

Chelan County Commissioners Flood Control Briefing

July 16, 2013



Flood Impacts in Chelan County

- ◆ Forest Fire Burn Areas and Flood Risk
- ◆ History of Flash Flooding
 - ◆ 1925 Squilchuck Creek – 14 fatalities
 - ◆ August 25, 1956
 - ◆ November 24, 1965
 - ◆ August 23, 1965
 - ◆ February 11, 1969
 - ◆ January 11, 1972
 - ◆ June 9, 1972
 - ◆ October 31, 1980
 - ◆ December 3, 2007
 - ◆ July 28, 2010
 - ◆ June 29, 2013

Recent Events

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SATURDAY, JULY 13, 2013

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FORECAST



NEWS

SPORTS

OPINION

OBITUARIES

A & E

LIFESTYLE

BLOGS

In this section Local

Pilot OK but under arrest after glider goes down on Badger Mountain

Summer photos capture valley's past

Arrest made in Othello double homicide

Turnwater is dangerous and sometimes fatal

Local activist says she only wants justice for bombing suspect

Street alert

Experts to talk about wolves' impact to deer, elk

Michael Finley picked to lead Colville Tribes

The Worm: A winning prank and a birthday bash

Summer storms pelt foothills, pop manhole covers

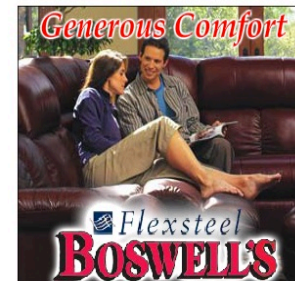
by By Mike Irwin | World staff writer | June 29, 2013, 6:45 p.m. | Comment



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Preparedness & Prevention

- Reduce flood risk to human life, property, agriculture, roads, drinking water, animals
- Be prepared
 - Education
 - Alerts
 - Evacuation plans
- Prevention
 - Levees, diversion, channelization, debris basins
 - Vegetation management

7/20/2012 2:46:00 PM

Weather Service issues flood watch for Chelan County

FLOOD WATCH
NATIONAL WEATHER
SERVICE SPOKANE WA
725 PM PDT THU JUL 19
2012



...THUNDERSTORMS CAPABLE OF HEAVY RAIN ARE EXPECTED FRIDAY OVER A LARGE PORTION OF EASTERN WASHINGTON AND THE IDAHO PANHANDLE...

THUNDERSTORMS WILL DEVELOP THIS EVENING NEAR THE OREGON-WASHINGTON BORDER AND SPREAD NORTHWARD THROUGH THE OVERNIGHT HOURS. THESE THUNDERSTORMS WILL MOVE SWIFTLY TO THE NORTH SO THE FLOODING RISK IS RELATIVELY SMALL. THIS BATCH OF THUNDERSTORMS SHOULD TAPER OFF EARLY FRIDAY MORNING...SETTING THE STAGE FOR THE NEXT ROUND OF STORMS BY LATE MORNING.

THIS SECOND ROUND OF THUNDERSTORMS HAS A MUCH BETTER CHANCE OF PRODUCING VERY HEAVY RAINS AND POSSIBLE FLOODING. LOCATIONS NORTH OF THE COLUMBIA BASIN AND PALOUSE WILL SEE THE HIGHEST RISK OF FLOODING.

CHELAN-
INCLUDING THE FOLLOWING LOCATIONS...WENATCHEE...LEAVENWORTH...
CASHMERE...ENTIAT...CHELAN...MANSON...PLAIN
725 PM PDT THU JUL 19 2012

...FLASH FLOOD WATCH REMAINS IN EFFECT THROUGH FRIDAY AFTERNOON...

District Types

- ◆ Flood Control by Counties (River Improvement Fund)* [Ch. 86.12 RCW](#)
 - ◆ Environmental Protection, Public Safety
 - ◆ Funding source for river improvements
- ◆ Flood Control by Counties Jointly - 1913 Act (Intercounty) [Ch. 86.13 RCW](#)
 - ◆ Environmental Protection, Public Safety
 - ◆ To help counties control flooding on a river that is or shall be the boundary line between two counties or its tributaries or outlet flows through parts of two counties and has a history of flooding
- ◆ Flood Control Districts - 1937 Act [Ch. 86.09 RCW](#)
 - ◆ Environmental Protection, Public Safety
 - ◆ Protection of life and property, the preservation of the public health and the conservation and development of the natural resources
- ◆ Flood Control Zone Districts [Ch. 86.15 RCW](#)
 - ◆ Environmental Protection, Public Safety
 - ◆ Undertaking, operating, or maintaining flood control projects/storm water control projects for areas of the county

