

FTR and the Teton River Fishery



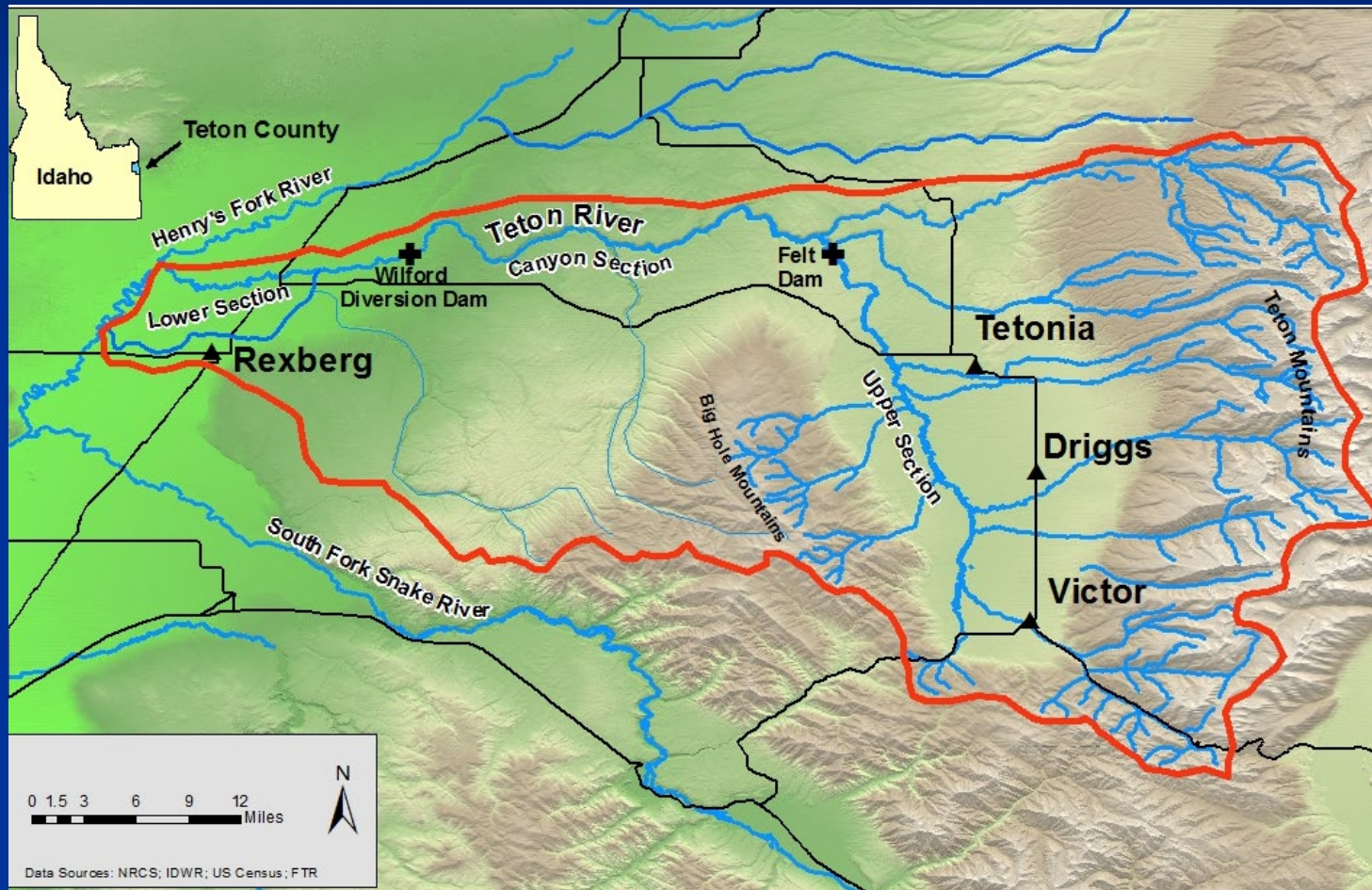
Our Goals

- Determine long-term trout population trends
- Provide the agencies with additional data on the Teton River watershed
- Identify, prioritize and design YCT conservation projects
- Monitor the efficacy of conservation projects

