

SKAGIT COUNTY DIKE & DRAINAGE DISTRICT # 22

Critical Facilities:

Miles of Dike/Levee:	21 miles
Value of Dike/Levee (at \$3,000 per foot 2008 USACE):	\$332,640,000
Miles of Ditches (value):	100 miles (\$2,000,000)
Number of Pumps (value):	2 (\$100,000)
Number of Tide Gates (value):	18 (\$360,000)

Outline of Area Served: Fir Island; Skagit County, Washington

Approximate Value of Area Served: \$67,710,000

Natural Hazard Vulnerability Analysis Rating:

This District is most vulnerable to the following natural hazards - ranked in order:

1. Flood
2. Earthquake/Tsunami
3. Windstorm/Severe Storm

Natural Hazard Event History (1975 – Present):

Type of Event	Date	Total Public Damage
Flood	1975	unknown
Flood	1990	8,000,000
Flood	1995	3,000,000
Flood	2003	unknown
Flood	2006	1,012,000

Proposed Natural Hazard Mitigation Measures (2003 – 2008):

Mitigation Measure	Lead Agency	Funding Source	Time Line
Property buy-outs to allow for setting back river levees	Dike District Commissioners	Grant funding/Tax Revenues	Ongoing/Short Term as funding allows
Improve levee to provide 50-year flood protection	Dike District Commissioners	Grant funding	Short Term
Increase flow capacity of both the north and south forks of the Skagit River via a setback of existing levees and/or the construction of a by-pass channel off of the north fork	Dike District Commissioners	Grant funding	Short Term
Insert keyways to stop leakage	Dike District Commissioners	Grant funding	Short Term
Widen and strengthen existing levees by installing keyways and raising roads	Dike District Commissioners	Grant funding	Short Term
Designate areas on the bay dike to level in order to allow drainage of water on the island in the event of a flood	Dike District Commissioners	Grant funding	Short Term

Mitigation Accomplishments (2003 – 2008):

During the 2003 – 2008 plan cycle, the district improved levees to provide greater protection from flood events. Improvements made varied from area to area within the levee system; at this time, some levee segments provide protection for up to a 35-year flood and other segments provide protection for up to a 50-year flood.

Due to a lack of local funding, no other mitigation measures were accomplished during the 2003 – 2008 plan cycle.

Proposed Natural Hazard Mitigation Measures (2008 – 2013):

Mitigation Measure	Lead Agency	Funding Source	Time Line
Continue to pursue opportunities to conduct property buy-outs to allow for setting back river levees.	Dike District Commissioners	Grant funding	Short Term
Continue to improve existing levees to provide 50-year flood protection.	Dike District Commissioners	Grant funding	Short Term
Continue to pursue opportunities to increase flow capacity of both the north fork and south fork of the Skagit River via setback of existing levees and/or the construction of a by-pass channel off of the north fork.	Dike District Commissioners	Grant funding	Short Term
As needed and depending upon funding, construct keyways to stop leakage.	Dike District Commissioners	Grant funding	Short Term
Widen and strengthen existing levees by installing keyways and raising roads	Dike District Commissioners	Grant funding	Short Term
Designate areas on the bay dike to level in order to allow drainage of water on the island in the event of a flood.	Dike District Commissioners	Grant funding	Short Term

NOTE: Due to a lack of local funding, the mitigation measures listed above are dependent upon Skagit County Dike and Drainage District 22 receiving state and/or federal funding.