

# Nooksack River Floodplain Planning Process

Nooksack River Floodplain Workgroup

June 28, 2017

# Why are we doing this?

- 1999 CFHMP Purpose
  - Minimize future flood damages
  - Direct development and use of the floodplain
  - Reduce existing flood damages
  - Required for grant funding

# Why are we doing this?

- 1999 CFHMP → concept plan
  - Programmatic actions
    - Hydraulic modeling and alternatives analysis
    - Engineering design of capital projects
    - Meander limit identification
    - Sediment management strategy
    - Floodplain mapping and land use
    - Land and easement acquisition
    - Flood preparedness and emergency response
  - Conceptual projects

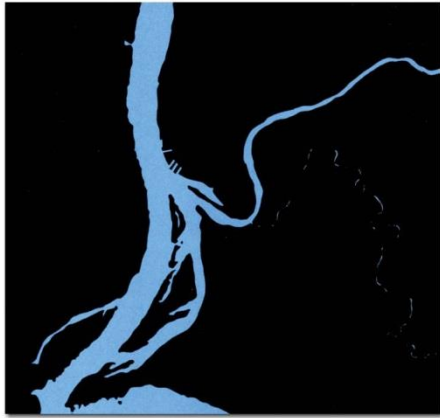
# What are we doing?

- Next steps to implementation
  - Update – things have changed
  - Refine – needs to work for landowners
  - Integrate – needs to work for fish
- Result – plan that includes:
  - Capital project list that we can implement
  - Implementation strategy – priorities, timeframes → 6-year WRIP
- Support funding requests
- Serve as CRS plan if we update

# Who is doing it?

- Steering committee
- Floodplain workgroup
- Public input
- Regular check-ins:
  - FCZD Advisory Committee
  - WRIA Management Team
  - FCZD Board of Supervisors

# 1991 DOE Planning Guidance



## Comprehensive Planning for Flood Hazard Management

A guidebook prepared by the Department of Ecology for local governments preparing comprehensive flood control management plans under Chapter 86.26 RCW, Chapter 173-158 WAC, and Engrossed Substitute Senate Bill 5411.



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printed on recycled paper

## Process to Prepare a Comprehensive Flood Hazard Management Plan

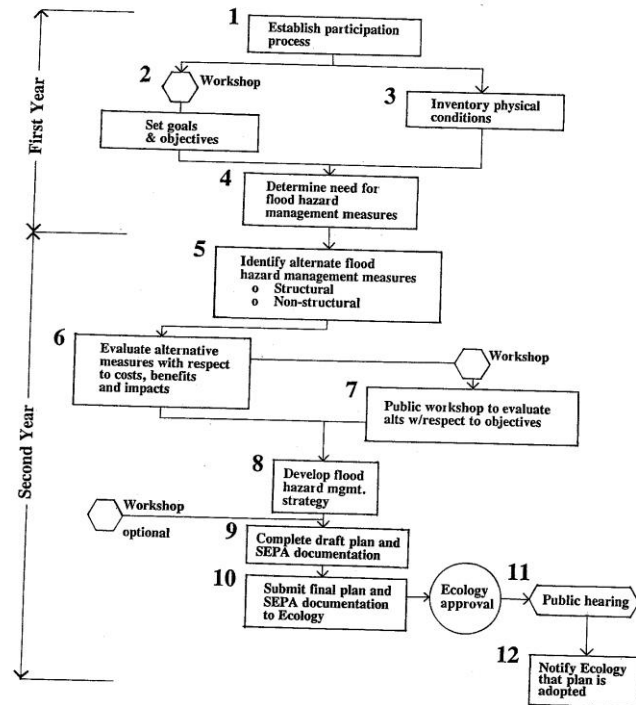
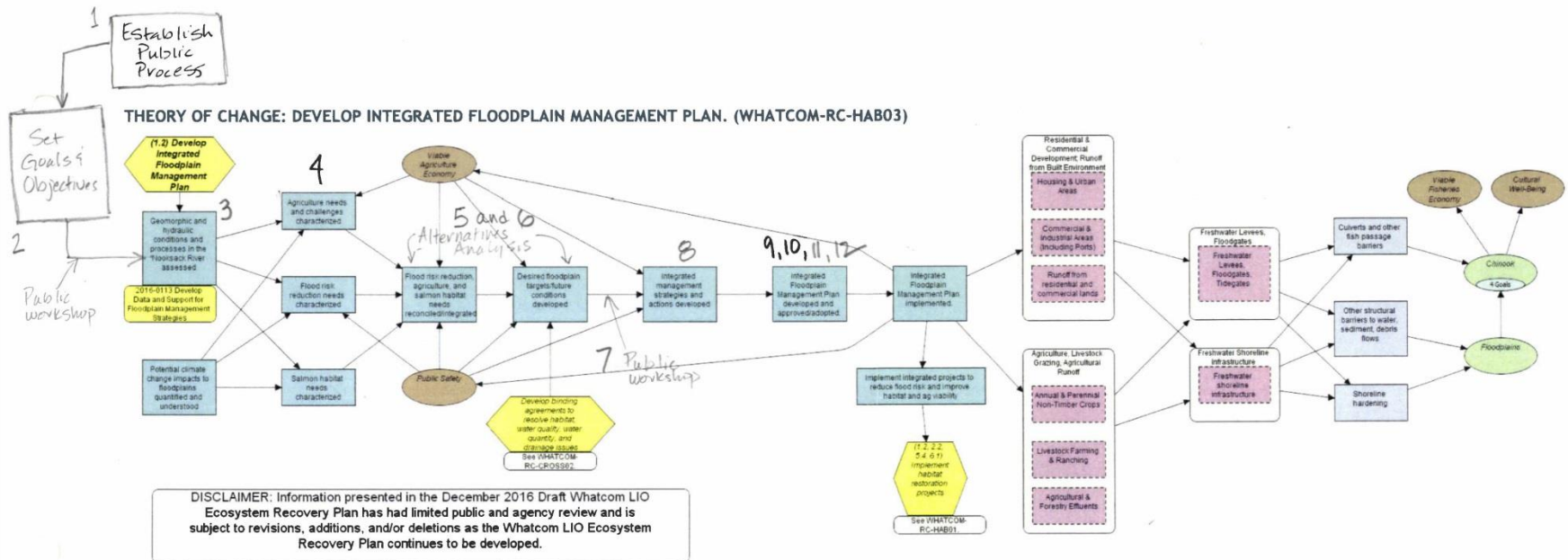