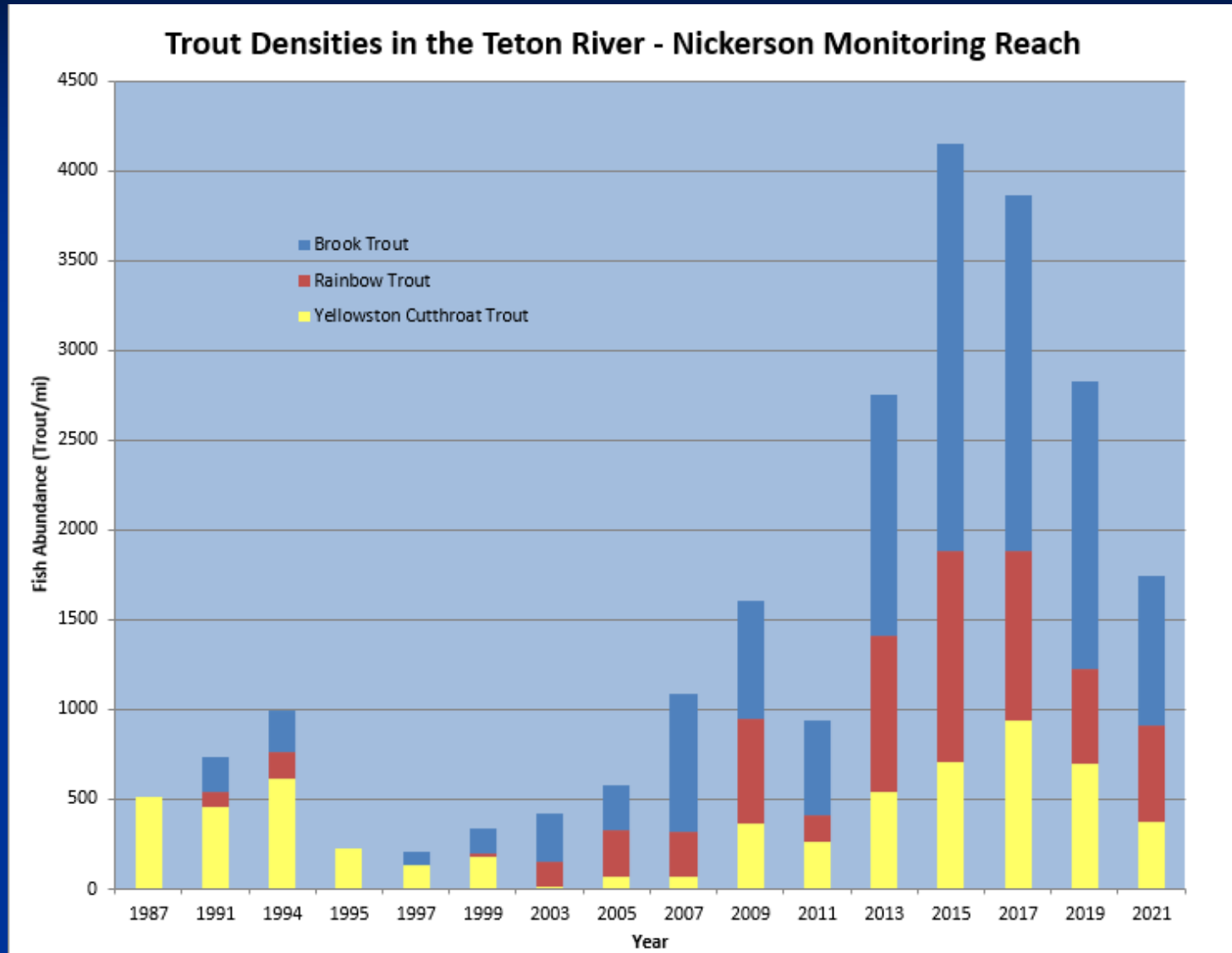


Will Stubblefield Photo

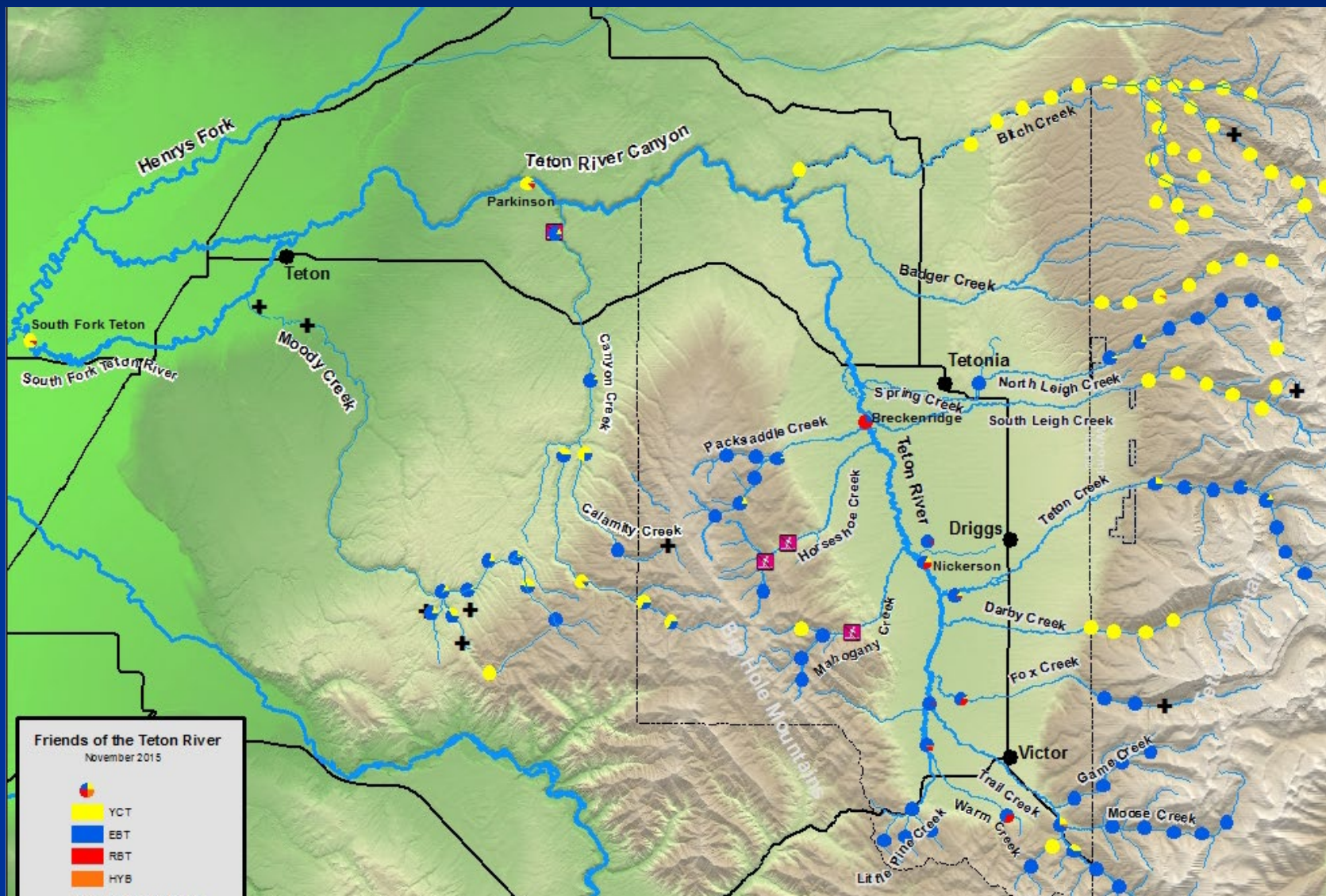
Teton River Watershed



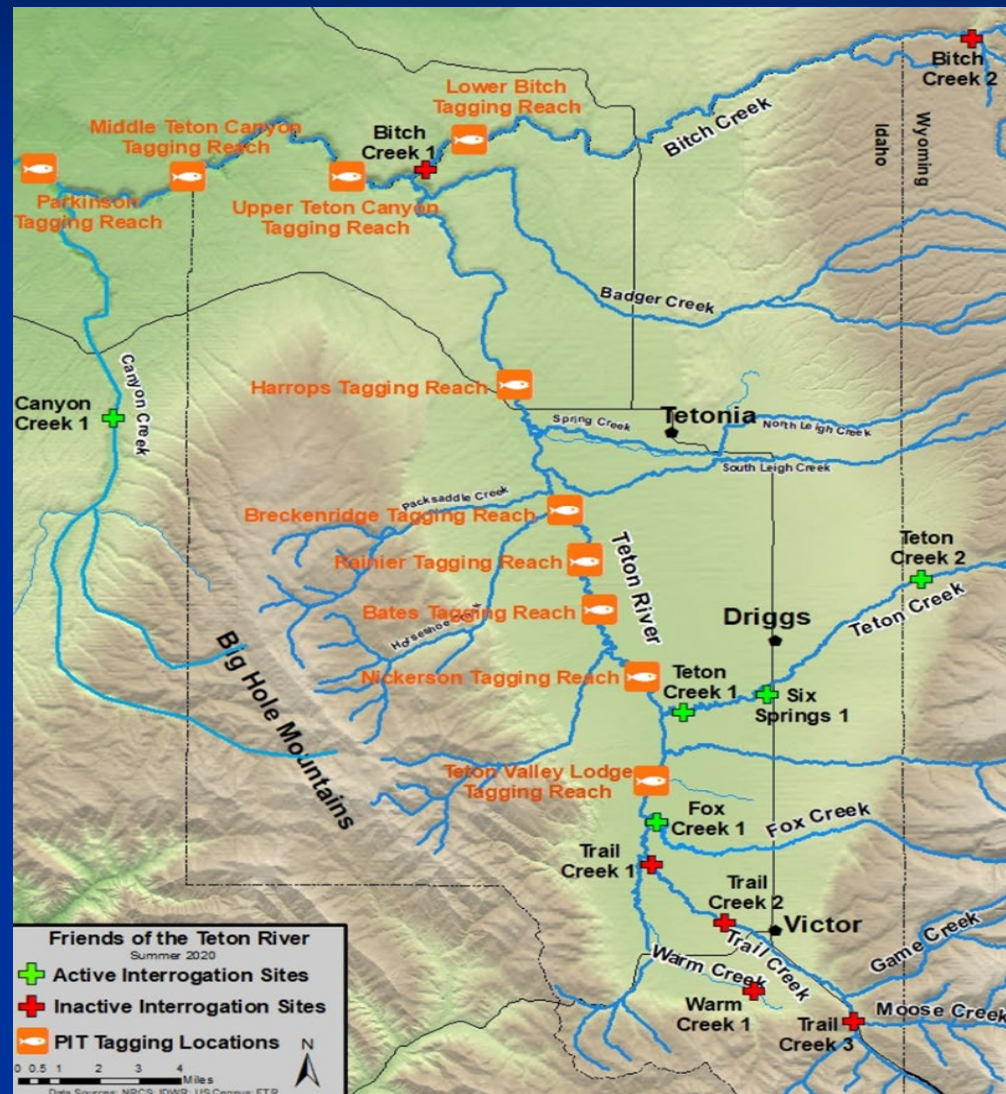
Historic Species Composition



The data and data analysis in this graphic was created by the Idaho Fish and Game Department.

