



## SOUTH FORK REPUBLICAN RIVER

Stream Surveys 2018

Briefing report of 2018 stream surveys completed by CPW  
Southeast Region Aquatics, Native Aquatic Species Team.

Paul Foutz, Native Aquatic Species Biologist

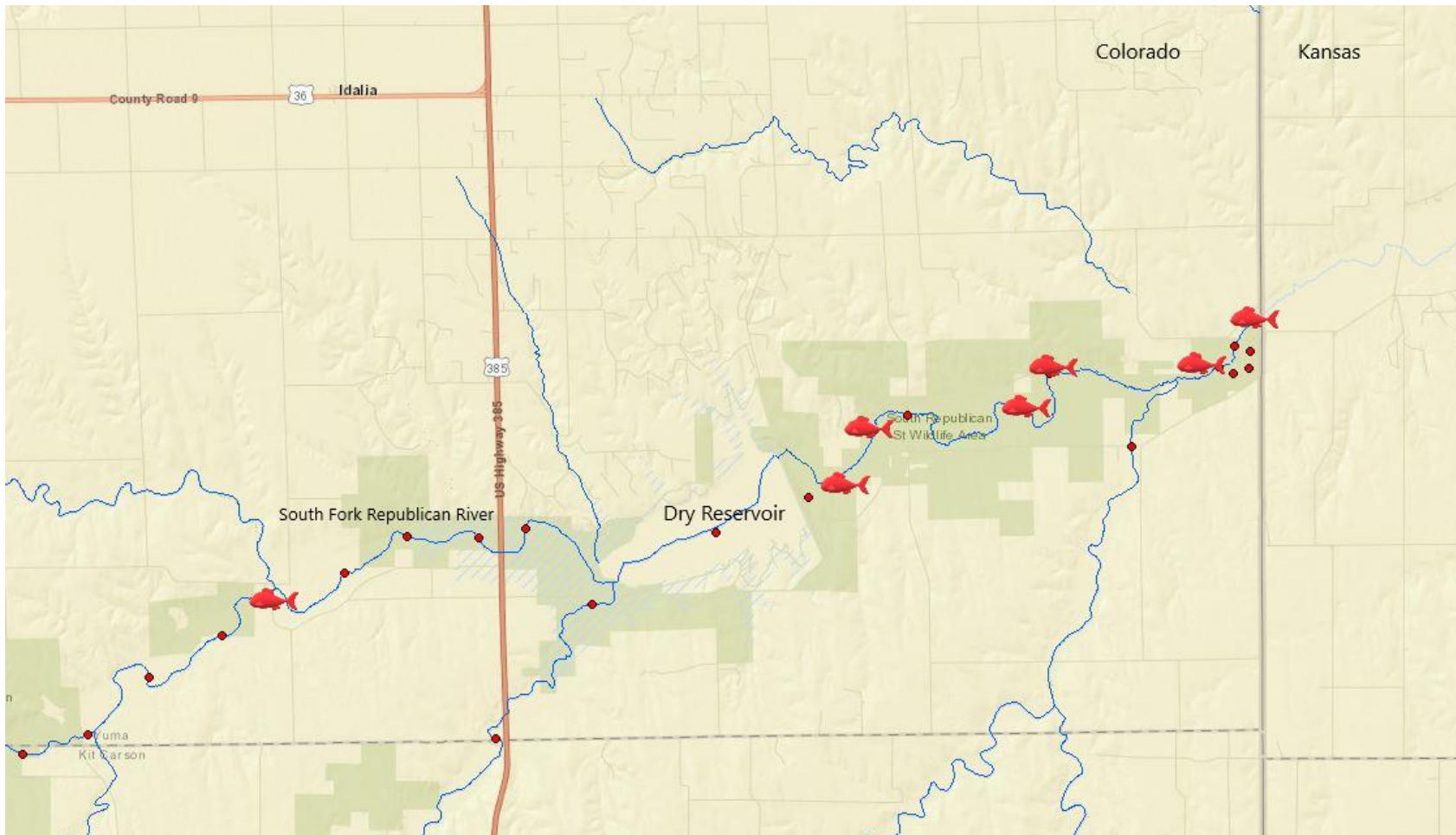


# South Fork Republican River

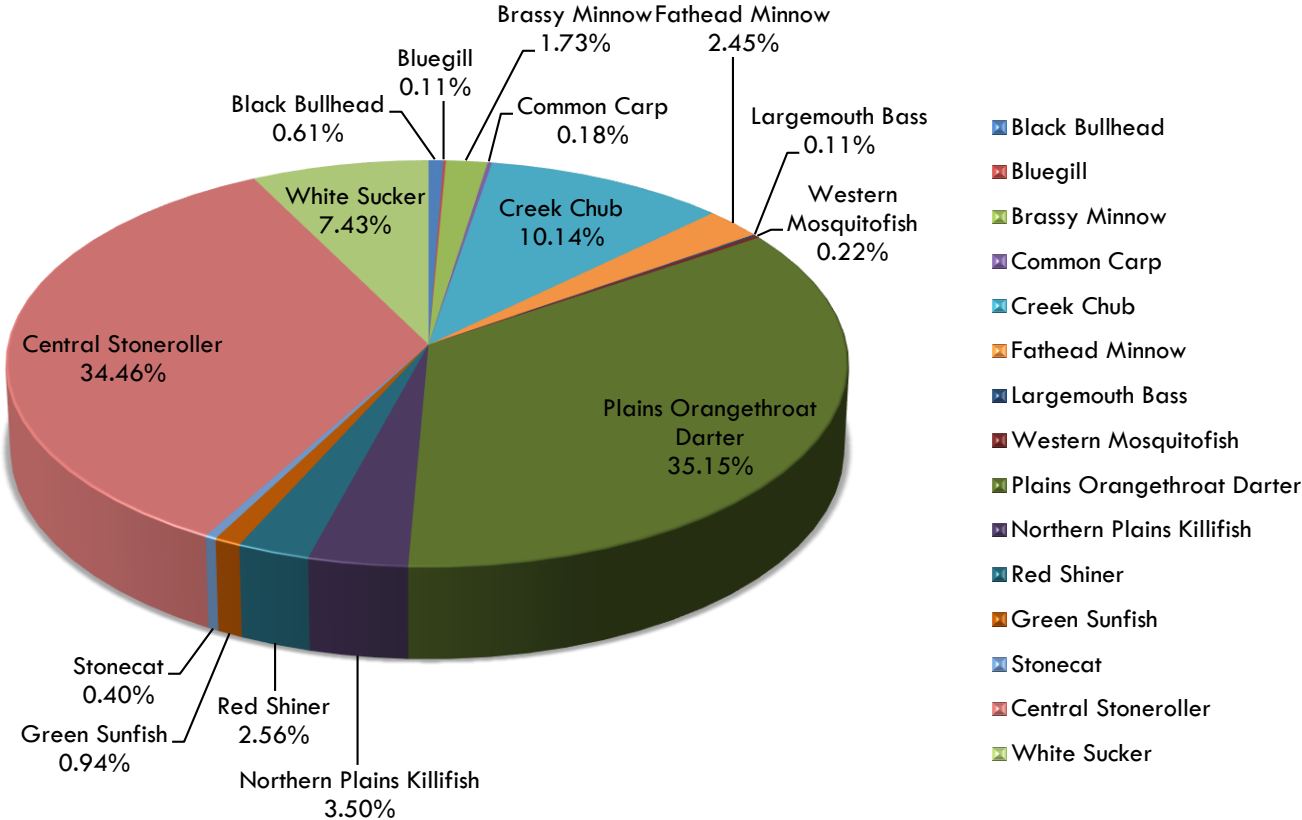
STREAM SURVEYS 2018

## OVERVIEW

CPW completed seven (7) stream surveys on the South Fork Republican River in 2018.

