

The Future Aint What It Used To Be

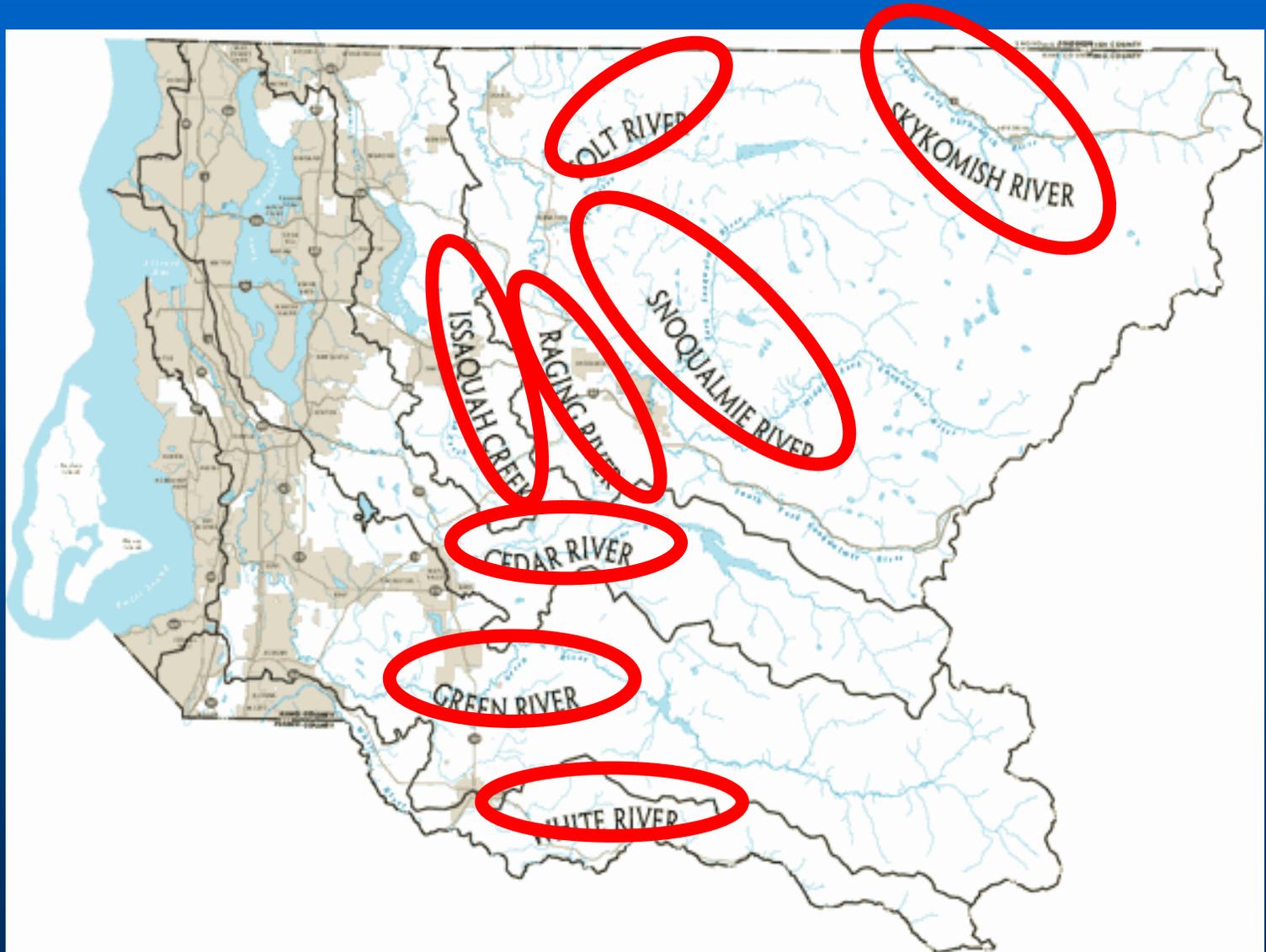
Flood Hazard Management In King County

Speaker:

Dave Clark, King County Flood Program Manager (Ret.)

