



Montana Department of Natural Resources (DNRC) Floodplain Management Program

Ward's Science Storm Water/Floodplain Simulator Loan Information

01/2011(updated 3/2013) by Mary Guokas

The Ward's Science Floodplain Simulator is available to communities, non-profits, other agencies for loan at no cost, except for expenses that may be associated with transporting the simulator from Helena. To see the simulator in action, watch 5-minute video from this link:

<http://www.vwreduction.com/videos/wards/floodplain-model.html>

Size and Weight

- Size of simulator: 46 ¾" long x 16 ½" Wide x 9" High
- Approximate size with case: 48" long x 18" wide x 15" tall.
- Approximate weight in case: 70-80 pounds, this includes the dolly which is permanently affixed to the case. The dolly is permanently attached to the storage case making for easy transport. ,

Transporting



Two people are needed to load and unload the simulator from the vehicle and from the case.

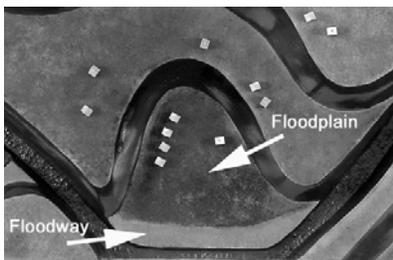
- Generally a large SUV or pick-up truck is needed to transport the simulator if the wooden case with dolly will be used.
- Securing transportation of the simulator is the responsibility of the borrower; however Montana DNRC floodplain staff may be available to help find transportation or transport.

Site Considerations



- No electricity is needed for the Simulator. It can be used outdoors, on a nice day.
- Electricity would be needed for optional use of "live" Excel-generated hydrographs via laptop or laptop and LCD projector.
- About 2 gallons of water are needed. Water pitcher and buckets are included.

Preparation for Simulator Use



- **Included in the loan is GREAT information contained in the "User's Guide" and "Student Handout".** Electronic copies can be sent, prior to loan, upon request. Allow a day (really!) of prep time to review the "User's Guide" and acquaint yourself with the simulator. I frequently use a modification of Activity 3, "Modeling Flood Risk Factors".

- For the sake of state-wide consistency, the terms "Floodway" and "Floodplain" are illustrated at left as well as in the "User's Guide" on page 21.

To reserve the simulator, contact:

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