Diagram of Comprehensive Flood Hazard Management Plan (CFHMP) process.

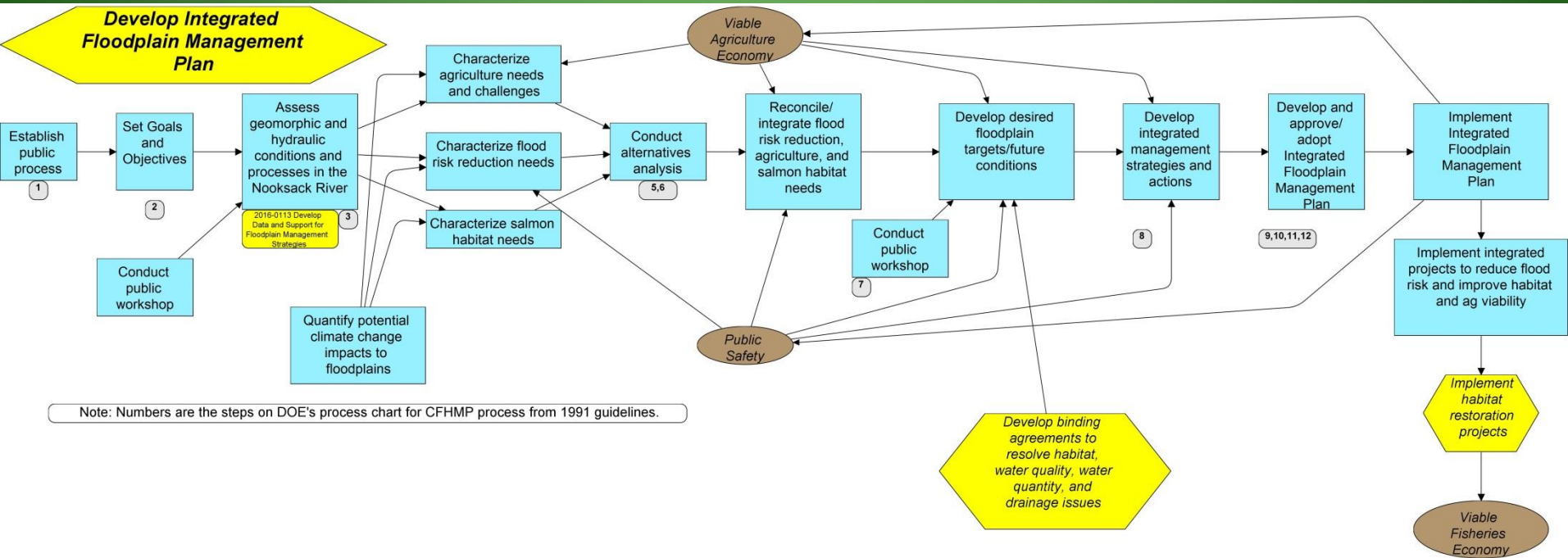
# Whatcom LIO Ecosystem Recovery Plan



## Description

This results chain describes the theory of change (including benefits to priority natural and human components) and the near-term action associated with developing an Integrated Floodplain Management Plan for the Nooksack