

HA! HA! I CHEATED

by Joseph C. Mann, Jr.

On the 8th of August, 1975 I anesthetized five Golden Shiners, Notemigonus chrysoleucas (Mitchell), to prepare them for hormone treatment to induce spawning. The anesthetic used was Fingwell (ms-222) manufactured by Ayerst Lab of New York. The dosage used was 1:10000, or 100 milligram per liter, which is that recommended by Clemens and Sneed, 1962, in their "Bioassay and Use of Pituitary Materials to Spawn Warm Water Fishes".

The shiners were injected with King Salmon Gonadotropin at 75-100 International Units using a 1 cubic centimeter syringe fitted with a size #26 needle. The gonadotropin used is available from Dr. Edward M. Donaldson, Fisheries Research Board of Canada, Vancouver, B.C. Injection was given intravascularly just below the dorsal fin.

Four of the injected fish, weighing approximately 2 ounces each, were put into a 240 gallon tank along with thirteen other fish of variable size and maturity. One of the injected shiners was lost, probably because I went too days with the needle on this, my first effort at hypophysation or estrualization.

The fish spawned in a plastic food container with sand and a few plants inside. On August 17, 1975, I observed larvae at the bottom of the container. My experiment was a success.

A couple of other observations made at the time of the spawning were pH of 7.8, temperature of 20-22°C. and dissolved oxygen content of the water was 12 parts per million.
