



California Natural Resources Agency
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February 26, 2009

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Subject: New Hogan Reservoir Electrofishing Survey

February 24, 2009 the Reservoir Research and Monitoring Program sampled New Hogan Reservoir by boat electrofishing. The purpose of the survey was to determine fish locations in the late winter, evaluate habitat structures, and to check on size classes and overall health of the warm water fish in New Hogan.

A total of 3 hours was spent shocking the Slate and Whisky Creek arms, with most of the effort spent in the Slate Creek arm. The water in the Slate Creek arm had a very tannin coloration which limited visibility to less than about 3 feet. The water in the Whisky Creek arm was very turbid with visibility less than about 1.5 feet.

Most of the fish were collected in the Slate Creek arm. Spotted bass (SPT), smallmouth bass (SMB) and redear sunfish (RSF) were concentrated out near the mouth of the creek arm along the sides of points and on the points themselves that had shale and small angular cobble sized substrate. Largemouth bass (LMB) were found to be in the backs of the coves on soft flats near the main body and to a larger extent holding tight to large bolder and bedrock formations toward the back of the creek arm where the water was several degrees warmer than on the main body. Small bluegills were also found near the bolder and bedrock formations toward the back of the Slate Creek arm.

The amount of electrofishing conducted in the Whiskey Creek arm was limited to the very back of the arm where a large school of Inland Striped bass had pushed a school of shad up onto a flat. Dozens of dead shad could be seen floating at the surface and bait balls with large arches were seen on the fish finder. Only one striped bass was captured, a 620 mm 6 lb fish. Several more came to the surface but escaped the electrical field. Netting the striped bass was difficult due to the turbidity of the water and the size and speed of the fish.

Fish species captured included largemouth, smallmouth, spotted and striped bass, redear sunfish, blue gill, gold fish, and thread fin shad. One fish that appears to be a hybrid SMB/SPT was voucher to be used in a DNA sampling effort the Reservoir Research Project is conducting. Species and length table attached.

Data Entered into Fish

Site/Transect Name	Field Sheet Row	Sortable Fish Name	Total Length	Fish Disposition
Slate Creek	1	bass, largemouth	390	Released
Slate Creek	2	bass, largemouth	360	Released
Slate Creek	3	bass, largemouth	400	Released
Slate Creek	4	sunfish, redear	280	Released
Slate Creek	5	bass, smallmouth	280	Released
Slate Creek	6	bass, largemouth	365	Released
Slate Creek	8	sunfish, redear	275	Released
Slate Creek	9	bluegill	170	Released
Slate Creek	10	bass, largemouth	370	Released
Slate Creek	11	bass, smallmouth	375	Kept
Slate Creek	12	bass, largemouth	410	Released
Slate Creek	13	bass, largemouth	390	Released
Slate Creek	14	bass, spotted	350	Released
Slate Creek	15	bass, spotted	340	Released
Whiskey Creek	1	minnow, goldfish	430	Released
Whiskey Creek	2	bass, striped (Inland)	620	Released

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