



Environmental Surveillance and Oversight Program

Savannah River Monitoring
Contaminants and Findings

Presented by Beth Cameron



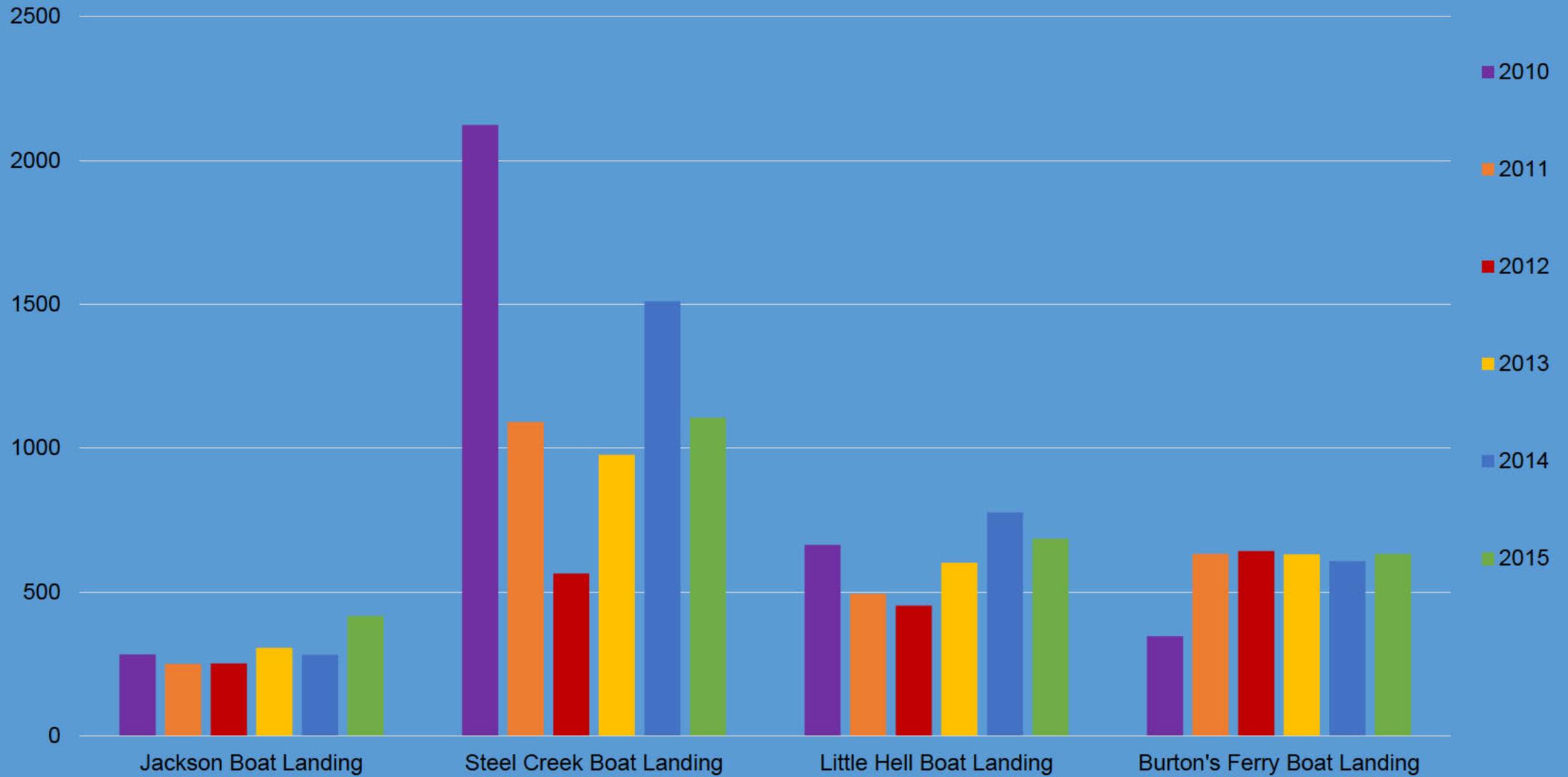
Radiological Monitoring of Savannah River

