

Lower Deschutes River Fish Population Status Update



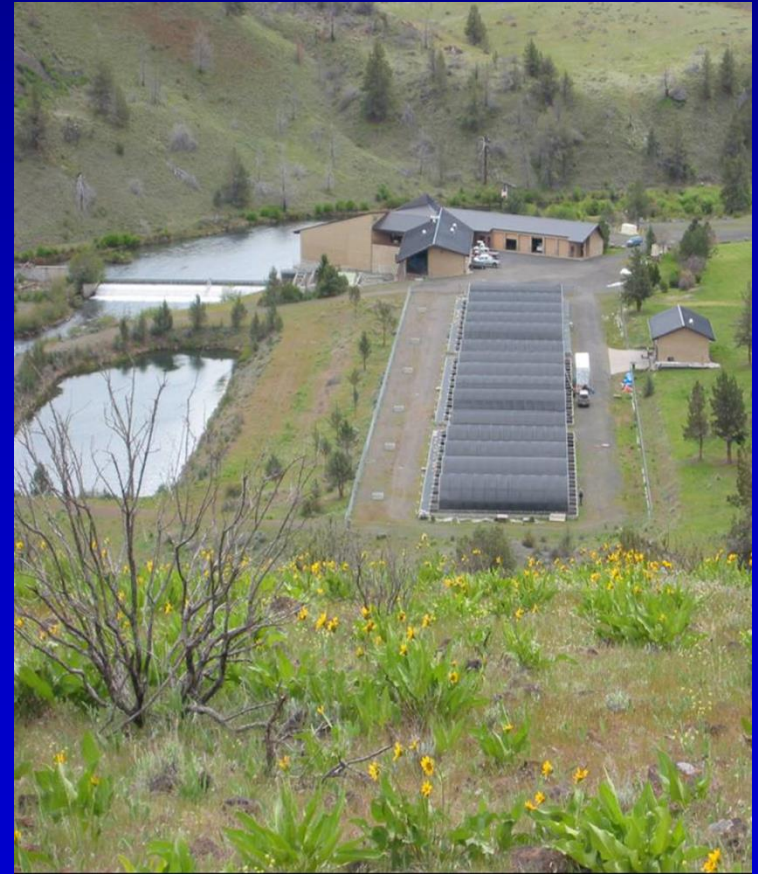
Rod French
Mid-Columbia Fish District
Oregon Department of Fish and
Wildlife



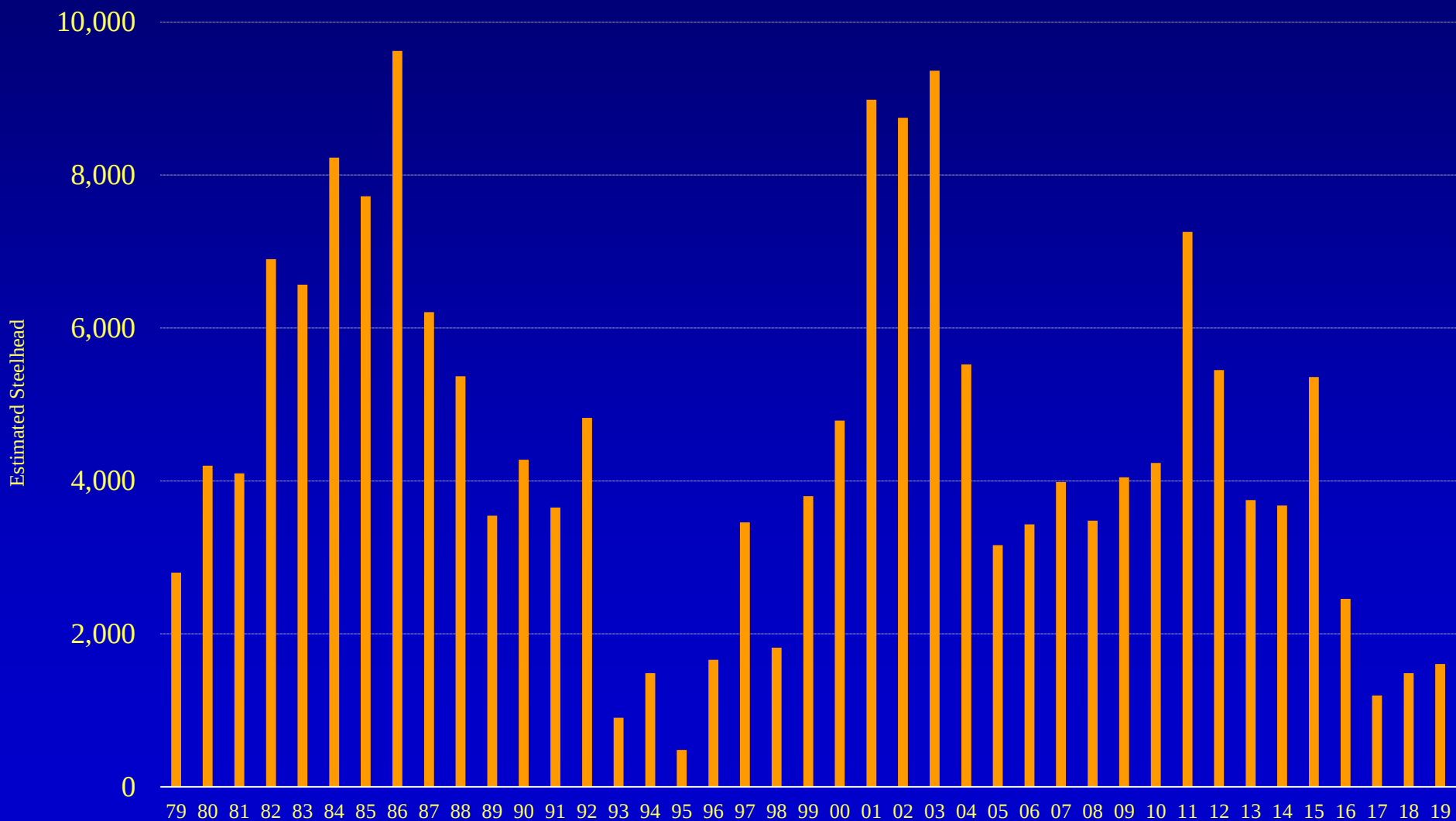
Presentation Outline

- Run size, or escapement estimates for steelhead, fall Chinook, spring Chinook
- Update on trout monitoring efforts
- Trout Creel
- Smallmouth bass monitoring

