

AGRICULTURE RESILIENCE PLAN UPDATE

Cindy Dittbrenner
Snohomish CD

Presentation to:

LIO Executive Committee

September 27, 2018

Snohomish Conservation District

working together for better ground since 1941

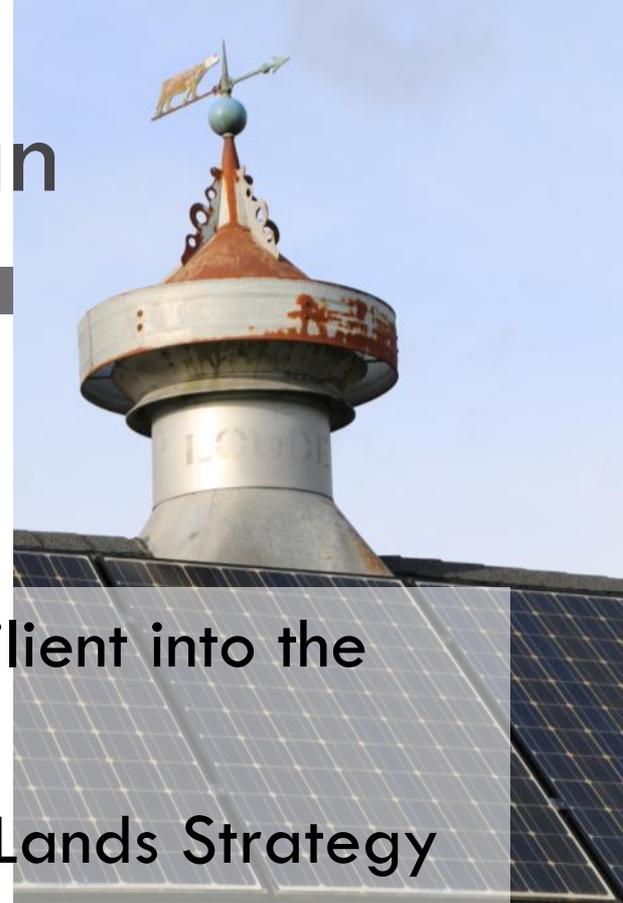


Sustainable Lands Strategy

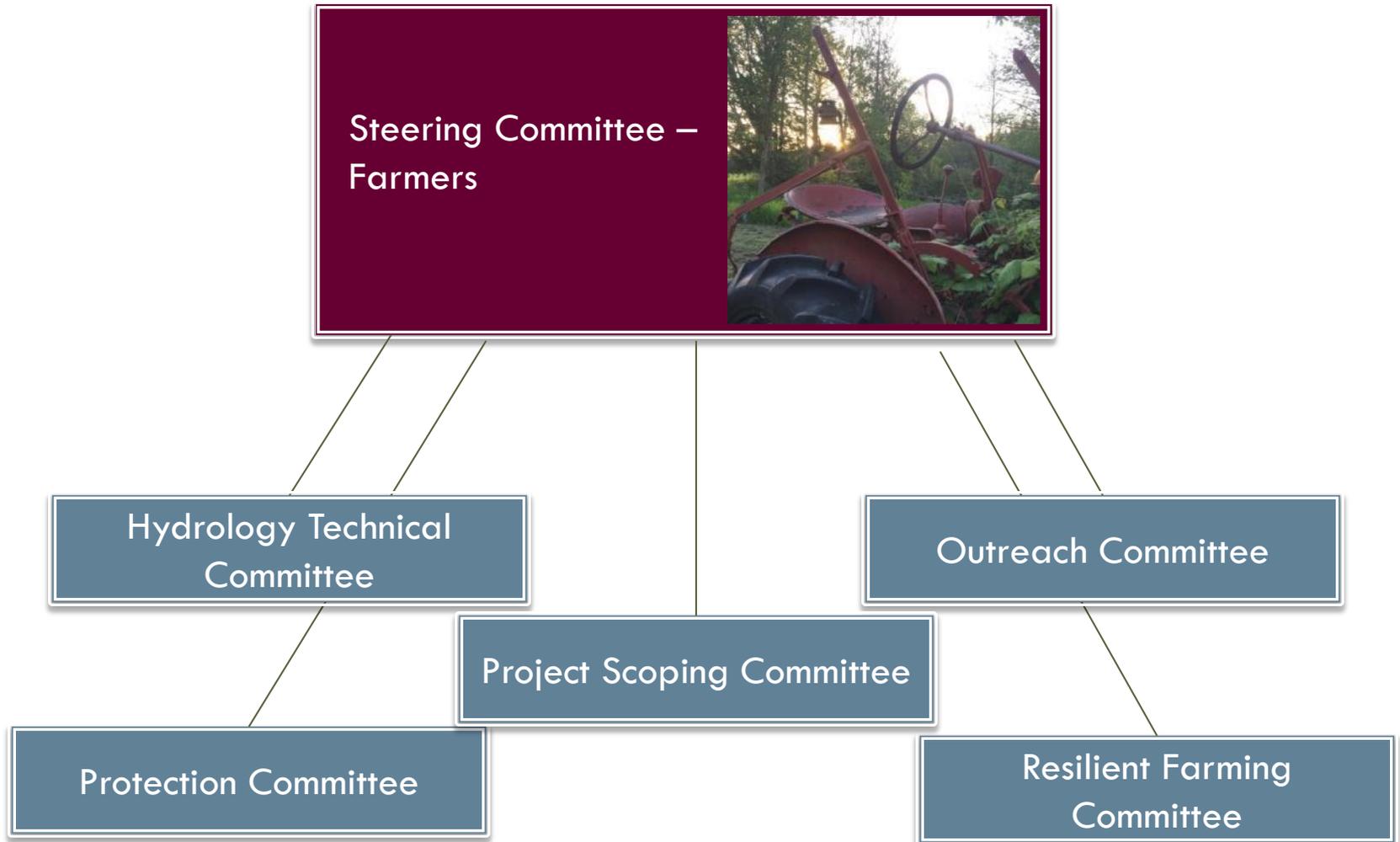


Agriculture Resilience Plan

- What does agriculture need to be resilient into the future?
- Represent these needs at Sustainable Lands Strategy
- Get work done!



Organizational Approach



Feedback from ag community

Loss of farmland

Groundwater levels

Dike improvements

Water availability

Changes in flooding

Flood protection

Land subsidence

Sediment buildup in river

Impact Assessment

How will the following impact agriculture?

