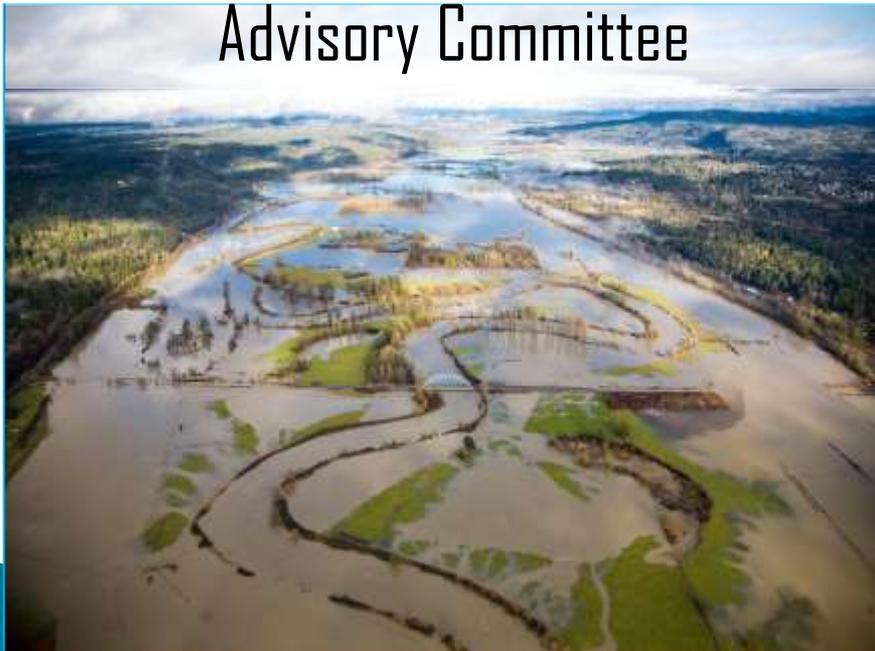




2013

Snoqualmie Fish, Farm, Flood
Advisory Committee



Snoqualmie Fish, Farm & Flood

Advisory Committee

Meeting #8

March 26, 2014



King County

Proposed Project Alternative