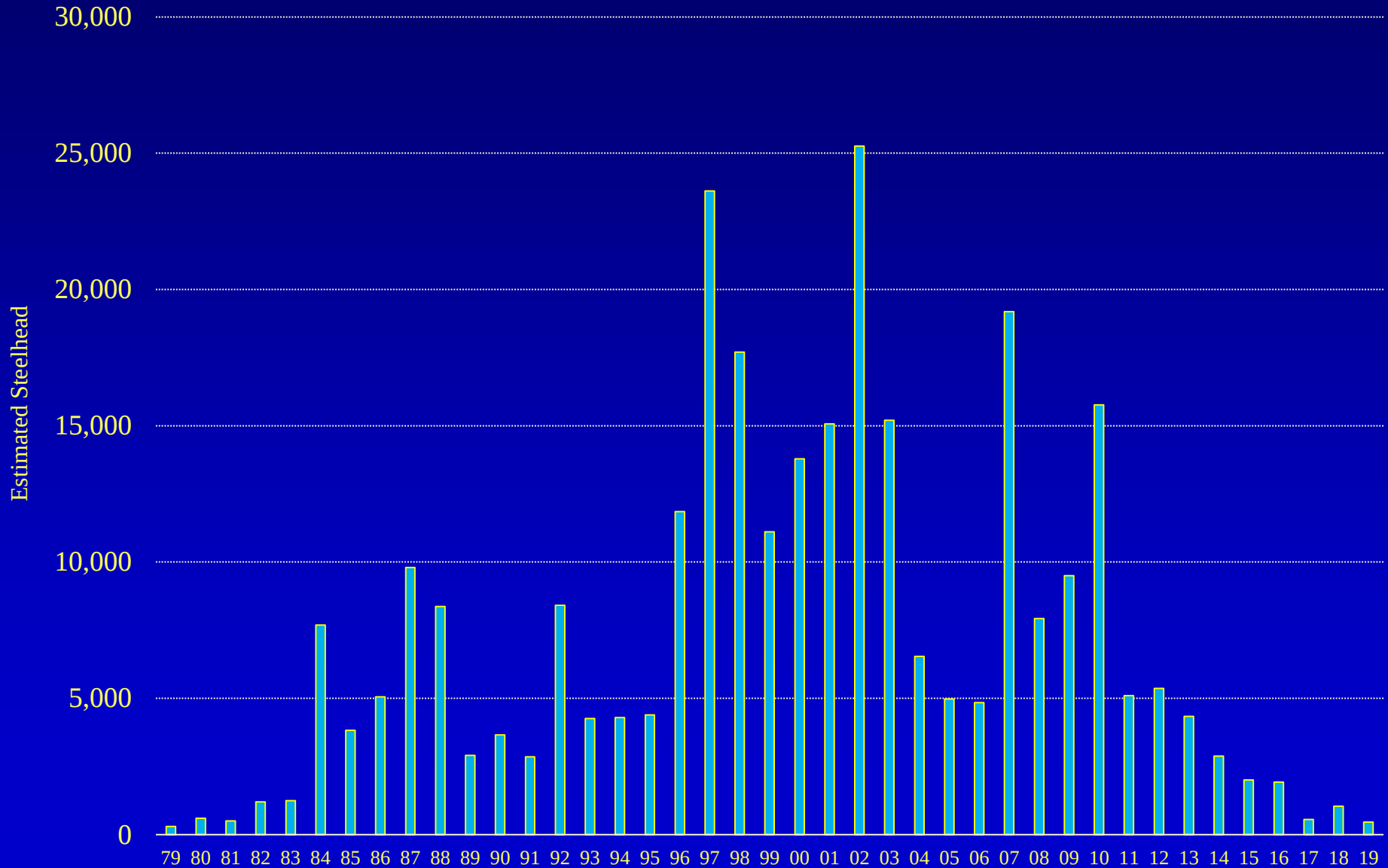
Sampling Sites/Methods



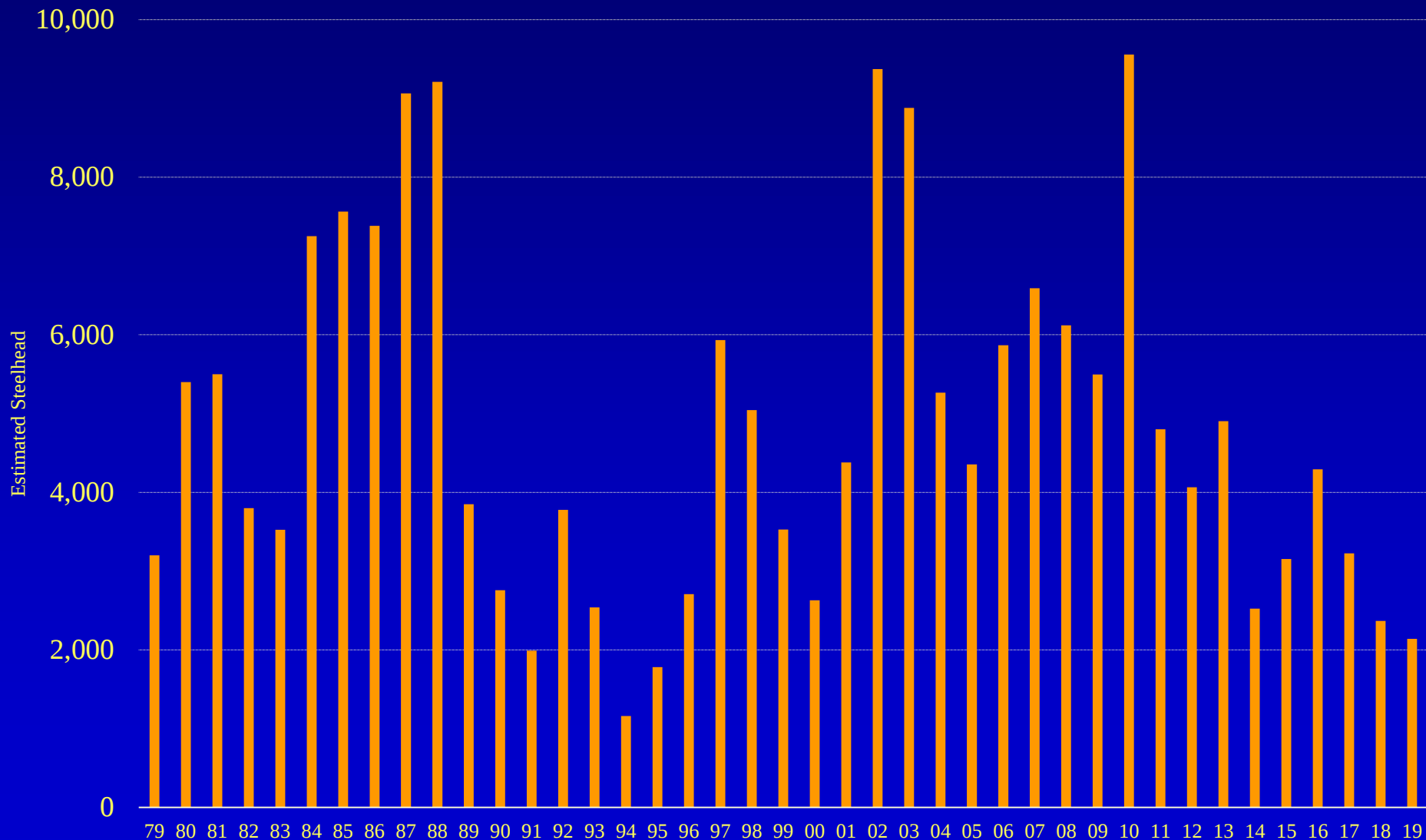
WILD STEELHEAD ESCAPEMENT ABOVE SHERARS