River that updates the Lower Nooksack Comprehensive Flood Hazard Management Plan and integrates land use, flood risk reduction, and ecosystem recovery needs. Connections with related strategies (and associated results chains where available) are also shown.

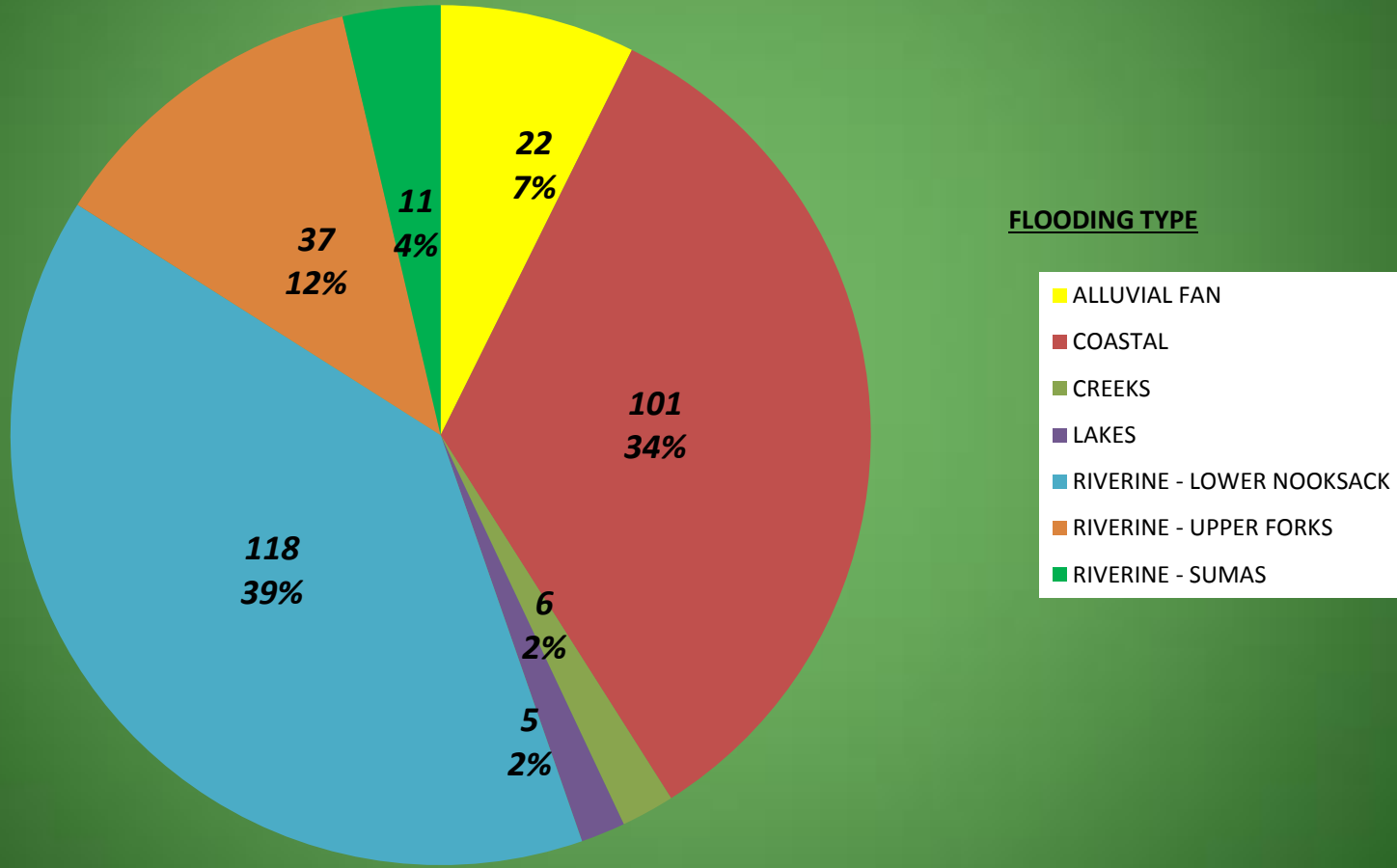
Numbers are the steps on DOE's process chart for CFHMP process from 1991 guidelines.





