





## Forest Road Systems Lightning Talk

November 5, 2024

A Presentation to the Board of Natural Resources

By Dale Mix



# Timber Sales & Roads

- Timber Sales are vitally important to road maintenance activities such as:
  - Grading
  - Adding surface rock
  - Subgrade repair
  - Brushing
  - Ditching
  - Culvert replacements
  - Bridge replacements

































**Grading roads provides a smoother ride for recreational vehicles and reduces impact to fish and riparian dependent species habitat by reducing sediment runoff.**

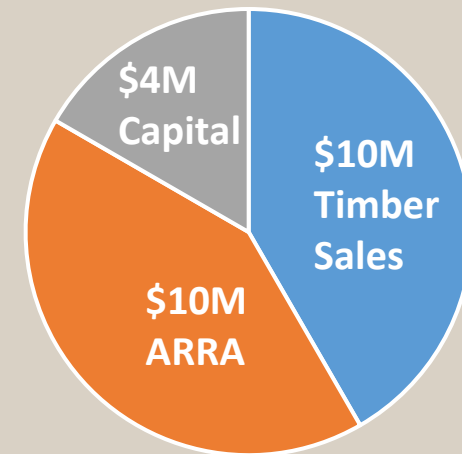




# Ways to Fund Road Work

- Include in timber sale contract requirements
- Access Road Revolving Account
- Capital Funding

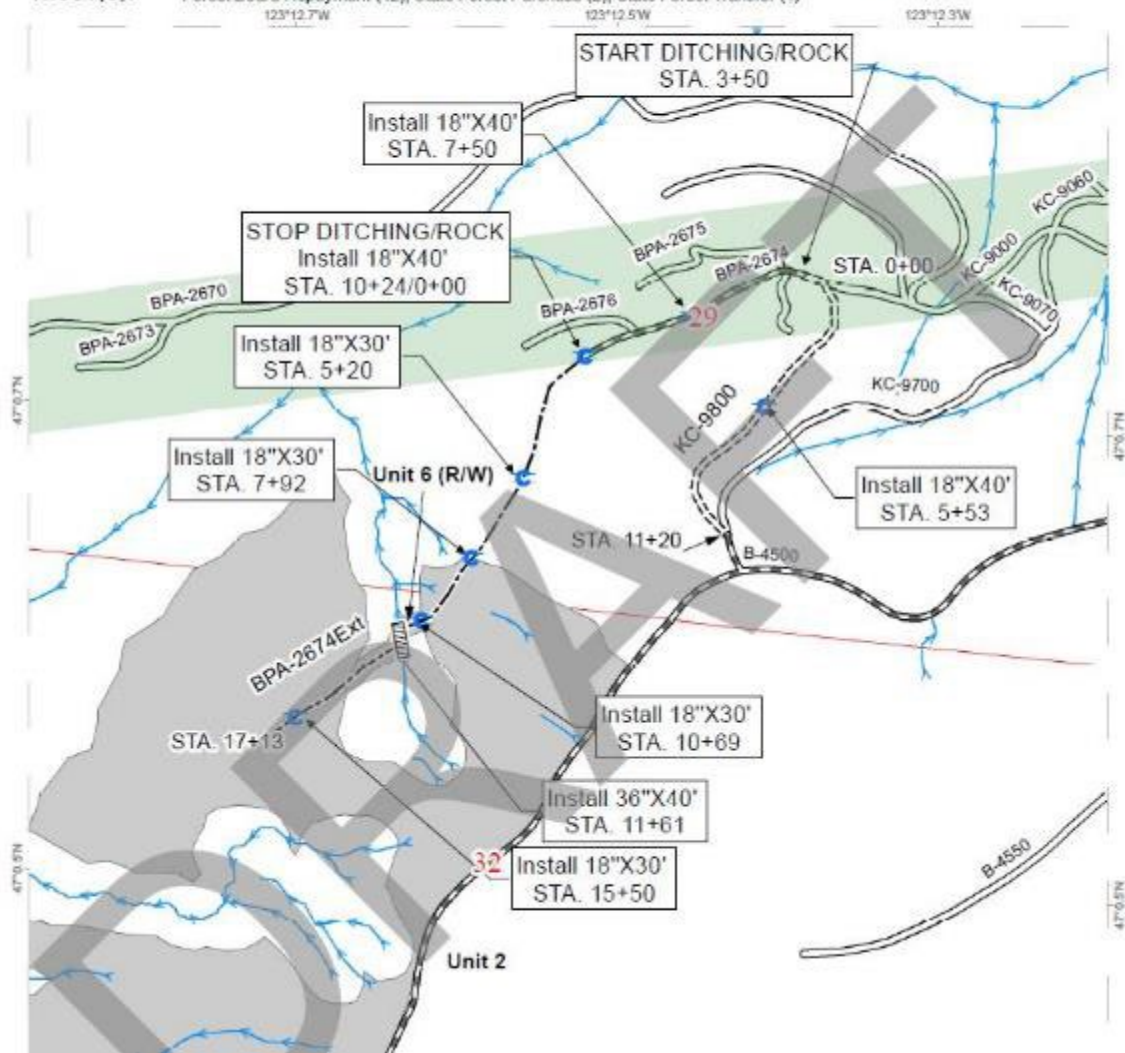
**Funding Sources for Road Maintenance**





