

Agency (EPA) expects to distribute once our Endangered Species Protection Program is in effect. The limitations on pesticide use are not law at this time, but are being provided now for your use in voluntarily protecting endangered and threatened species from harm due to pesticide use. We encourage you to use this information. We also welcome your comments.

The Endangered Species Act is intended to protect and promote recovery of animals and plants that are in danger of becoming extinct due to the activities of people. Under the Act, EPA must ensure that use of pesticides it registers will not result in harm to the species listed as endangered or threatened by the U.S. fish and Wildlife Service, or to habitat critical to those species' survival. To implement the Endangered Species Protection Program, labels of certain pesticides will direct users to bulletins similar to this sample pamphlet. This program will protect endangered and threatened species from harm due to pesticide use.

EPA requests your comments regarding the information presented in this publication. Please let us know whether the information is clear and correct. Also tell us to what extent following the recommended measures would affect you typical pesticide use or productivity. This information will be considered by EPA during the final stages of program development.

Please submit comments to:



**Interim Endangered Species** Protection Program (7506C) U.S. EPA 401 M Street, SW Washington, DC 20460

### **About This Publication**

This publication contains a County Map showing the Area within the county where pesticide use should be limited to protect listed species. These areas are identified on the map by a shaded pattern. Each shaded pattern corresponds to a species in need of protection.

The Shading Key shows the name of the species that each shaded pattern represents and often describes the shaded area. The area may be described in terms of Township, Range, and Section or by giving details about the habitat of the species.

The first column of the "Table of Pesticide Active Ingredients" lists the active ingredients for which there should be limitations on use to protect certain species. The next columns are headed by the shaded pattern of the species with Codes listed underneath them.

The Code indicates the specific limitation that is necessary to protect the species. The section titled Limitations on Pesticide Use explains the code.

## **Does This Information Apply to You?**

To determine whether this information applies to your use of a pesticide, review the questions below. The information applies only if you answer "yes" to both questions:

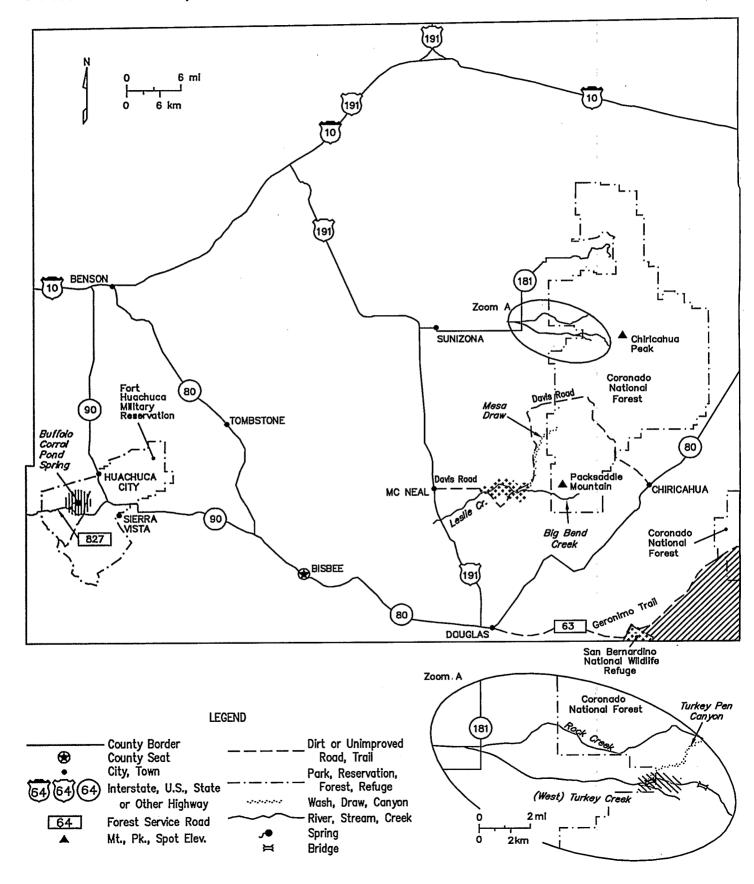
- Do you intend to use pesticides within or near the shaded area on the county map?
- Are any of the ingredients listed on the front panel of your pesticide product label named in the "Table of Pesticide Active Ingredients"?

If you answer "yes" to both questions, you should follow the instructions on "How to Use This Information" to determine if you should limit use of the pesticide to help protect listed

If you answer "no" to either question, you should follow the usage directions on the pesticide product label.



