UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Memorandum

From: Nikiba Daughtry, Biologist, 7/29/04
Environmental Field Branch
Field and External Affairs Division

To: Arthur-Jean Williams, Chief
Environmental Field Branch
Field and External Affairs Division

Subject: Effects Determination for 1,3-Dichloropropene for Pacific Anadromous Salmonids

We reviewed data and other information for 1,3-dichloropropene, a soil fumigant used to control nematodes and certain soil diseases named by the Washington Toxics Coalition (WTC) and included in the court order for 'effects determinations' and potential consultation with the National Marine Fisheries Service. 1,3-dichloropropene is registered nationally for use on soils to be planted with all food and feed crops. The Environmental Fate and Effects Division (EFED) has completed an environmental risk assessment for a Reregistration Eligibility Decision (RED) issued in December 1998. The assessment concludes that levels of concern are exceeded for endangered freshwater fish and populations of aquatic invertebrates exposed to runoff and drift from agricultural treatment sites. We have adapted the more general findings of the EFED assessment to develop an analysis of the potential for effects on endangered and threatened Pacific salmon and steelhead Evolutionary Significant Units (ESUs) from current uses in California and the Pacific Northwest.

Based on the environmental risk assessment and additional considerations indicated in our analysis and other attached or referenced materials, we conclude that the use of 1,3-dichloropropene, may affect but is not likely to adversely affect eleven ESUs, and will have no effect on fifteen ESUs . Our determinations are based on the known or potential use of 1,3-dichloropropene on crops within habitats and migration corridors of each ESU, the acute risk of 1,3-dichloropropene to endangered fish, and the potential for indirect effects due to acute risks to their aquatic-invertebrate food supply.

attachments

1,3-Dicholoropropene: Analysis of Risks to Endangered and Threatened Salmon and Steelhead (with attachments)