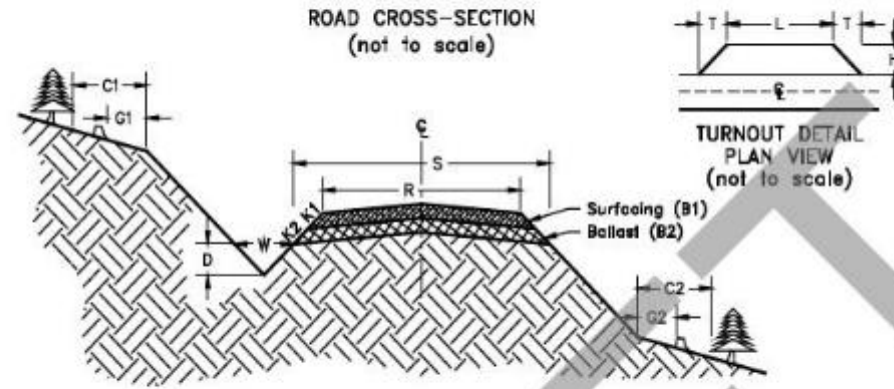
**ROAD WORK MAP 5 OF 6**

<b>SALE NAME:</b> Cabbage Patch	<b>REGION:</b> South Puget Sound Region
<b>AGREEMENT#:</b> 30-103592	<b>COUNTY(S):</b> Grays Harbor, Thurston
<b>TOWNSHIP(S):</b> T18R4W	<b>ELEVATION RGE:</b> 720-1960
<b>TRUST(S):</b> Forest Board Repayment (42), State Forest Purchase (2), State Forest Transfer (1)	