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# **Limitations On Pesticide Use**

#### Codes/Limitations

- Within the area described under the Shading Key, do not apply this pesticide within 20 yards from the edge of water for ground applications, nor within 100 yards for aerial applications.
- 1x Within the area described under the Shading Key and ½ mile up all streams that join the area, do not apply this pesticide within 20 yards from the edge of water for **ground applications**, nor within 100 yards for **aerial applications**.
- Within the area described under the Shading Key, do not apply this pesticide within 40 yards from the edge of water for **ground applications**, nor within 200 yards for **aerial applications**.
- Within the area described under the Shading Key, do not apply this pesticide within 100 yards from the edge of water for **ground applications**, nor within ¼ mile for **aerial applications**.
- Within the area described under the Shading Key and ½ mile up all streams that join the area, do not apply this pesticide within 100 yards from the edge of water for **ground applications**, nor within ¼ mile for **aerial applications**.
- 5a Do not apply **ultra low volume (ULV) applications** within 1 mile from the edge of water within the area described under the Shading Key.
- 10a Do not apply directly to water within the area described under the Shading Key, nor within 1 mile upstream from the area.
- 20a Within the area described under the Shading Key, do not apply directly to water.
- Do not apply this pesticide in the species habitat (described under the Shading Key). For **ground applications** do not apply within 20 yards of the habitat, nor within 100 yards for **aerial applications**.
- 41a Within the area described under the Shading Key, do not apply this pesticide within ¼ mile from the edge of water for ground applications, nor within ½ mile for aerial applications.
- 43a Within the area described under the Shading Key, do not apply this pesticide within 100 yards from the edge of water for **ground applications**, nor within ¼ mile for **aerial applications**.
- 196 Within the area described under the Shading Key, do not apply this pesticide above the threshold application rate (TAR) indicated within 20 yards from the edge of water for **ground applications**, nor within 100 yards for **aerial applications**.
- Within the area described under the Shading Key, do not apply this pesticide above the threshold application rate (TAR) indicated within 40 yards from the edge of water for **ground applications**, nor within 200 yards for **aerial applications**.
- Within the area described under the Shading Key, do not apply this pesticide above the threshold application rate (TAR) indicated within 100 yards from the edge of water for **ground applications**, nor within ¼ mile for **aerial applications**.

## **Active Ingredient**

COCHISE **PINCUSHION CACTUS** 

# **Shading Pattern DESERT PUPFISH** GILA (YAQUI) **TOPMINNOW**

**GILA (YAQUI)** TOPMINNOW YAQUI CHUB





	Code	Code	TAR*	Code	\TAR*
MALATHION	-	3a,5a		3x,5a,10a	
MANCOZEB		2a		-	
MCPA (all forms)	29				-
METHIDATHION	<del>-</del> .	2a			
METHOMYL	_	5a,196	0.2	1x,5a	
METHYL PARATHION	-	3a,5a		3x,5a,10a	
NALED	<b>—</b>	5a,396	2.0	5a,396	2.0
DXAMYL		2a			
DXYDEMETON-METHYL		2a		_	
OXYFLUORFEN		2a			
PARAQUAT	29				-
PARATHION (ethyl)		2a		i	-
PENDIMETHALIN		2a			_
PHORATE		2a		<del>-</del>	_
PHOSMET		2a			
PICLORAM (all forms)	29		_		
PROFENOFOS		2a			
PROPACHLOR (granular)	<del>-</del>	296	1.3	296	1.3
PROPACHLOR (non-granular)	<del></del>	396	0.4	396	0.4
PROPARGITE		2a		<u></u>	
PYRETHRINS	****	1a,5a		1x,5a,10a	
SULPROFOS	<del></del>	2a			
TEBUTHIURON TEBUTHIURON	29		_		
TERBUFOS	<del></del>	2a			
THIODICARB		2a	-		
THIOPHANATE-METHYL	_	2a			
RIBUFOS (DEF)	-	2a	-	<del></del>	
TRICHLORFON (granular)	_	2a		2a	
FRICHLORFON (non-granular)		396	3.5	396	3.5
TRIFLURALIN		2a			

<sup>\*</sup>TAR = Threshold Application Rate (Pounds of active ingredient per acre per application)

#### SHADING KEY

Cochise pincushion cactus (plant), Coryphantha robbinsorum (=Cochiseia r., Escobaria r.) (Cactaceae, the Zcactus family). Within the shaded area shown on the map, the species habitat is in semi-desert grasslands. Pesticide use limitations do not apply in irrigated pastureland or cropland.