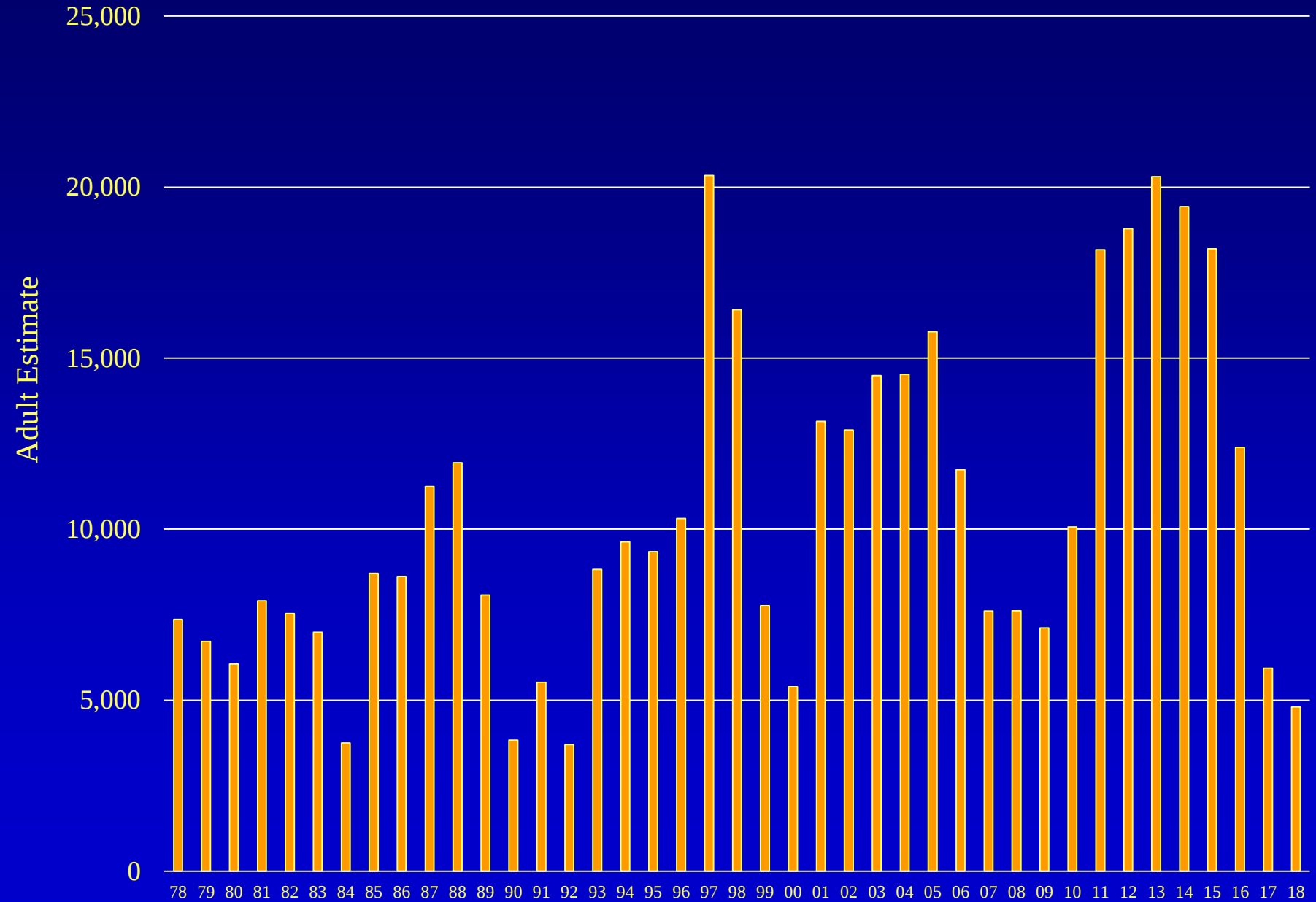
STRAY HATCHERY STS ESCAPEMENT ABOVE SHERARS



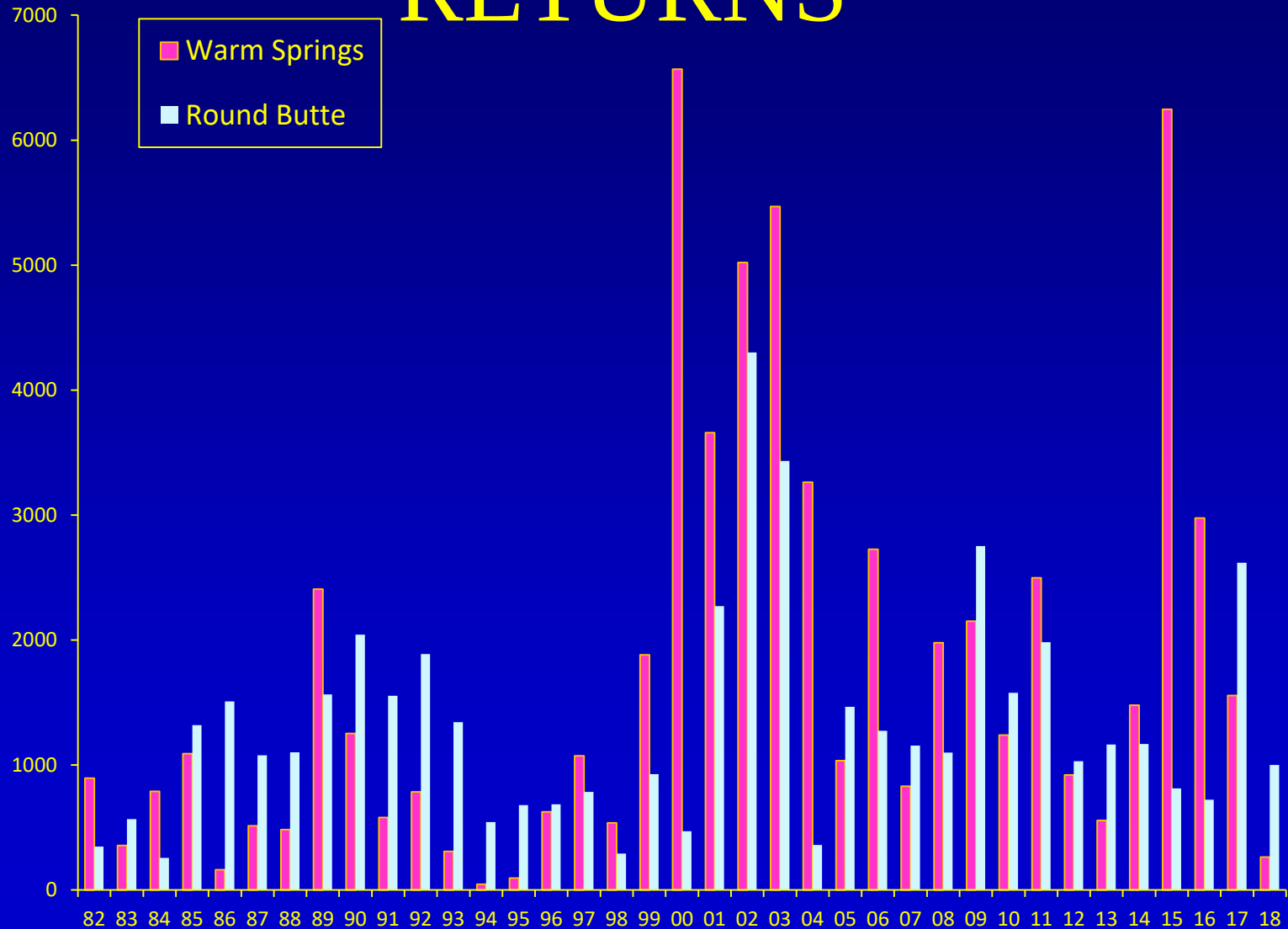
Round Butte Steelhead Above Sherars Falls



