

ROADWAY FLOODING COSTS SURVEY

(Mail Questionnaire)

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ROADWAY FLOODING COSTS SURVEY

The purpose of this survey is to gain information from area transportation agencies on economic losses due to roadway flooding. These estimates will be used by the _____ I Study team in economic evaluations. Please provide any information based on historic flooding experienced in the region; estimate costs based on average observed conditions.

Note: some questions ask for total cost or number of 8-hour man-days, while others ask for material and labor. Thank you for your participation.

1. Please estimate the costs to monitor roadways for flooding/safety impacts and alert public and agencies affected by an event: \$ _____ or _____ man-days (annual basis per monitored area)
2. Please estimate the costs associated with installation and removal of detour signs and road barricades: \$ _____ or _____ man-days. (per flooded roadway)
3. Please estimate the costs of flood protection and other operations provided during a flood event:
 - a. Sandbagging \$ _____ and man-days (per instance) (includes installation, operation, removal and disposal)
 - b. pumping \$ _____ material and _____ man-days of labor (per instance)
4. Please estimated costs of post-flood event roadway clean-up:
 - a. street and gutter sweeping: \$ _____ or _____ man-days (per flooded roadway)
 - b. cleaning of drainage structures \$ _____ total or _____ man days.
5. Please estimate the costs of additional maintenance activities for scour of critical bridges and culverts following a flood event:
 - a. inspection costs: \$ _____ total or _____ man days (per structure)
 - b. scour protection measures \$ _____ of materials and _____ man days (per instance)
 - c. debris removal on piers/abutments: \$ _____ of materials and _____ man-days (per structure)

6. Please estimated cost of roadway repairs following a flood event:

a. shoulder restoration: \$ _____ and _____ man-days (per instance)

b. average conditions that trigger shoulder erosion?: _____ ft and _____ ft/

7. Please estimate agency costs for addressing claims of vehicles trapped in flooded underpasses or otherwise damaged by flood waters: \$ _____ or _____ man days (per instance)

Other items of note: _____
