

Farm Fish Flood: SVAPD Agriculture Land Resource Strategic Plan 2022

Q1

Task Force Meeting Bi-weekly

Q2

Completing Issue Papers and Maps

Q3

Outreach with farmers in early fall

Q4

On schedule for adoption in December

Task Force Participants

Members	Affiliation
1. Janet Keller, Jordan Jobe	Ag Commission
2. Andrew Stout Erin Erickson, alternate	Watershed Improvement District
3. Janet Keller Lisa Kysar, alternate	Snoqualmie Valley Preservation Alliance
4. Libby Reed Dave Glenn, alternate	Sno Valley Tilth, SCD Resiliency Plan
5. Bobbi Lindemulder	FFF IOC, Snohomish CD
6. Jordan Jobe	WSU CSANR



STRATEGIC GOALS LINK TO PRIORITY STRATEGIES TO ACCOMPLISH THAT GOAL

Goal 1

Improve Farmland Productivity 1. All farmable acreage in the SVAPD will be improved through **drainage** so that the land can be productively

farmed for the full length of

the growing season.

Sub-goals

2. Transportation
infrastructure including
revetments, roads and bridges
will be fully functioning to
support the movement of
agricultural products while
managing traffic to increase
safety for all and prioritize
routine operation of farms every

3. Every commercial farm has sufficient access to water for

irrigation and uses best management practices and technology to minimize water usage. Farms will keep existing water rights, continue water transfers through SVWID, and increase access to water transfers.

4. Every commercial farm has sufficient access (close proximity and enough space) to **high ground** for equipment, storage, and livestock, and

every farm **home** below the base

flood elevation is **elevated** to ensure **flood safety** and continued productivity on the farm.

5. Commercial farms will maintain and increase agricultural productivity through adaptively managing changing plant pathogens, crop varieties, animal diseases, precipitation changes affecting water flows and irrigation

needs through climate

change research and education relevant to Western Washington and the Snoqualmie Valley APD.



STRATEGIC GOALS EMBODY THE KEY COMPONENTS OF THE PLAN

Goal 2

Increase Farmland Protections **Sub-goals**

6. Flood Safety

7. Development and Population Growth

8. Wildlife

9. Farmland Preservation

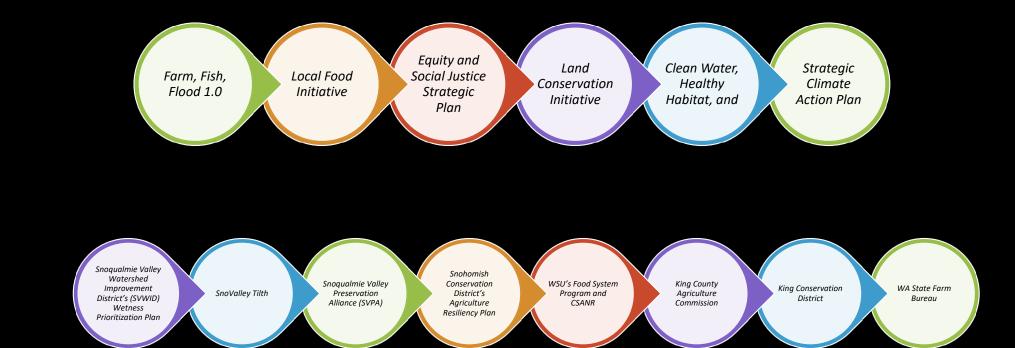
10. Proposed acreage needs for long-term, viable sector



Key values/themes incorporated into the plan

- 1. Responsible Stewardship/Sustainable Farming
- 2. Flood and climate change preparedness
- 3. Equity and social justice
- 4. Multi-benefit projects
- 5. Innovative thinking
- 6. Regulatory certainty
- 7. Resource investments
- 8. Alignment with related plans and programs

Alignment with related strategic plans and programs



Goal

Improve Farmland Productivity

Sub-goal

1. All farmable acreage in the SVAPD is routinely improved through <u>drainage</u> so that the land can be productively farmed for the full length of the growing season.

