

SALMON-SAFE CERTIFICATION STANDARDS FOR RESIDENTIAL DEVELOPMENT

DRAFT 2.2

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With special thanks to:
Stewardship Partners
Alex Walker Foundation
Russell Foundation
Meyer Memorial Trust

February 2009



Image courtesy of Metro Integrating Habitats



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APPENDIX D: SALMON-SAFE HIGH-RISK PESTICIDE LIST*

* Adapted from Salmon-Safe 2005

Salmon-Safe High Risk Pesticide List

Certain pesticides are a serious threat to salmon and other aquatic life. In addition, pesticide formulations can contain other ingredients that are potentially more toxic than the active ingredients, such as nonionic surfactant nonylphenols, their parent compounds, or nonylphenol polyethoxylates found in the spreader R-11. In addition to killing fish, certain pesticides at sublethal concentrations can stress juveniles, alter swimming ability, interrupt schooling behavior, cause salmon to seek suboptimal water temperatures, inhibit seaward migration, and delay spawning. All of these behavioral changes ultimately affect survival rates.

The following table lists many of the pesticides known to cause problems for salmon and other aquatic life. The list includes chemicals that could be used for site management purposes that are listed with the U.S. Environmental Protection Agency (EPA) in various risk categories. Use this list to identify pesticides that require special consideration. Please note that this table lists only some of the currently available and commonly used pesticides.

A residential development using any of the pesticides indicated as “High Risk” may be certified only if written documentation is provided that demonstrates a clear need for use of the pesticide, that no safer alternatives exist, and that the method of application (such as timing, location, and amount used) represents a negligible risk to water quality and fish habitat.



Commonly Used Pesticides That Pose High Risk to Salmon, Other Fish, and Aquatic Life in Urban Streams.

1,3-dichloropropene	2,4-D	Abmectin
Acephate	Altacor	Atrazine
Bensulide	Bentazon	Bifenazate
Bifenthrin	Bromoxynil	Carbaryl
Carbofuran	Carfentrazone-ethyl	Chlorothalonil
Chlorpyrifos	Copper Sulfate ¹	Cyhalothrin
Cypermethrin	Diazinon	Dicamba
Dichlobenil	Diclofop-methyl	Diflubenzuron
Dimethoate	Disulfoton	Diuron
Esfenvalerate	Ethoprop	Extoxazole Technical
Fenamiphos	Fenpyroximate	Fenbutatin-Oxide
Folpet	Imidacloprid	Iprodione
Linuron	Malathion	Mancozeb
Maneb	Metolachlor	Metribuzin
Naled	Norflurazon	Oryzalin
Oxyfluorfen	Paraquat Dichloride	Pendimethalin
Permethrin	Phosmet	
Prometryn	Propargite	Propiconazole
Rimon	Quintozene	Rimon
Simazine	Spinosyn	Triclopyr
Trifluralin	Tebuthiuron	Thiram

¹ Salmon-Safe restrictions apply to any copper-containing pesticide including copper hydroxide, copper ammonium hydroxide, copper carbonate, and copper oxide, and others.

Chlorpyrifos is not allowed for use at Salmon-Safe certified projects.

Pending Review. This list is based on EPA hazard level for fish and fish habitat. It is revised as pesticide registrations are updated and as more environmental data becomes available.

