Smallmouth Bass

Bathymetry and Sidescan Sonar Mosaic via Humminbird998c GPS Fishing System and ReefMaster 2.0 **Processing Software**

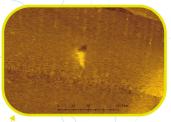
is image shows an example of the underwater terrain which attracts certain fish during different stages of their lives.



This image shows an example of debris or a structure at the bottom of the lake that fish can use as natural cover and as a hunting/foraging ground. Fish tend to find structures in open water as they do in shallower water.



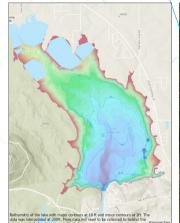




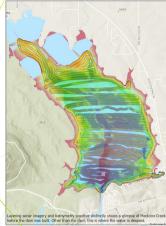
Striped Hybrid



White Bass







Walleye









White Crappie

1907. Over the years it was periodically rabed to meet alloways.

awton. In 1954, eight spillway gates were added and the
. The total storage capacity is 63,000ac-ft with a surface

verged on the southern end of the lake, east of the dam, is Volkswagen car, a trailer, and a boat which makes for a suitable habitat for fish to forage and use as cover.

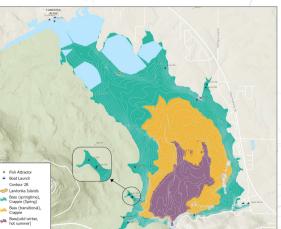
ouse Slough, there is a boat launch, boat houses, bats. This image shows an underwater perspective boat houses, a fish attractor, and the spit.





Channel Catfish

Habitats



Located north of Lawton,
OK, Lake Lawtonka is a man-made
lake owned by the city of Lawton. Its unique
history has influenced the people and towns in the
region, especially as a recreational resource and as a
water source. Therefore, it is crucial to implement
preservation strategies. Pariofacilly toets and studies as water source. Therefore, it is crucial to implement conservation strategies. Periodically, tests and studies are performed to assess the lake, but there have been few endeavors to collect sonar data as a way to show the lake floor and viable fish habitats. Known fish attractors are located near the shoreline but there seem to be no fish attractors in deeper water. Sonar imagery would be helpful in showing anglers where structures and debris are located, especially in deeper water. For this project, sonar and bathymetric data were collected using a Humminibird998.c GPS fishing system and was norreseed using NeefMsAter 2.0 processed using ReefMaster 2.0.

The raster dataset of the bathymetry and the sonar images will be used to create a complete Angler map application using Experience Builder for public use in the near future. Supplemental transects will need to be collected to rely less on interpolation and to fill the gaps in the sonar mosaic dataset.

The intent of this map project is to showcase the bathymetry of the lake, sonar images, and to inform the public on fish species and potential habitats.