- Tritium
- Gross Alpha/Beta
- Gamma

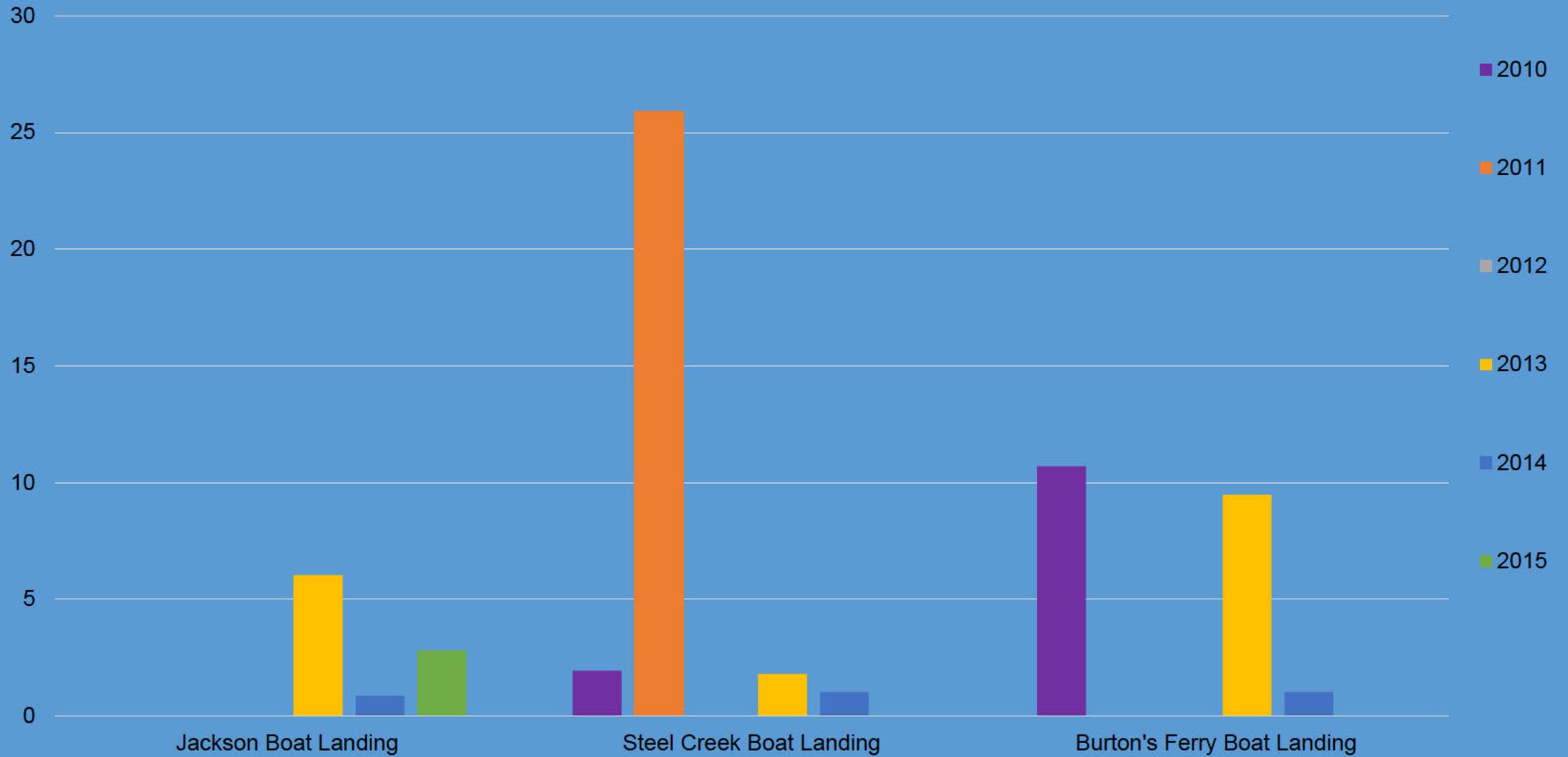
Radiological Surface Water Sampling Locations



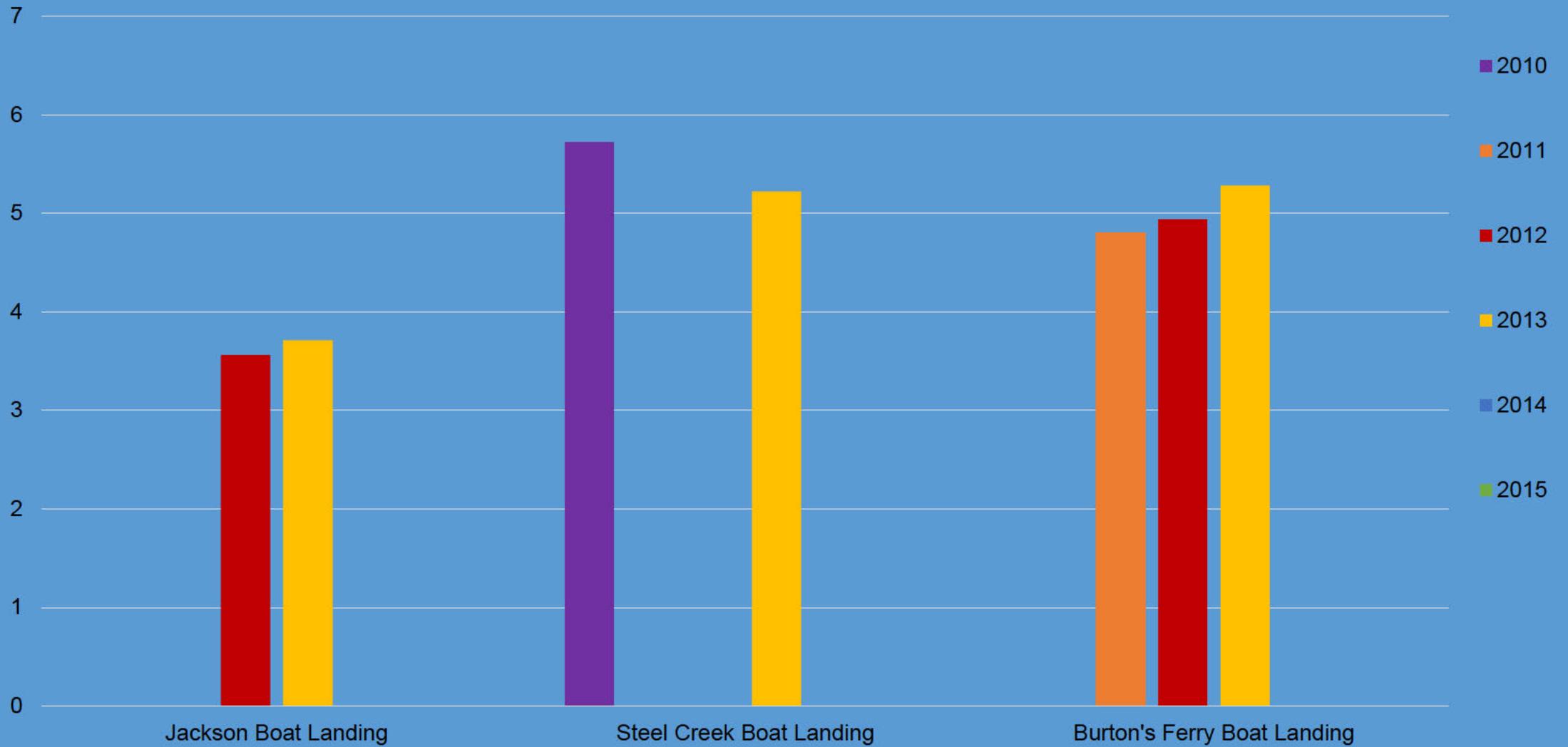
Tritium in the Savannah River



Alpha in the Savannah River



Beta in the Savannah River



Non-Radiological Monitoring of Savannah River

- Sampling done on site streams only
- No river sampling performed
- Results are comparable to other waters of the state