Flood Hazard Management in King County

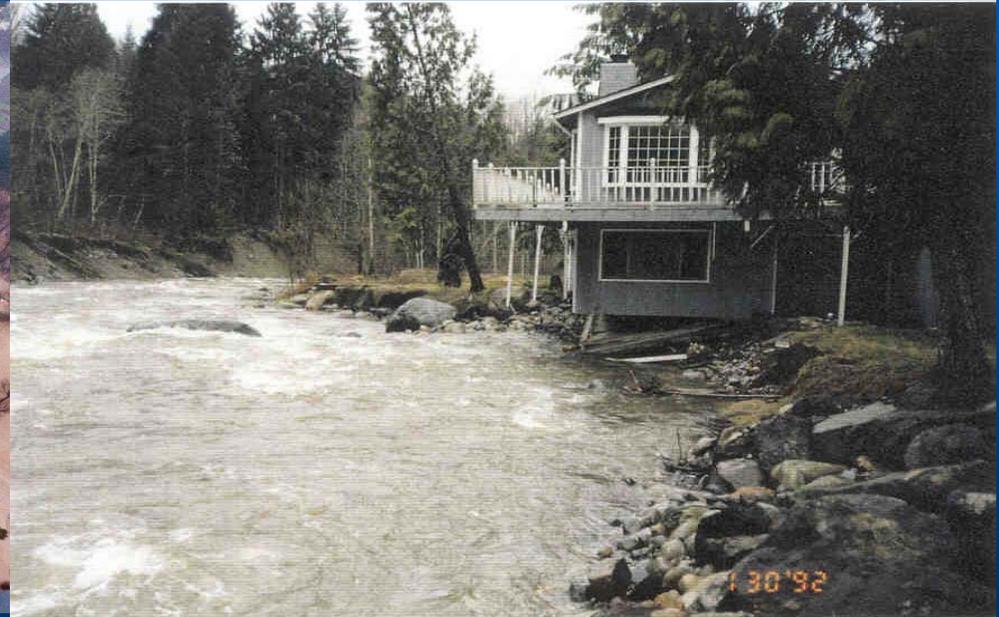
River Basins Managed for Flood Hazards



Flood Hazard Management in King County

Major Flood Events

- ☁️ King County flood events typically occur in the late fall and winter - 'Pineapple Express' rain on snow events



Flood Hazard Management in King County Program Overview – 3 Key Elements

Policies and Regulations:

- King County Flood Hazard Management Plan
- King County Critical Areas Ordinance (flood hazard and channel migration)

Programs and Services:

- Specific programs and services implementing Plan policies

Capital Improvement Projects:

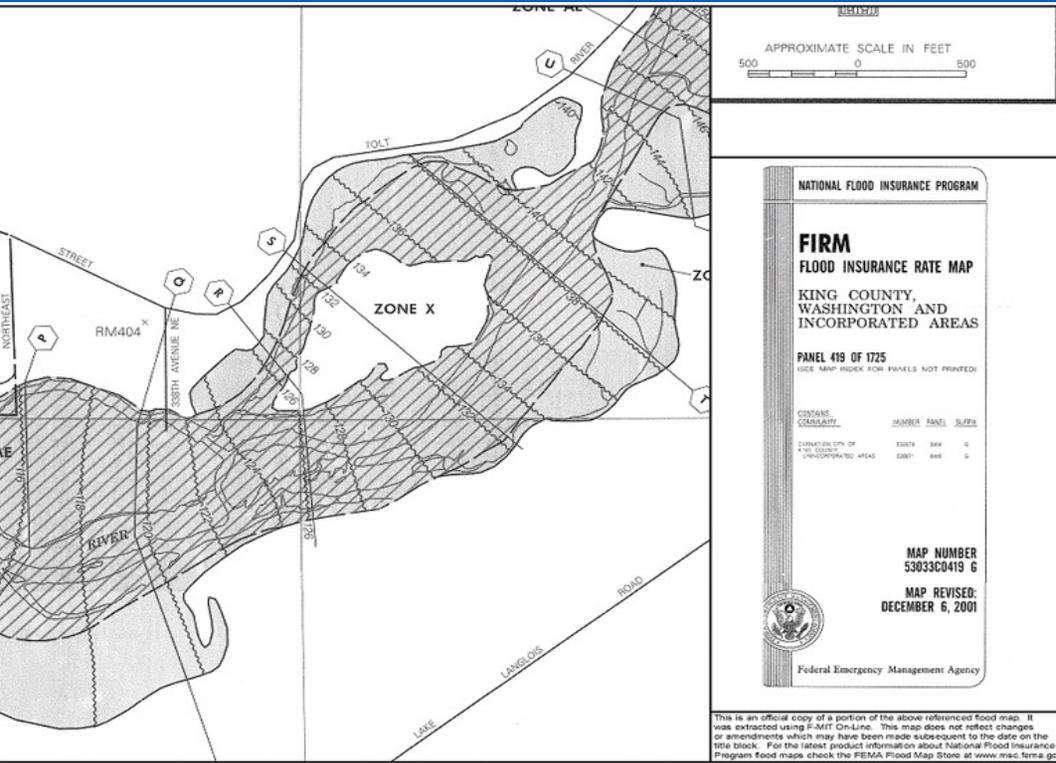
- Structural and non-structural flood protection projects