Ag Impact Areas

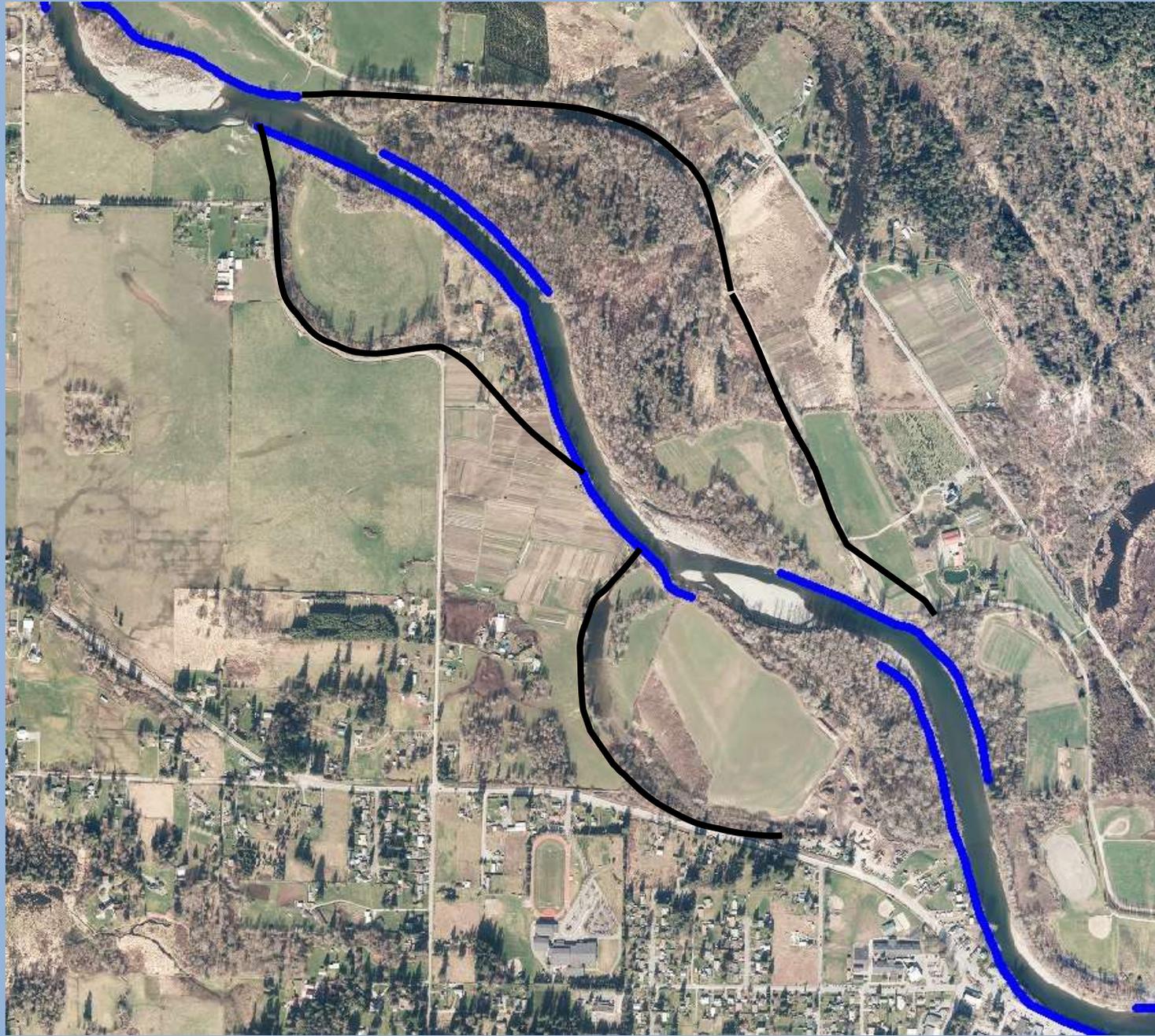
Carlson
0.5 - 1 Acre

Hafner
10 - 15 acres

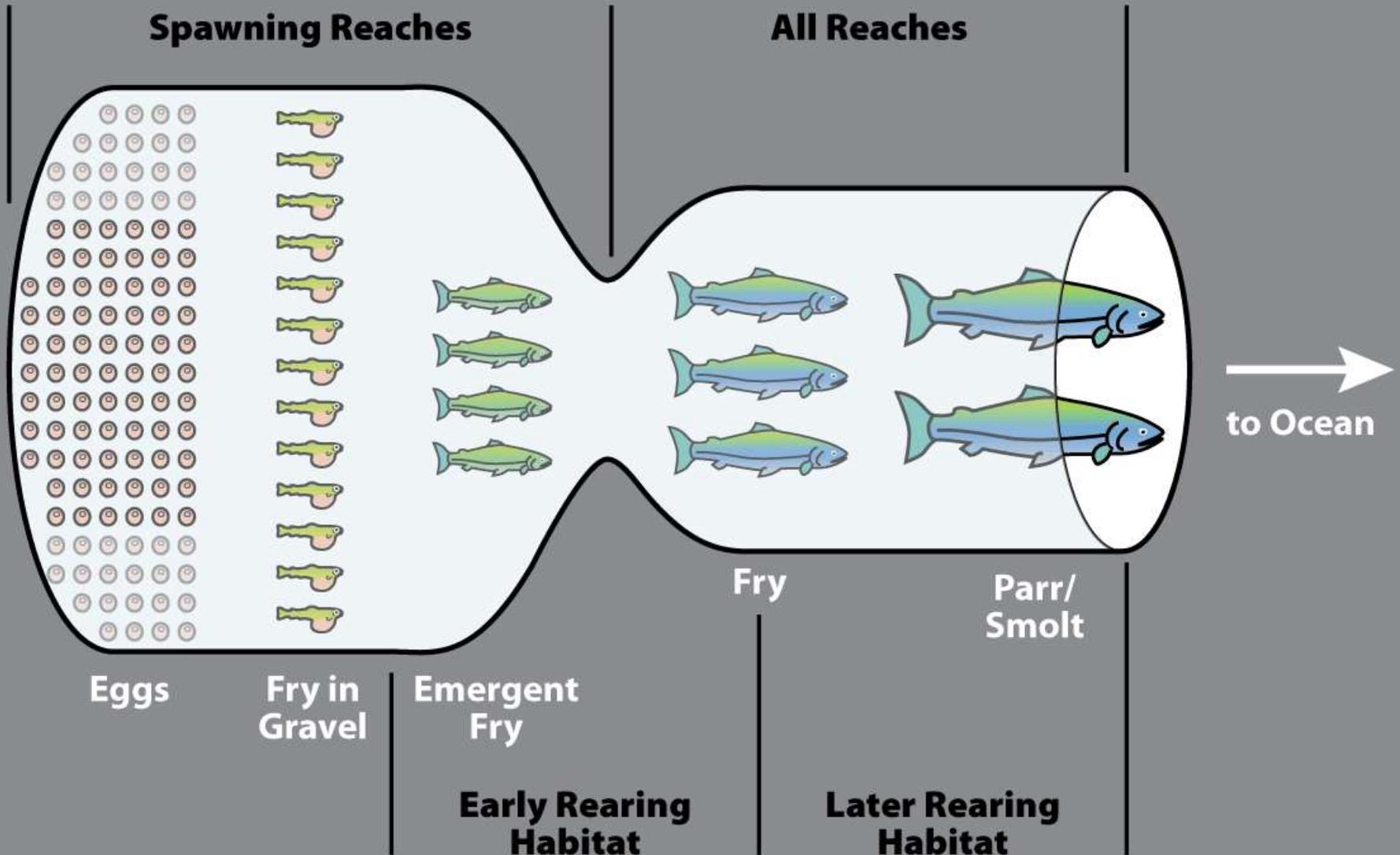
Aldair
3 - 24 Acres

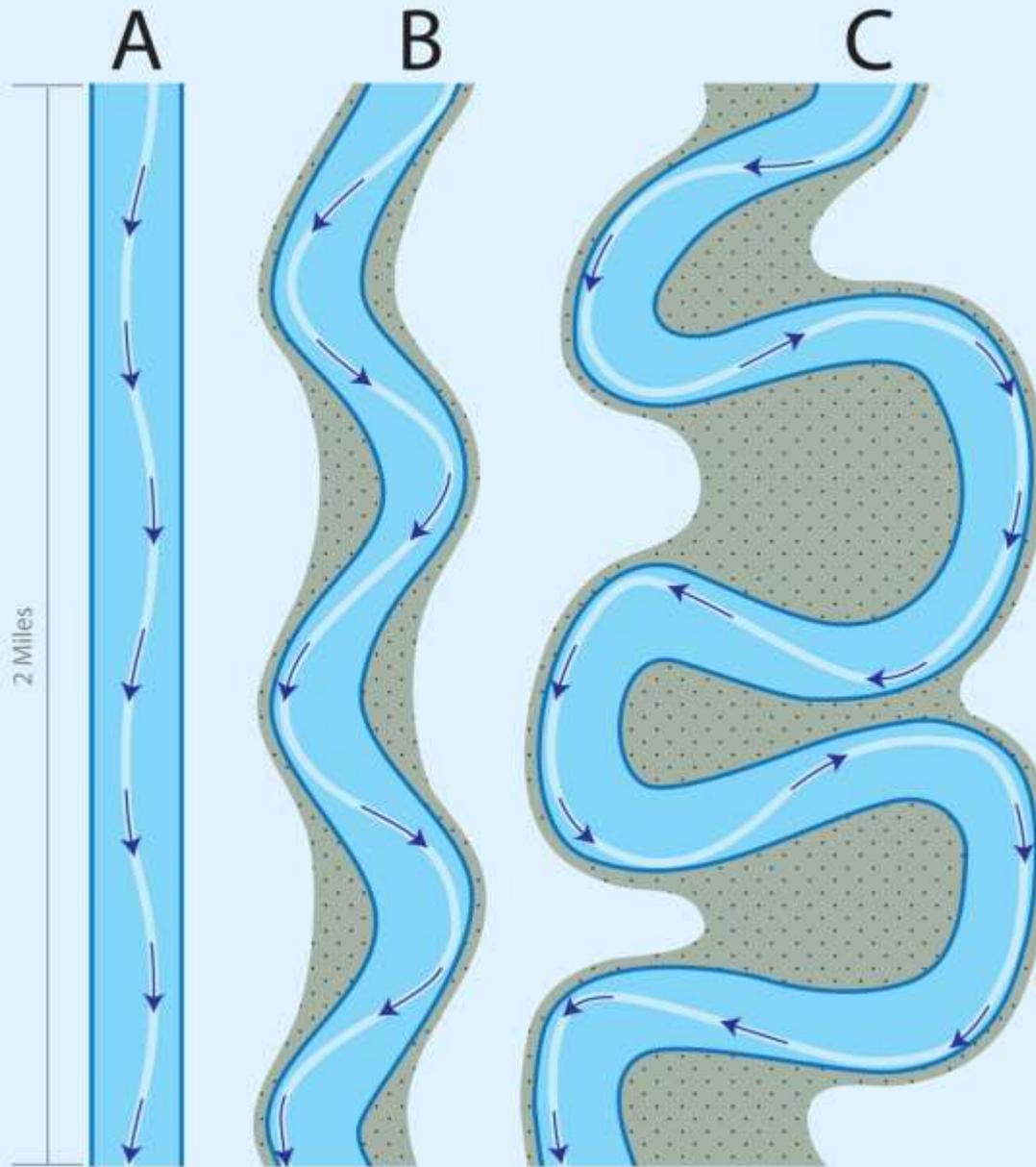
Barfuse
5 - 42 Acres