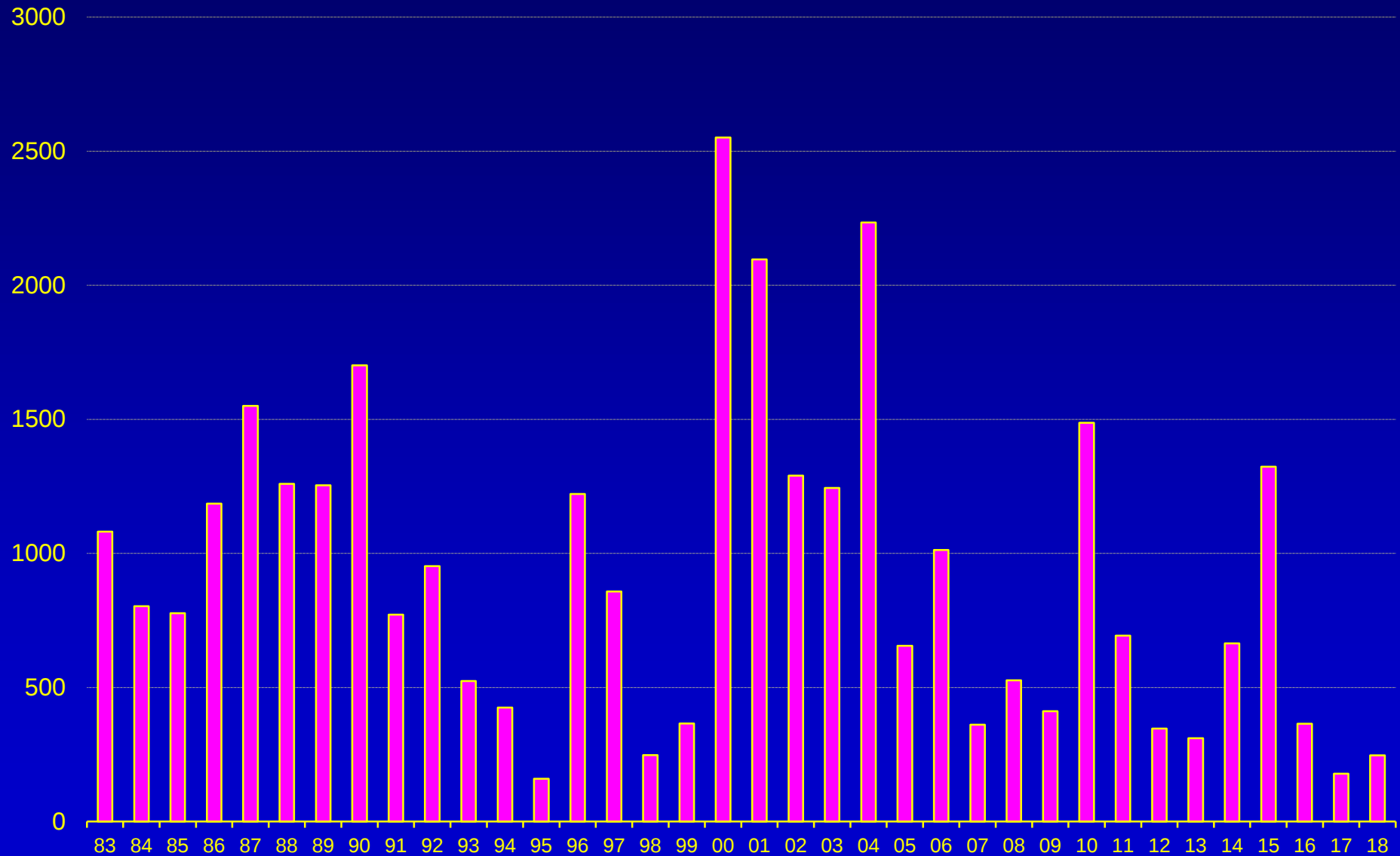
Wild Fall Chinook



ADULT CHS HATCHERY RETURNS



Wild Spring Chinook at WSNFH

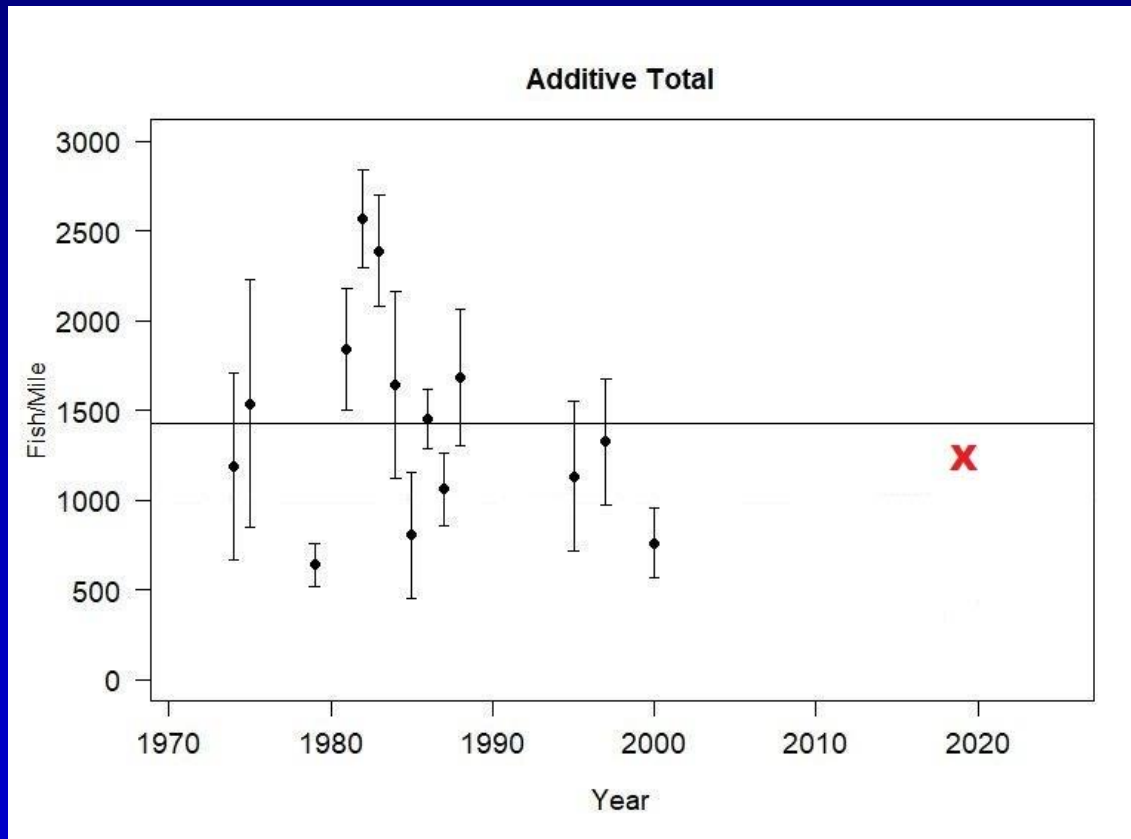


Deschutes Trout Monitoring

- 4 Reaches
- Age structure
- Food consumption
- Condition
- Growth
- Disease
- Abundance