Desert pupfish (fish), Cyprinodon macularius and Gila (Incl. Yaqui) topminnow (fish), Poeciliopsis occidentalis. The shaded area shown on the map is for Buffalo Corral Pond Spring.

Gila (Incl. Yaqui) topminnow (fish), Poeciliopsis occidentalis and Yaqui chub (fish), Gila purpurea. shaded areas shown on the map are Leslie Creek and the San Bernardino National Wildlife Refuge. Pesticide use limitations do not apply in irrigated pastureland or cropland.

Yaqui chub (fish), Gila purpurea. The shaded area shown in Zoom A is for (West) Turkey Creek in T18S R29E Sec. 14 and the water diverted from the creek there, and the eastern half of Sec. 15.

## **How To Use This Information**

- 1) On the county map, find the specific shading patterns that cover, or are close to, the area where you will apply pesticides.
- 2) Read the descriptor in the Shading Key for those patterns; this may further identify the area involved.
- 3) In the "Table of Pesticide Active Ingredients," locate the active ingredients in the pesticide you intend to apply.
- 4) Locate the codes to the right of the active ingredient name and under the shading patterns that apply to you.
- 5) When using the pesticide, you should follow the limitations indicated for those codes described under "Limitations on Pesticide Use."
- 6) If you are applying more than one listed active ingredient or applying a listed active ingredient in an area with more than one shaded pattern (species), multiple codes may apply. If so, you should follow the most restrictive limitation.
- 7) Read the information on Reducing Runoff and Drift on the back of this pamphlet.

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Table of Pesticide Active Ingr	edients				·				
Active Ingredient	COCHISE PINCUSHION CACTUS	Shading Pattern DESERT PUPFISH GILA (YAQUI) TOPMINNOW		GILA (YAQUI) TOPMINNOW YAQUI CHUB YAQUI CHUB					
	Code	Code	TAR*	Code	TAR*				
2,4-D (all forms)	29								
ALDICARB		2a							
AZINE	29								
AZINPHOS-METHYL	<del></del>	2a	•						
BENOMYL BENSULIDE		2a		_					
CAPTAN	<del>-</del>	2a		• •					
CARBARYL	<del></del>	1a		1x	<del>.</del>				
CARBOFURAN	<u></u> ·	3a 2a		3x					
CHLOROTHALONIL		2a 2a							
CHLORPYRIFOS									
Alfalfa	<u></u>	43a	<del></del>	43a					
Apples	_	41a		41a					
All Other Uses Except									
as a Termiticide	_	3a		3x,10a					
CLOPYRALID	29			. —					
COPPER SULFATE (all salts)		2a							
DIAZINON Granular Formulations and									
Soil-incorporated Liquids		2a `		0-					
Liquids not Soil-incorporated	<u>-</u>	2a 3a		2a 3x					
DICAMBA (all forms)	29		_						
DICHLORPROP (2,4-DP)	29	-							
DICOFOL		2a							
DICROTOPHOS	<del></del>	2a							
DISULFOTON		2a							
ENDOSULFAN		2a							
ETHION		2a			-				
ETHOPROP		2a		-					
FENAMIPHOS	****	2a							
FONOFOS		2a	, <del>-</del>		_				
HEXAZINONE	29		-						
ISOFENPHOS	<del></del>	2a							

# **Reducing Runoff and Drift**

Careful use of pesticides can diminish harm to the environment and reduce exposure of endangered and threatened species to pesticides. Using pesticide runoff and drift measures may be helpful in keeping more of the applied pesticide on the field and may also lower your costs of pesticides.

#### Runoff

Where possible, use methods which reduce soil erosion, such as limited till and contour plowing; these methods also reduce pesticide runoff.

Where feasible, use application techniques such as T banding and in-furrow techniques, which incorporate the pesticide into the soil.

Pesticides with ground water warning labels are more likely to enter ground and surface water than those without such warnings. When possible, use a pesticide that does not contain a ground water warning label.

Keep Informed about changing weather conditions, and try to avoid pesticide application when heavy rainfall is expected.

#### Drift

Wind direction, speed, and evaporation are important factors in reducing drift. Most importantly, pesticides should be applied when the wind direction is away from areas of concern; try to avoid application during periods of high winds. Avoiding applications during the hottest part of the day, when evaporation is highest, will further reduce drift.

When high winds and excessive evaporation are not present, a drift retardant may be useful for aerial applications.

Using the largest droplet size compatible with the pesticide coverage will reduce drift. Typically, higher spray volumes will also result in less drift.

For the Protection of Your Land, Always Read and Follow Label Directions



United States Environmental Protection Agency (7506C) Washington, DC 20460

Official Business Penalty for Private Use \$300