Total
19 - 82 Acres

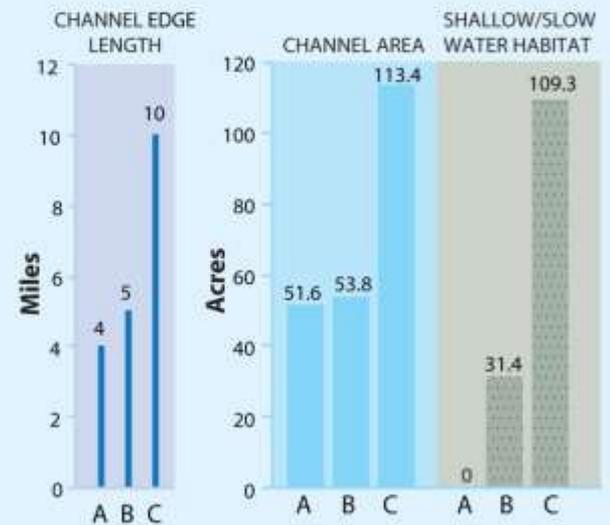


HABITAT BOTTLENECK





CHANNEL NAME	CHANNEL EDGE LENGTH (miles)	CHANNEL AREA (acres)	SHALLOW/SLOW WATER HABITAT (acres)
A	4	51.6	0
B	5	53.8	31.4
C	10	113.4	109.3