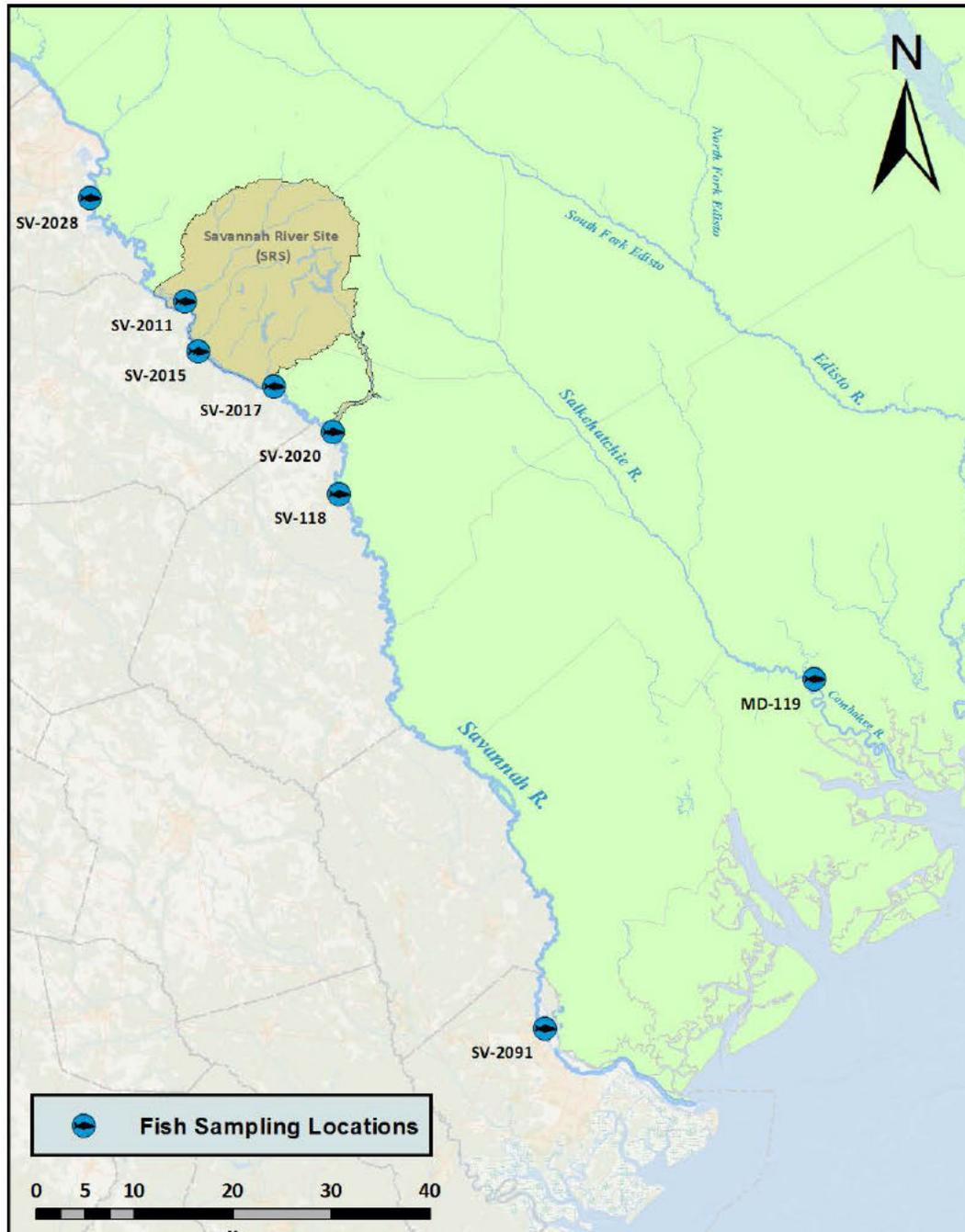
Non-Radiological Monitoring of Savannah River Sample Parameters

- Temperature
- pH
- Dissolved Oxygen
- BOD
- Total Suspended Solid
- Turbidity
- Fecal Coliform
- Ammonia
- Nitrate/Nitrite
- Phosphorus
- TKN
- Alkalinity
- Cadmium
- Chromium
- Copper
- Iron
- Mercury
- Manganese
- Nickel
- Lead
- Zinc
- VOCs
- Pesticides
- PCBs