Flood Hazard Management in King County Programs and Projects

-  **Comprehensive Planning**
-  **Technical Studies And Mapping**
-  **Major Maintenance And Retrofit Of Existing Facilities**
-  **Capital Improvement Projects: New Levees And Revetments**
-  **Home Buyouts And Elevations**
-  **Flood Warning And Emergency Response**
-  **Interlocal Coordination**
-  **Citizen Awareness, Outreach, And Education**

Flood Hazard Management in King County

Technical Studies & Mapping



Flood Hazard Management in King County

Major Maintenance and Retrofit of Existing Facilities



**Meadowbrook
Biostabilization Project
on the Snoqualmie
River**

**Narita Levee Setback and
Biostabilization Project on
the Green River**



Flood Hazard Management in King County

Elevation and Buyouts



Elevated Home Near
the Snoqualmie River

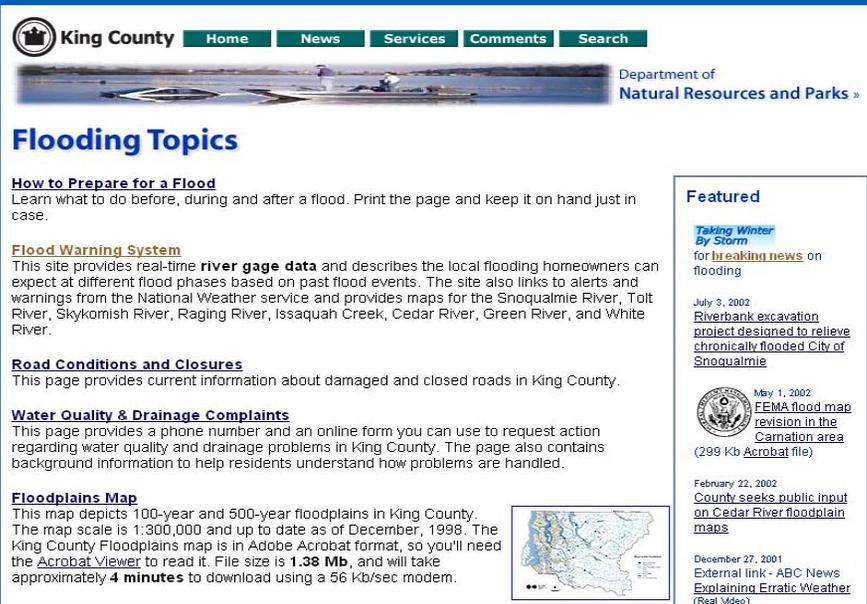
Demolition of
Cedar Slide Home
Buyout



Flood Hazard Management in King County

Flood Warning & Emergency Response

<http://dnr.metrokc.gov/wlr/flood>



King County Home News Services Comments Search

Department of
Natural Resources and Parks »

Flooding Topics

How to Prepare for a Flood
Learn what to do before, during and after a flood. Print the page and keep it on hand just in case.

Flood Warning System
This site provides real-time **river gage data** and describes the local flooding homeowners can expect at different flood phases based on past flood events. The site also links to alerts and warnings from the National Weather service and provides maps for the Snoqualmie River, Tolt River, Skykomish River, Raging River, Issaquah Creek, Cedar River, Green River, and White River.

Road Conditions and Closures
This page provides current information about damaged and closed roads in King County.

Water Quality & Drainage Complaints
This page provides a phone number and an online form you can use to request action regarding water quality and drainage problems in King County. The page also contains background information to help residents understand how problems are handled.

