

Project title: Study of pesticide residues in animal tissues
used for human consumption

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Abstract

The residues of persist organochlorine pesticides contaminate the environment and then get into the food chain. A total number of 81 samples from meat and liver specimens of the same animals (swamp buffalo, cattle, swine, chicken and catfish) were collected. The gas chromatograph was used to analyze for aldrin ; dieldrin ; heptachlor; heptachlor epoxide; lindane; α -BHC; β -BHC; O, P'-DDT, P,P'-DDT ; O,P'-DDE ; P,P'-DDE and P,P'-DDD. Benzene hexachloride group and DDT analogues were highly found especially in tissues of swine and catfish. But cyclodiene compounds were rarely found in all animal tissues. However, the level of each pesticide residue was below the tolerance level proposed by FAO/WHO, U.S. EPA and the state of Thai Ministry of Public Health.