

Lewis County Perspectives

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Chehalis Basin Board

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Aerial View of 2007 Flood



2010 Chronicle Article on USACE Twin Cities Levee Plan

Army Corps of Engineers to Give Update on Twin Cities Levee Plan

By Marqise Allen mallen@chonline.com - Jan 27, 2010

The Army Corps of Engineers will meet with city, state and county officials Thursday morning to give a progress report on the Twin Cities levee project.

The project calls for 11 miles of levees to be built in the Centralia and Chehalis area to mitigate flooding. The project is still at 35 percent design phase.

“We have a lot of work to do,” said John Donahue, project manager. “We’re updating a lot of the technical aspects to include the last two floods.”

Construction is slated for 2013 and a timeline for the project shows it on pace to be completed in 2020.

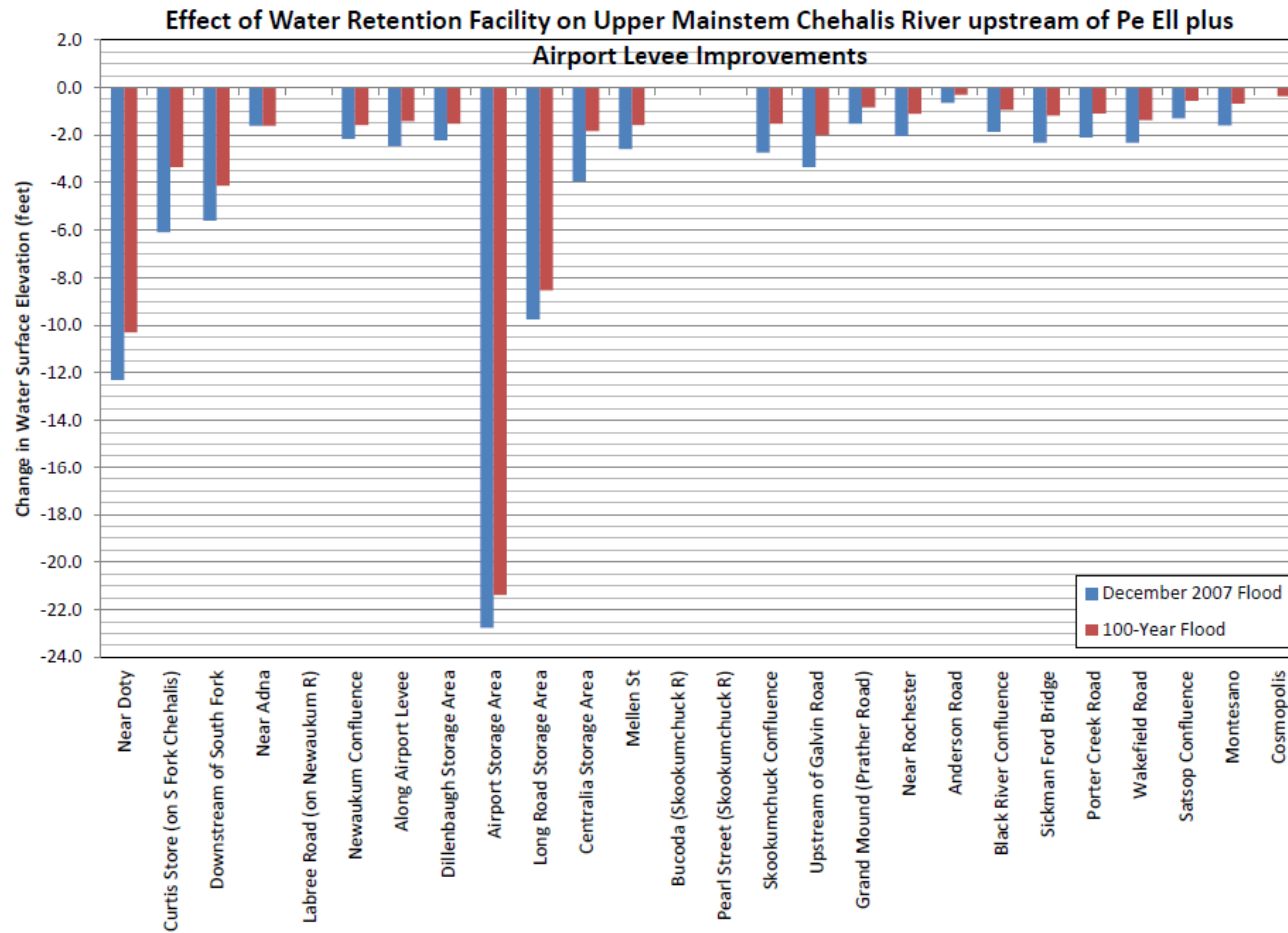
Flood Damage Reduction Ideas Considered:

