

King County Flood Hazard Management Plan

King County Council
Committee of the Whole
October 21, 2013





Presentation Overview

- **Purpose of the Flood Plan**
- **Update to the Flood Plan**
- **Accomplishments of the Flood Control District**
- **What is next**



What is the KING COUNTY FLOOD HAZARD MANAGEMENT PLAN?

Adopted under the
WASHINGTON COMPREHENSIVE FLOOD CONTROL PLAN
RCW 86.12.200

The
COMPREHENSIVE PLAN
for the King County Flood Control District

The flood component of the King County Flood Control District's
HAZARD MITIGATION PLAN
under the Disaster Management Act

The flood component for the
KING COUNTY REGIONAL HAZARD MITIGATION PLAN
under the Disaster Management Act

The King County plan for addressing frequently flooded areas under the
KING COUNTY COMPREHENSIVE PLAN
making King County compliant with the Growth Management Act

The flood plan for the
COMMUNITY RATING SYSTEM
for unincorporated King County

CRS UPDATE REQUIRED EVERY 5 YEARS

Three objectives:

- **Reduce risks from flood and channel migration hazards**
- **Minimize the environmental impacts of flood projects**
- **Reduce long term maintenance costs**



Why are we updating the Flood Plan?

Rivers change.

So must our plans to manage risk.

2013 KING COUNTY FLOOD HAZARD MANAGEMENT PLAN UPDATE AND PROGRESS REPORT

An Amendment to the 2006 Flood Hazard Management Plan for the
Community Rating System



An aerial photograph of a city, likely in the Southeastern United States, showing a large river winding through the urban landscape. The river is surrounded by floodplains, and various industrial and residential buildings are visible. The image is used as a background for the text.

What **doesn't** change in this Flood Plan Update ?

- **No new policies**
- **No changes to goals or objectives**
- **No changes to capital priorities**

Flood Plan Update fulfills requirements of NFIP Community Rating System :

- **Class 2 Community**
- **Up to a 40% discount in flood insurance**
- **Annual savings of \$830,256 to unincorporated area flood insurance policyholders**

A black and white photograph of a river with a stone wall and construction equipment in the background. The scene is dimly lit, suggesting dusk or dawn. In the background, there are several pieces of heavy machinery, including what looks like a bulldozer and a truck, parked on a dirt area. The river flows in the foreground, and a stone wall runs along its edge. The overall atmosphere is somber and industrial.

What does change in this Flood Plan Update ?

New Information since 2007...

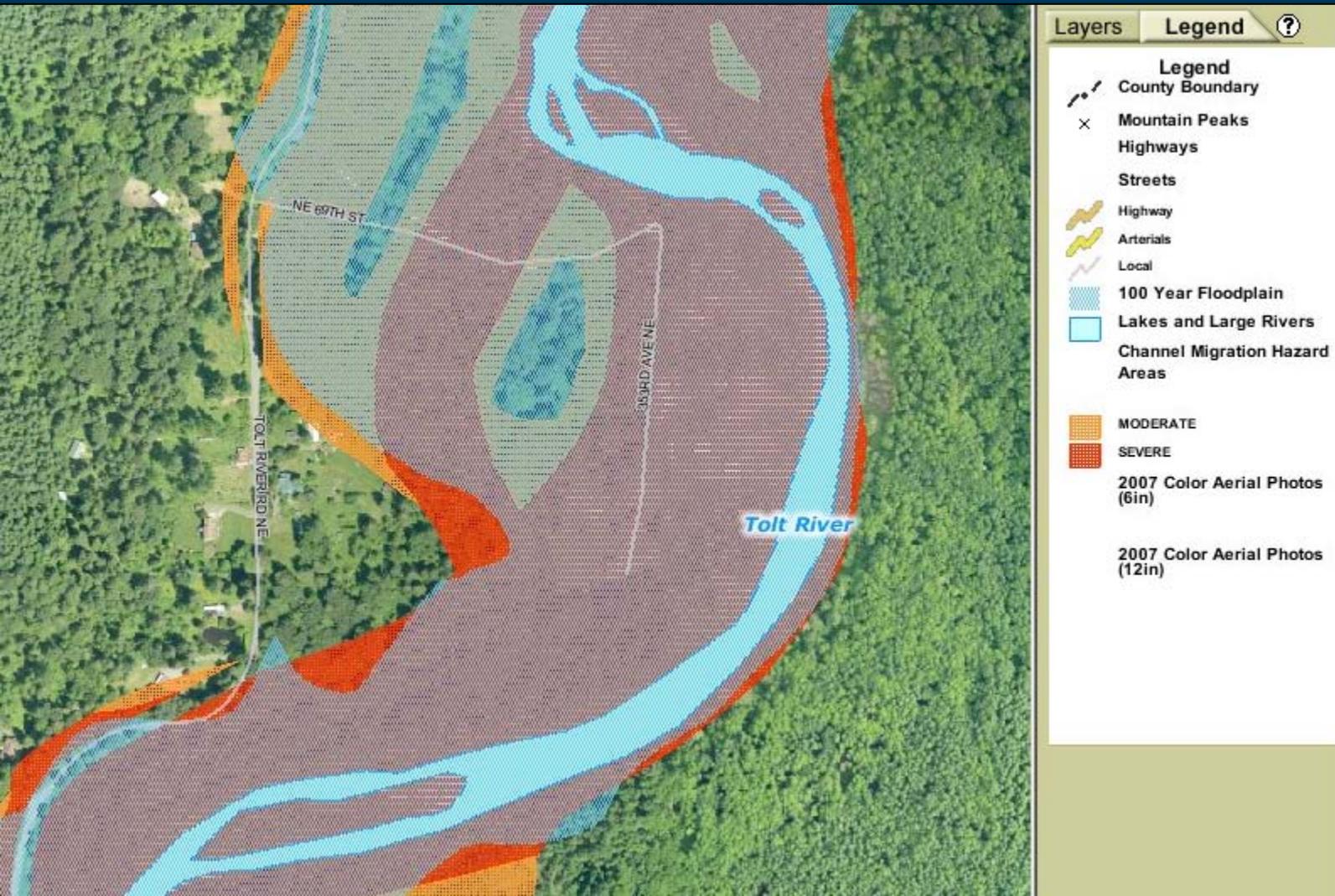
- **Flood District formation and governance**
- **Technical Updates**
 - hazard mapping
 - flood events and damages
- **Informational Updates**
 - reports changes to procedures and regulations
 - new outreach, warning and response methods
- **Accomplishments**

