

FISHERIES HANDBOOK OF ENGINEERING REQUIREMENTS
AND BIOLOGICAL CRITERIA

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Fisheries Handbook
of
Engineering Requirements & Biological Criteria
by
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20. Abstract (continued).

Cont' → Fishway structures at natural obstructions and dams are examined, as is the related subject of artificial guidance of fish. *Rec 85*

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Pesticides and Herbicides

Must be judiciously applied . Some pesticides have been discarded because of inherent danger . Many solvents, diluents and other carriers used with pesticides also have toxic properties . An important factor to be considered is the biological magnification . In making judgment necessary to measure toxicity of a compound in a specific environment . Insufficient data available on toxicity, both short term and cumulative, of more than a few common pesticides of their degradation products . Establishment of tolerable concentration of pesticides for fish requires consideration of food chain accumulation . Chlorinated hydrocarbons more toxic to fish . Organic phosphates are generally, but not always, less toxic to fish.

Herbicides, in general, are less toxic to fish than insecticides . Inorganic herbicides are being replaced in many areas by some of more effective proprietary organic products . Various aromatic solvents also used . Of particular major concern in any consideration of effects of pesticides on aquatic biota are conditions that may prevail in river estuaries.

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