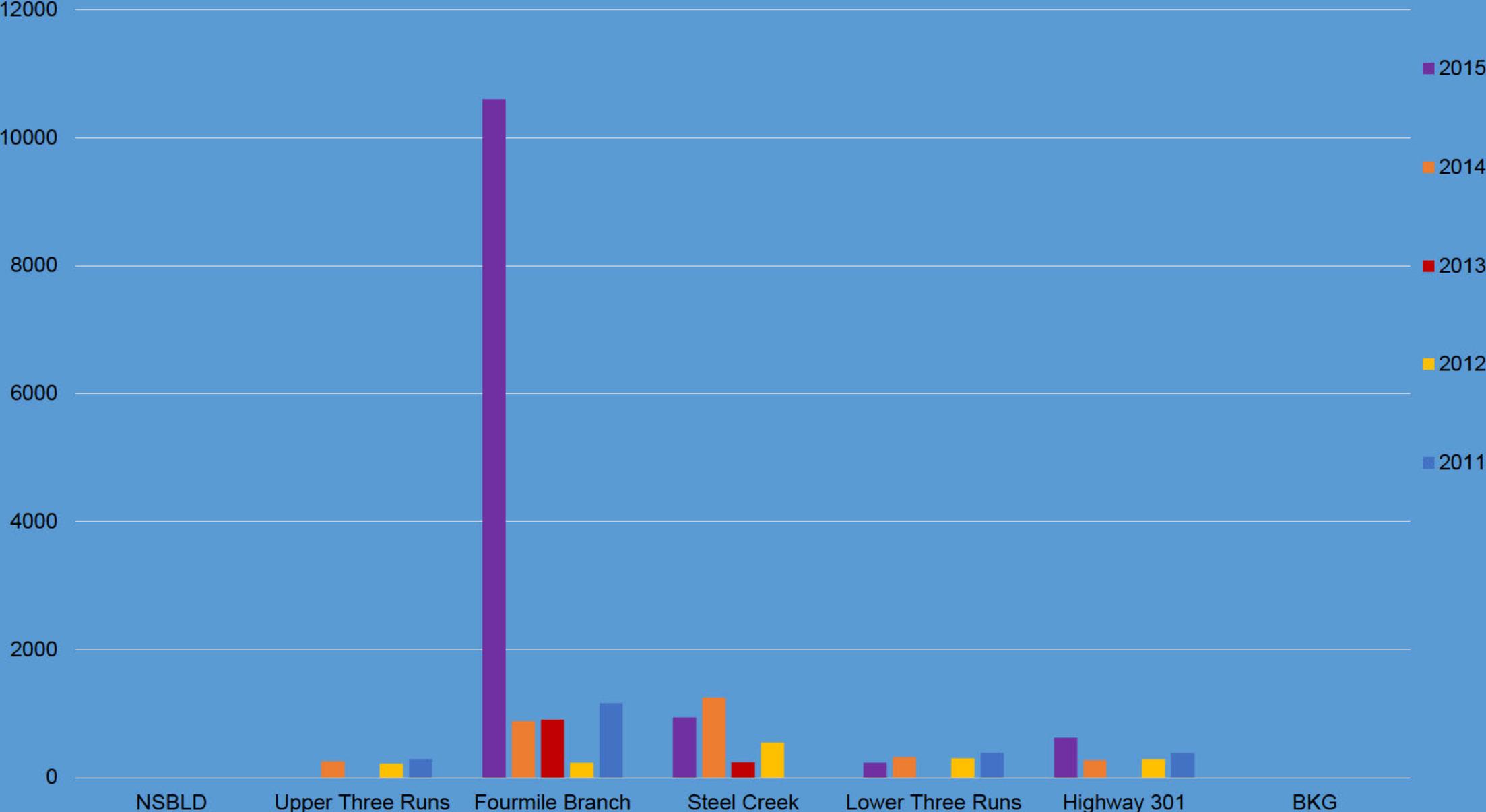
Fish Monitoring on the Savannah River

- Tritium
- Cesium-137
- Strontium 89/90
- Mercury
- Antimony
- Arsenic
- Cadmium
- Manganese
- Chromium
- Copper
- Lead
- Nickel
- Zinc