2007 – 2012

Success by the numbers

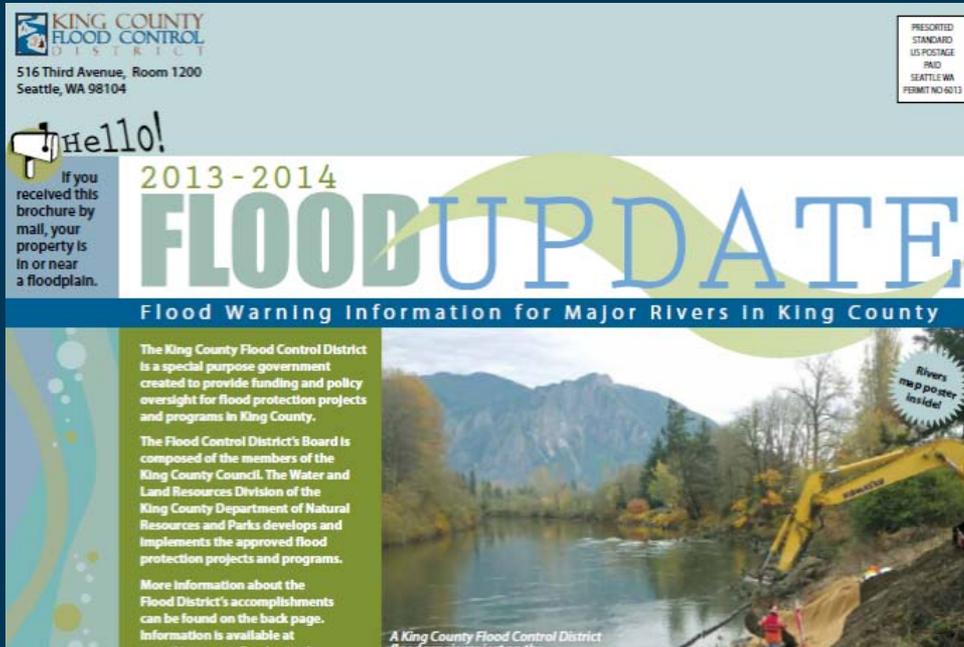
- **70 projects to reduce flood risks**
- **50 homes and 3 agricultural structures elevated since 1993**
- **26 farm pads built for flood refuge**
- **100 properties / 287 acres to move people from harms way**
- **5200 Flood Alert subscribers**

Accomplishment: Improved hazard mapping



*Tolt River
Channel
Migration
Map –
Available
on King
County
iMap*

Accomplishment: Improving flood preparedness



Flood Update mailed to 11,000 floodplain addresses each year

Flood safety videos available in 22 languages



Flood information available in multiple languages



Accomplishment: Flood Warning and Patrols

King County
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Flooding services

King County, Washington
You're in: Flooding services > Flood warnings and alerts

Related information

- Road closures
- Rivers and Floodplain Management Section
- Stormwater services
- Flood alerts

Flood warnings and alerts

King County, Washington

Current flood conditions for King County river flood references.