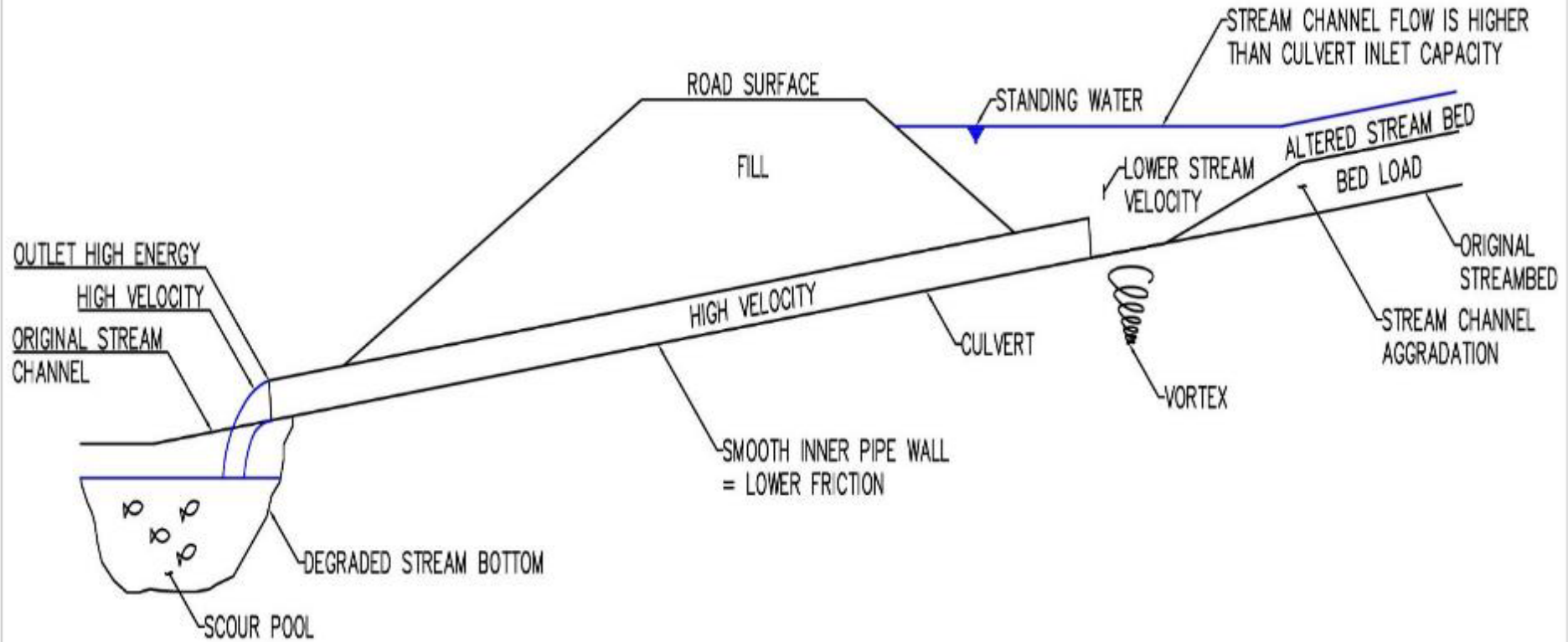
TYPICAL SECTION SHEET (pg 1 of 1)



Road Number	From Station	To Station	Tolerance Class	Subgrade Width (feet)	Road Width (feet)	Ditch		Crown in. @ CL	Grubbing Limits (feet)		Clearing Limits (feet)		Cut Slope Ratio	Fill Slope Ratio
						Width (feet)	Depth (feet)		G1	G2	C1	C2		
				S	R	W	D		G1	G2	C1	C2	Clause	Clause
B-Line	418+50	685+10	A		14	3	1	4	-	-	-	-	4-5	4-6
B-2700	0+00	45+70	C	16	12	3	1	4	-	-	-	-	4-5	4-6
B-4000	0+00	93+57	B		12	3	1	4	-	-	-	-	4-5	4-6
B-4500	0+00	103+70	C	16	12	3	1	4	-	-	-	-	4-5	4-6
B-4580	0+00	4+00	C	16	12	3	1	4	3	3	5	5	4-5	4-6
B-4580	4+00	16+35	C	16	12	3	1	4	0	0	0	0	4-5	4-6
BPA-2674	3+50	10+24	B	16	12	3	1	4	3	3	5	5	4-5	4-6
BPA-2674Ext	0+00	10+00	B	16	12	3	1	4	0	0	5	5	4-5	4-6
BPA-2674Ext	0+00	13+50	B	16	12	3	1	4	0	0	TAGS	TAGS	4-5	4-6
BPA-2674Ext	13+50	17+13	B	16	12	3	1	4	0	0	0	0	4-5	4-6