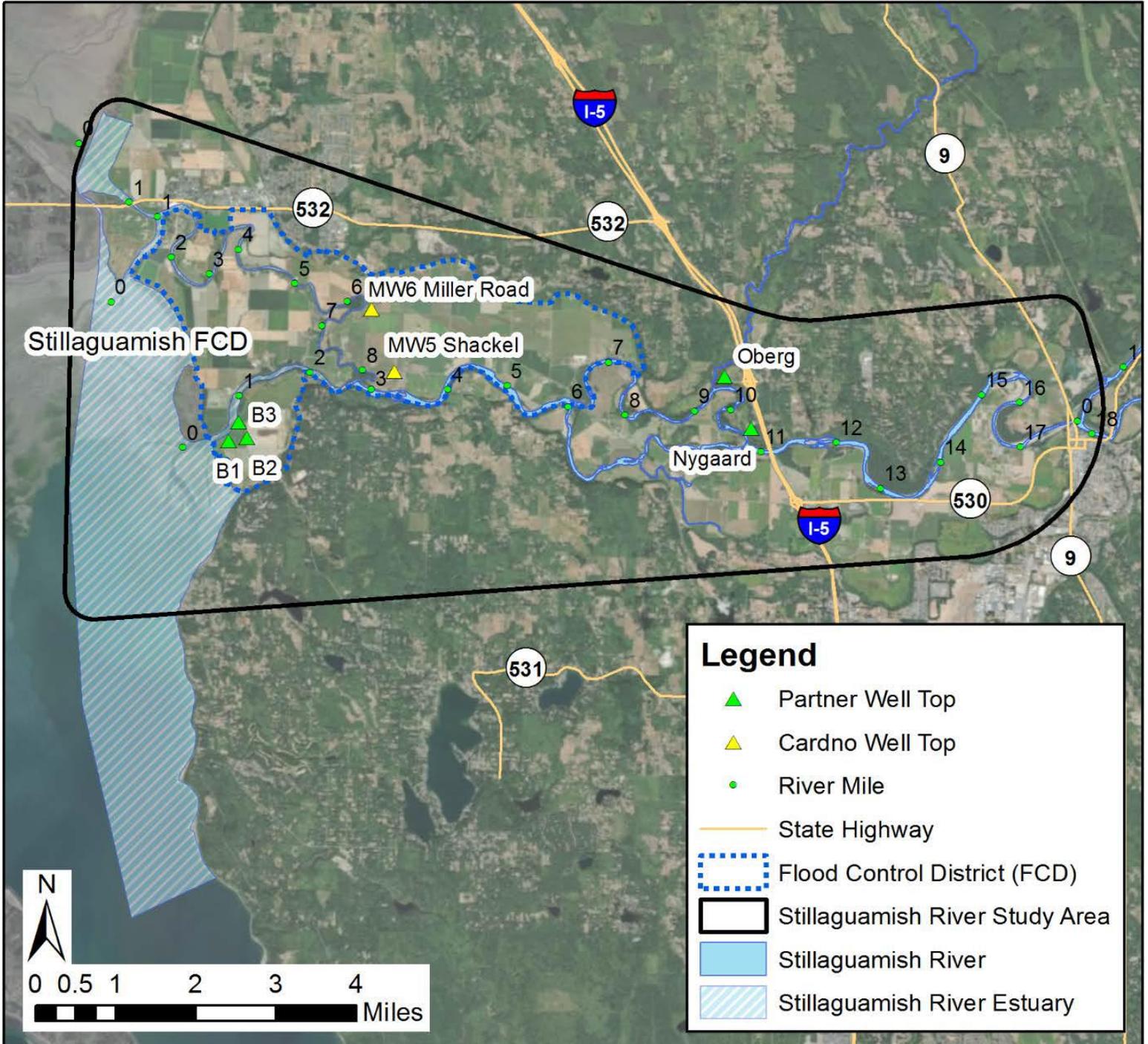
- ❑ Flooding changes
- ❑ Groundwater levels – NEP funded
- ❑ Saltwater intrusion (sea level rise) – NEP funded
- ❑ Land subsidence and channel aggradation
- ❑ Weather/climate changes

