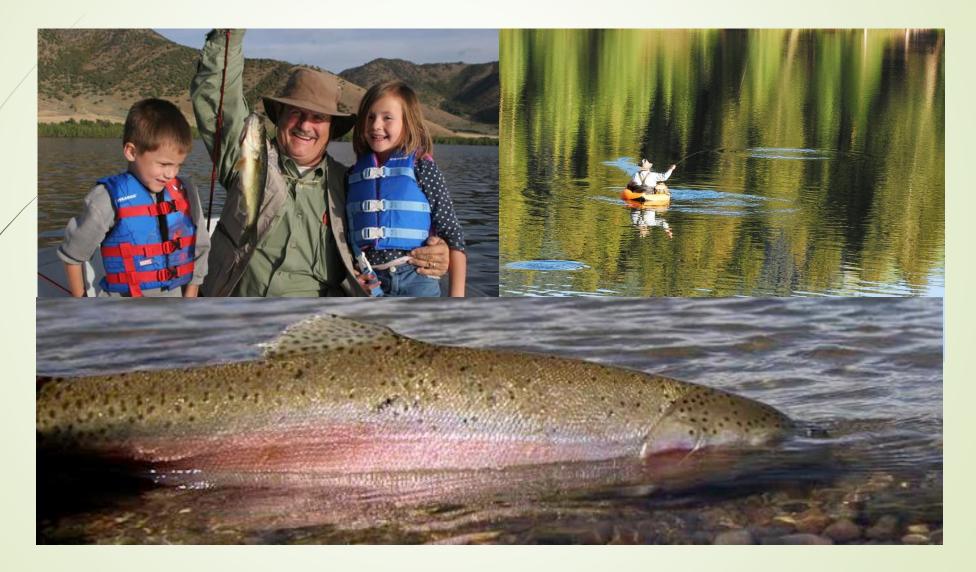
Loa Fish Hatchery

Utah Department of Natural Resources

Utah Division of Wildlife Resources

Fishing is a quality-of-life activity in Utah



In 2018, fishing contributed \$1.1 billion and added 7,562 jobs to Utah's economy. That includes \$626 million that 578,265 anglers spent while fishing in the state.



Hatchery raised fish are essential

Increase angler satisfaction

- Aid in angler recruitment and retention efforts
 - The number of Urban fishing waters continue to increase
 - Community fishing programs are completely dependent on hatchery fish
- A key to effective fisheries management
 - Support population management
 - Enable greater aquatic biodiversity

Loa can be one of the most important hatcheries in Utah

- □ In **November 2014**, the hatchery was closed due to:
 - Discovery of New Zealand mud snails
 - Originally constructed in 1936, the facility is not capable of being upgraded
- Cannot securely raise fish free from disease or invasive aquatic species
- The volume and quality of water make it an essential facility to meet future angling needs and desires
- This priceless asset is currently inoperable

Need to rebuild the hatchery

- Currently operating hatcheries are producing fish in excess of design
 - Production beyond design can cause fish health issues
- Current production not able to meet the demands of fisheries management plans
- Additional fish production necessary for expected human population increase
- Operating hatcheries are scheduled to receive biosecurity upgrades and maintenance through the DWR Hatchery Maintenance account
 - Necessary work but will reduce production capacity

2019 feasibility study

DWR and DFCM contracted with Sunrise Engineering for programming and concept design



LOA FISH HATCHERY PROGRAMMING AND



DRAFT

A new Loa Hatchery

- A new facility with **modern equipment**, **materials and design** will:
 - Produce **350,000 pounds** of fish annually
 - Be the most productive and cost effective hatchery in Utah
 - Have a secure water source, hatchery building and raceways
- □ Fish will be free from disease and aquatic invasive species
- Other hatcheries will be able to operate at designed production levels
- DWR will be able to meet the needs of current and future anglers
- Hatcheries will satisfy the requirements for healthy fisheries management

Cost to rebuild the hatchery

Total cost estimate: \$33,892,166

Code	Program	Total Program NASF	Circulation Factor	Program Dept. GSF	Building Factor	Program GSF	Cost/ GSF	Estimated Construction Cost
	Categories				0		9	
Α	Springwater Collection	NA	NA	NA	NA	NA	NA	\$ 301,218.00
в	Pump Station	250.00	1.00	250.00	1.00	250.00	\$1,240.00	\$ 310,000.00
С	Degasser	256.00	1.00	256.00	1.00	256.00	\$ 761.59	\$ 194,968.00
D	Hatchery	8200.00	1.10	9020.00	1.15	10373.00	\$ 444.68	\$4,612,694.60
E	Office & Shop	4280.00	1.33	5692.40	1.15	6546.26	\$ 259.15	\$1,696,444.93
F	Feed Storage	2000.00	1.10	2200.00	1.10	2420.00	\$ 180.00	\$ 435,600.00
G	Raceway	65725.00	1.10	72297.50	1.15	83142.13	\$ 99.77	\$8,294,770.00
н	Disinfection Station	920.00	1.00	920.00	1.15	938.00	\$ 178.00	\$ 61,184.00
J	Wastewater Treatment	11349.00	1.00	11349.00	1.14	12909.00	\$ 229.48	\$2,962,380.32
к	Truck Parking	1600.00	1.00	1600.00	1.15	1840.00	\$ 180.00	\$ 331,200.00
L	House	5400.00	1.00	5400.00	1.15	6210.00	\$ 160.00	\$ 993,600.00
М	Generator	256.00	1.00	256.00	1.00	256.00	\$ 331.91	\$ 84,968.00
N	Process Water	NA	NA	NA	NA	144.00	NA	\$ 814,700.64
0	Oxygen	NA	NA	NA	NA	400.00	NA	\$ 408,000.00
P	French Drain	NA	NA	NA	NA	144.00	NA	\$ 447,200.64
Q	Culinary	NA	NA	NA	NA	0.00	NA	\$ 127,200.00
R	Demolition	NA	NA	NA	NA	0.00	NA	\$1,034,193.00
S	Site	NA	NA	NA	NA	0.00	NA	\$2,558,812.50
	r				<u>.</u>	Construction of		st 2020
	Building Total	100,236	1.09	109,241	1.15	125,828	\$204	\$25,669,135
						tion allowances if project is I		the same of the property of the particular strength of the particular stren
			-		8.00% Construction c 8.00% Construction c			\$27,722,665 \$29,940,479
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								\$34,275,860
					6.00% Construction cost 2025			\$36,332,412

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Immediate need

LOA HATCHERY PROGRAMMING – Site prep						
Demolition	\$	1,034,193				
Spring Development	\$	301,218				
Spring Bypass Piping/Overflow	\$	450,000				
1 House & Garage	\$	496,800				
Estimated Phase 1 Construction Cost	\$	2,282,211				
Hazardous Material Abatement	\$	120,000.00				
Furnishings, Fixtures & Equipment	\$	30,000				
Construction Contingency 5.0%	\$	114,111				
Professional Fees 8.37%	\$	191,021				
Estimated Soft Costs	\$	305,132				
Estimated Total Project Costs	\$	2,587,343				

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Thank you. Questions?