Flood Control District and Control Zone District

- ◆ **Flood Control District Act of 1937** [Ch. 86.09 RCW](#)
 - ◆ Provides for the creation of flood control districts for the protection of life and property, the preservation of the public health and the conservation and **development of the natural resources.**
- ◆ **Flood Control Zone Districts** [Ch. 86.15 RCW](#)
 - ◆ Passed in 1961, the law enabled "flood control zone districts," for the purpose of undertaking, operating, or maintaining flood control projects or storm water control projects or groups of projects that are of special benefit to specified areas of the county.

Counties with Flood Districts

Cowlitz

Iver Lake

Lewis

No. 1

No. 2

Okanogan

Riverside

Snohomish

French Slough

Marshland

Robe Valley

Stillaguamish

Spokane

Newman Lake

Wahkiakum

Upper Grays

Walla Walla

Waitsburg-Coppei

(Walla Walla and Columbia
Counties)

Waitsburg

(Bolles-Prescott
Prescott (part))

Whatcom

McCaulay Creek

Counties with Flood Control Zone Districts

Cowlitz

Lexington Flood

King

King County
(2007- countywide)

Kittitas

Kittitas County
(2012- countywide)

Lewis

Lewis County

Mason

Skokomish

Pacific

District No. 1

Pierce

Pierce County
(2012 - countywide)

Skagit

Skagit County

Walla Walla

Mill Creek
College Place (part)
Walla Walla (part)

Whatcom

Whatcom County
(countywide)

Yakima

Yakima County
(countywide)

FCZD vs. SWM Utility

◆ Flood Control Zone District

- ◆ Purpose: Implement flood control measures
- ◆ Revenues: General taxes (property tax), fee for services (parcel fee) or special benefit
- ◆ Scope: County-wide or by basin

◆ Stormwater Management Utility

- ◆ Purpose: Improve stormwater quality, manage stormwater permit, maintain urban stormwater systems
- ◆ Revenue: Fee for service, utility model
- ◆ Scope: Utility Service Boundary

FCZD How it Works

Board of Supervisors

County Commissioners or Separately Elected

County-wide property levy tax

Up to 50 cents/thousand assessed value

Implements Flood Control Projects

Maintenance, operations, capital projects

Advisory Committee

Up to 15 members

Eligible Projects

- ◆ Planning, feasibility, public information, flood warning
- ◆ Habitat, water quality
- ◆ Levees, debris basins, channelization, floodwalls, setbacks, temporary flood protection, home elevation, land acquisition
- ◆ Capital projects must be in a comprehensive plan of development
 - ◆ Must have engineering drawings on file

Benefits Partnerships & Leverage

- ◆ The Flood Control District also partners with a wide range of external entities—from local tribes to state and federal agencies such as the U.S. Army Corps of Engineers and the Federal Emergency Management Agency (FEMA).
- ◆ Decreased insurance costs – FEMA Community Rating System
- ◆ Avoid property clean-up costs – public and private
- ◆ Examples of outside funding
 - ◆ Pierce County leverage ratio 7/1 (federal)
 - ◆ King County state and federal grants

Next Steps: Feasibility Analysis

- ◆ Boundaries
- ◆ Assessed value and financial scenarios
- ◆ Range of capital projects
- ◆ Comprehensive Plan of Development (Flood Hazard Management Plan)
- ◆ Public Outreach

Formation

- ◆ Ordinance of Intent to Form
 - ◆ SEPA on Flood District Formation Intent
- ◆ Boundary Review Board
- ◆ Final Ordinance of Formation
- ◆ Property Tax Levy
- ◆ Budget
- ◆ Project Selection

Funding Options for Next Step

- ◆ State Department of Ecology
 - ◆ Flood Control Assistance Account
- ◆ Legislature
 - ◆ Direct project award
- ◆ FEMA
 - ◆ Flood Mitigation Assistance Program
 - ◆ Pre-disaster Mitigation Grant Program
- ◆ Natural Resources Conservation Service
 - ◆ Small Watershed Program and Flood Prevention Program
 - ◆ Emergency Watershed Protection Program
- ◆ US Army Corps of Engineers
 - ◆ Small Flood Control Projects

Arizona Example

- ◆ <http://www.azfamily.com/news/Flood-control-for-the-Schultz-Fire-burn-area-201356481.html>

Questions?