Objectives

a. Increase pace of drainage infrastructure improvements and ensure schedule for routine monitoring and maintenance of drainage improvements by increasing and providing long-term funding for drainage service providers to at least \$1.5M/year

b. Strengthen partnerships for multi-benefit project implementation, funding opportunities, and regulatory improvements c. Reduce cost for landowners to ensure more improvements occur and there is equity in access to drainage programs

d. Explore mitigation bank for strategic plantings that most benefit habitat

Measures

Acreage put back into production after drainage maintenance: ADAP eligible waterways, Multi-benefit waterways, Culverts, Flood Control Gates and Pumps, Tiles

Track partners, projects, funding, regulatory progress

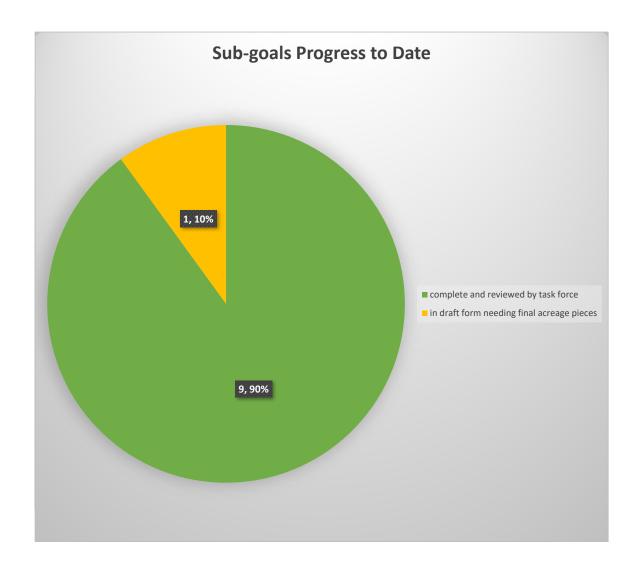
Increase in outreach and cost-share

Progress via ADAP dashboard timeline

Values and Strategic Plan Overlay







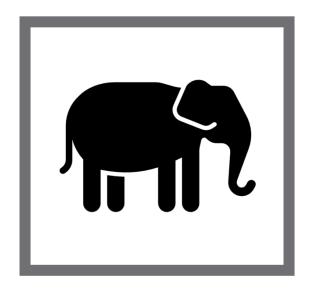
Been working on this since May; Map overlay in progress

Mapping for Acreage Needs

Examined all SVAPD 2017 Ag Land Use Mapping

Re-categorized some areas for long-term vs. present use

Now fine-tuning scale to match finer FFF Buffer Task Force Maps







1. Improved Farmland Productivity

- 1.1 Drainage
 - 1. Waterway Maintenance ADAP eligible
 - 2. Agricultural Drainage Tiles
 - 3. Flap/Flood Control Gates and Pumps
 - 4. Culverts
 - 5. Natural Waterways
 - 6. Beavers
- 1.2 High Ground and Home Elevations for Flood Safety
 - 7. Farm Pads and High Ground Refuge
 - 8. Homes and home elevations
- 1.3 Irrigation
 - 9. Water Rights and Irrigation
- 1.4 Transportation
 - 10. Revetments
 - 11. Transportation Corridors and Bridges
- 1.5 Climate Change
 - 12. Invasive Species
 - 13. Climate change predictions

2. Increased Farmland Protections

- 2.1 Flood Safety, saving homes in the APD (home elevations)
 - 14. Known patterns of flooding
- 2.2 Population Growth and Development Impacts
 - 15. Population Growth and Development
- 2.3 Wildlife
- 16. Elk
- 17. Waterfowl
- see issue 1.1.6 Beavers
- 2.4 Farmland Preservation
 - 18. Farmland Preservation Program
- 2.5 Proposed xx farmable acres for a long-term, viable agriculture sector
 - 19. FALLOW Areas of high-quality agricultural soils
 - 20. Riparian buffers, restoration, and mitigation projects
 - 21. Areas of low or no agriculture potential (and thus could be kept out of ag production permanently with little impact to current or future farm operations)
 - 22. Proposed acreage needs for sector

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22 Issue Papers by Sub-Goal and Topic

Coming up...



Improve Farmland Productivity

Water Rights and Irrigation

Revetments

Transportation



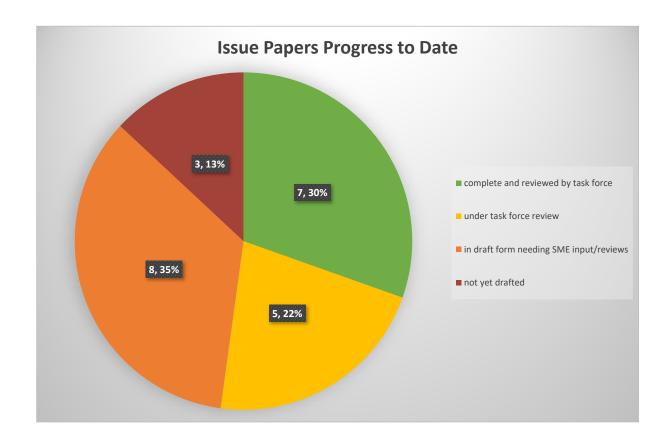
Increase Farmland Protections

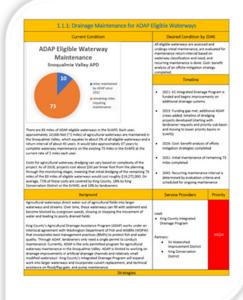
Elk

Waterfowl

Farmland Preservation

Acreage (4)