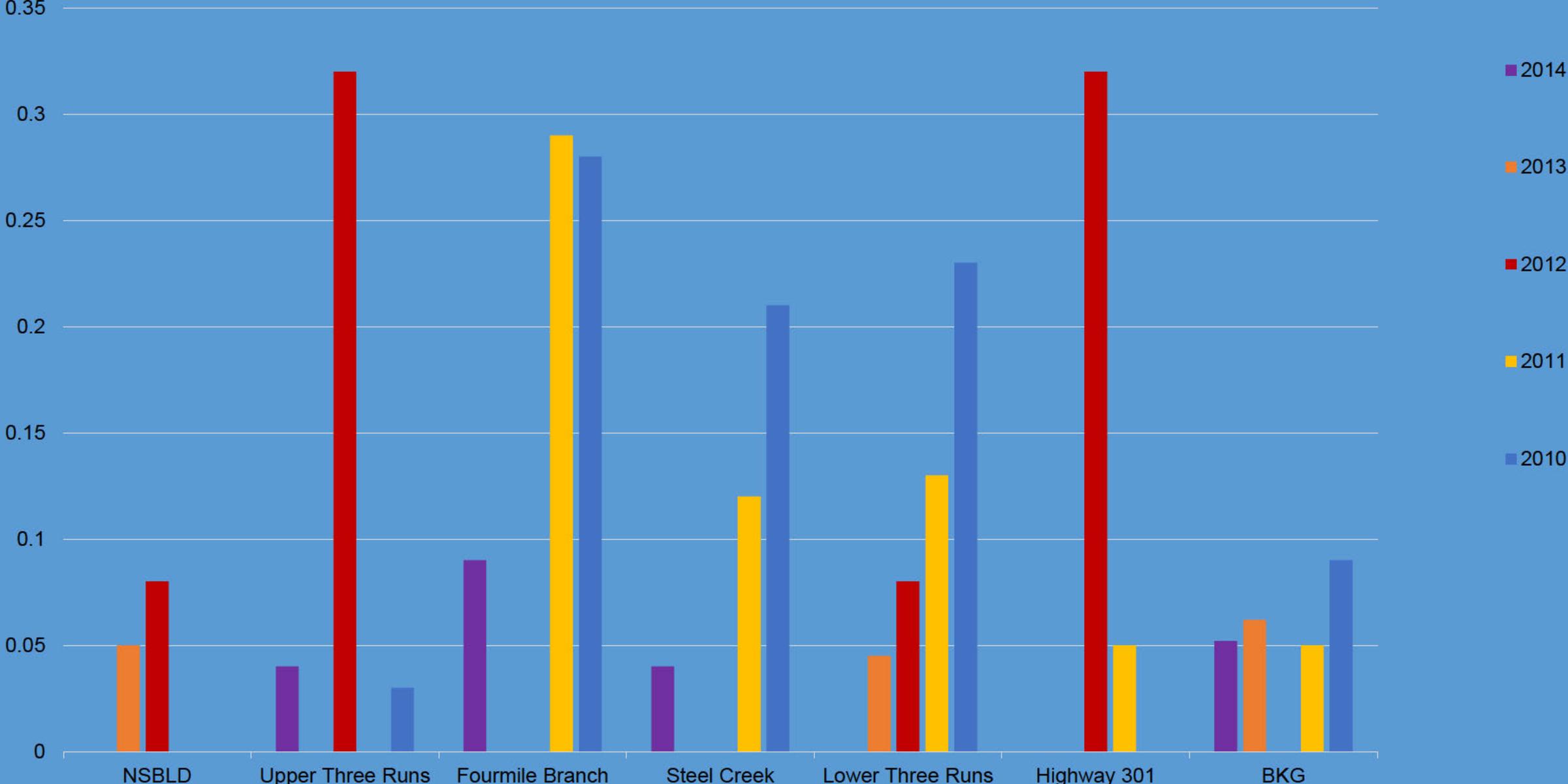
Fish Monitoring Associated with SRS



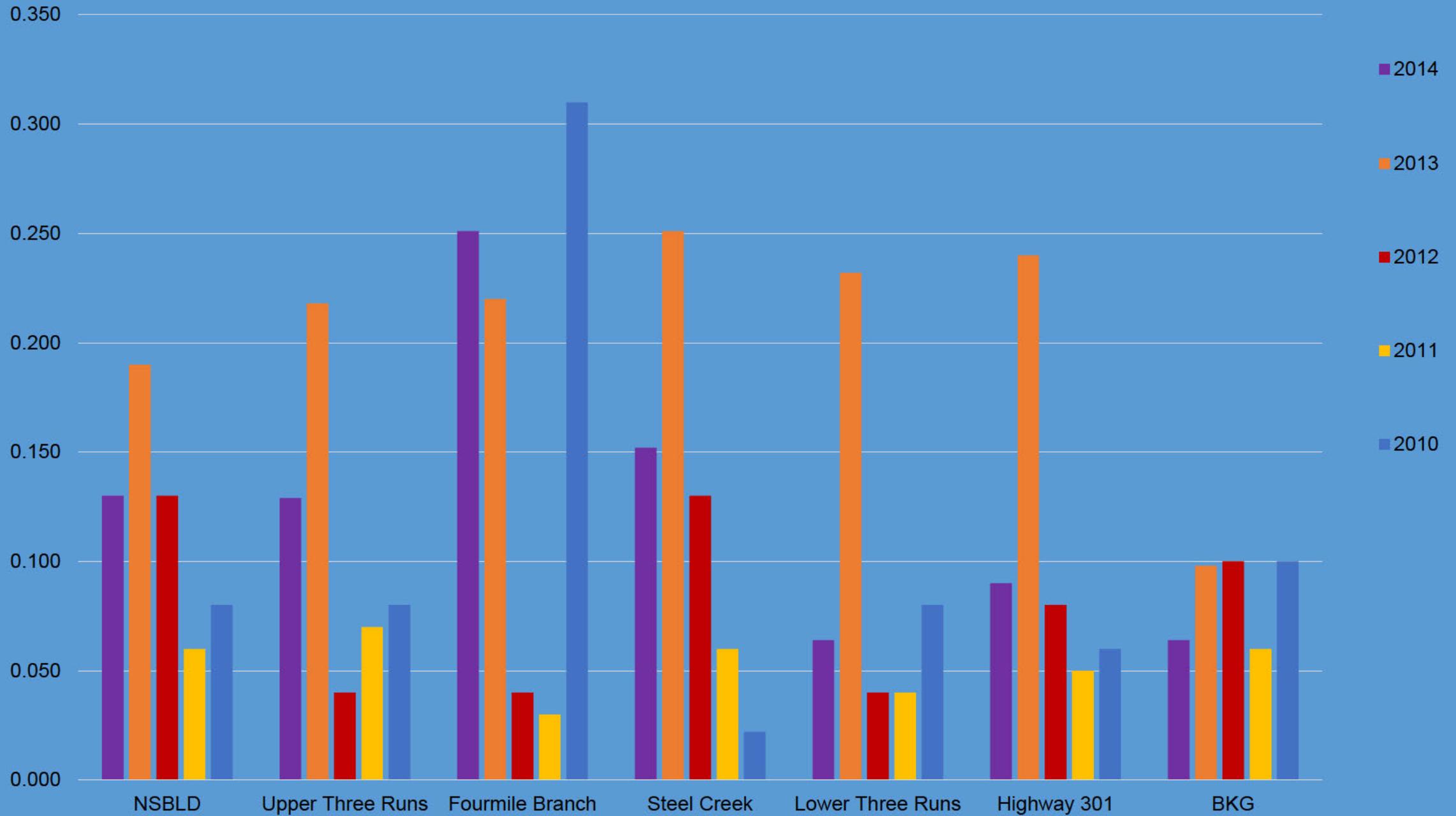
Tritium in Edible Bass



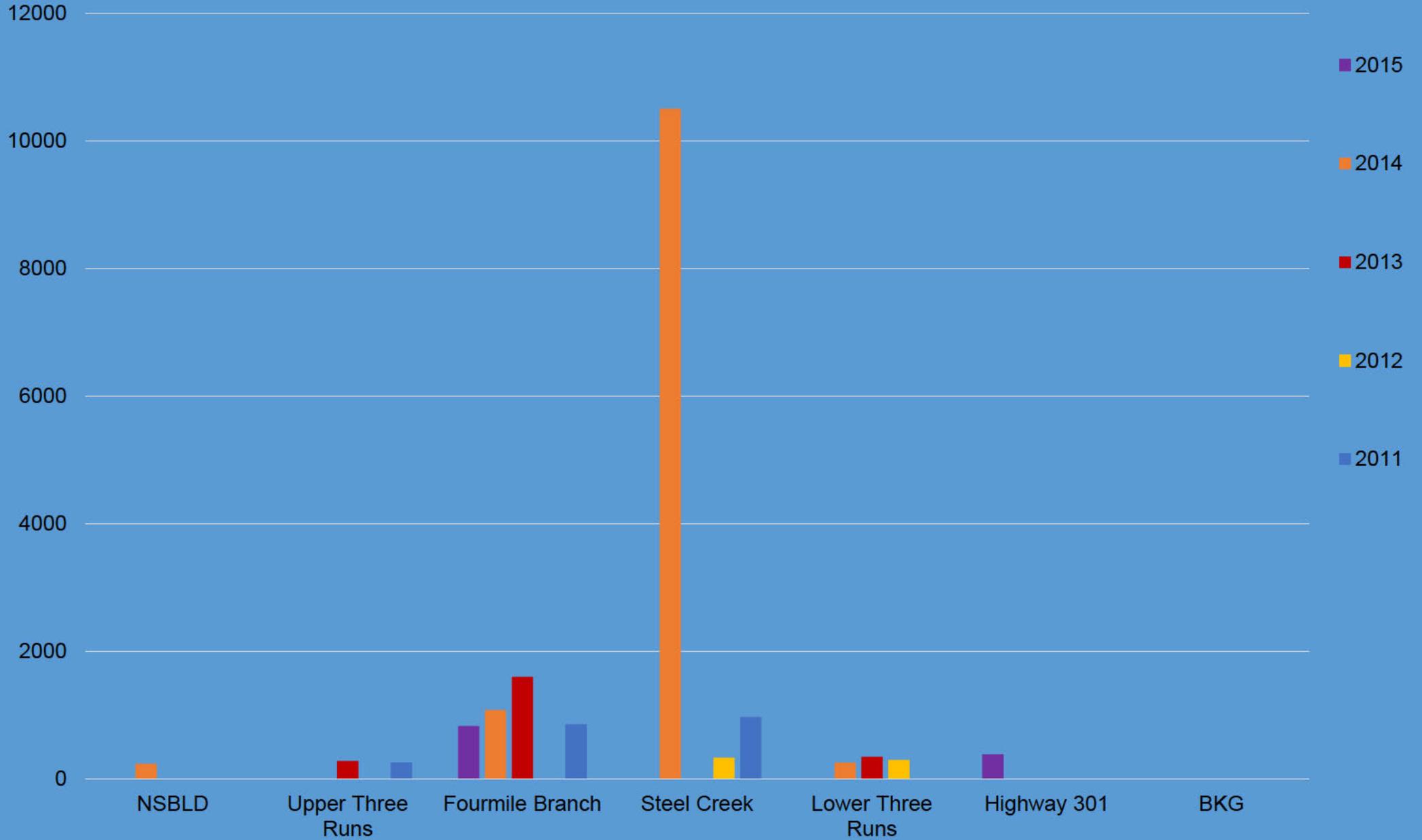
Cesium-137 in Edible Bass