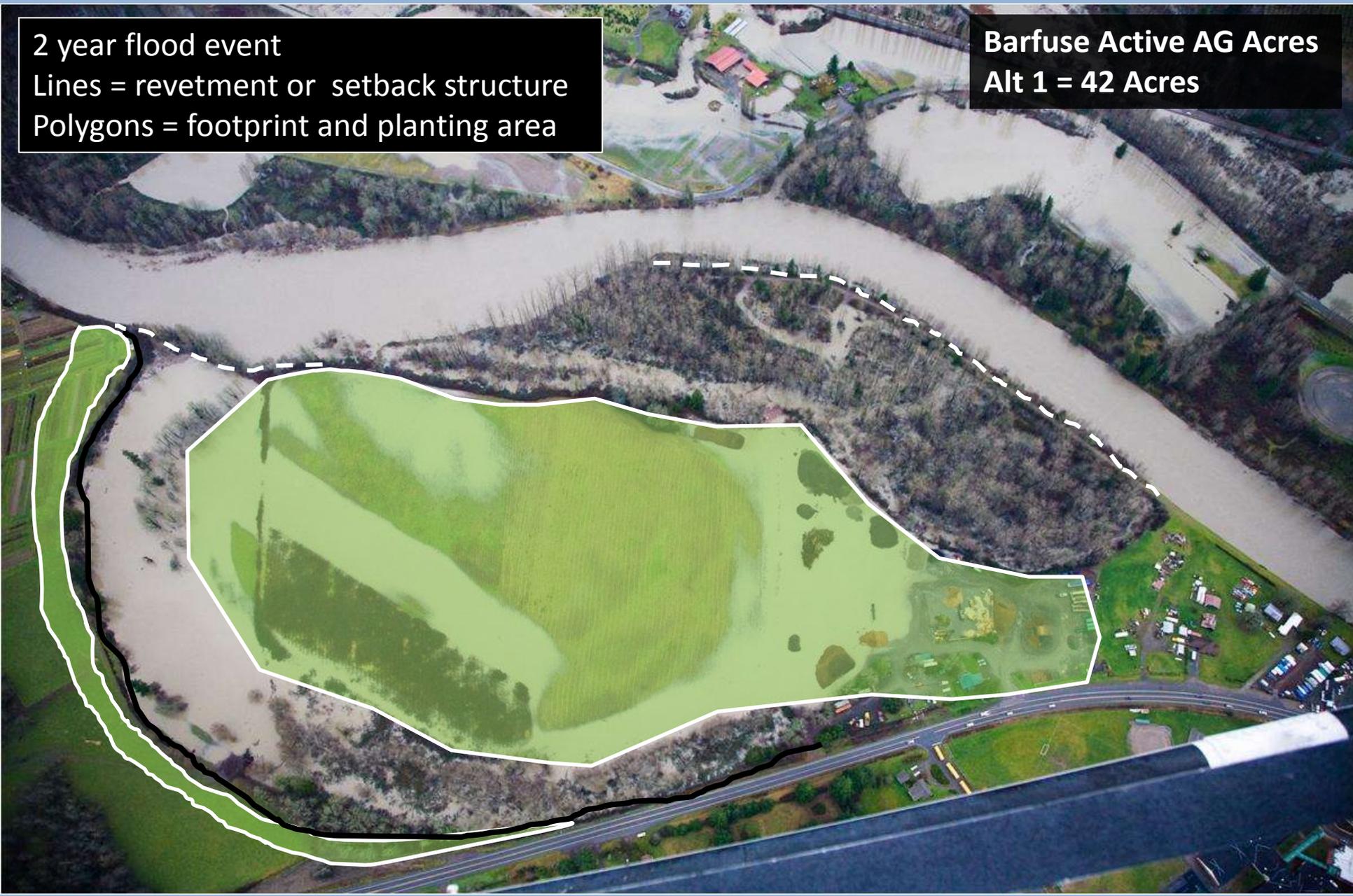


- Channel edge length (miles)
- Channel area (acres)
- Shallow/slow water habitat (acres)
- Flow path

Barfuse Alternative #1

2 year flood event
Lines = revetment or setback structure
Polygons = footprint and planting area

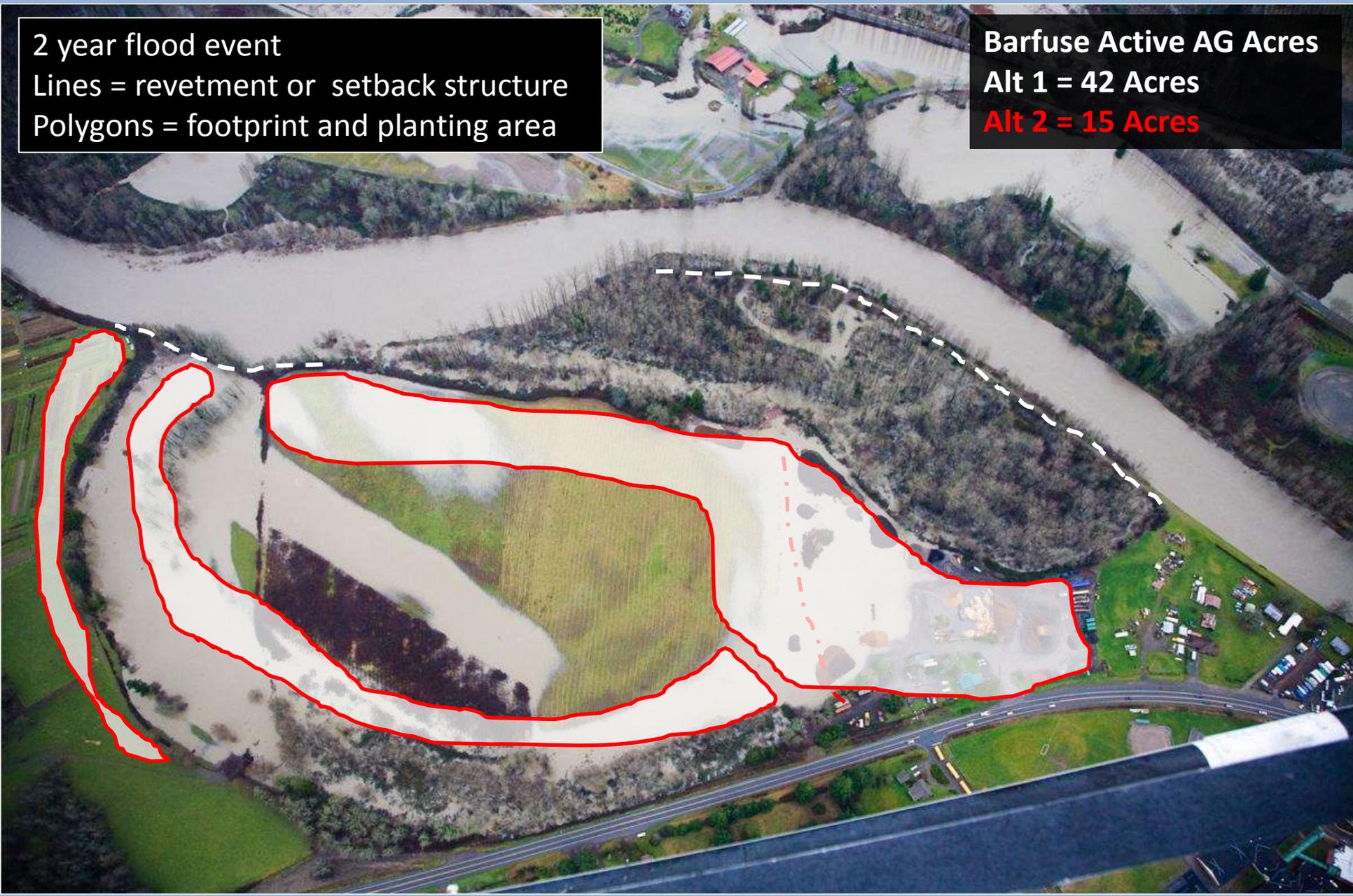
Barfuse Active AG Acres
Alt 1 = 42 Acres