- USACE Twin Cities project (2011)
- Floodwater bypass routes near Mellen Street Bridge and SR 6 (2012)
- Removing bridges (2012)
- Moving Centralia and Chehalis (2012)
- Dredging floodplain (2012)

Flood Damage Reduction Ideas Considered:

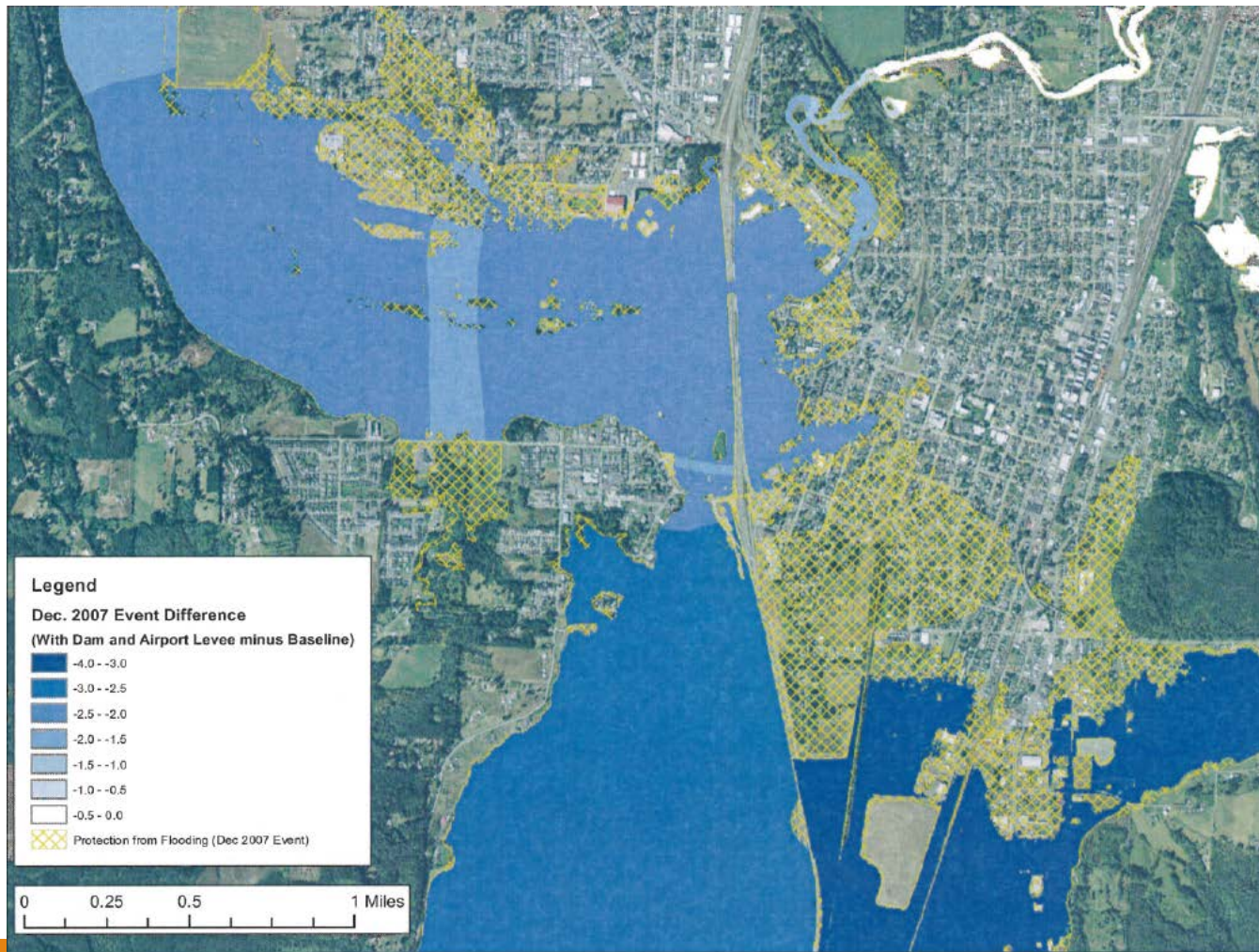
- I-5 protection projects (2014)
 - I-5 levees and walls
 - Raise and widen I-5
 - Express lanes
 - Temporary bypass
 - Viaduct
 - Relocation
- Restorative flood protection (2018)
- Conservation easements
- Forest practices study (beginning soon)
- Structure retrofits and acquisitions (being evaluated through CFAR)

