

Hydrologic Engineering Center
Workshop on

FLOOD WARNING - PREPAREDNESS PROGRAMS

Davis, California
Hydrologic Engineering Center

WORKSHOP OBJECTIVES

The Flood Warning - Preparedness Program (FW-P), sponsored by the Flood Plain Management Services Program, is designed to provide the participants with a better understanding of FW-P programs and the analysis methods involved in planning, designing, and implementing these programs. The workshop emphasizes the roles and responsibilities of local and federal agencies, and includes presentations of several case examples. The workshop is intended for persons who are or will be actively involved in the planning, design, or implementation of flood warning - preparedness programs. Participants should have a minimum of two years experience in hydrologic engineering, planning study management, floodplain management, or emergency operations.

Flood Warning - Preparedness Programs

DAY 1

Tuesday,

<u>Time</u>	<u>Description</u>
8:00- 8:40 a.m..	INTRODUCTION
8:40- 9:00 a.m..	Video.: "AWESOME POWER"
9:00-10:00 a.m.	1,,1 Lecture: OVERVIEW OF FLOOD WARNING - PREPAREDNESS PROGRAM COMPONENTS AND CORPS AUTHORITIES A description of flood warning - preparedness program components, Corps' authorities, and overview of ongoing Corps studies and projects related to flood warning-preparedness programs will be given.
10.00-10:20 a.m.	Break
10:20-11 :30 a m	1.2 Lecture: ROLE OF THE NATIONAL WEATHER SERVICE AND RIVER FORECAST CENTERS (RFC) The National Weather Service's policy and RFC role regarding flood warning -- preparedness will be described.
11 30-11 45 a.m	Class Photo
11 45-12 45 p.m.	Lunch
12: 45- 2 00 p m	1 3 Lecture:: OVERVIEW OF FLOOD THREAT RECOGNITION METHODS Methods for flood-threat recognition, including the ALERT system, will be described
2:00- 3:00 p.m.	1 4 Lecture: DATA COLLECTION AND PROCESSING METHODS An overview of data collection, communication, and processing methods related to flood-threat recognition/forecasting and warning dissemination will be made.
3:00- 3:15 p m	Break
3:15- 5:00 p.m.	1.5 Workshop DEMONSTRATION OF AN ALERT TYPE SYSTEM A demonstration of hardware and software applications of an ALERT type system will be made.

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DAY 2

Wednesday

<u>Time</u>	<u>Description</u>
8:00- 9::00 a.m..	<p>2.1 Lecture: CORPS ACTIVITIES FOR FLOOD WARNING - PREPAREDNESS PROGRAMS - HQUSACE FPMS PERSPECTIVE</p> <p>An overview of the authorities, and the present and future planning and floodplain management program role in flood warning - preparedness programs will be presented.</p>
9-00-10:00 a.m.	<p>2.2 Lecture CORPS ACTIVITIES FOR FLOOD WARNING - PREPAREDNESS PROGRAMS - HQUSACE H&H PERSPECTIVE</p> <p>An overview of the Corps flood control preparedness programs from the hydrologic-hydraulics perspective will be presented. The utility of programs as stand-alone measures as well as components of other measures will be discussed.</p>
10:00-10:15 a.m.	Break
10:15-11:30 a.m.	<p>2.3 Lecture CASE EXAMPLE: VENTURA COUNTY, CA A case example of the Ventura County flood threat recognition system will be presented.</p>
11:30-12:30 p.m.	Lunch
12.30-1:45 p m	<p>2 4 Lecture CASE EXAMPLE: ARIZONA STATEWIDE FLOOD WARNING SYSTEM</p> <p>A case example of the planning, design and implementation of the Arizona Statewide Flood Warning System will be presented.</p>
1 50- 2.:45 p.m.	<p>2.5 Lecture HYDROLOGIC ASPECTS OF FLOOD WARNING- PREPAREDNESS PROGRAMS</p> <p>The hydrologic engineering concepts and analysis of flood threat recognition systems, including evaluation of warning time and gage network design will be described.</p>
2:45- 3.:00	Break
p.m. 3.00- 4:30	2 6 Workshop FLOOD THREAT RECOGNITION SYSTEM EVALUATION
p.m.	Workshop Review
4.30- 5:00 p m	Flood Warning - Preparedness Programs

DAY 3

Thursday

<u>Time</u>	<u>Description</u>
8°00- 9::15 a.m.	3.1 Lecture PRESENTING INFORMATION FOR EFFECTIVE RESPONSE Effective methods for presenting and disseminating flood warning information to encourage appropriate community response will be presented.
9:15- 9:30 a.m.	Break
930-10.30 a.m.	3.2 Lecture HEC-RIVER ANALYSIS SYSTEM (HEC-RAS) An overview of HEC-RAS and its use for inundation mapping will be given.
10:30- 11:30 a.m.	3.3 Lecture CASE EXAMPLE: JEFFERSON COUNTY, AK A case example of the Jefferson County flood preparedness planning process will be presented. An overview of the complete process will be given, including funding, obtaining requests, and preparing and presenting study results.
11:30-12:30 p.m.	Lunch
12:30- 1:45 p.m.	3,4 Lecture CASE EXAMPLE: SACRAMENTO COUNTY, CA A case example of the Sacramento County flood warning preparedness system will be presented.
1:50- 2::45 p m	3.5 Lecture PLAN FORMULATION AND EVALUATION Strategy for formulating and evaluating flood warning - preparedness programs will be presented.
2:45- 3::00 p.m.	Break
3:00- 4::30 p.m.	3.6 Workshop FORMULATE AND EVALUATE A FLOOD WARNING - PREPAREDNESS PLAN
4:30- 5:00 p m	Workshop Review

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DAY 4

Friday

<u>Time</u>	<u>Description</u>
8:00- 9:15 p.m.	4.1 Lecture: OVERVIEW OF THE WATER CONTROL DATA SYSTEM (WCDS) Background, goals, and status of the WCDS modernization program will be presented. Overall function interaction will be discussed, along with demonstration of it use on the Bald Eagle Creek pilot project. Milestones for program completion will be presented.
915- 9:30 a.m.	Break
9.30-10:30 ^{a.m.}	4.2 Lecture: FLOOD WARNING PREPAREDNESS - THE NEXT FIVE YEARS Where we stand now and a forward view of federal, private and local activities in the flood warning - preparedness area will be described,. Issues of continued maintenance and support, ownership, and implementation will be addressed as well as new and emerging technical capabilities.
10.30-11:15 a.m.	CRITIQUE AND CLOSING