the federal levees and the extent of the repair work. Table 36 shows the same information for the non-federal levees. Table 37 is a summary of the rehabilitation of the local flood protection projects that were damaged.

**Table 35
Federal Levee Post Flood Recovery Status**

Levee District Name	Lineal Feet of Breaks	Levee Repair Volume (cy)	Pump Station Damage
Des Moines & Mississippi River D.D., Mo.	4,300	220,000	yes
Gregory D.D., Mo.	13,550	250,000	yes
Hunt and Lima Lake D.D., Ill.	17,600	650,000	yes
Marion County D.D., Mo.	4,925	100,000	yes
Green Bay Levee & D.D. No 2, Iowa	1,500	200,000	yes
Indian Grave D.D., Ill.	20,260	1.6 million	yes
South River D.D., Mo.	13,075	440,000	yes
Fabius River D.D., Mo.	4,400	250,000	yes
Sny Island D.D. No 1, Ill.	9, 100	650,000	yes
Henderson County D.D. No 1, Ill.	NA	1,030	NA
Henderson County D.D. No 2, Ill.	NA	450	NA
South Quincy D.D., Ill.	NA	40,000 fill	NA
Iowa River-Flint Creek D.D 16, Iowa	NA	20,000	NA
Farmers L. & D.D. Ill.	NA	3,500 T riprap	NA
Big Lake D.D. Ill.	NA	7,000	NA
South Breadstown, Ill.	NA	NA	NA
Langelliers-Mantanzas D.D. Ill.	NA	18,000	NA
Penny Slough Levee & D.D. Ill.	NA	5,000	NA

**Table 36
Non-Federal Levees Post Flood Recovery Status**

Levee District	Lineal Feet of Breaks	Levee Repair Volume (cy)	Pump Station Damage
Mississippi-Fox D.D.	14,290	189,580	NA
Green Island L.D.	6,800	31,250	NA
Louisa County Levee D.No. 11	1,900	190,000	NA
Louisa County Levee D. No 8	3,925	Buy Out	NA
Union Twp. Skunk	200	4,000	NA
Zempel Mutual D.D.	2,752	39,600	NA
Spoon River Project No 1	1,346	27,658	NA
Lower Pleasant Valley D.D.	999	50,400	NA
Thompson D. & L.D.	NA	25,000	NA
Spoon River Ranch /Roddis D. & L.D.	580	2,400	NA

**Table 37
Local Flood Protection Projects Post Flood Recovery Activities**

Levee District	Lineal Feet	Levee Repair Volume (cy)	Pump Station Damage
City of Canton	NA	1,500 tons riprap	no
City of Des Moines	NA	31,400	NA
City of Rock Island	NA	5,800 tons riprap	NA