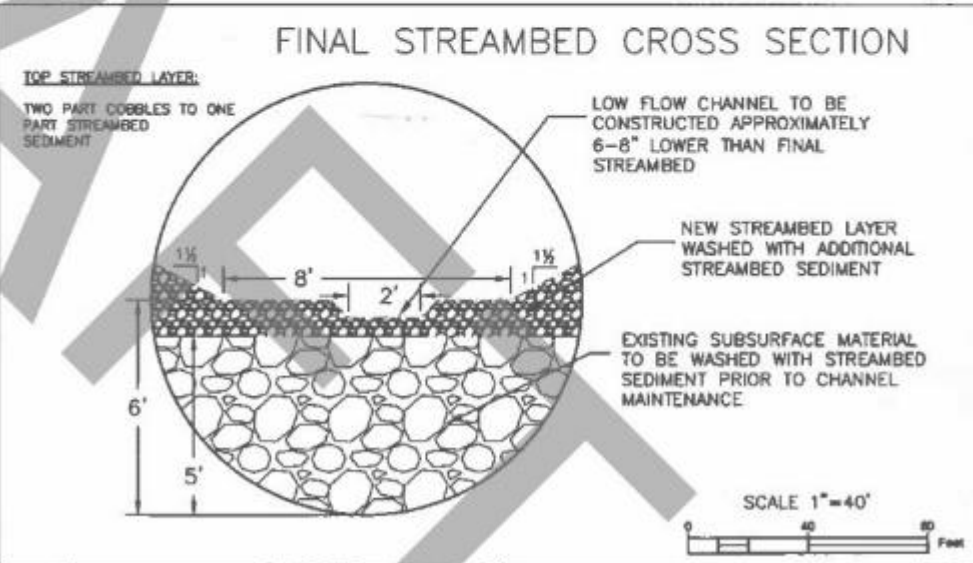
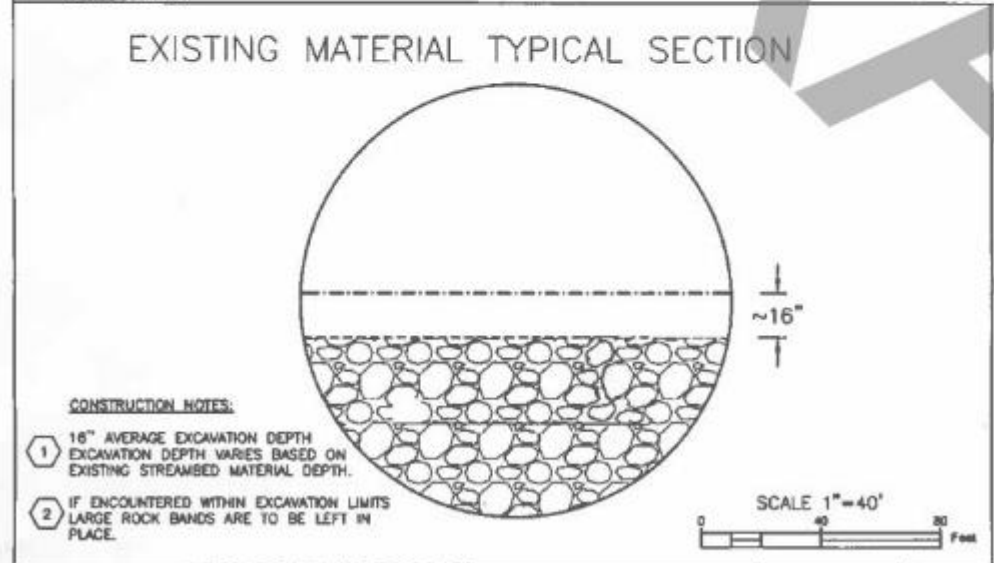
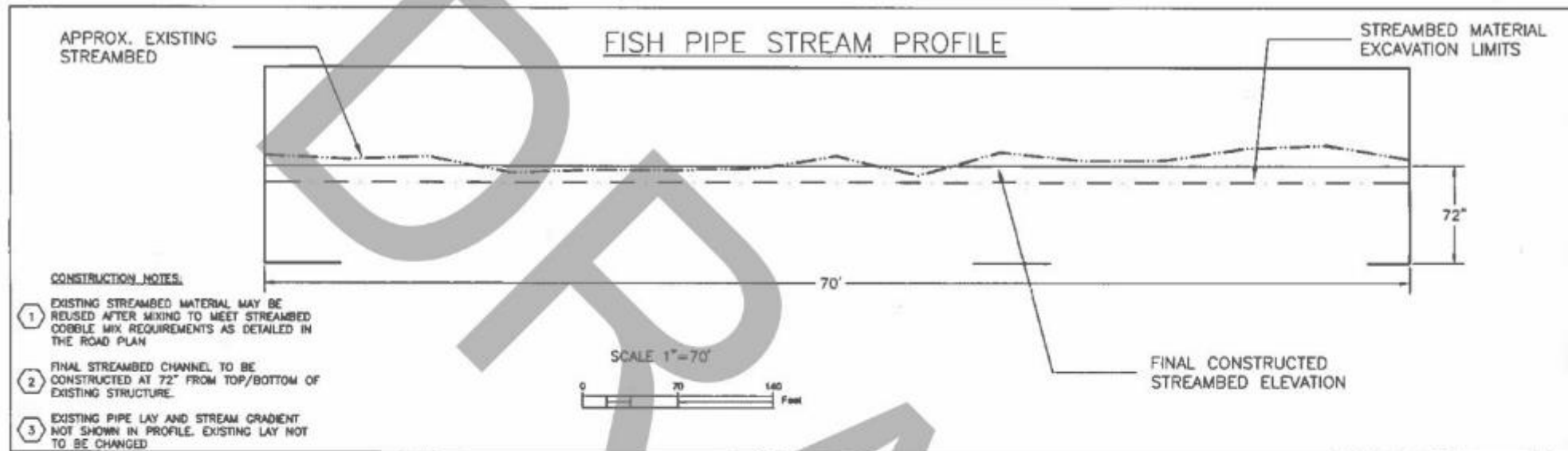






