

Polychlorinated Biphenyls in Aquatic Invertebrates and Fish and Observations about Nitrogen and Carbon Isotope Composition in Relation to Trophic Structure and Bioaccumulation Patterns, Lake Worth, TX: USGS Report 2010-5235



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Bruce J. Moring

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(Angela Kuhn)

POLYCHLORINATED BIPHENYLS IN AQUATIC INVERTEBRATES AND FISH AND OBSERVATIONS ABOUT NITROGEN AND CARBON ISOTOPE COMPOSITION IN RELATION TO TROPHIC STRUCTURE AND BIOACCUMULATION PATTERNS, LAKE WORTH, TX: USGS REPORT 2010-5235

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BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 44 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. During 2007-08 the U. S. Geological Survey, in cooperation with the U. S. Air Force, evaluated the concentration of polychlorinated biphenyls (PCBs) in aquatic invertebrates and fish from one site in the main body of Lake Worth, two sites in a small inlet in Lake Worth (upper and lower Woods Inlet), and one site in Meandering Road Creek in Fort Worth, Texas. The four sites sampled during 2007-08 were located at or near sites where surficial bed-sediment samples had been collected and analyzed for PCBs during previous U. S. Geological Survey studies so that PCB concentrations in aquatic invertebrates and fish and PCB concentrations in surficial bed-sediment samples could be compared. Stable nitrogen and carbon isotopes were used to help assess differences in the amount of these isotopes by species and sampling location. The sum of 15 PCB-congener concentrations was highest for aquatic invertebrates and fish from the upper Woods Inlet site and lowest for the same aquatic invertebrates and fish from Lake Worth site, where PCBs historically had not been detected in lake bed sediment. An increase in the ratio of the heavier nitrogen-15 (15N) isotope to the lighter nitrogen-14 (14N) isotope, referred to as enrichment of 15N, was highest in largemouth bass (representing the highest trophic level sampled) at all sites and lowest for true midge larvae inhabiting surficial bed sediment in the lake (representing the lowest trophic level sampled). Enrichment of 15N was less variable in largemouth bass and other fish from the highest trophic level compared with shorter lived, primary consumer invertebrates from lower trophic levels, such as true midge larvae, mayfly nymphs, and zooplankton. The delta carbon-13 (delta¹³C) values measured in true midge larvae collected at...



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