River/creek	Flood conditions
Tolt River	none
Snoqualmie River	none
Issaquah Creek	none
Cedar River	none
Green River	none
White River	Gage informat
Raging River	Gage informat
Skykomish River	

River locations in King County

To offer a suggestion or report an error on the King

King County
**FLOOD
ALERT**

Over 5,200 flood
alert subscribers

New smart
phone
application





Accomplishment: Sammamish Transition Zone Maintenance

- **1500 linear feet**
- **Increased flow capacity**
- **Controls lake level**



Accomplishment: Tolt Emergency Repair

- 2009 levee breach both banks
- 650 linear feet repaired
- Homes and highway protected



Accomplishment: Lower Tolt Levee Setback:

Tolt River
old levee alignment

Engineered log jams

New levee and trail system

New parking

- 50 acres of floodplain reconnected

An aerial photograph showing a river construction project. A long line of white sandbags or silt curtains runs along the riverbank. Several yellow excavators are working in the water and on the bank. Large logs are piled up on the right side of the river. A paved road with a black car and a dirt road with construction equipment are visible in the upper right. The surrounding area is lush with green trees.

Accomplishment: Belmondo Revetment Enhancement

- 370 linear feet reconstructed**
- Improved habitat benefit**
- Protects SR 169, fiber optic cable and Cedar River Trail**

Accomplishment: Rainbow Bend

- 
- Removed >900 linear feet levee
 - Reduces risk to infrastructure
 - Reconnects 40 acres floodplain



Accomplishment: Reddington Levee Setback



- **4800 linear feet**
- **596 structures protected**
- **\$680 million assessed value**

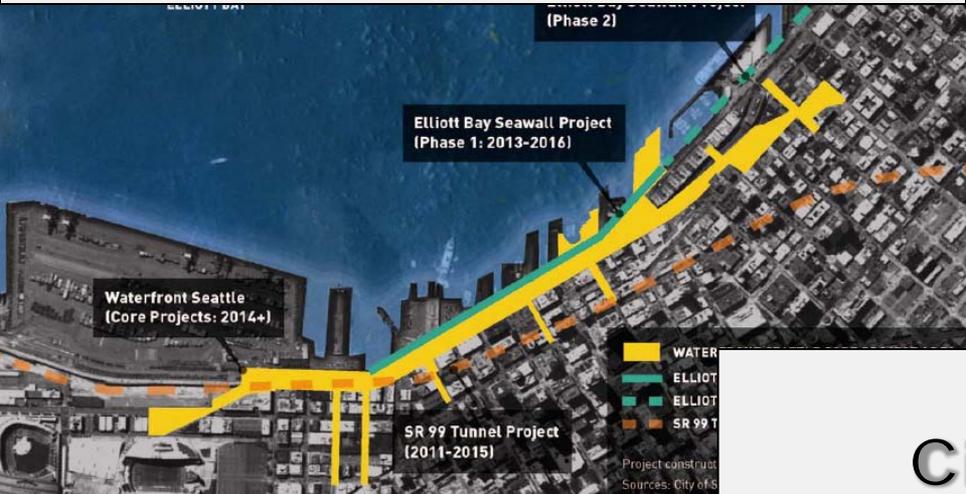
Accomplishment: White River Acquisitions



- Acquired 18 properties / 17.4 acres
- Relocated 6 houses from flood risk

Projects in development

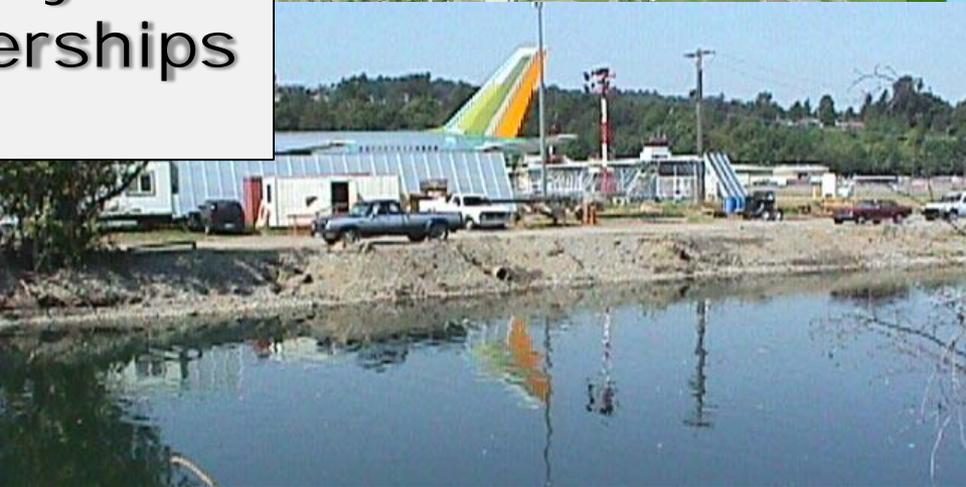
Seattle



Snoqualmie



City Partnerships



Bellevue

Renton

Projects in development

Tolt Pipeline / Winkelman

Sinnema Quaale



Near-term work



Countyline

Elliott Bridge



Projects in development

Corridor Planning	Implementation Begins
• Tolt River	2015
• Middle Fork Snoqualmie	2015
• Green River System Wide Improvement Framework	2015
• South Fork Snoqualmie	2015
• Cedar River	2016



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or

www.kingcounty.gov/rivers