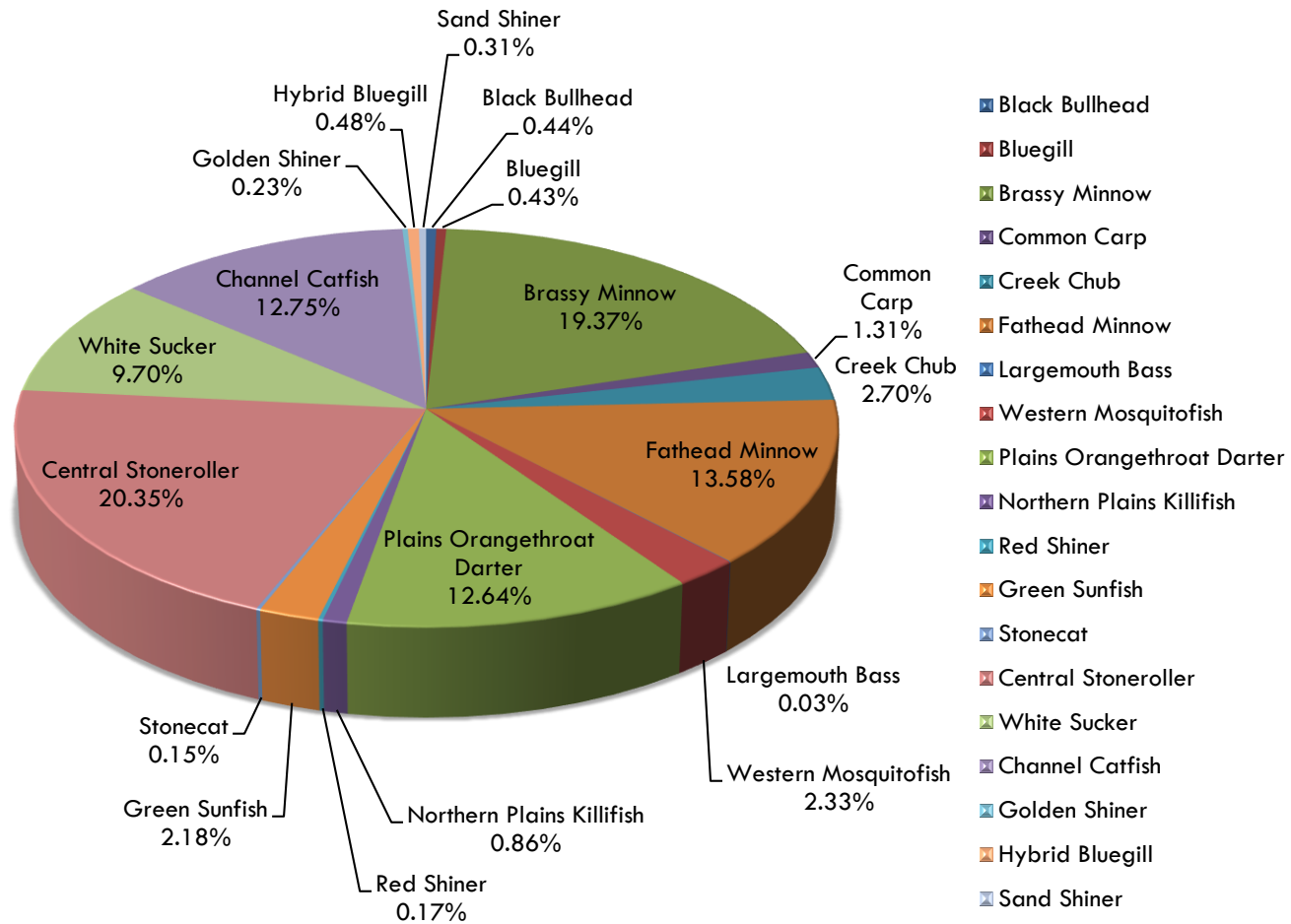


# South Republican River - Historic Species Composition



Historical Data, Composite Profile across all 2018 sites localities (data ranging from 1999-2012)

## South Republican River - Species Composition 2018



2018 Data; Composite Profile across all 2018 sites localities.

## Briefing Notes:

- 2018 stream surveys on South Fork Republican River were done using a 3 pass method (e-fishing, seining, 3<sup>rd</sup> pass using most effective method).
  - One survey site used a single e-fishing pass only (fishes were collected in large numbers, now allowing for further sampling on the same day).
- The most recent historic data (utilizing the same sampling methods as 2018 surveys), was used for the historic species composition chart.
- High biodiversity of fishes (multiple species) was observed across all 2018 survey sites, while numbers of individual fishes per species was highly variable from site to site (sometimes only a single or few individuals were representative of a species occurrence).
- The highest number fishes for a single pass was collected 1.1 km above the C.R. LL.5 bridge.
  - 681 brassy minnow, along with 298 plains orange throat darter, and 653 fathead minnow contributed to the total catch of 1,934 fishes.
  - This site is above the upper terminus of the 2015 fish kill.
- Numbers of fishes found to the east of C.R. LL.5 bridge appeared to be less numerous.
- Non-native fish species appeared in the highest number at the site just downstream of the dry Bonny Reservoir bed (these are still likely remnants of the 2011 draining event).

**This document was developed to share preliminary survey information. CPW may be completing further analysis and more detailed reports of this data. Future reports and information may be available upon request (from: [paul.foutz@state.co.us](mailto:paul.foutz@state.co.us)). CPW aquatic data requests (from: [andrew.treble@state.co.us](mailto:andrew.treble@state.co.us)).**