FISH BARRIER CREATED BY CULVERT DESIGNED TO PASS 100-YEAR FLOOD WITH INLET CONTROL  
NTS





DESIGN BY: J. GROSS  
 DRAWN BY: J. GROSS  
 CHECKED BY: S. SHAFFER  
 DATE: Nov. 10, 22

SEC. TOWNSHIP RANGE: SEC 27 T18N R04W  
 LAT & LONG: 47.019416 -123.175772  
 LANDOWNER: WA-DNR

1.0"  
 VERIFY SCALE  
 If bar does not measure 1.0", adjust scales accordingly



B-4000 STA. 40+70  
 CULVERT NO. T18R04W-112

STREAMBED MAINTENANCE DETAILS

SHEET  
 1  
 OF  
 1





**ROADS:**

11.20 stations of required construction. 33.48 stations of optional construction. 771.56 stations of required prehaul maintenance. 29.48 stations of abandonment, if constructed. Purchaser maintenance on the BPA-2674 (KC-9800 intersection to BPA-2674 Ext. intersection), BPA-2674 Ext., KC-9700 (B-4500 intersection to KC-9800 intersection), KC-9800, B-4500, B-4580, B-4000 (within and directly adjacent to Unit #3), KC-2100 (within Unit #4), B-Line (directly adjacent to Unit #4), KC-Line (directly adjacent to Unit #5), KC-3000, and B-2700 (if used for mobile tailhold access) roads. Designated maintenance on all other roads used.

Rock for this proposal may be obtained from the Stinkfoot Quarry, and from the existing stockpile at the Stinkfoot Quarry per Road Plan clause 6-3, at no cost to the Purchaser or any commercial rock source at the Purchaser's expense. If rock development occurs in the Stinkfoot Quarry, Purchaser must conduct operations in accordance with the Stinkfoot Quarry Development Plan per Road Plan clause 6-10.

All road work activities (except for the streambed maintenance on the B-4000 as noted below) will not be permitted from November 1 to April 30, nor on weekends or State recognized holidays, unless authority to do so is granted, in writing, by the Contract Administrator. If permission is granted to operate from November 1 to April 30, a maintenance plan may be required per Road Plan clause 1-26. In addition, the streambed maintenance on the B-4000 Road at station 40+70 will not be permitted from October 1 to July 14, unless authorized in writing by the State.

The hauling of forest products on the BPA-2674 Ext. will not be permitted from November 1 to April 30 unless authorized in writing by the Contract Administrator. If permission is granted to operate on the BPA-2674 Ext. from November 1 to April 30, preventative measures may be required to protect water, soil, roads, and other forest assets. In addition, hauling in all units will not be permitted on weekends or State recognized holidays unless authorized in writing by the Contract Administrator.

**ACREAGE DETERMINATION****CRUISE METHOD:**

Acreage was determined by traversing boundaries by GPS in all units and length times width for existing roads in Units #3 and #4. GPS data files are available at DNR's website for timber sale auction packets. See cruise narrative for cruise method.

**FEES:**

\$143,684.00 is due on day of sale. \$9.00 per MBF is due upon removal. These are in addition to the bid price.