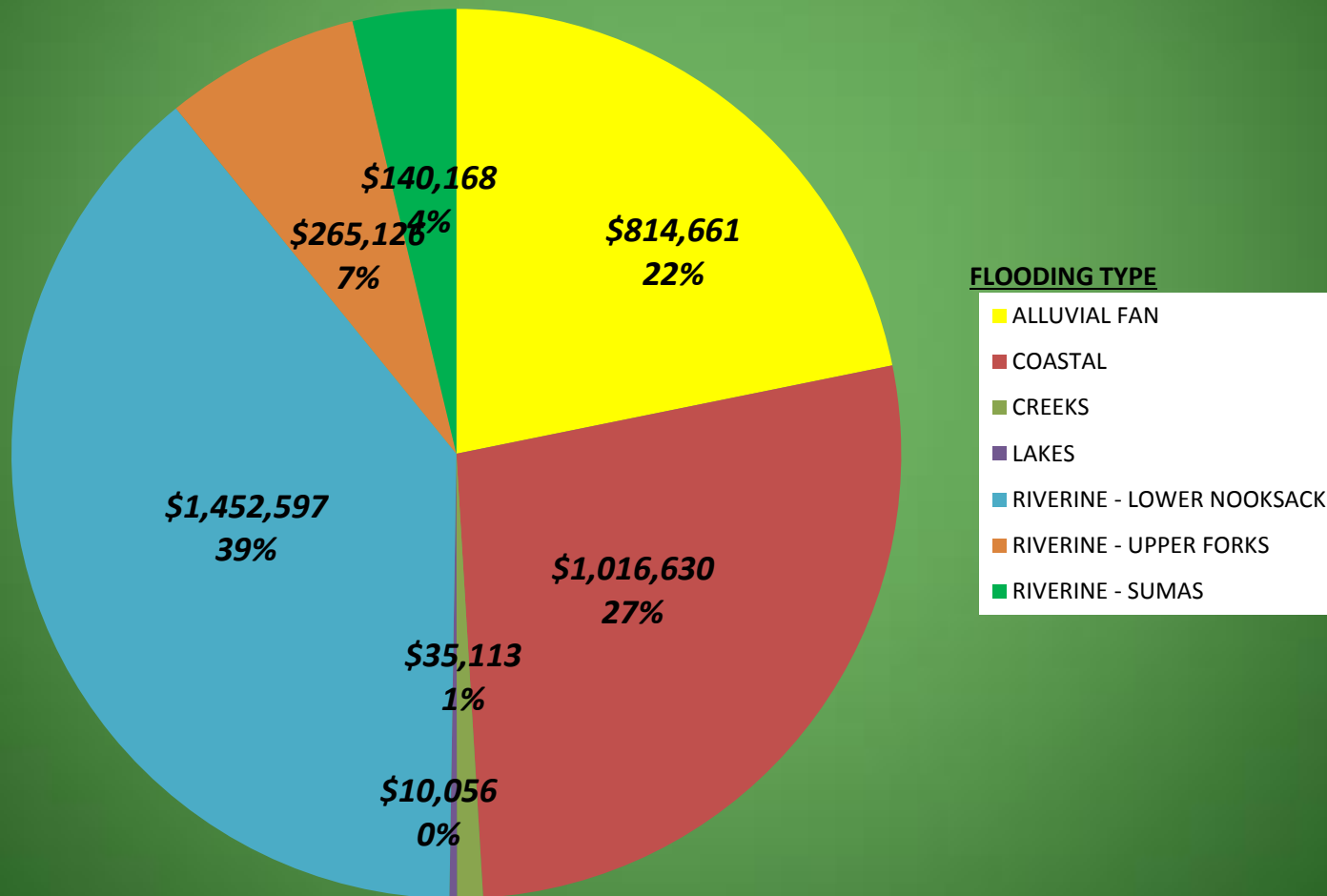
# Flood Insurance Claims (300)