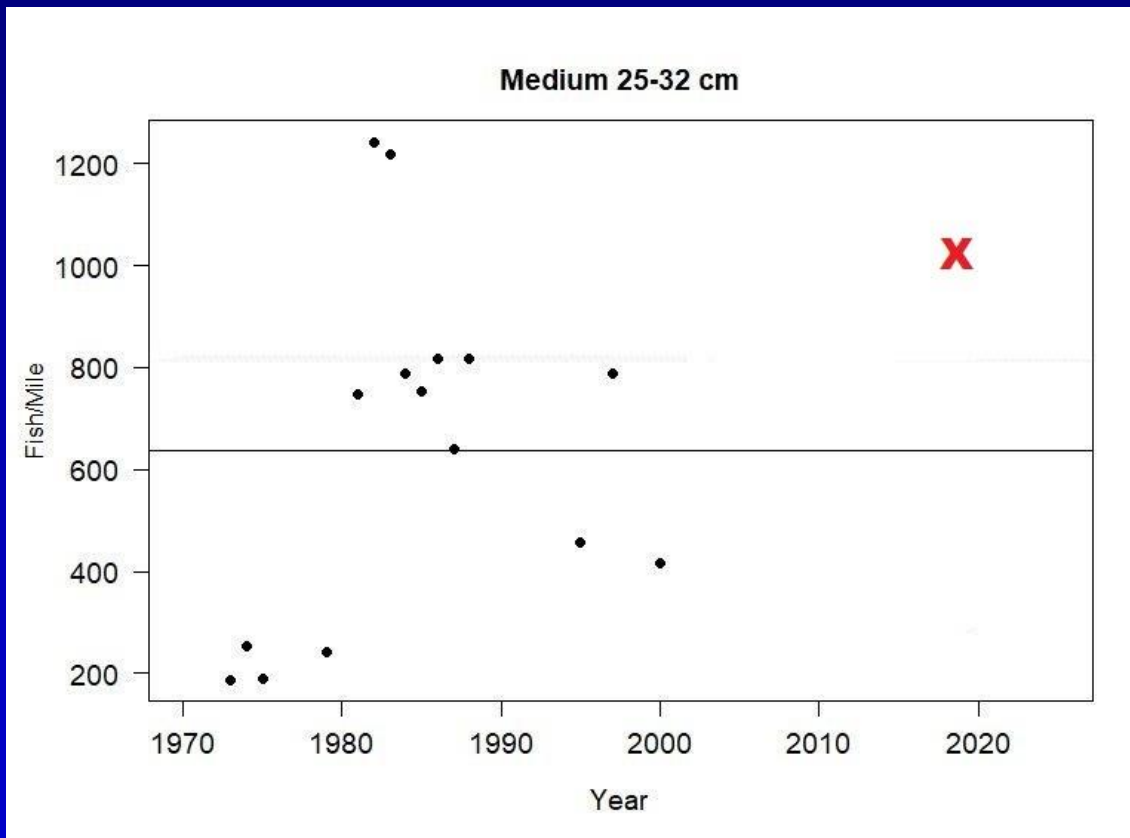


NenaTotal Fish

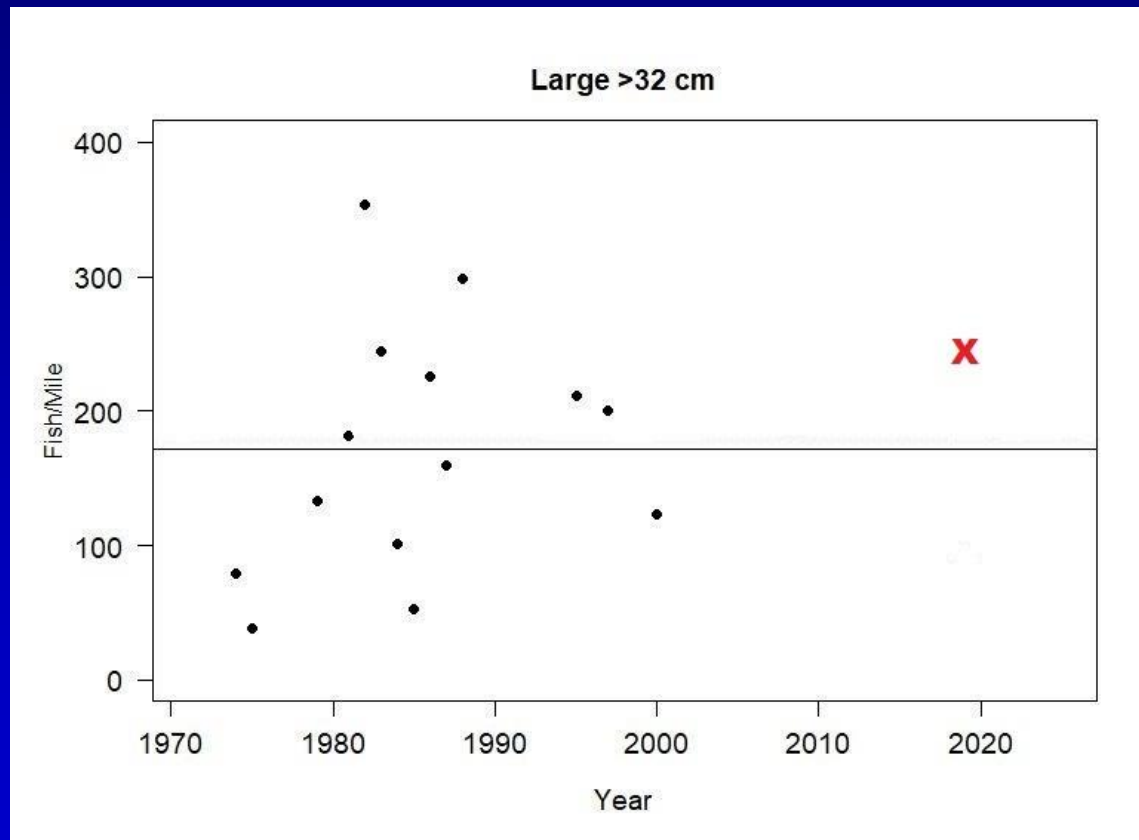


- Historical Estimate
- X** 2019 Estimate
- Historical Average

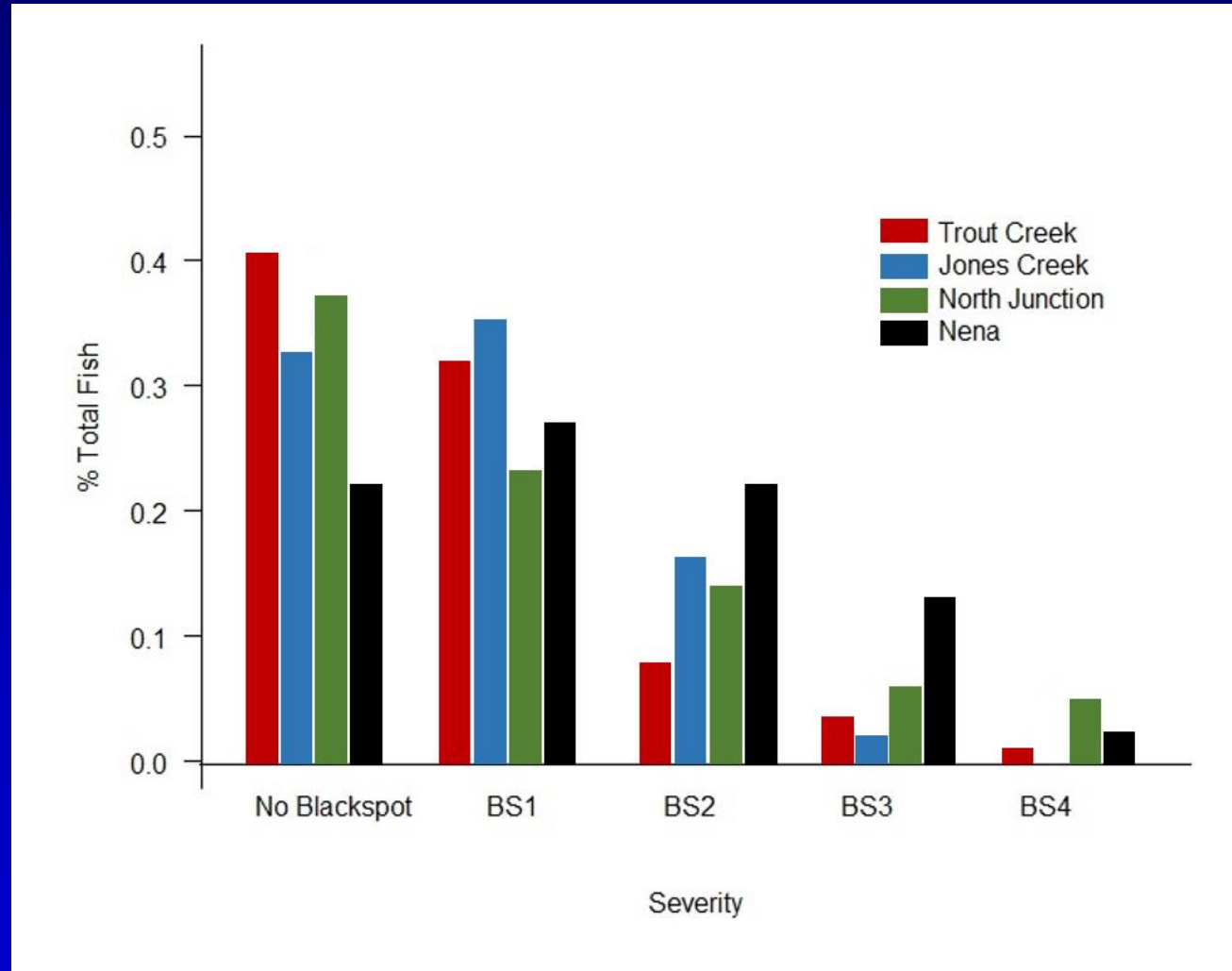
Nena Medium Fish



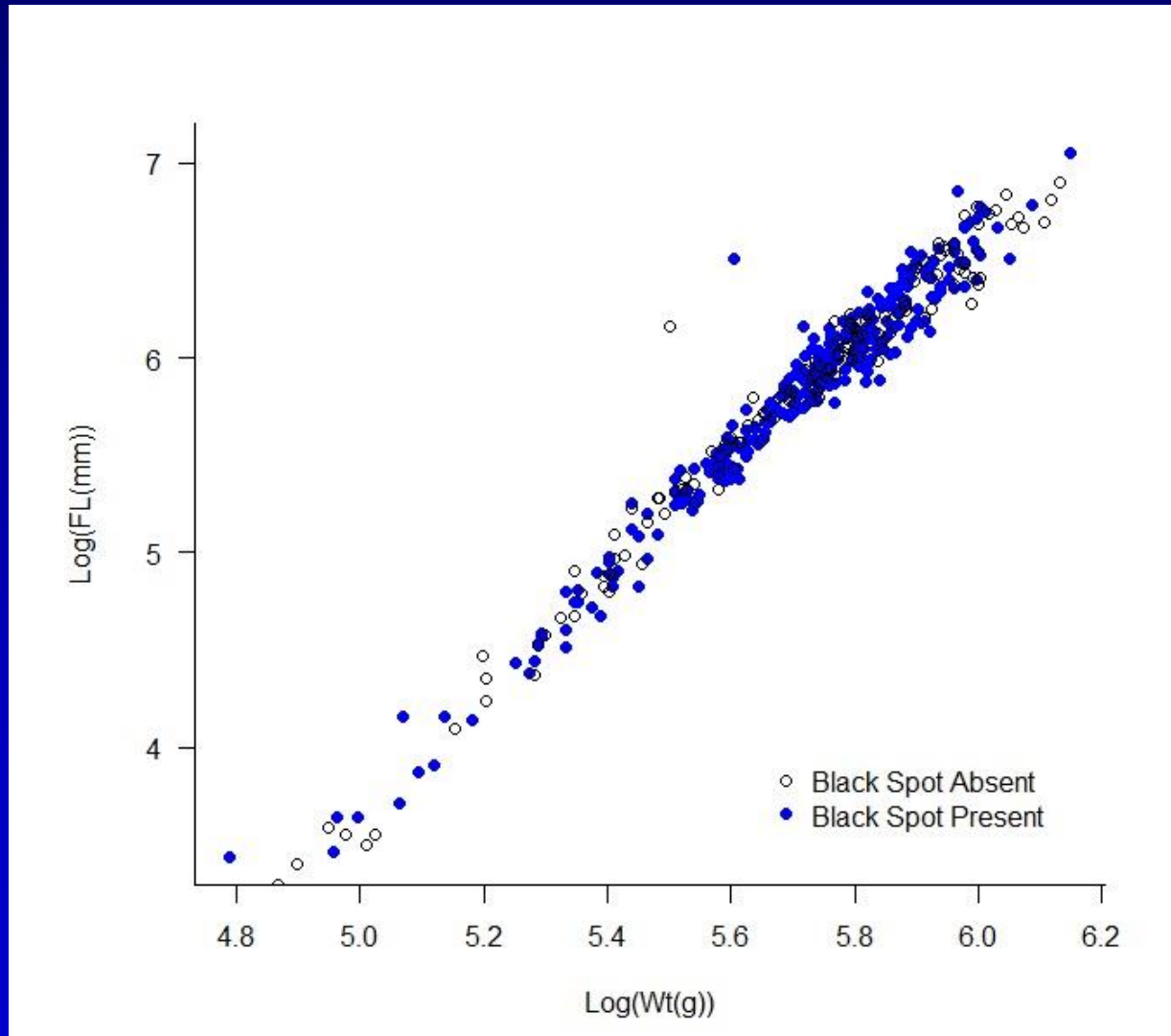
Nena Large Fish



Black spot (neascus) 2019 n=453



Black spot vs length/weight



Deschutes Trout Creel 2016-2019



Deschutes Trout Creel

- Design: Stratified random access-access based design.
- Creel period: April – June/July.
- Area sampled: Maupin Access Rd. upstream to Mecca Flat.
- Parameters: Effort, Catch, Boat, Bank, Guided, Non-guided, gear type.

Results

	Effort	Rb Kept	Rb Released	Combined Catch Rate
2016	85,553	28	56,884	0.78
2017	55,280	82	22,899	0.43
2018	142,041	84	87,912	0.87
2019	114,425	32	101,289	0.94

Catch Rate Comparison

- Lower Deschutes - (1989-2015) 0.55
- Deschutes Maupin - (1968-1973) 0.35
- Deschutes S. Junction – (1978-79) 0.69
- Madison – (2016) 0.25, (1981) 0.63
- Crooked – (2013) 1.07
- Kootenai – (2015) 0.37
- Boise – (2008) 0.6
- Crane Prairie Res- (2015) 0.21