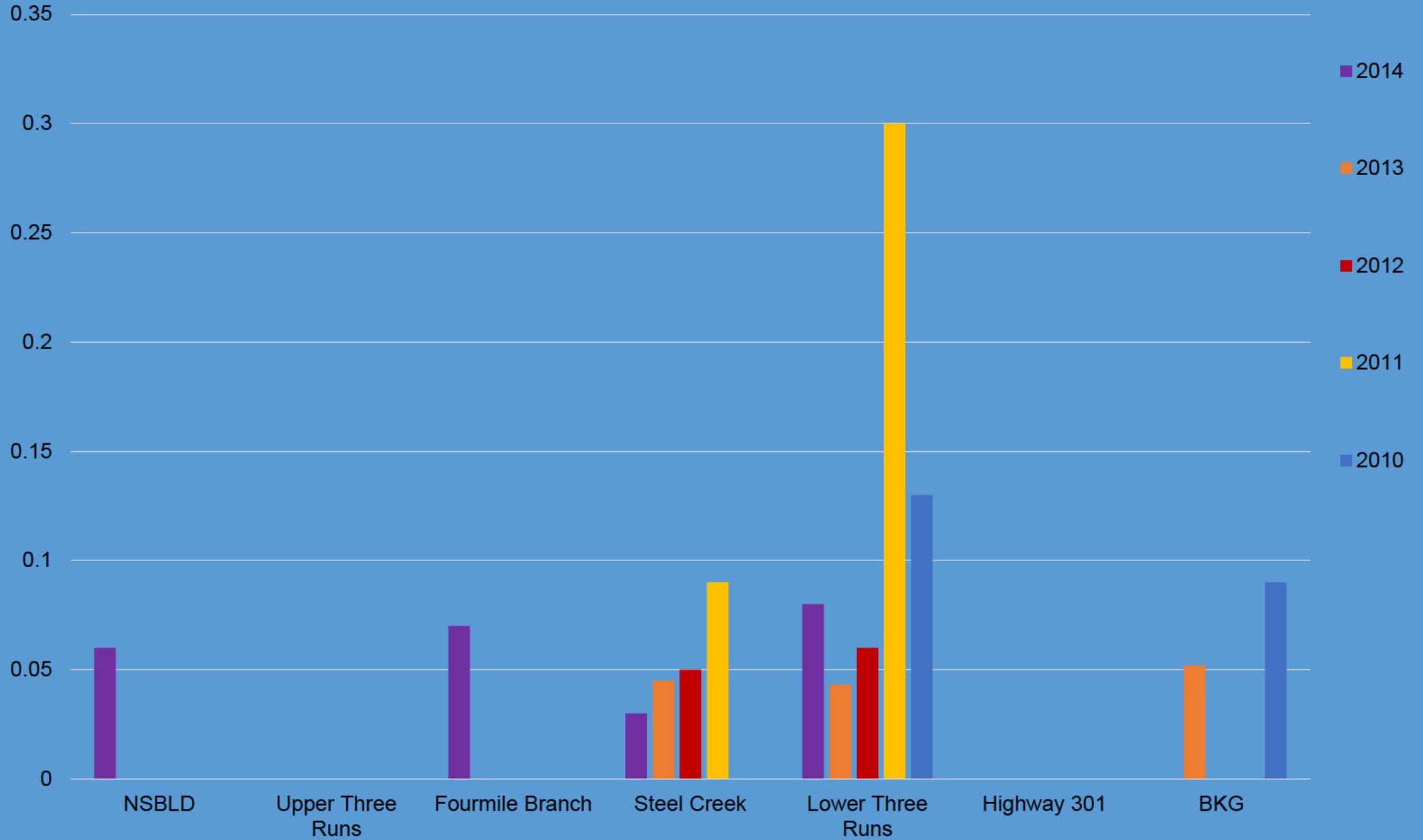
Strontium-89/90 Non-Edible Bass



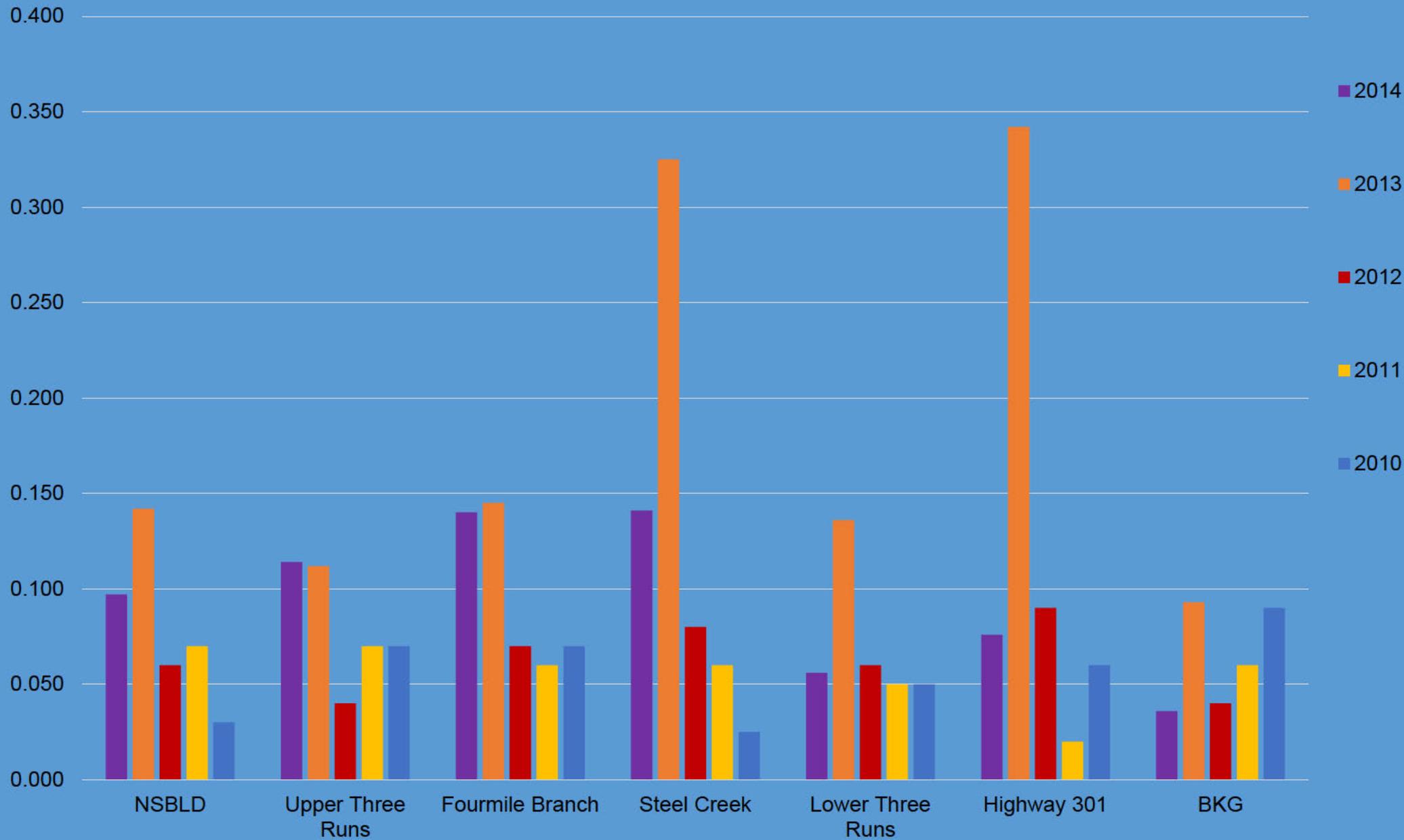
Tritium Edible Catfish



Cesium-137 Edible Catfish