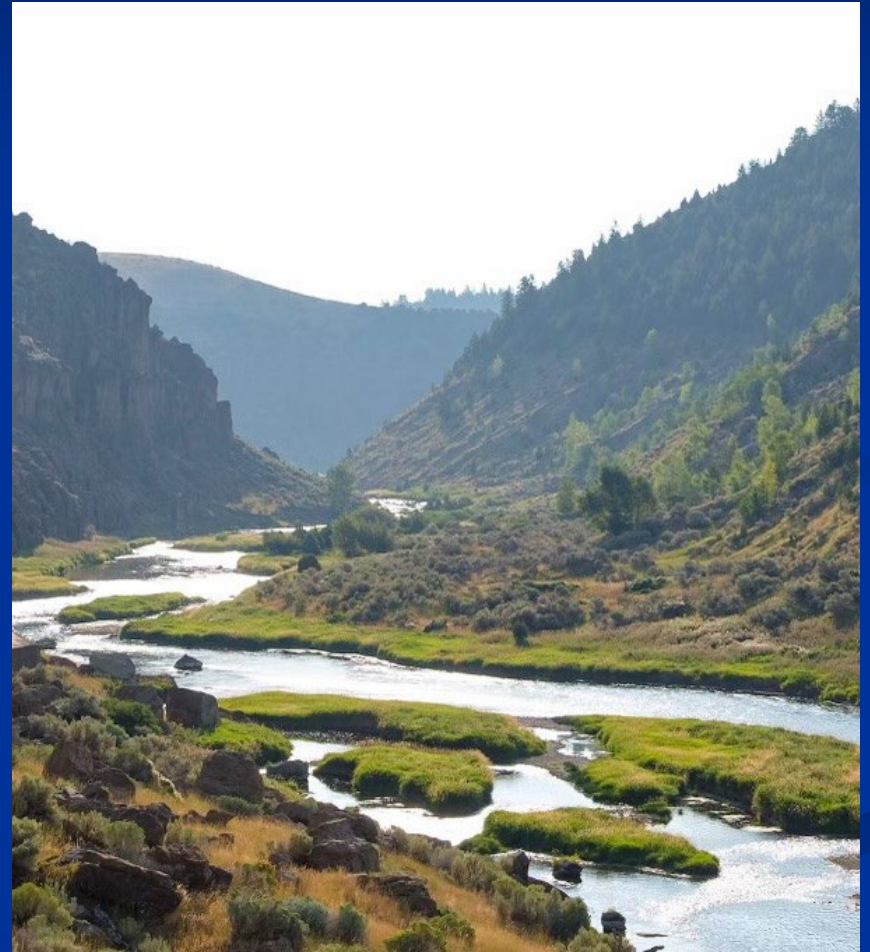


Upper Teton River Survey Sites



Annual Monitoring

- PIT tagging
- PIT tag array maintenance
- YCT Redd Surveys
- Fish Screen operation
- Electrofishing surveys



Will Stubblefield Photo

PIT Tagging

- Over 5,000 fish have been PIT tagged in the watershed
- Tags monitor fish movements and effectiveness of watershed restoration
- 471 trout tagged in the watershed during 2021 IDFG surveys