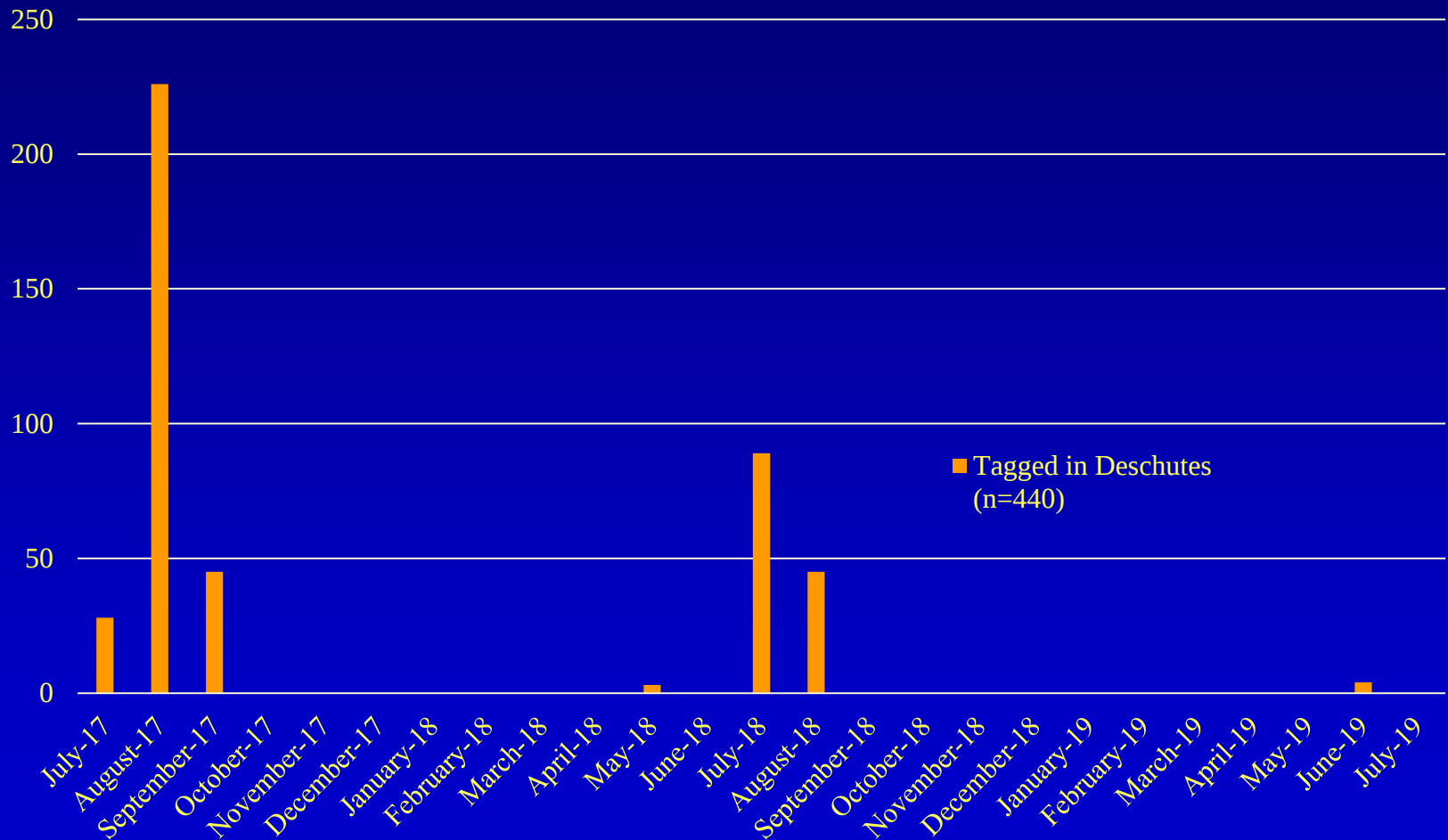
Smallmouth bass



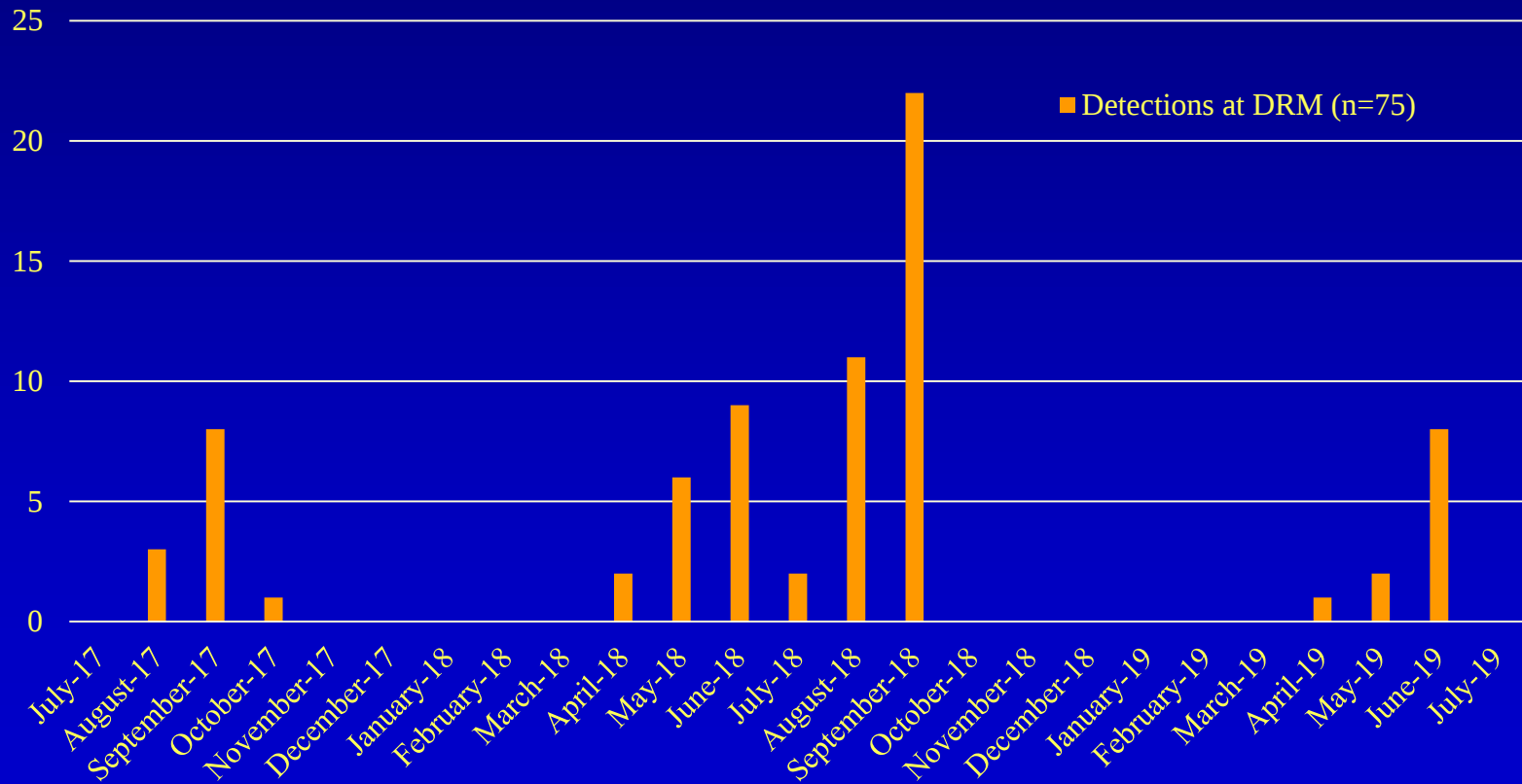
Smallmouth bass

- Snorkel and electrofishing surveys conducted since 2010.
- 2010-2015 captured no bass.
- 2016 to present, fish predominately found in lower 12 miles of river.