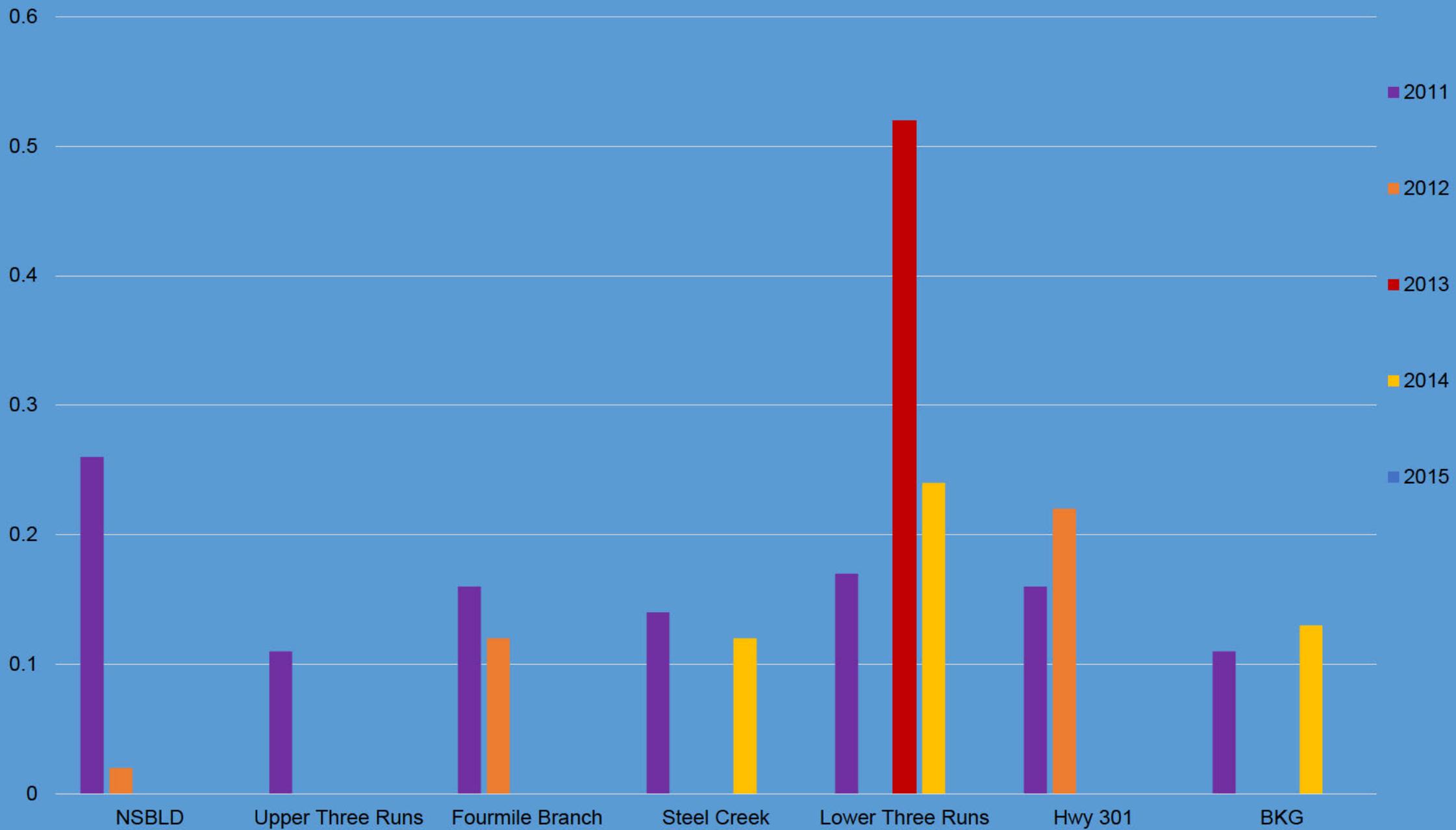


Strontium-89/90 in Non-Edible Catfish

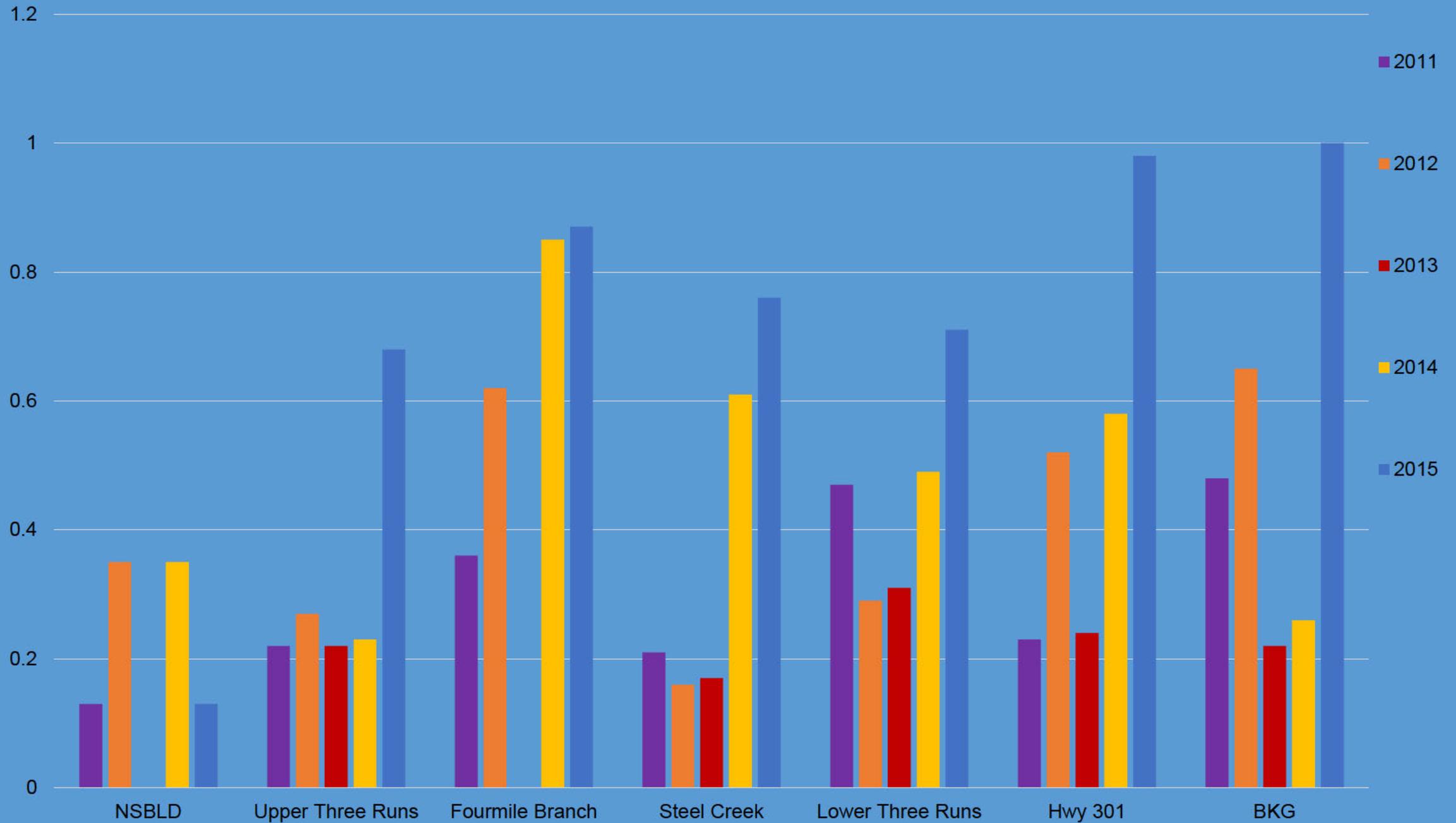


- Antimony
- Arsenic
- Cadmium
- Manganese
- Chromium
- Copper
- Lead
- Nickel
- Zinc

Mercury in Bass

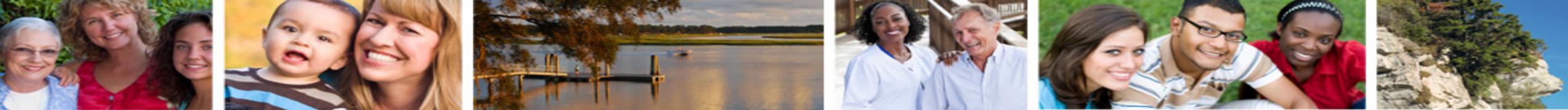


Mercury in Catfish



Summary

- SRS operations do have a negligible effect on the Savannah River.



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