Effect of Flood Retention and Airport Levee



Source:
Watershed
Science and
Engineering
(2015)

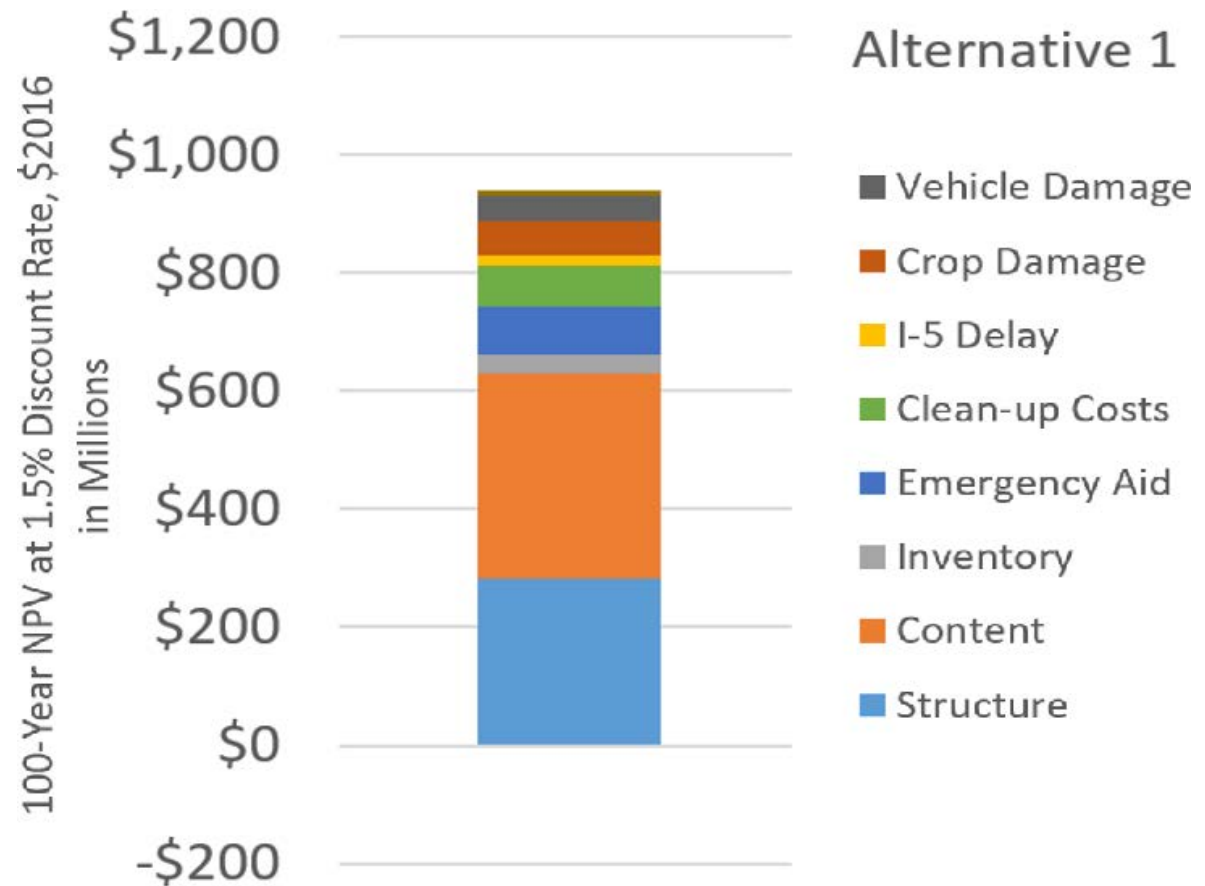
Difference in Centralia Flood Depths with Flood Retention Facility and Airport Levee