Floodplains Map
This map depicts 100-year and 500-year floodplains in King County. The map scale is 1:300,000 and up to date as of December, 1998. The King County Floodplains map is in Adobe Acrobat format, so you'll need the [Acrobat Viewer](#) to read it. File size is **1.38 Mb**, and will take approximately **4 minutes** to download using a 56 kb/sec modem.



Featured

[Taking Winter By Storm](#)
for [breaking news](#) on flooding

July 3, 2002
[Riverbank excavation project designed to relieve chronically flooded City of Snoqualmie](#)

May 1, 2002
[FEMA flood map revision in the Carnation area](#)
(299 Kb Acrobat file)

February 22, 2002
[County seeks public input on Cedar River floodplain maps](#)

December 27, 2001
[External link - ABC News Explaining Erratic Weather](#)
(Real Video)

Erosion Along Left Bank of Cedar River at Riverbend Mobile Home Park



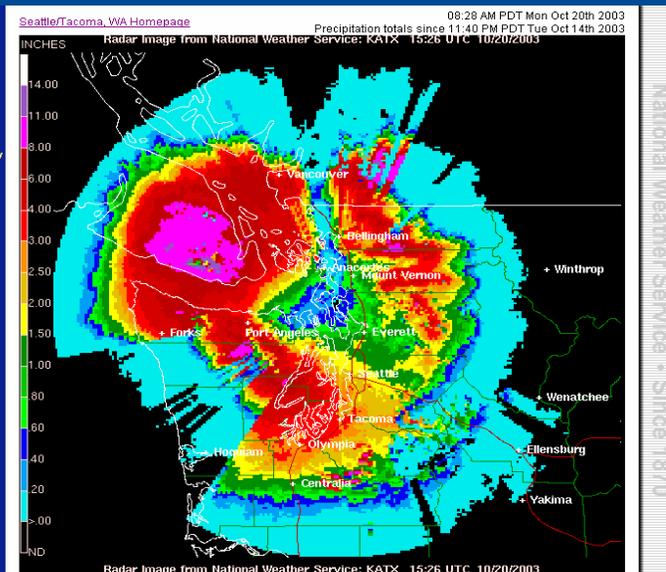
Interactive Flood
Warning Web Site

Flood Hazard Management in King County

Interlocal Coordination



Dam Operations with the **City of Seattle** at the Chester Morse Reservoir and the **Army Corps of Engineers** at Mud Mountain Dam.



Weather Forecasting with the **National Weather Service** and River Gauging with the **U.S. Geological Survey**



Flood Hazard Management in King County NFIP Community Rating System

-  **King County Is The Highest Rated County In The Country**
-  **Class 3 Rating, Effective October 1, 2005**
-  **Provides A 35% Discount On Flood Insurance Policies, \$340K In Savings To Policy Holders In King County**

Flood Hazard Management Climate Change Considerations

-  **Regulations And Flood Hazard Mapping**
- Is The Current 100 Year Regulatory Floodplain Appropriate For Future Management of Riverine Environments?
 - Are FEMA Mapping Standards For Mapping Regulatory Floodways Appropriate For Identifying ‘No Build/High Risk’ Floodplain Areas?
 - Should Floodplain Mapping Requirements Vary According to River and Stream Size and Level of Development?
 - Future Conditions Floodplain Mapping of Smaller Watersheds?

Flood Hazard Management Climate Change Considerations

Flood Protection Facilities:

- Design Standards. Is the 100 year flood the appropriate design standard for new flood protection projects in the future considering climate change impacts? Additional factors of safety? Freeboard on levees?
- Risk Assessment. What types of climate change information should be considered in evaluating potential risks of damage and/or failure to existing flood protection projects?
- Increased Maintenance Needs. Infrastructure maintenance and ecosystem damage will likely increase with increased flood frequency. How should local entities respond to the situation, given that maintenance is typically under-funded? Liabilities?

Flood Hazard Management Climate Change Considerations



Integrated Planning and Management

- Information. Cross programmatic and interagency data management strategies and priorities?
- Floodplain Management. Managing for multiple benefits (ecosystems, clean water, recreation, etc)?
- Flood forecasting. Future capabilities to improve lead time and public agency response?
- Emergency Response. Potential for more frequent flood warnings and emergency response services - emergency repairs, impact on other programs and services?
- Disaster Response and Recovery. Improve management and coordination of disaster response and recovery?