Barfuse Alternative #2

2 year flood event
Lines = revetment or setback structure
Polygons = footprint and planting area

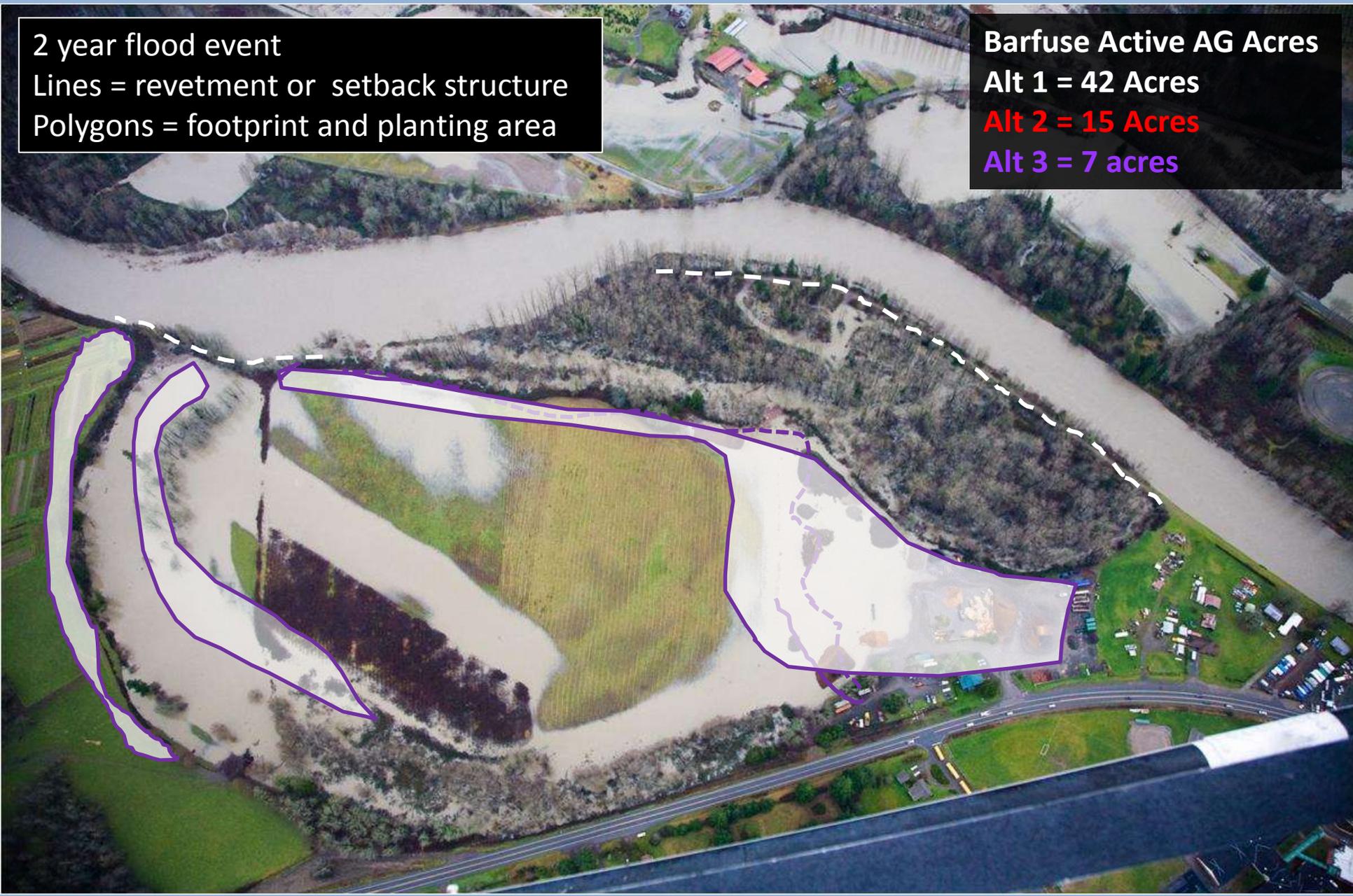
Barfuse Active AG Acres
Alt 1 = 42 Acres
Alt 2 = 15 Acres



Barfuse Alternative #3

2 year flood event
Lines = revetment or setback structure
Polygons = footprint and planting area

