

METABOLISM OF PESTICIDES UPDATE III

By Calvin M. Menzie



UNITED STATES DEPARTMENT OF THE INTERIOR

FISH AND WILDLIFE SERVICE

Special Scientific Report—Wildlife No. 232

Washington, D.C. • 1980

Menzie, CM (1981) Metabolism (1980)

METRIFONATE (Trichlorfon, Trichorphon, Chlorophos, TCF) [O,O-Dimethyl
1-hydroxy-2,2,2-trichloroethylphosphonate]

Releasable

TCF-12 (Lauroyl trichlorfon) [O,O-Dimethyl 1-(n-dodecanoyloxy)-
2,2,2-trichloroethylphosphonate]

When applied to foliage of Douglas fir, TCF residues declined rapidly. Residues on grass and willow were greater than on Douglas fir. While TCF-12 residues on foliage declined at the same rate as TCF, TCF-12 disappeared more slowly from water than did TCF (Pieper and Richmond, 1976).

Studies indicated that, after i.p. injection of metrifonate in mice, chemical formation of DDVP occurred in the brain (Nordgren et al., 1978).