

# TECHNICAL NOTE

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USDA NATURAL RESOURCES CONSERVATION SERVICE PACIFIC ISLANDS AREA

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## Water Quality Technical Note 14

### RISK EVALUATION OF COMMONLY USED PESTICIDES

#### PURPOSE OF TECHNICAL NOTE

Herbicides used as part of a conservation practice for the establishment of a seed bed, management of undesirable species, or other conservation purposes must be evaluated to ensure they do not pose an additional resource concern. In order to streamline risk assessment of planned herbicides, a list of commonly used herbicides have been evaluated in “worse case” scenarios in Win-PST (Table 1). Remember that Win-PST is just a tool to help determine “potential” risk and not to determine if the risk truly exists or not.

#### INTERPRETATIONS OF RISK ASSESSMENT

**Very Low/Low:** No additional analysis is needed and planning should proceed without delay.

**Intermediate:** Planners should document that they have advised the client of potential risk. Whether that potential risk is addressed or not is up to the client. Details about the Intermediate risk category can be found in Table 2.

**High/Very High:** Mitigation must be utilized to minimize the risk. Utilize the 595 IPM Jobsheet to determine what mitigation needs to be implemented.

Herbicides not included in Table 1 must be evaluated for risk with the Win-PST program with two exceptions.

- 1) If the herbicide being evaluated for use contains an active ingredient(s) that is identical to the active ingredient of an herbicide listed in Table 2 under a different trade name, then the rating provided for this “equivalent” herbicide can be used as your risk assessment.
- 2) If the herbicides are going to be used in very precise applications such as “stump painting”, or individual stem injection then no risk assessment needs to be performed.

Table 1: Win-PST Risk Assessment	
Very Low/Low	Intermediate
Arsenal	Crossbow
Banvel	Remedy
Cimmaron	
Garlon 3A	
Garlon 4	
Milestone	
Pathfinder II	
Polaris	
Redeem	
Round-up	
Spike	
Stalker	
Velpar	

If you need assistance with Win-PST or have other commonly used herbicides you would like to be added to this Technical Note contact the PIA Water Quality Specialist.

Table 2: Detailed Win-PST Analysis

Common Name	Active Ingredients	
Arsenal	Imazapyr	
Banvel	2,4-D	Dicamba
Cimmaron	Metsulfuron methyl	Chlorsulfuron
Crossbow	2,4-D	Butoxyethyl trilopyr
Garlon 3A	Triethylamine triclopyr	
Garlon 4	Butoxyethyl trilopyr	
Milestone	Aminopyralid	
Pathfinder II	Butoxyethyl trilopyr	
Polaris	Imazapyr	
Redeem	Clopyralid	Triethylamine triclopyr
Remedy	Butoxyethyl trilopyr	
Round-up	Glyphosate	
Spike	Tebuthiuron	
Stalker	Imazapyr	
Velpar	Hexazione	

Active Ingredients*		Soil Hydro A						Soil Hydro B						Soil Hydro C						Soil Hydro D					
		Broadcast Application			Spot Treatment			Broadcast Application			Spot Treatment			Broadcast Application			Spot Treatment			Broadcast Application			Spot Treatment		
		Leaching	Solution	Adsorbed	Leaching	Solution	Adsorbed	Leaching	Solution	Adsorbed	Leaching	Solution	Adsorbed	Leaching	Solution	Adsorbed	Leaching	Solution	Adsorbed	Leaching	Solution	Adsorbed	Leaching	Solution	Adsorbed
2,4-D	Human	L	L		V	L		L	L		V	L		L	L		V	L		L	L		V	L	
	Fish	V	V	V	V	V	V	V	V	V	V	V	V	V	L	V	V	V	V	V	V	L	V	V	V
Aminopyralid	Human	L	V		V	V		L	V		V	V		V	L		V	V		V	L		V	V	
	Fish	L	V	V	V	V	V	L	V	V	V	V	V	V	L	V	V	V	V	V	V	L	V	V	V
Butoxyethyl trilopyr	Human	V	V		V	V		V	L		V	V		V	L		V	V		V	L		V	V	
	Fish	I	I	V	V	L	V	I	I	V	V	L	V	L	I	L	V	I	V	L	I	L	V	I	V
Chlorsulfuron	Human	L	V		V	V		L	L		V	V		V	L		V	V		V	L		V	V	
	Fish	L	V	V	V	V	V	L	L	V	V	V	V	V	L	L	V	V	V	V	V	L	L	V	V
Clopyralid	Human	L	V		V	V		L	V		V	V		V	L		V	V		V	L		V	V	
	Fish	L	V	V	V	V	V	L	V	V	V	V	V	V	L	V	V	V	V	V	V	L	V	V	V
Dicamba	Human	L	V		V	V		L	V		V	V		V	L		V	V		V	L		V	V	
	Fish	L	V	V	V	V	V	L	V	V	V	V	V	V	L	V	V	V	V	V	V	L	V	V	V
Glyphosate	Human	V	V		V	V		V	L		V	V		V	L		V	V		V	L		V	V	
	Fish	V	L	V	V	L	V	V	L	L	V	L	V	V	L	L	V	L	V	V	V	L	L	V	L
Hexazione	Human	L	V		V	V		L	L		V	V		V	L		V	V		V	L		V	V	
	Fish	L	V	V	V	V	V	L	L	V	V	V	V	V	L	L	V	V		V	L	L	V	V	V
Imazapyr	Human	L	V		V	V		L	L		V	V		V	V		V	V		V	V		V	V	
	Fish	L	V	V	V	V	V	L	L	V	V	V	V	V	L	L	V	V	V	V	L	L	V	V	V
Metsulfuron methyl	Human	I	V		V	V		L	L		V	V		V	L		V	V		V	L		V	V	
	Fish	L	V	V	V	V	V	L	V	V	V	V	V	V	L	L	V	V	V	V	V	L	L	V	V
Tebuthiuron	Human	L	V		V	V		L	L		V	V		V	L		V	V		V	L		V	V	
	Fish	L	V	V	V	V	V	L	L	V	V	V	V	V	L	L	V	V	V	V	V	L	L	V	V
Triethylamine triclopyr	Human	L	V		V	V		L	L		V	V		V	L		V	V		V	L		V	V	
	Fish	L	V	V	V	V	V	L	L	V	V	V	V	V	L	L	V	V	V	V	V	L	V	V	V