

I. History of Hazards and Damages in the Area to be protected

A. Overview of Past Damages:

There are five low-head dams on the south fork of the Licking River in Harrison County, Kentucky. The Licking River is a popular recreational destination for swimming, paddle sports, and especially fishing. This project will use a rock-ramp mitigation technique to build slopes on the downstream sides of the Robinson, Terry, and Poindexter Dams. Damages in the past have included many, many hours of search and rescue, fire and EMS, and law enforcement first response, maintenance and damage repairs on the dams by the local units of government as well as by Kentucky Fish and Wildlife. All three dams have created significant drowning and safety threats on the river. Most tragically, Robinson dam has drowned over twenty victims since the 1970's, and claimed four lives between 2010 and 2016. Terry Dam tragically claimed the life of Mr. Anthony Durham, who drowned on September 8, 2018. Simply put, the Licking River is a popular water sports and recreation resource for the region, and the low-head dams make using the river quite dangerous, especially during high-water events. A more thorough list of damages is in section B below, and further documentation, including a preliminary benefit cost analysis is included in the Appendix.

B. Detailed Damages:

At-length detailed damage documentation can be found in this application's appendix along with preliminary BCA v6.0 preliminary results. Below is a list of known specific damages/events.

- 9/8/2018: A one-year recurrence interval rain event led to the drowning of Mr. Anthony Durham at Terry Dam. Damages documented using FEMA BCA v6.0: \$11,600,000
- 11/18/2018: One drowning fatality at Terry Dam
- 6/11/2016: One drowning fatality at Robinson Dam
- 10/27/2014: One drowning fatality at Robinson Dam
- 6/27/2013: Non-Fatality Incident at Robinson Dam
- 1970-2016: 18+ additional fatalities at Robinson Dam.
- 2001 & 2002: Maintenance and Dam Repairs at Poindexter Dam: \$15,650

Date	Level of Event	Damages	Indirect costs (describe)
11/18/2018	Unknown	Drowning at Terry Dam (One Death)	70 Emergency Response Man Hours
9/8/2018	1-Year RI Rain	Drowning at Terry Dam (One death): \$11,600,000	670 Emergency Response Man Hours
6/11/2016	Unknown	Drowning at Robinson Dam (One Death)	115 Emergency Response Man Hours
10/27/2014	Unknown	Drowning at Robinson Dam (One Death)	114 Emergency Response Man Hours
6/27/2013	Unknown	Non-Fatality Incident at Robinson Dam	EMS Man hours Unknown
2002	N/A	Maintenance and Damage Repairs at Poindexter Dam	\$15,650 (KYFW)
2001	N/A	Harrison Fiscal Court Repair of Poindexter Dam	\$ Unknown
1970-2016	Unknown	18+ Drownings at Robinson Dam, per Re'Jeana Craft, Harrison Co Search and Rescue Chief	

*See Preliminary Benefit-Cost Analysis

Attach all supporting documentation for history of hazards and past damages.