Barfuse Active AG Acres
Alt 1 = 42 Acres
Alt 2 = 15 Acres
Alt 3 = 7 acres



Barfuse Alternative #4

2 year flood event

Lines = revetment or setback structure

Polygons = footprint and planting area

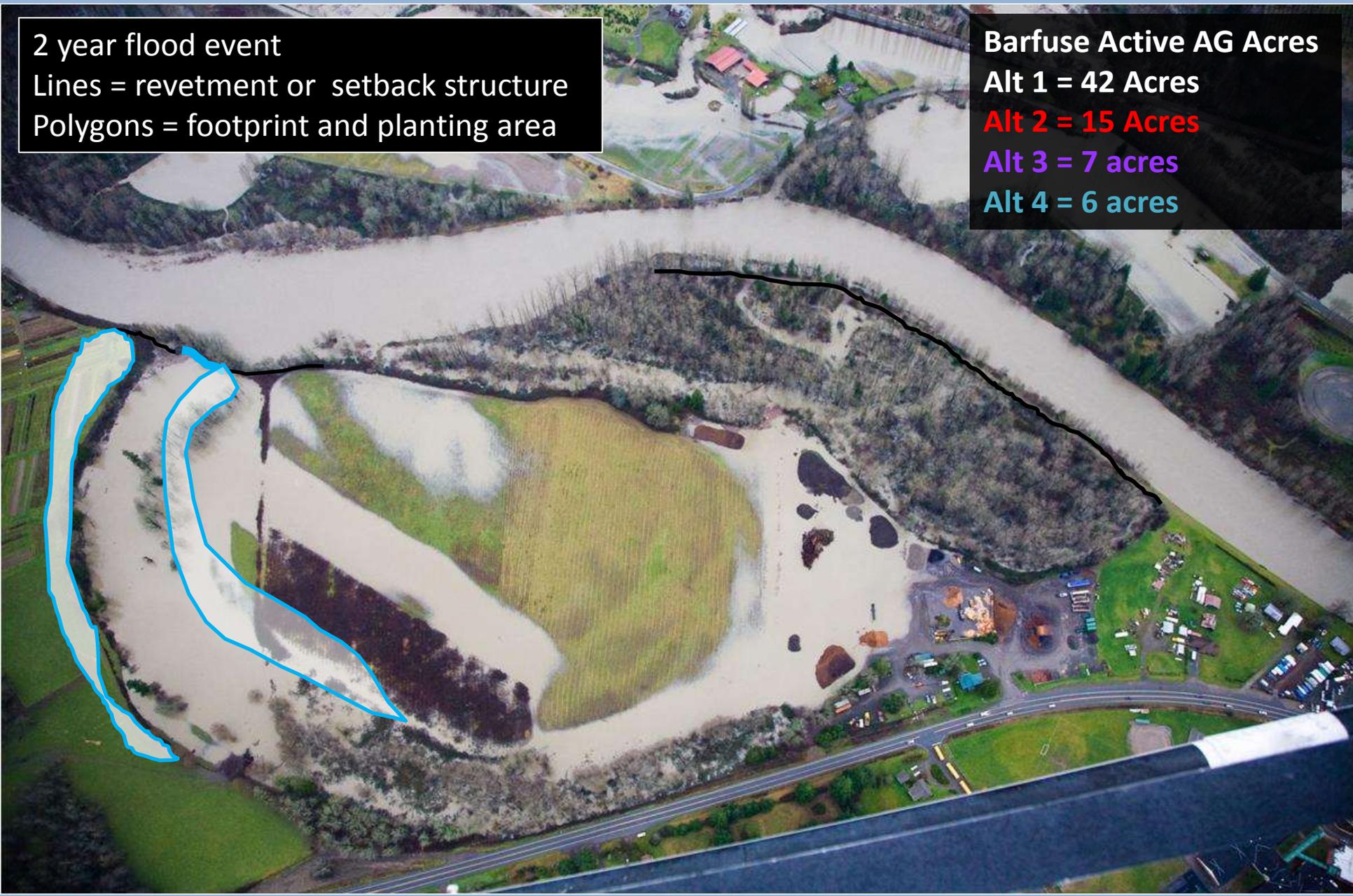
Barfuse Active AG Acres

Alt 1 = 42 Acres