# South Fork Siouxon Bridge





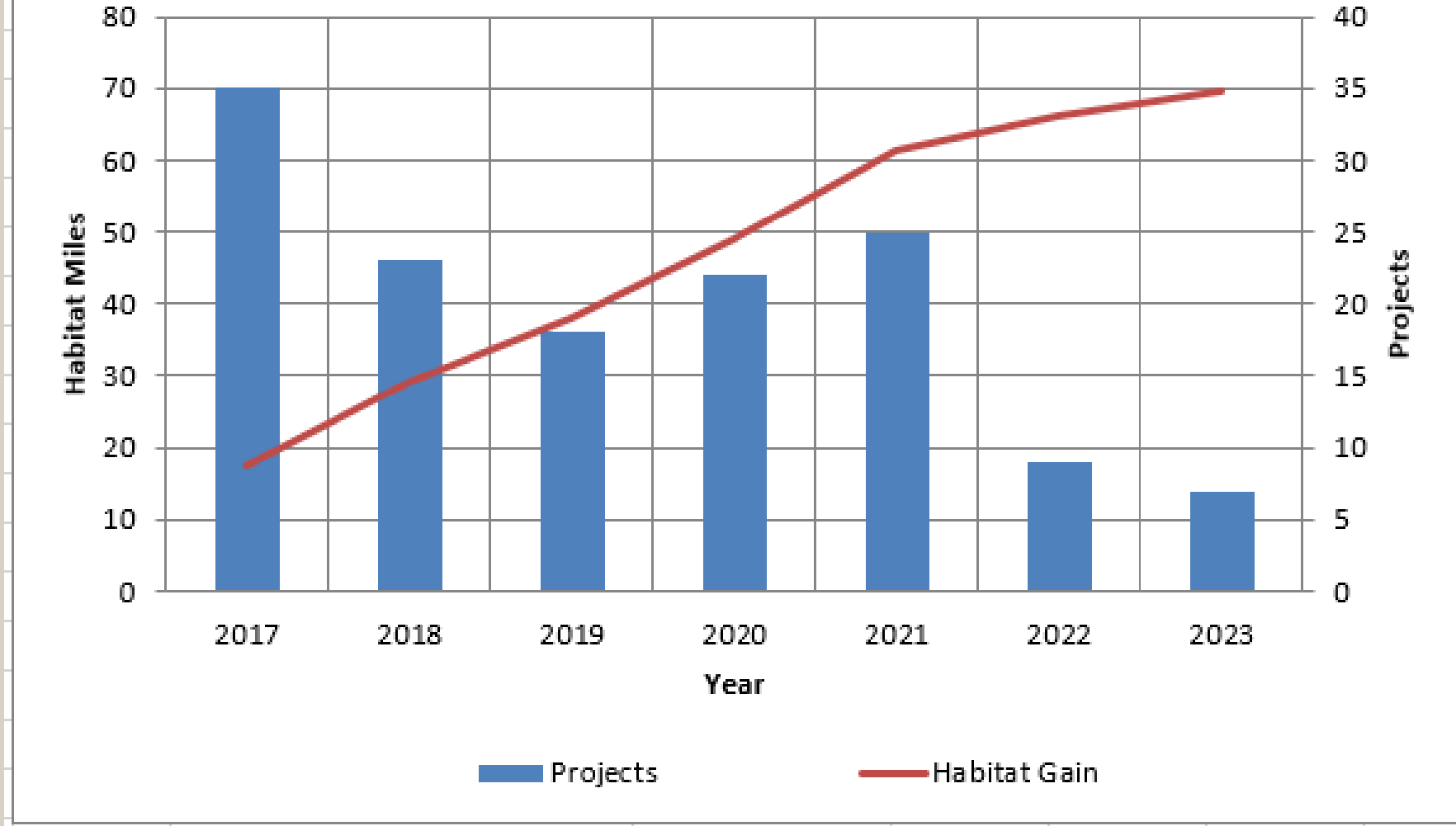
# East Fork Dickey Bridge





# Number of State Uplands Fish Barrier Removal Projects Completed per Year

## Potential Linear Habitat Gain in Miles (cumulative)



# Questions?