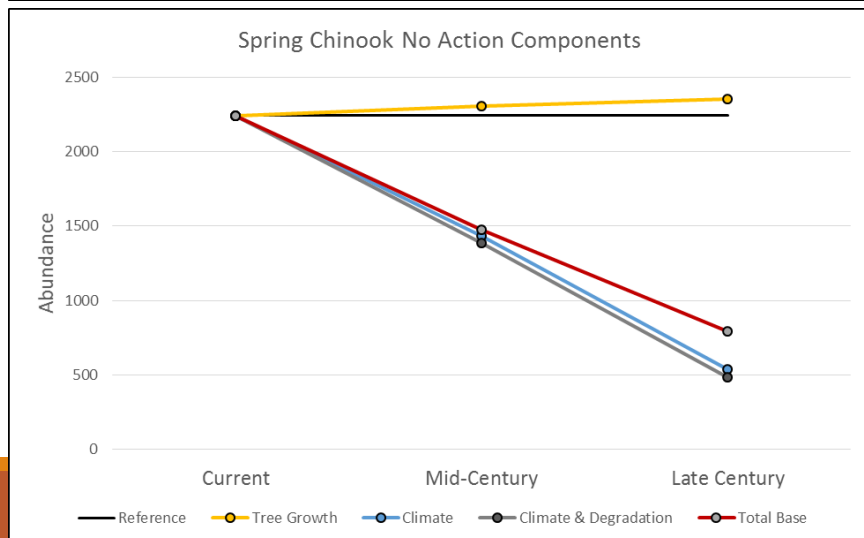
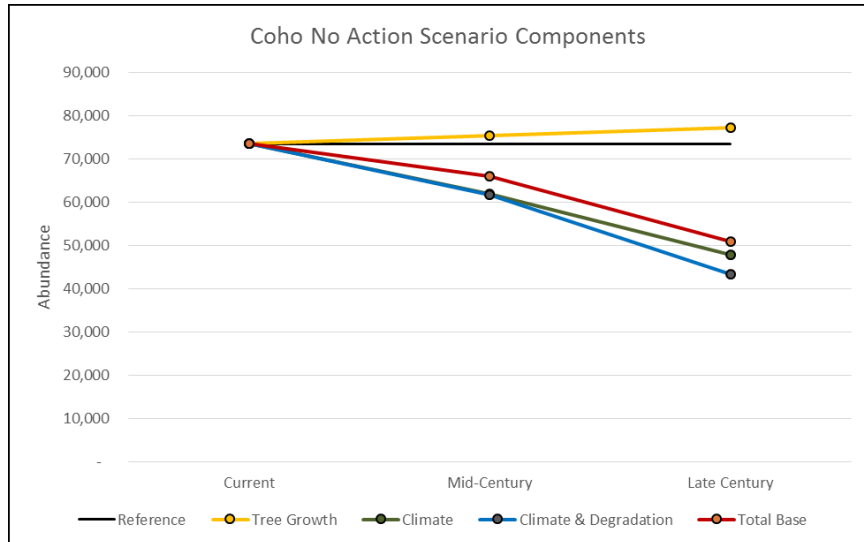
Source: Watershed
Science and
Engineering (2016)

PEIS Alternative 1: Flood Damage Reduction State Perspective

Source:
Programmatic EIS /
EES Consulting
(2016)



No Action Impacts on Fishery (2019 data)