□ Groundwater and saltwater intrusion modeling

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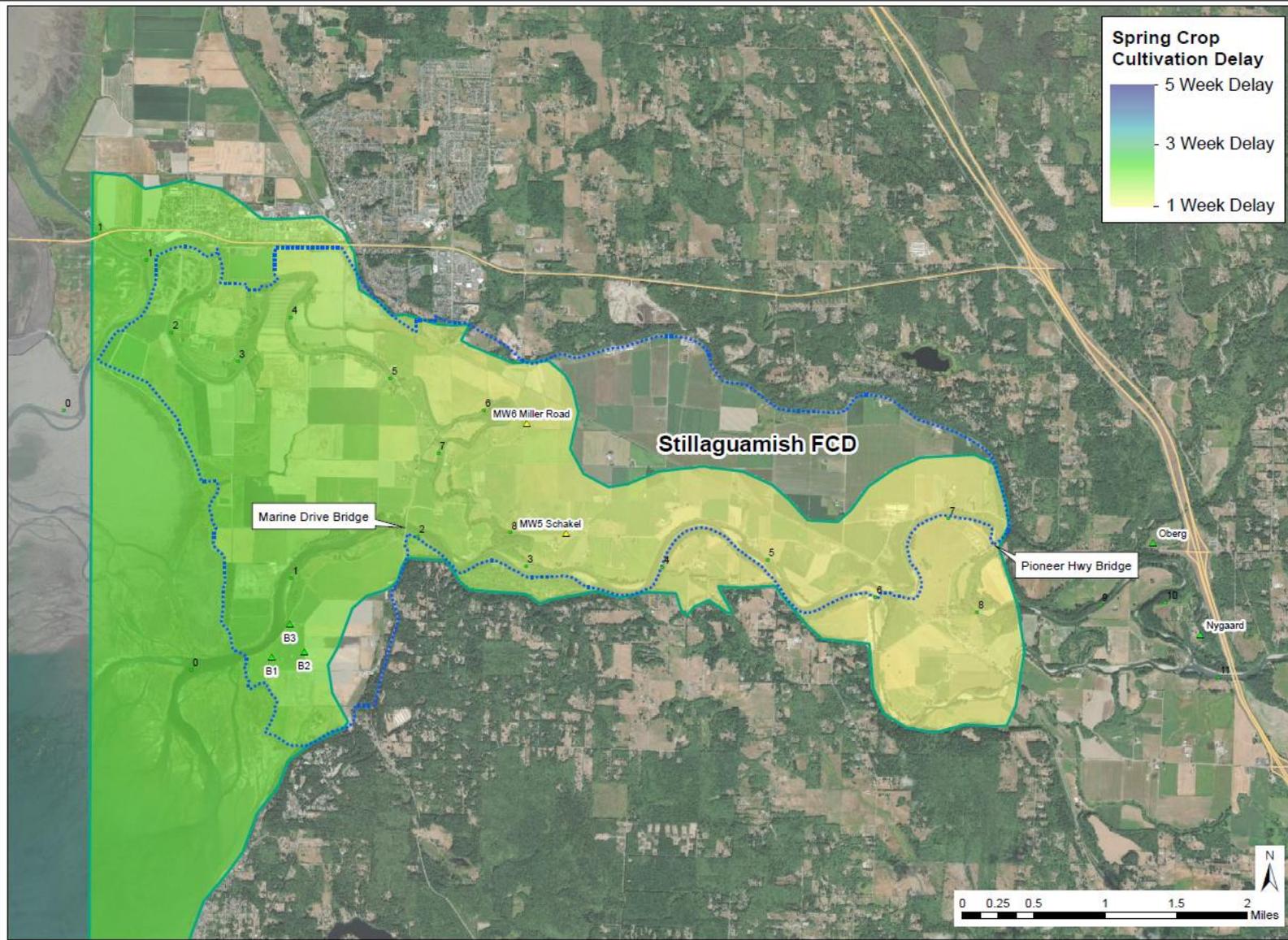
Funding: National Estuary Program



Legend

- ▲ Partner Well Top
- ▲ Cardno Well Top
- River Mile
- State Highway
- Flood Control District (FCD)
- Stillaguamish River Study Area
- Stillaguamish River
- Stillaguamish River Estuary





SLR Delay to Spring Crop Cultivation

Year 2050 RCP 8.5 (High Emissions)
 Prepared For: Snohomish Conservation District
 Snohomish County, WA

- Legend**
- River Mile
 - Partner Well Top
 - Cardno Well Top
 - Analysis Extent
 - Flood Control District (FCD)