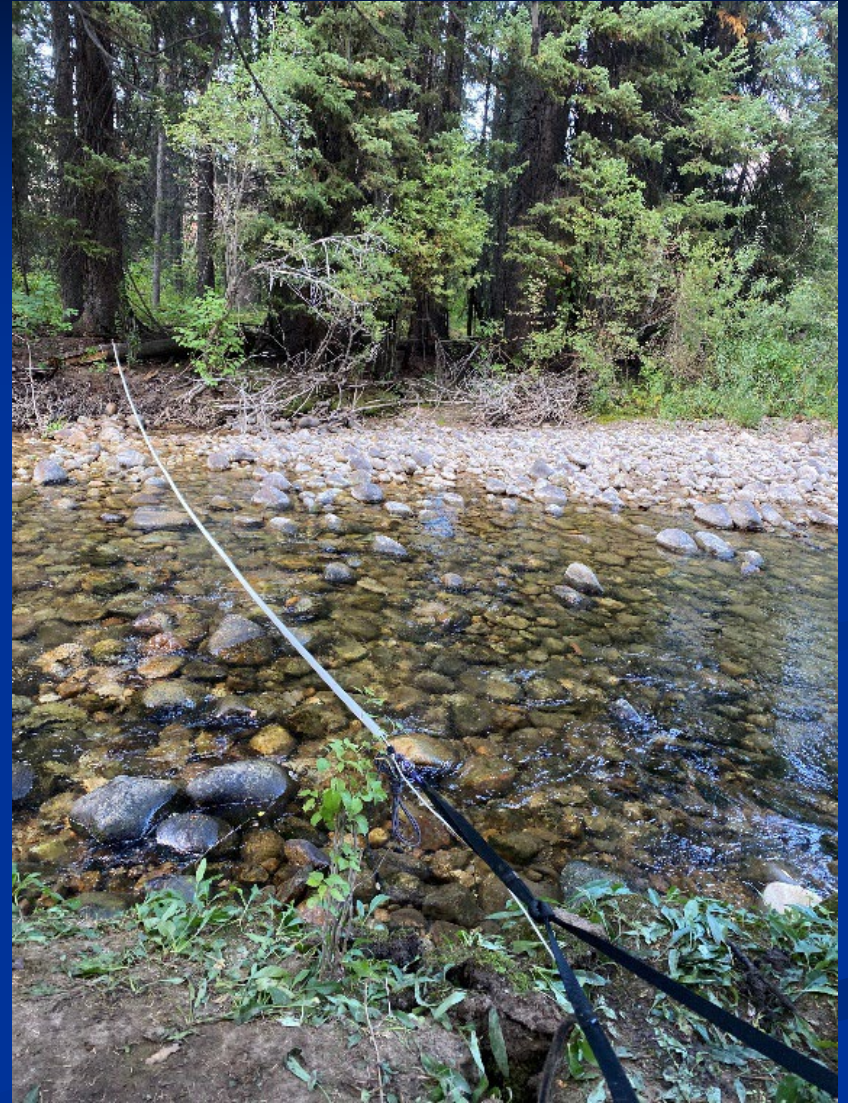


PIT Array Maintenance





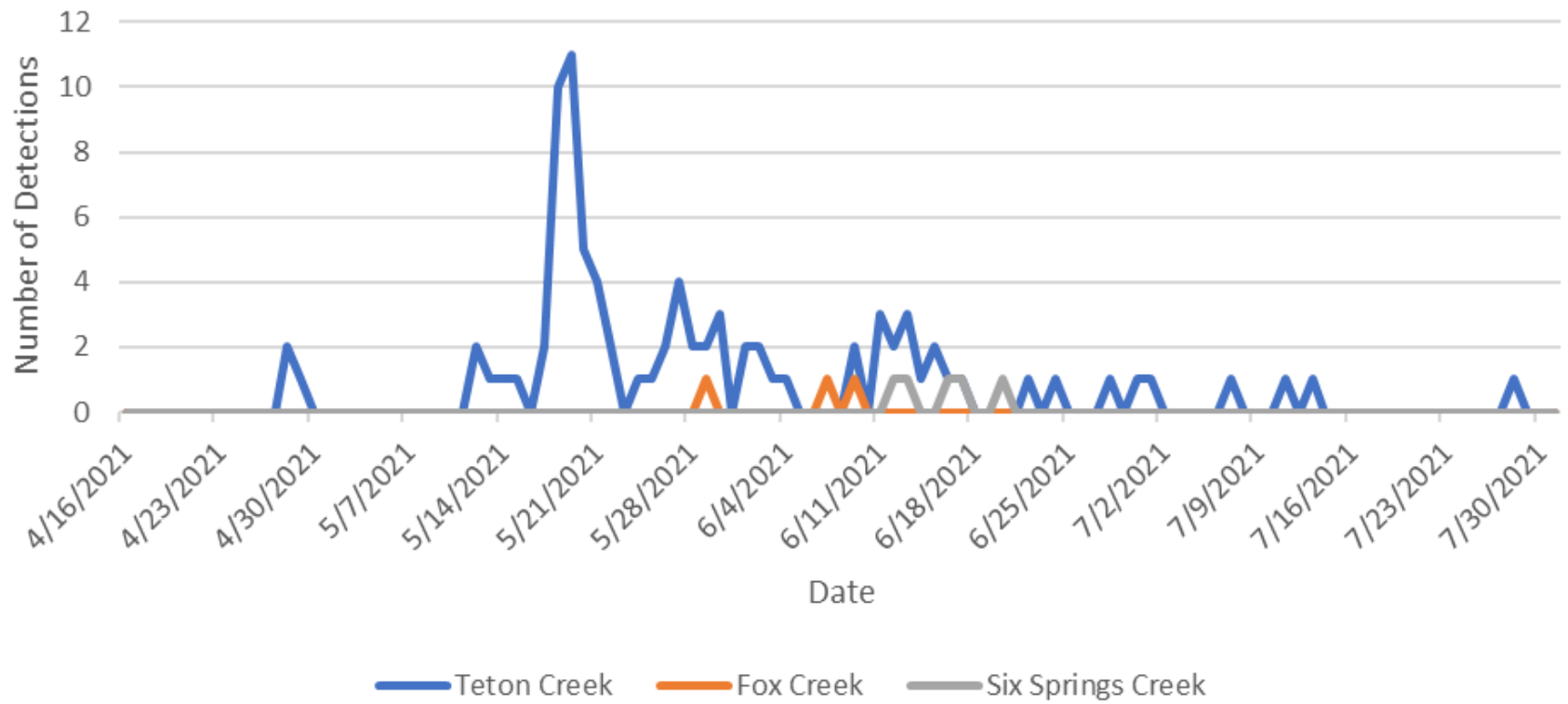
Before



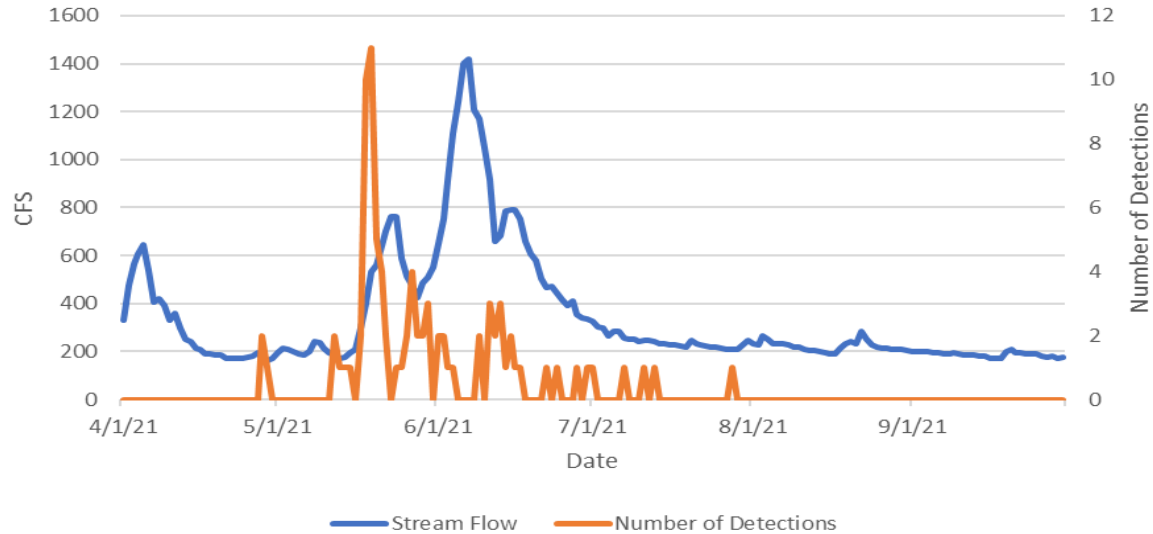
After

PIT Array Findings

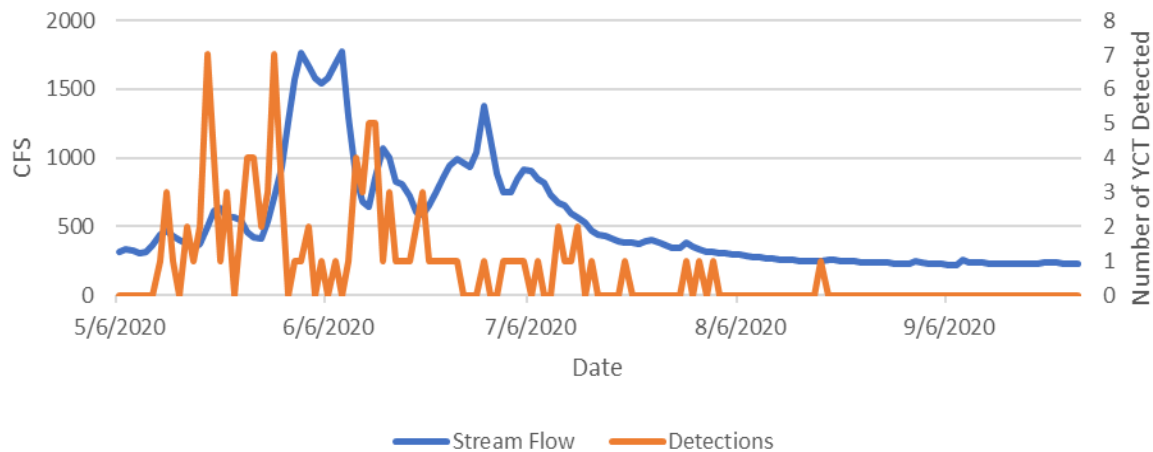
2021 YCT Returns by Stream



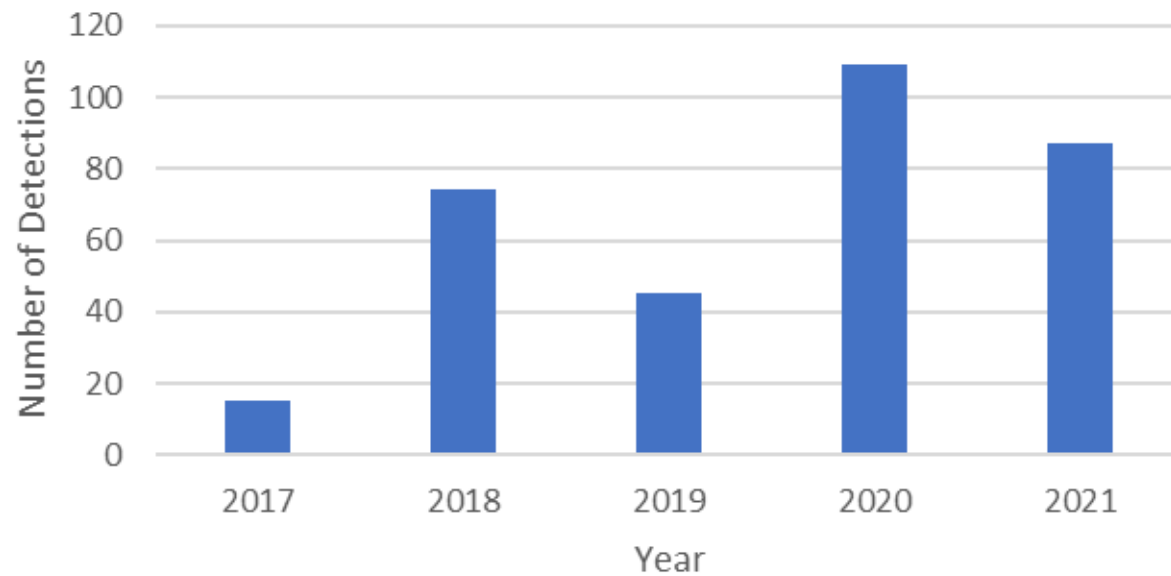
2021 Teton Creek YCT Returns Vs. Teton River Flows