Alt 2 = 15 Acres

Alt 3 = 7 acres

Alt 4 = 6 acres



1



2



3

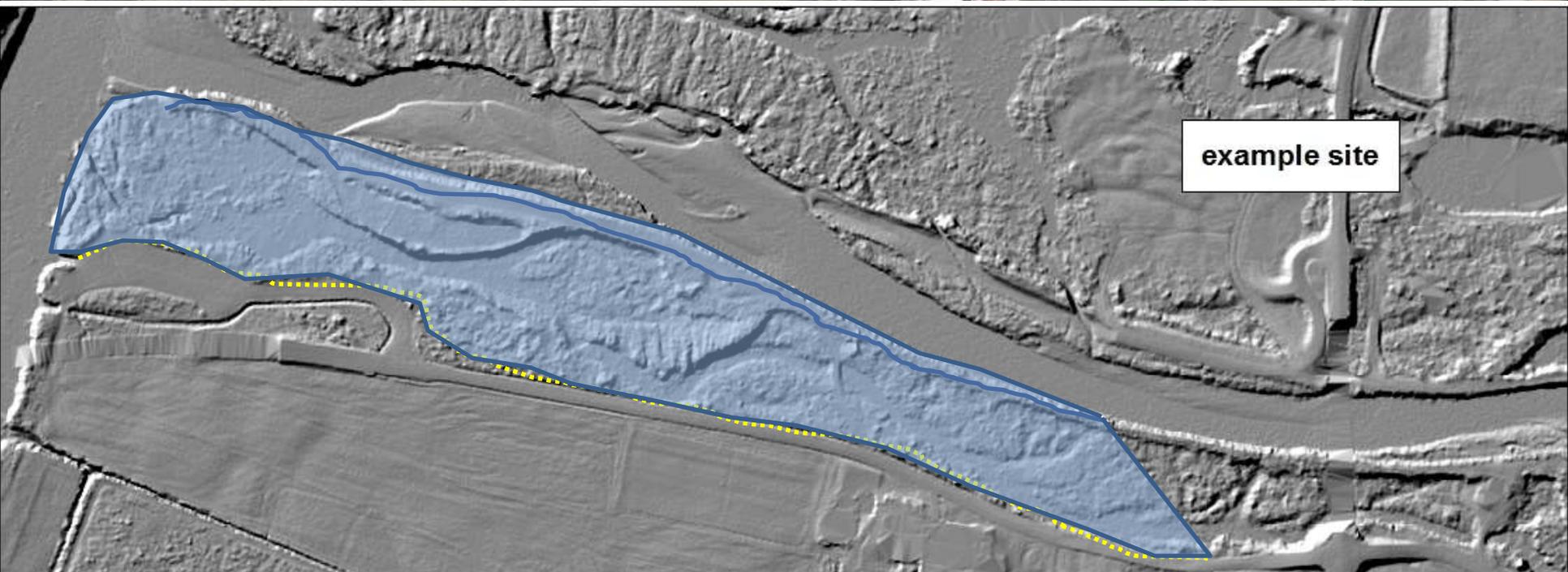


4



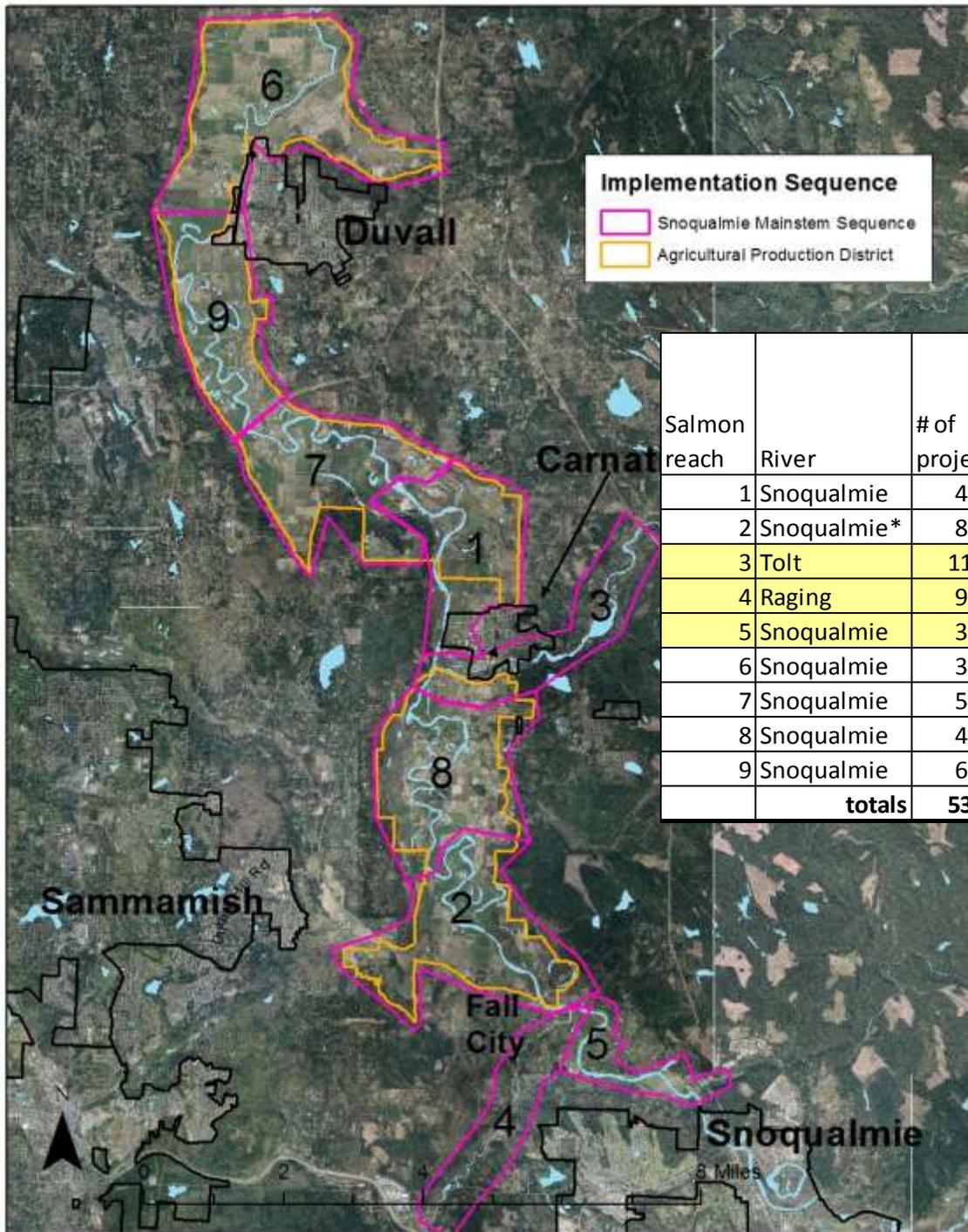
Long-term view (~ 20-50 yrs)

- How many more projects like this?
- How many APD acres?
- How many farmed or farmable acres lost?