Under No Action
abundance declined
markedly by Late Century

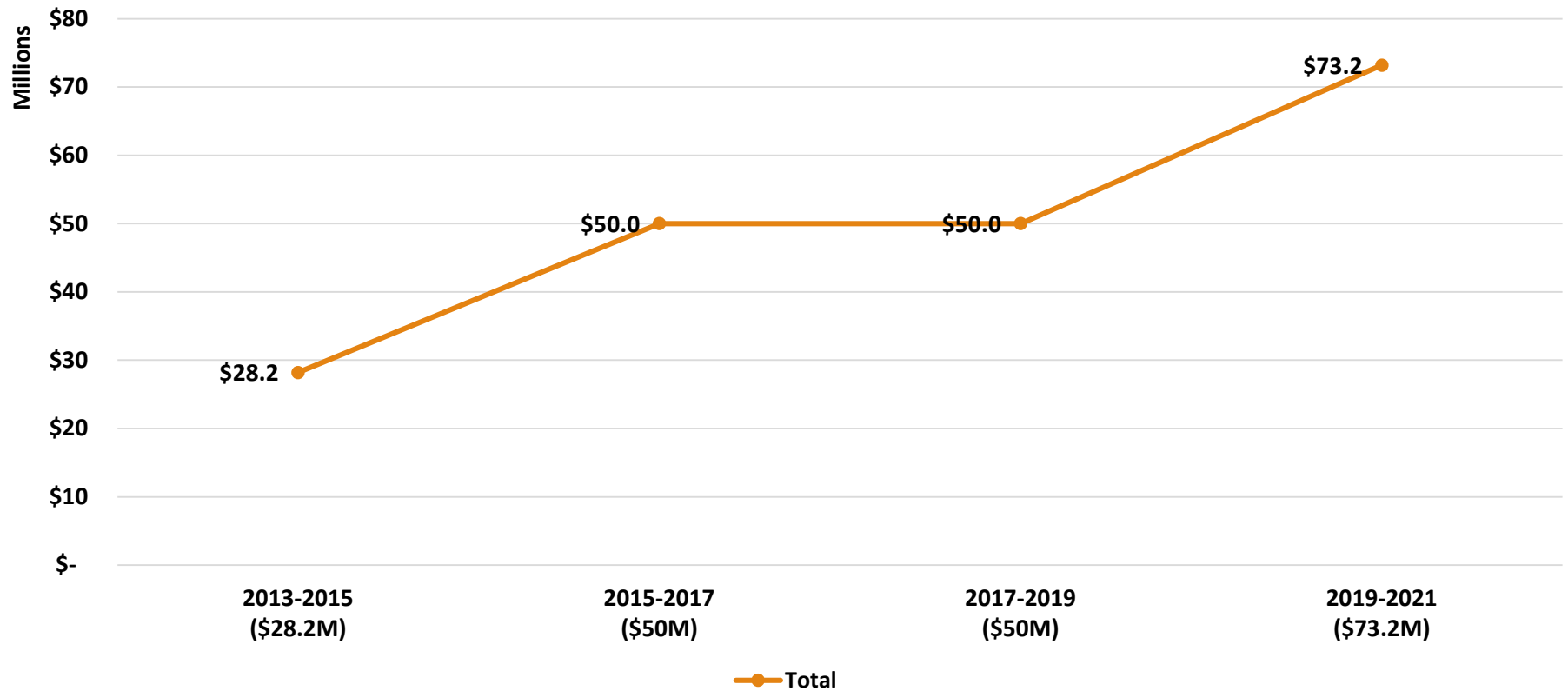
- -30% Coho Salmon
- -70% Spring Chinook Salmon

Greatest decline due to
climate change temperature

Source: WDFW Chehalis Basin Board
presentation (April 4, 2019)

Comparison of CBS Funding Distributions

Distribution of Biennial Chehalis Basin Strategy Funding 2013 - 2021



Chehalis Basin Spawning Info 2010-2018

	Spring Chinook				
Spawn Year	Basin-wide		Above Dam Site		% above
	Spawners	Redds	Spawners	Redds	
2010	3,495	1,398	NA	NA	
2011	2,563	1,025	NA	NA	
2012	878	351	NA	NA	
2013	2,459	984	34	14	1%
2014	1,583	633	65	26	4%
2015	1,822	729	3	1	0%
2016	926	370	6	2	1%
2017	1,384	554	8	3	1%
2018	495	198	3	1	1%
2019	These fish will spawn this fall.				

Source: WDFW (2019)

Centralia 10-year Flood Depths (Current Conditions)

Source: Watershed
Science and
Engineering (2019)



Adna 10-year Flood Depths (Current Conditions)

Source: Watershed
Science and
Engineering (2019)



Boistfort 10-year Flood Depths (Current Conditions)

Source: Watershed
Science and
Engineering (2019)