2020 Teton Creek YCT returns Vs. Teton River Flows

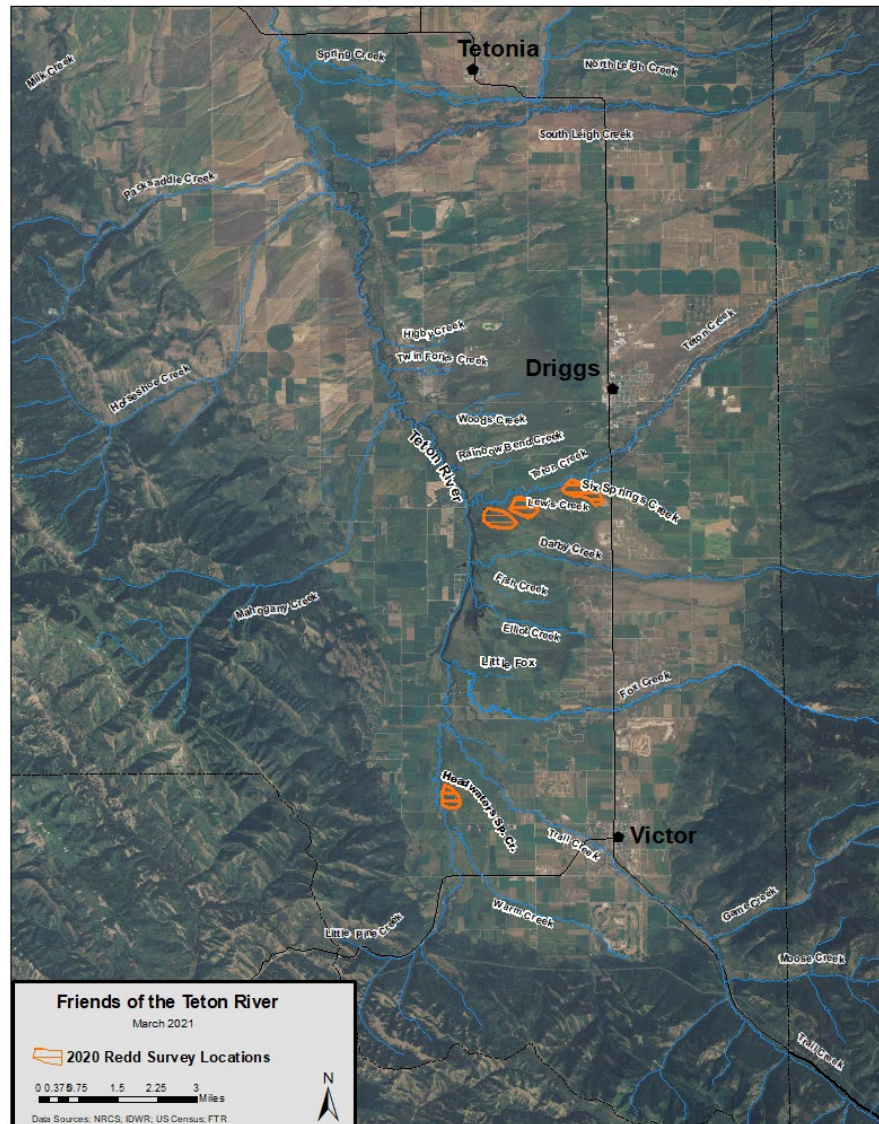


Number of Unique YCT Detections at Teton Creek



Redd Surveys

Redd Surveys on the Upper Teton River 2020



Warm Creek Restoration Study



Nickerson Reach Pop. Est.

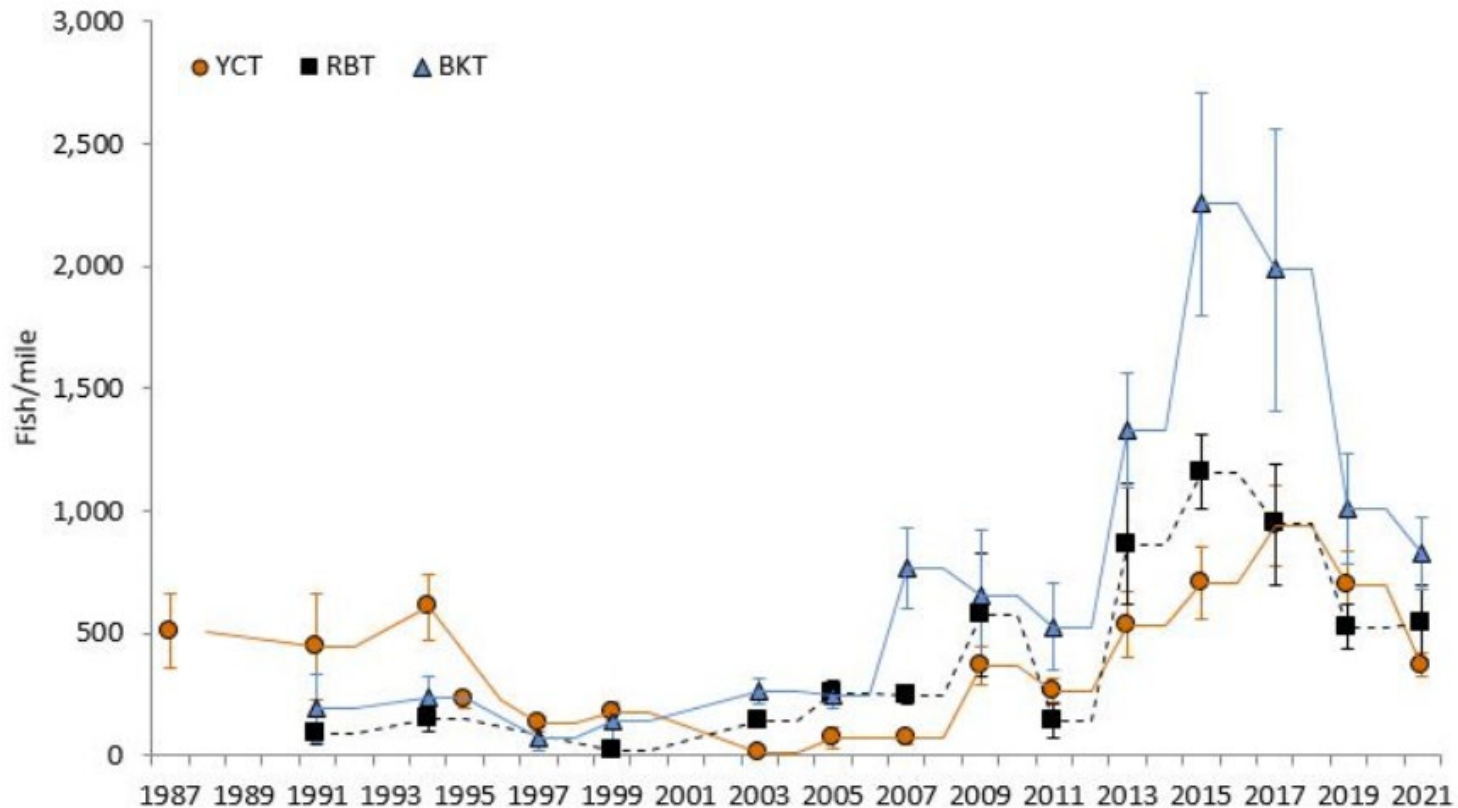


Figure 1. Abundance estimates and 95% confidence intervals from 1987 through 2021 for trout in the Nickerson monitoring reach, Teton River. YCT = Yellowstone Cutthroat Trout, RBT = Rainbow Trout, and BKT = Brook Trout.