Unincorporated Whatcom County



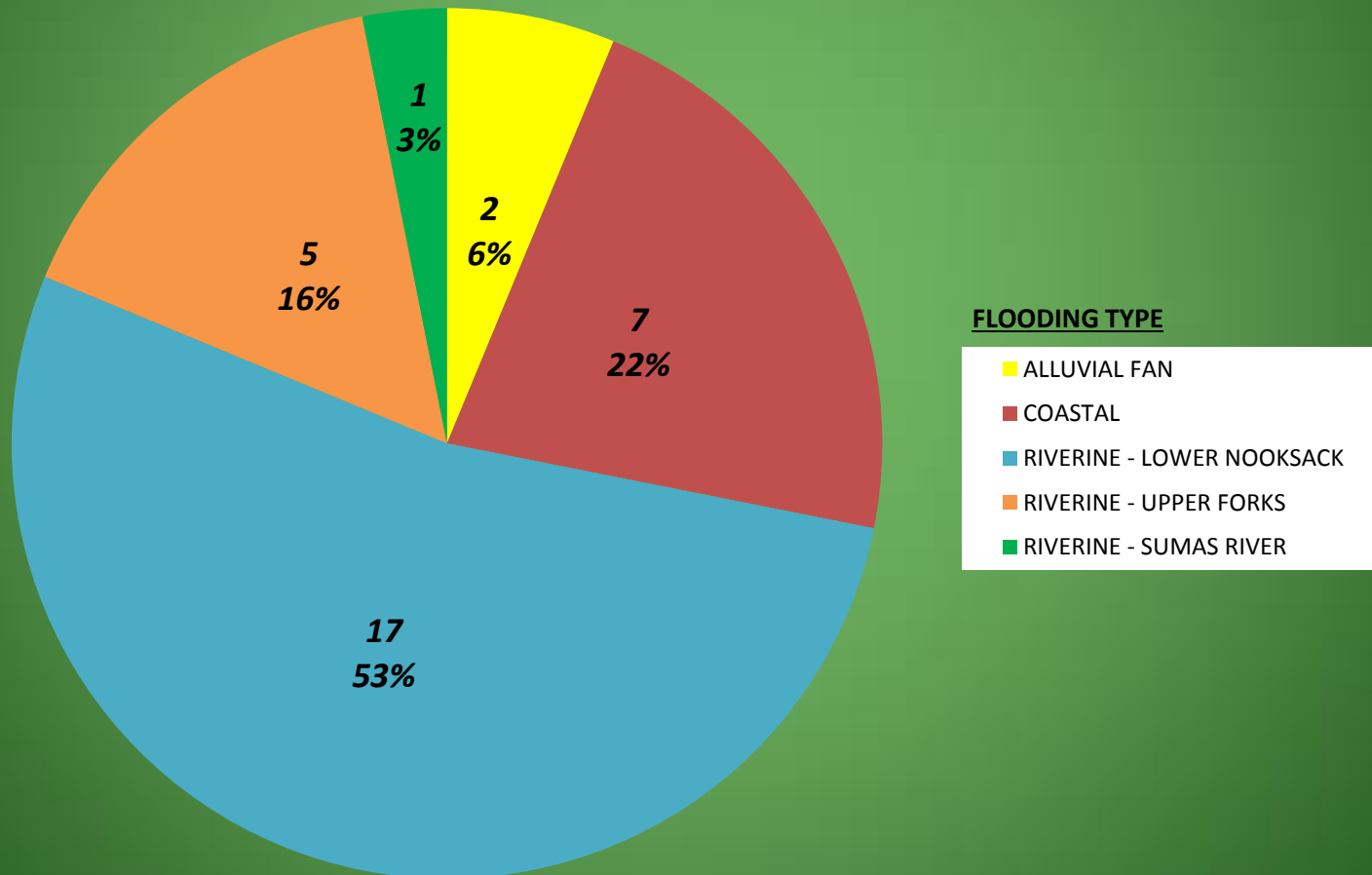
# Flood Insurance Claims (\$3,734,351)