- Age 1-7 years, No YOY, No reproduction.
- Fish not present from late summer to early spring.

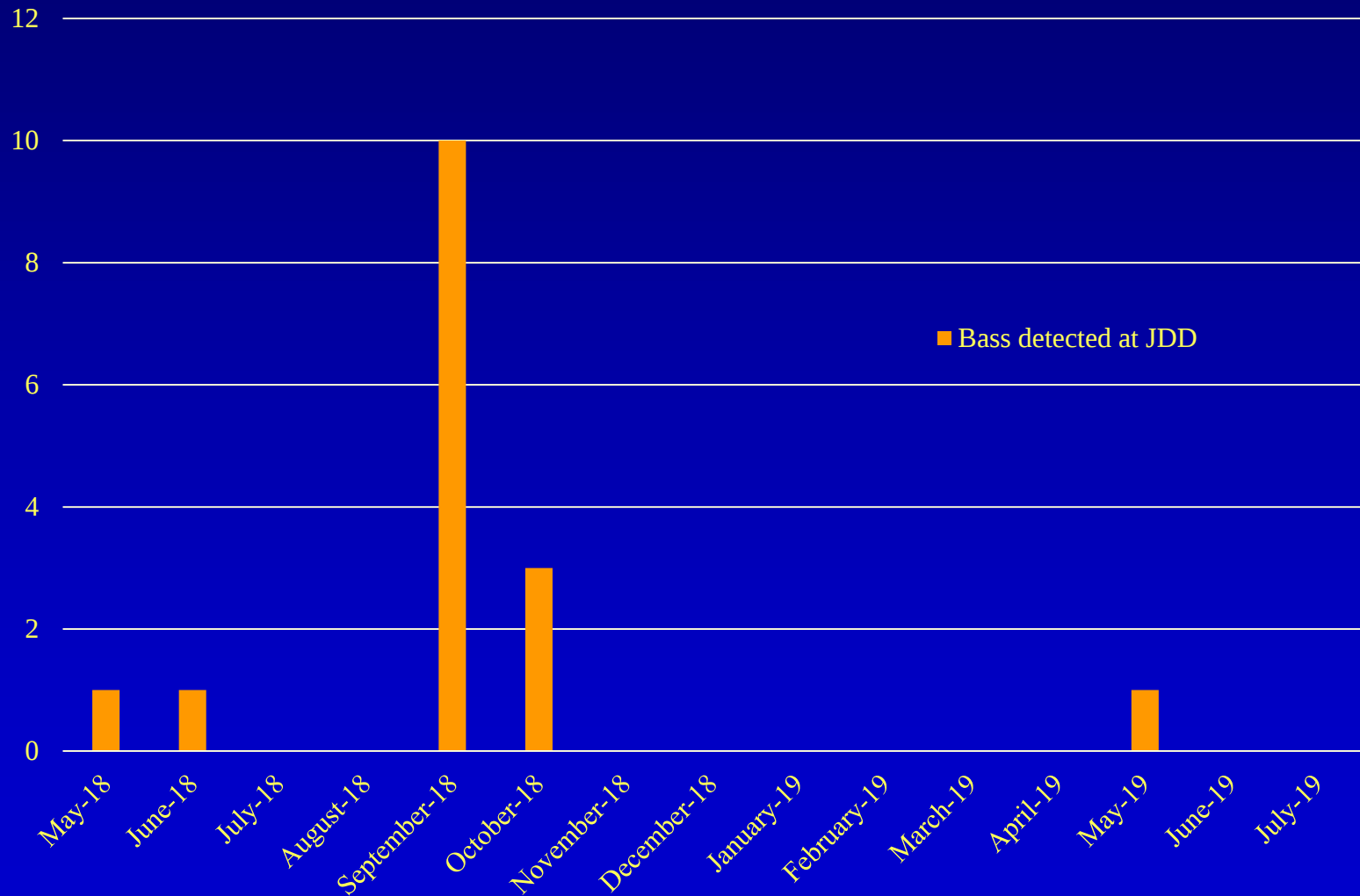
Smallmouth Tagged in Deschutes 2017-2019



Smallmouth Detections at Deschutes River Mouth (DRM) 2017-2019



Smallmouth Detected at John Day Dam 2018-2019



Questions