South Fork Teton Pop. Est.

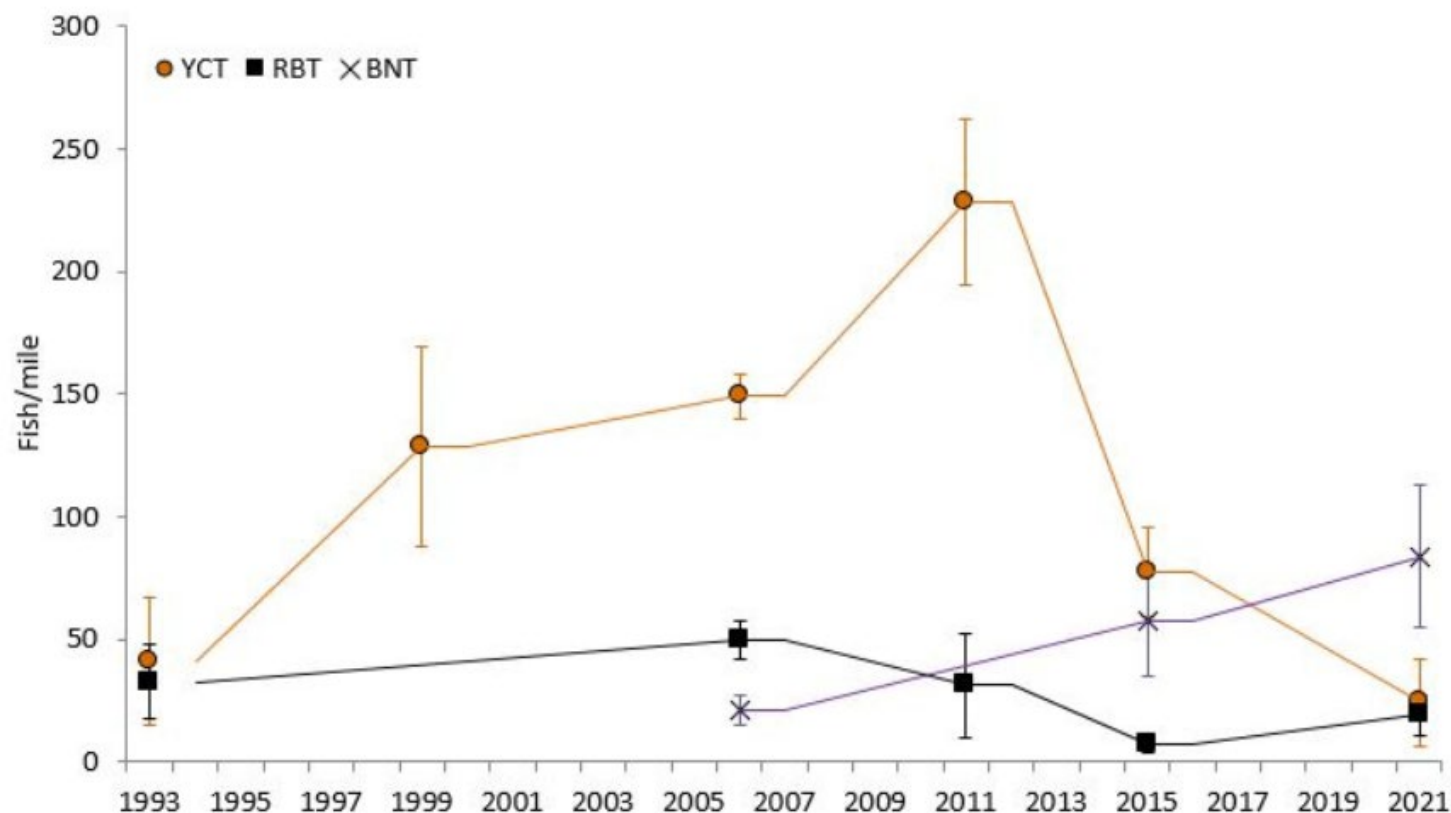


Figure 3. Abundance estimates and 95% confidence intervals from 1993 through 2021 for trout in the South Fork Teton River monitoring reach. YCT = Yellowstone Cutthroat Trout, RBT = Rainbow Trout, and BNT = Brown Trout.

 Jenn Vincent, IDFG

The data, graph, and data analysis in this graphic was created by the Idaho Fish and Game Department.

Breckenridge Reach Pop. Est.