Unincorporated Whatcom County



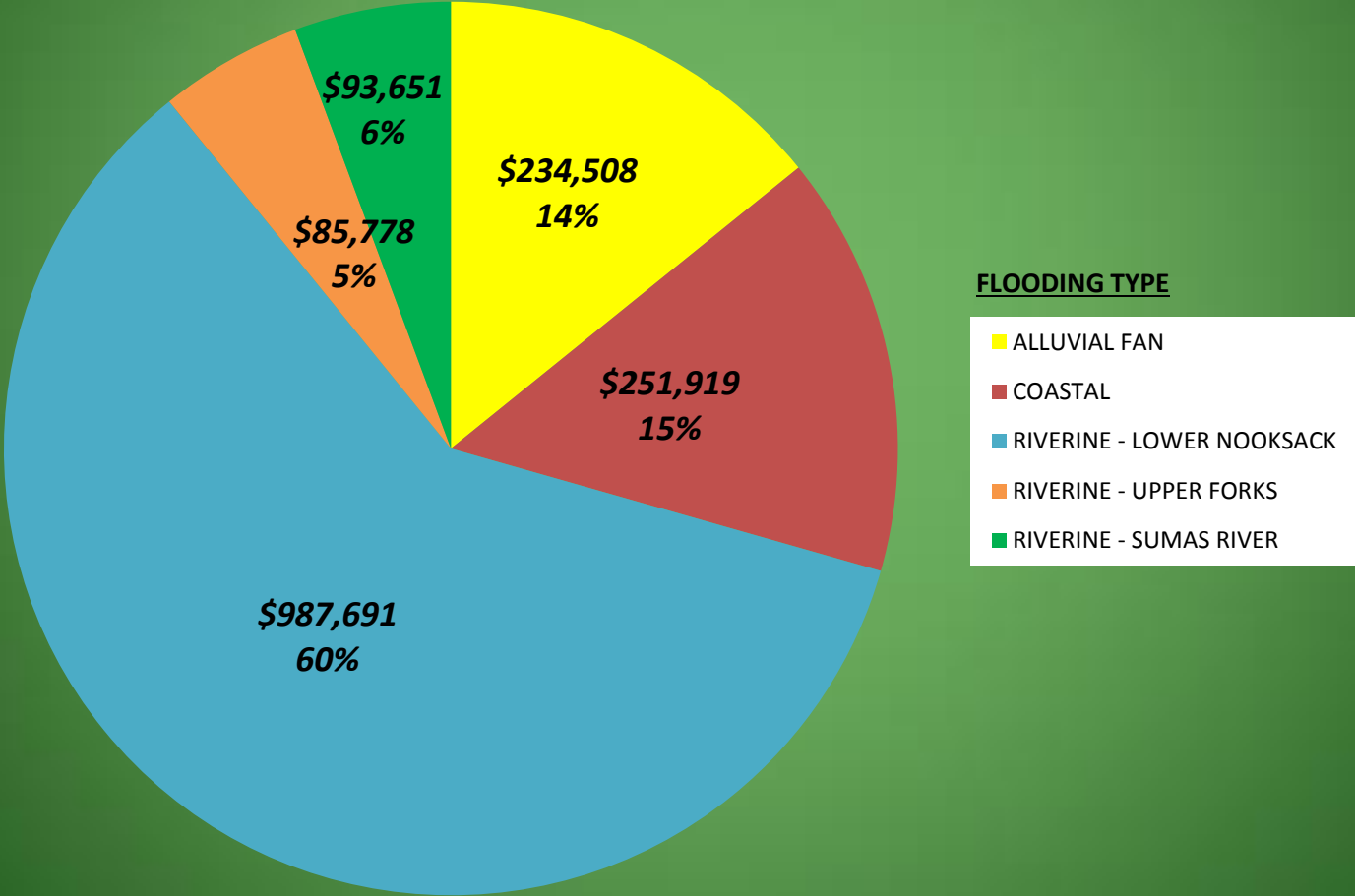
# Repetitive Loss Properties (32)

Unincorporated Whatcom County



# Repetitive Loss Claims (\$1,653,547)

Unincorporated Whatcom County



# Discussion

- Purpose
- Mission
- Goals

# Technical Studies

- Facilitation – Kulshan
- Geomorphic Assessment – AGI
- Habitat Assessment – Cramer Fish Sciences
  
- Hydraulic Modeling
- Cost-benefit analysis
- Engineering and planning support