Prepared by Cardno
 August 2018

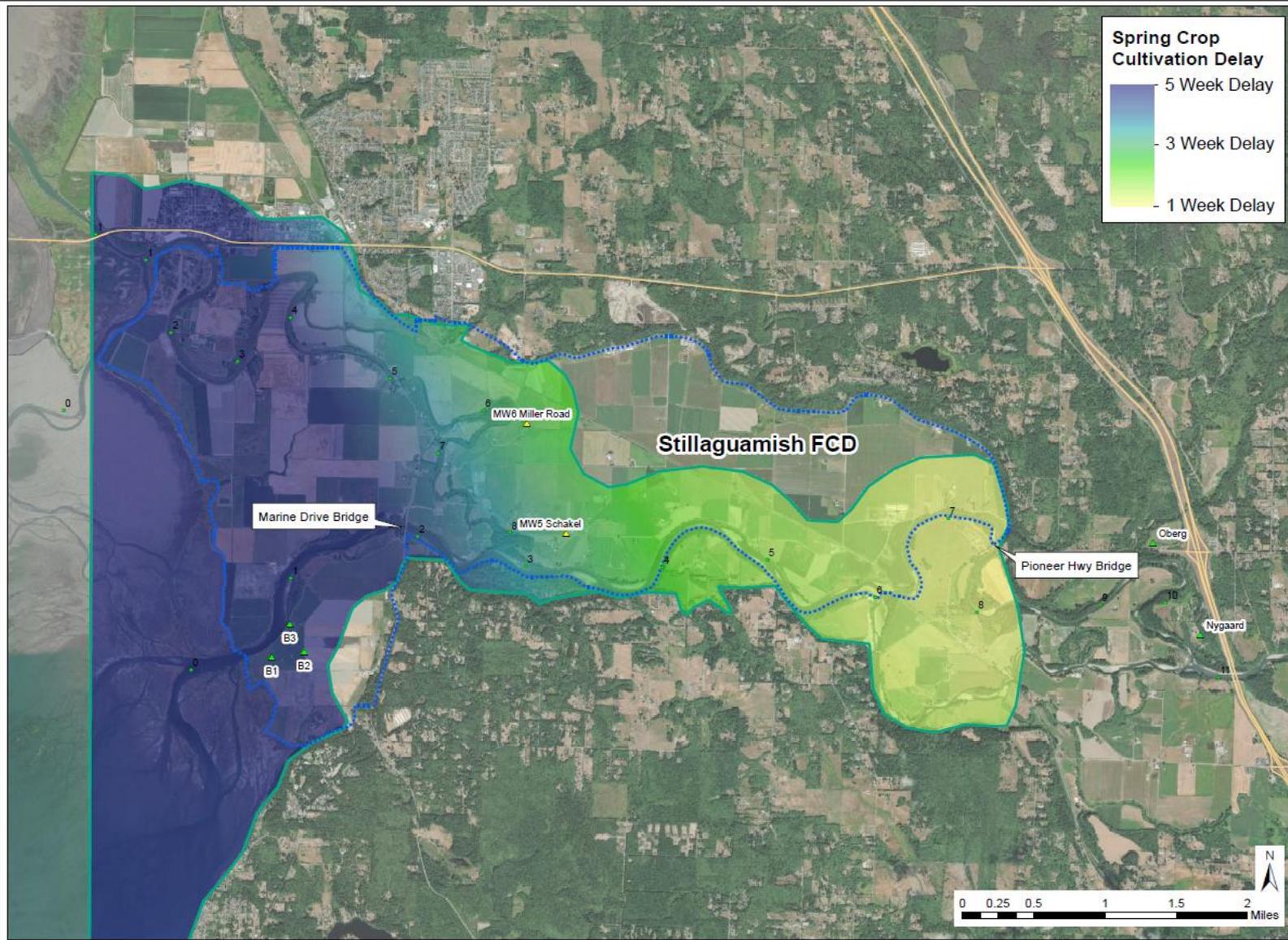
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NAD83 WA State Plane, North

Service Layer Credits: Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), Mapbox, Swisstopo, Mapbox Contributors, and the GIS User Community
 Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, IGF, swisstopo, and the GIS User Community





SLR Delay to Spring Crop Cultivation

Year 2100 RCP 8.5 (High Emissions)

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Prepared By Cardno August 2018

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Floodplains by Design Flood Risk Explorer Tool