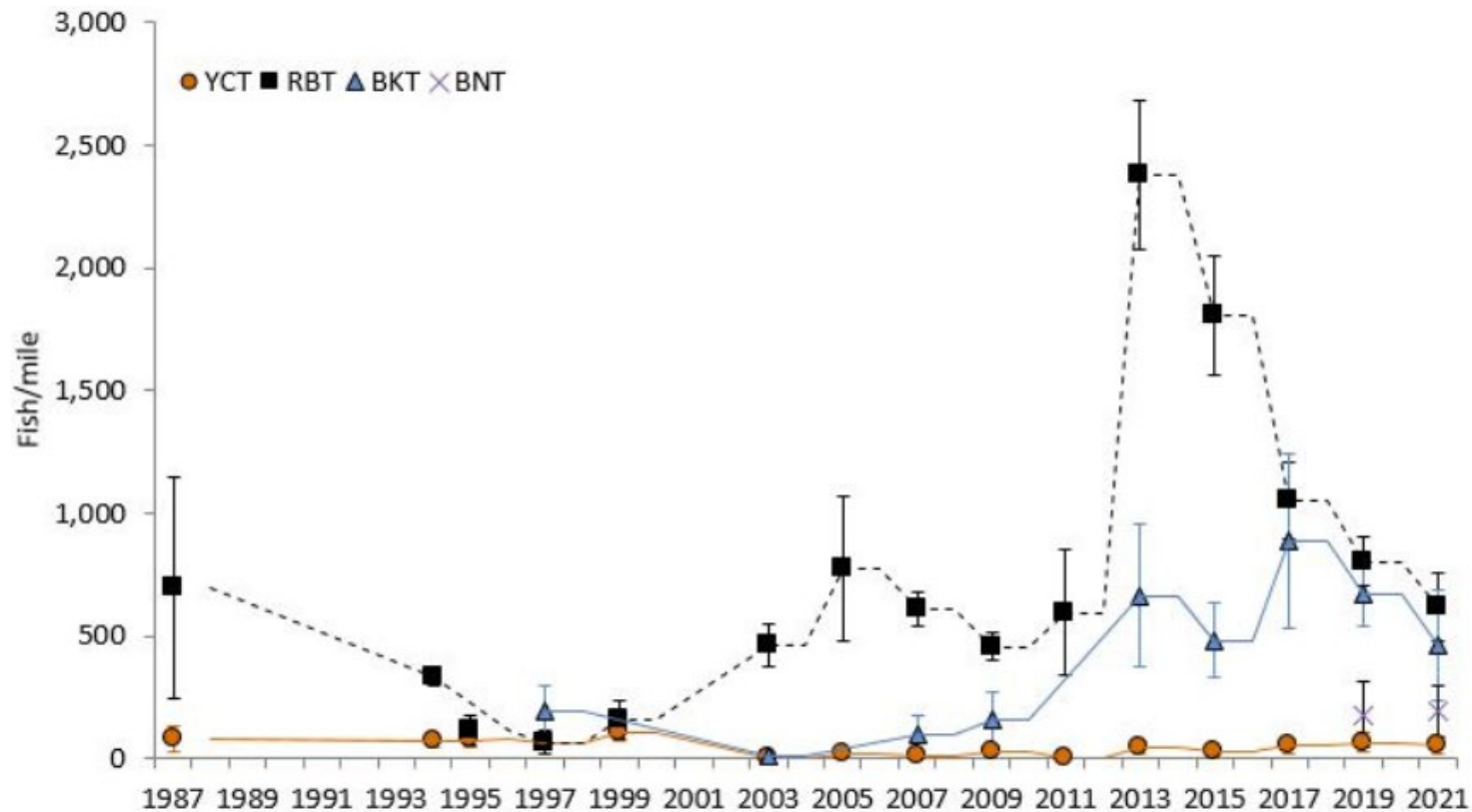
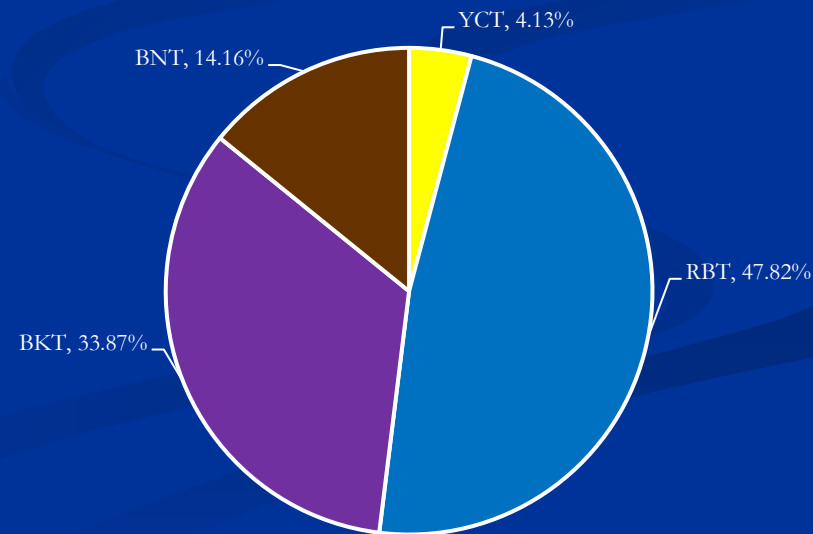
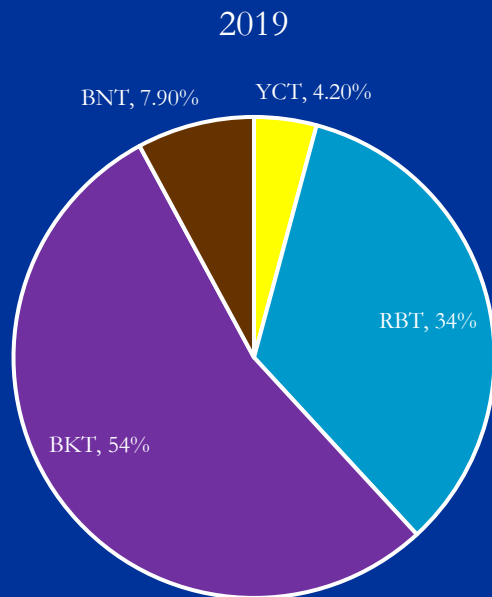
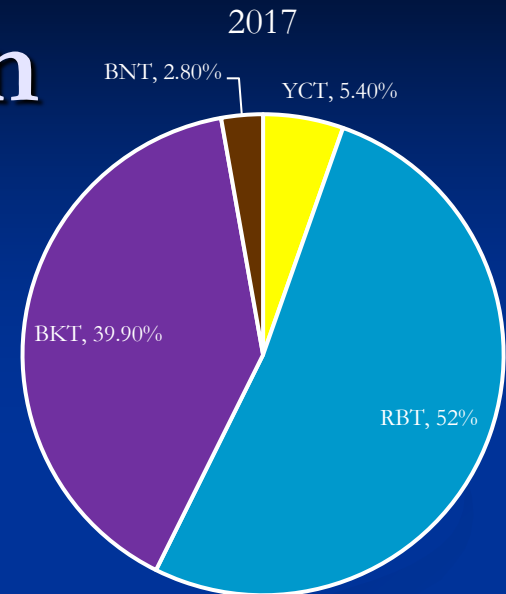
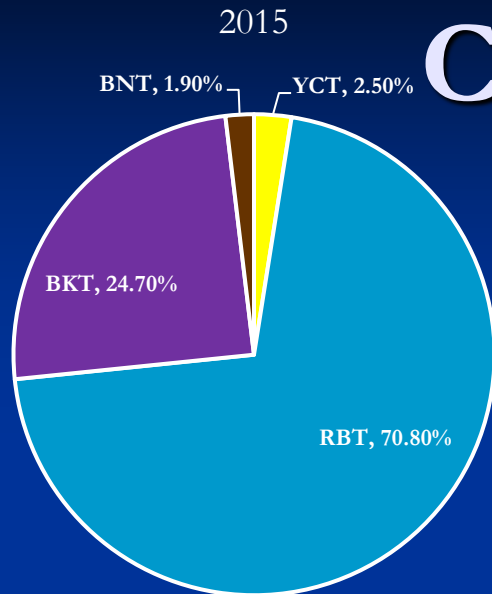


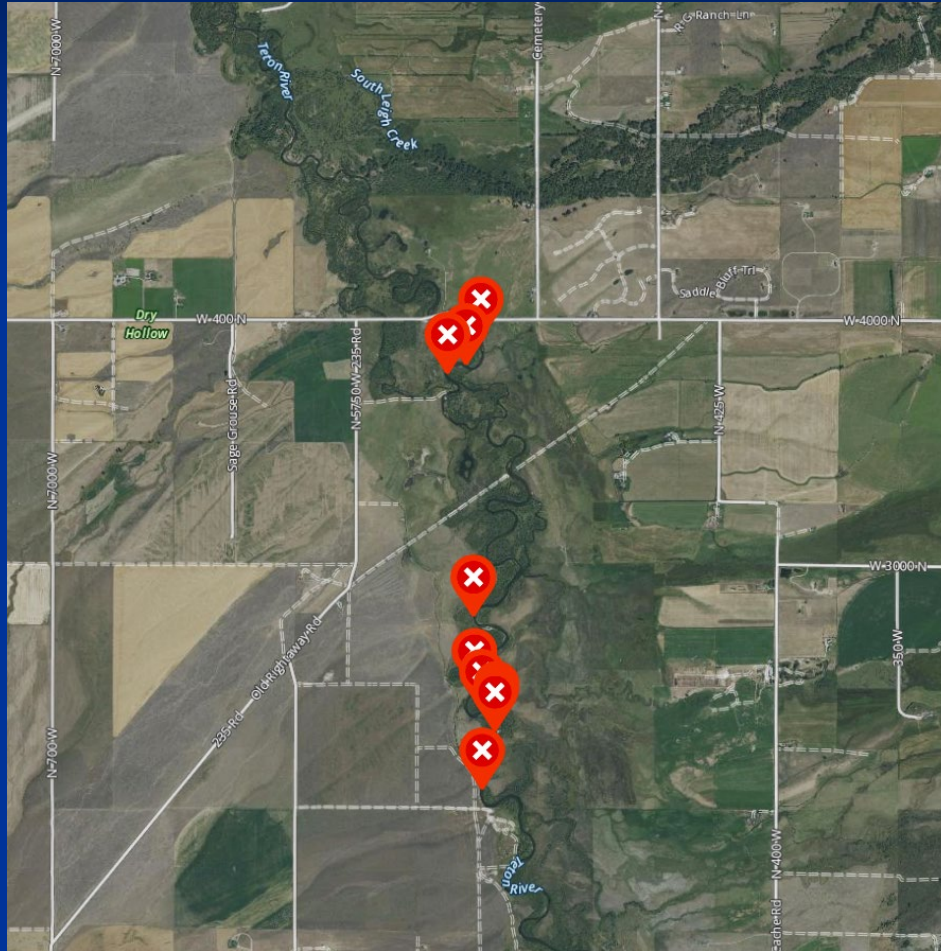
Figure 2. Abundance estimates and 95% confidence intervals from 1987 through 2021 for trout in the Breckenridge monitoring reach, Teton River. YCT = Yellowstone Cutthroat Trout, RBT = Rainbow Trout, BKT = Brook Trout, and BNT = Brown Trout.

