

## APPENDIX A: SALMON-SAFE URBAN HIGH RISK PESTICIDE LIST

Certain pesticides are a serious threat to salmon and other aquatic life. In addition to killing fish, these pesticides at sub-lethal concentrations can stress juveniles, alter swimming ability, interrupt schooling behaviors, cause salmon to seek sub-optimal water temperatures, inhibit seaward migration and delay spawning. All of these behavioral changes ultimately affect survival rates.

The following chart lists many of the pesticides known to cause problems for salmon and other fish. The list includes chemicals that could be used in urban applications that are listed with the EPA in various risk categories. Use this chart to help identify pesticides that require special consideration. Please note that this chart lists only some of the currently available pesticides in common usage.

**A using any of the pesticides indicated as “High Risk” below 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.**

### PESTICIDES USED IN URBAN APPLICATIONS THAT POSE HIGH RISK TO SALMON AND AQUATIC LIFE

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

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



**P 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.