Potential Large Habitat & Flood Projects

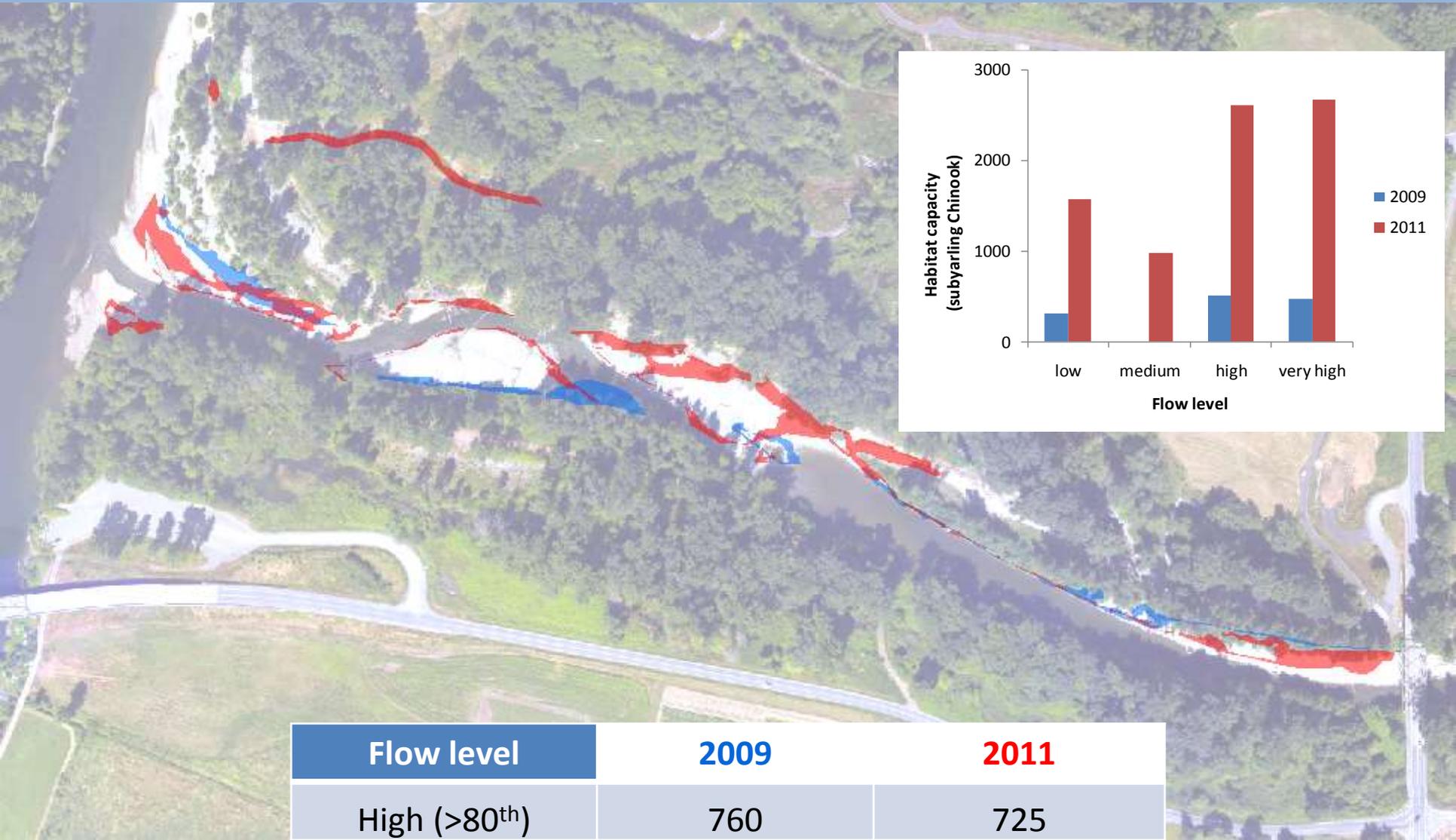
(by Salmon Plan priority reach)



Salmon reach	River	# of projects	Total Capital Improvement Project footprint (acre)	Project footprints inside of APD (acres)	Currently farmed/farmable footprint in APD (acres)
1	Snoqualmie	4	84	61	0
2	Snoqualmie*	8	303	303	115
3	Tolt	11	165	17	0
4	Raging	9	68	0	0
5	Snoqualmie	3	70	0	0
6	Snoqualmie	3	19	16	13
7	Snoqualmie	5	64	64	48
8	Snoqualmie	4	89	89	15
9	Snoqualmie	6	157	157	110
totals		53	1019	707	301

Snoqualmie APD	Acres	%
Total currently farmed or potential to farm	9,718	
Potential CIP footprint on currently farmed and farmable lands in the APD	301	
% of potential CIP footprint on currently farmed and farmable lands in the APD		3.1%

MORE JUVENILE FISH HABITAT



Flow level	2009	2011
High (>80 th)	760	725

Steelhead & Coho?

- What will be asked of Ag for steelhead recovery?
 - No likely changes to mainstem efforts for Chinook.
 - Most additional efforts in key tributaries (Tolt, Raging, Cherry, Canyon Crk.), outside of APD.
- What if coho salmon get listed?
 - No likely changes to mainstem efforts for Chinook.
 - More emphasis on improving quality of small tributaries, including in APD floodplains

How to address acreage losses?

Initial thoughts

- Enhance viability of existing farms
 - E.g., drainage, home & barn elevation
- Expand the APD by adding new land
 - E.g., Tall Chief Golf Course & KC owned property near Raging River mouth
- Increase long-term protection of existing farm land base
 - E.g., Farmland Preservation Program easements
- Protect existing farms from river migration
 - SE 19th Street revetment re-build near Keller Dairy