Breckenridge Species Composition



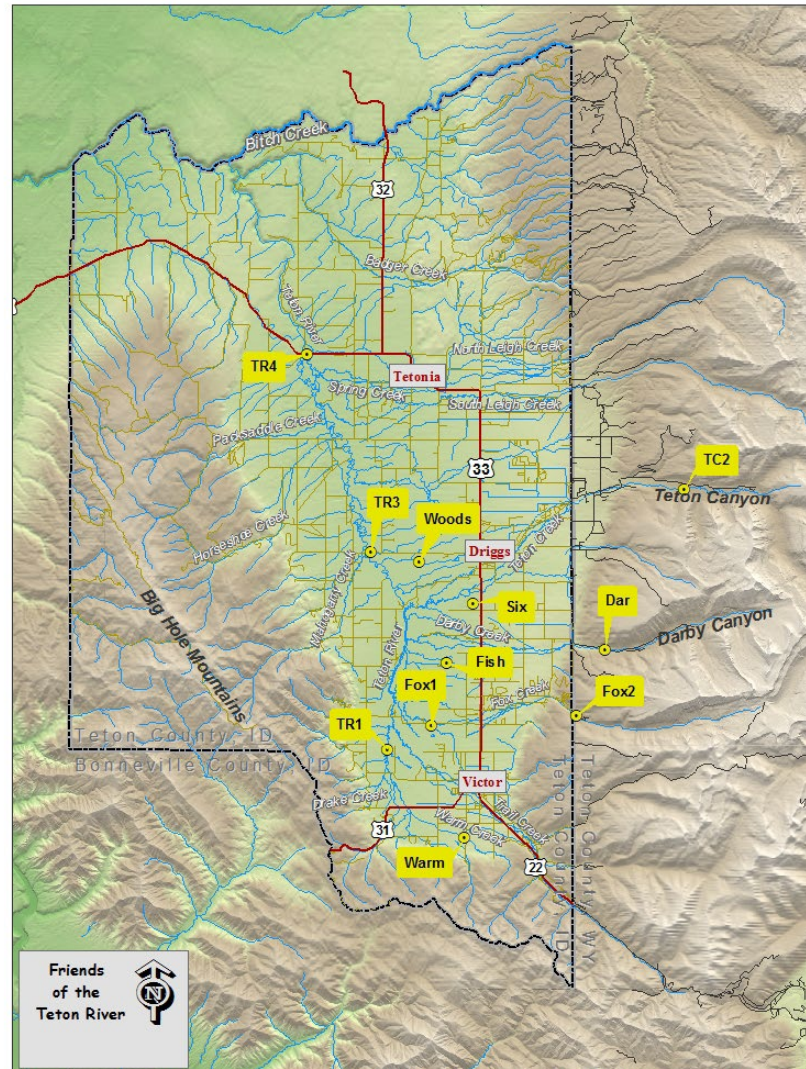
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2021 Brown Trout Redds



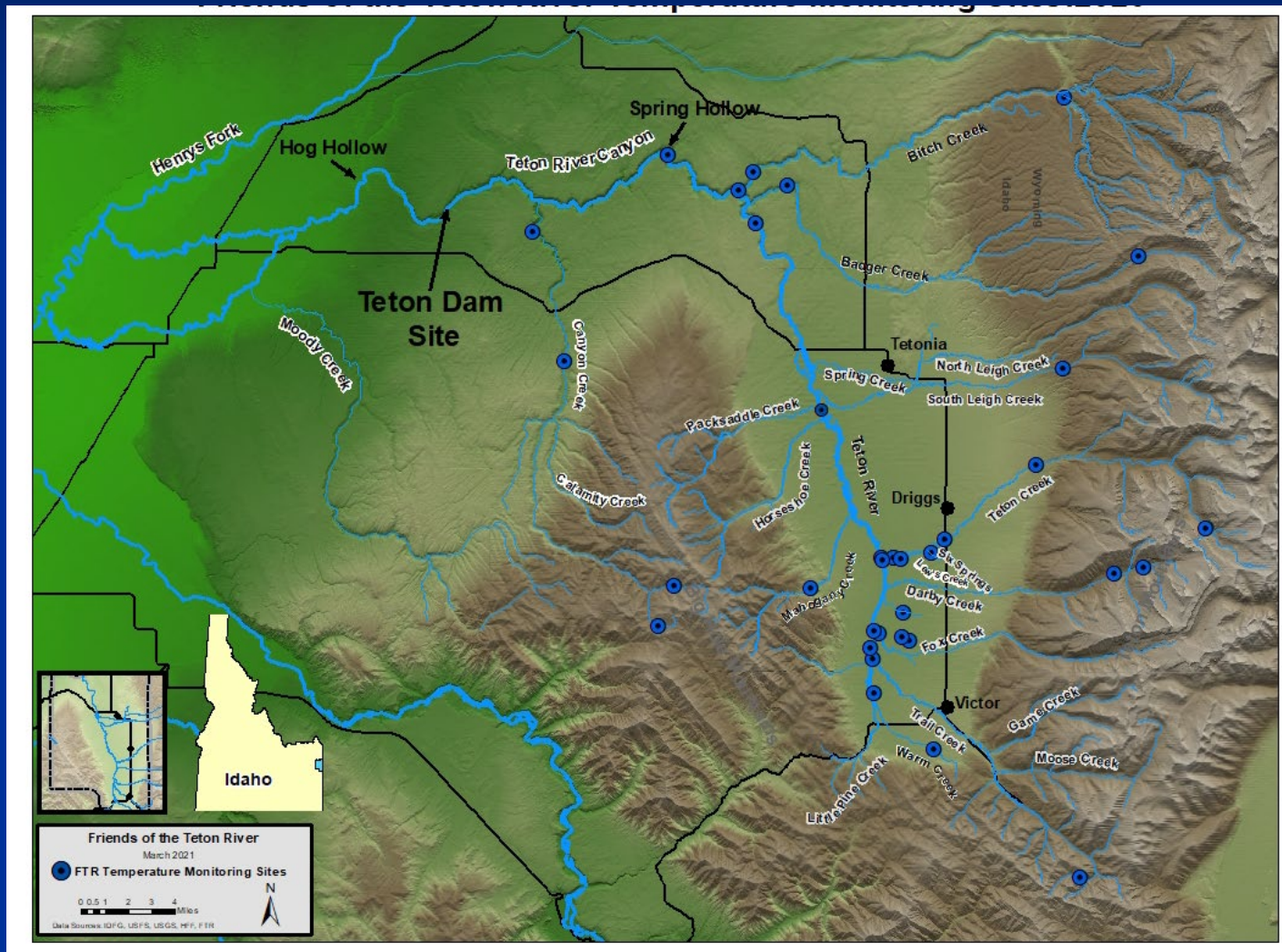
In October of 2021 FTR conducted our first successful raft based BNT redd survey between Rainey (Big Eddy) and Packsaddle Bridge

Water Quality Monitoring



Background image courtesy of the Environmental Management Research Center. Other Data Sources: US Census and Friends of the Teton River. Map Design: Doug Self

Stream Temperature Monitoring



Genetic Sample Collection

- Electrofishing and Rod and Reel collection methods
- FTR is developing genetic divergence and hybridization studies



2022 Field Season

- eDNA study to determine extent of BNT in the Teton
- Warm Springs Creek and Lower Badger native YCT restoration
- PIT tag site upgrades
- BNT redd surveys
- Instantaneous Stream Monitoring
- Annual Monitoring

Thank You



Will Stubblefield Photo

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