The Nature Conservancy



Funding: Stillaguamish River Capacity Fund, NOAA

Farmland Protection Strategy

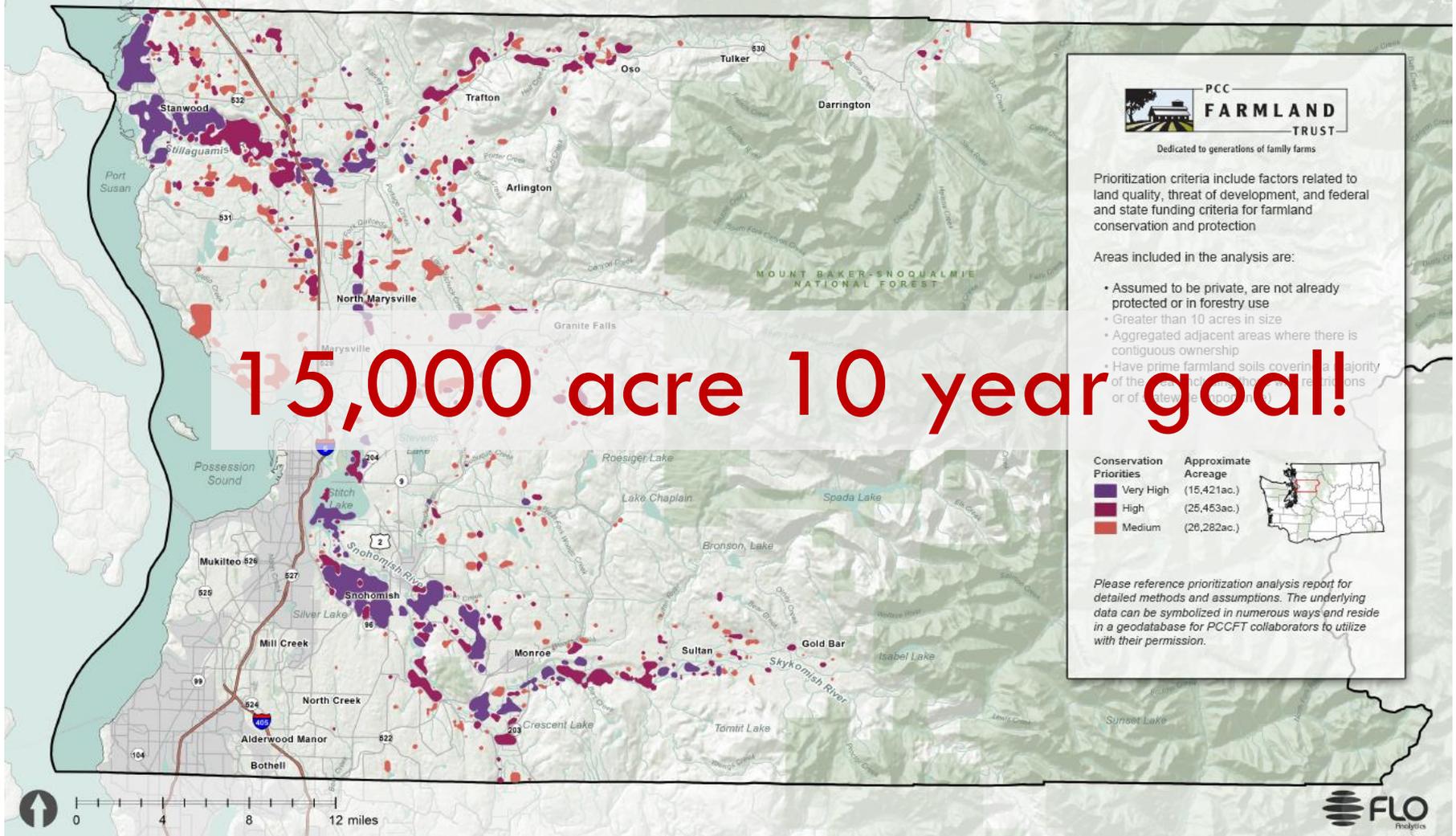
PCC Farmland Trust



Protection Strategy

PCC Farmland Trust

Snohomish County Farmland Conservation Priorities



Snohomish Conservation District

working together for better ground since 1941



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Funders:

- NOAA
- Stillaguamish Lead Entity
- Floodplains by Design
- ESRP Learning Program
- EPA National Estuary Program
- King CD



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