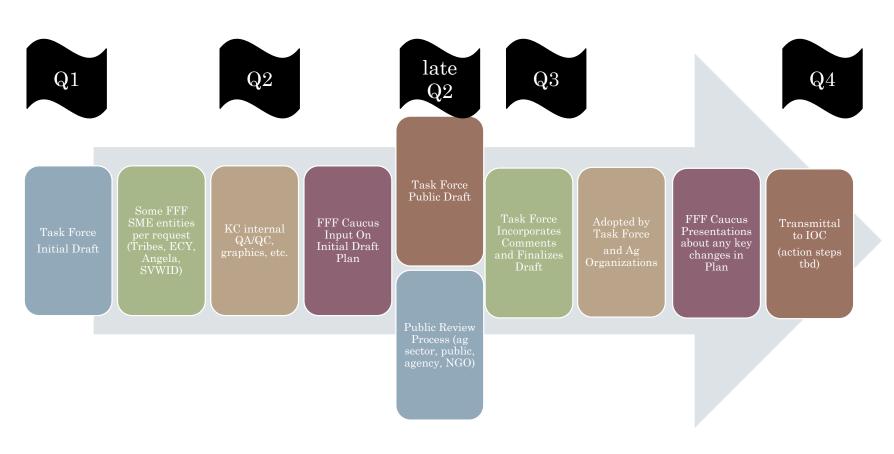


1.1.1: Drainage Maintenance for ADAP Eligible Waterways **Current Condition** Desired Condition by 2046 All eligible waterways are assessed and ADAP Eligible Waterway undergo initial maintenance, are evaluated for maintenance return interval based on Maintenance waterway classification and need, and recurring maintenance is done. Cost-benefit Snoqualmie Valley APO analysis of an offsite mitigation strategy Timeline miles maintained by ADAF since 2021: KC Integrated Orainage Program is 2012 funded and begins improvements on nemaining miles additional drainage systems 2023: Funding gap met; additional ACAP crews added, timeline of dredging projects developed (starting with landowner requests and priority sub-basin There are 83 miles of ACAP eligible waterways in the SVAPO. Each year, and moving to lower priority basins in approximately 10,000 feet ("2 miles) of agricultural waterways are maintained in the Snoqualmie Valley, which equates to about 2% of all eligible waterways and a return interval of about 45 years. It would take approximately 37 years to 2006: Cost-benefit analysis of offsite mitigation strategies completed complete waterway maintenance on the existing 73 miles in the SVAPO at the current rate of 2 miles each year. 2051: Initial maintenance of remaining 75. Costs for agricultural waterway dredging can vary based on complexity of the miles completed project. As of 2018, projects cost about \$50 per linear foot from the planning through the monitoring stages, meaning that initial dredging of the remaining 73 2045: Recurring maintenance interval is miles of the 83 miles of eligible waterways would cost roughly \$19,272,000. On determined by evaluation criteria and average, 71% of these costs are covered by King County, 18% by King. scheduled for ongoing maintenance Conservation District or the SVWID, and 10% by landowners. Service Providers Agricultural waterways direct water out of agricultural fields into larger waterways and streams. Over time, these waterways can fill with sediment and become blocked by overgrown weeds, slowing or stopping the movement of water and leading to poorly drained fields. · King County Integrated Oramage Program King County's Agricultural Drainage Assistance Program (ADAP) works under an interlocal agreement with Washington Department of Feh and Wildlife (NOFW) that incorporates best management practices (BMPs) to protect fish and water носн quality. Through ACAP, landowners only need a single permit to conduct SV Watenhed maintenance. Currently, ADAF is the only permitted program for agricultural Improvement District waterway maintenance in the Snoquelmie Valley. ADAP is limited to working on King Conservation drainage improvements in artificial drainage channels and relatively small District modified waterways'. King County's Integrated Drainage Program will expand work into larger waterways and incorporate culvert replacement, and technical assistance on flood/flap gate, and pump maintenance.

Issue Paper format

- · Current Condition
- Background
- Desired Condition by 2046
- Strategies
- Timeline
- Service Providers (Lead, partners)
- · Priority Level (high, medium, low)
- Maps
- Tables
- References

Plan Review Process





Challenges and Successes Along the Way



Lessons learned?



What's been difficult?



Excitement about certain issue papers?



How does the task force work together?



What else?



Questions from Commissioners?

Task Force Members and Participants