

Appendix J

**Example Output from PRZM, T-REX, TerrPlant, T-HERPS
Expanded T-HERPS Table (Section 5.2.1.2, Tables 5.14 and 5.15)**

PRZM Example Output

stored as RLFalmondAr.out

Chemical: oxyfluorfen

PRZM environment: CAalmond_WirrigSTD.txt modified Wedday, 13 June 2007 at 11:17:16

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30

Metfile: w23232.dvf modified Wedday, 3 July 2002 at 09:04:22

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	1.379	0.9388	0.361	0.1887	0.1604	0.09454
1962	1.468	1.033	0.468	0.2964	0.2676	0.2115
1963	1.599	1.163	0.61	0.42	0.3868	0.3067
1964	1.636	1.206	0.6366	0.4623	0.4293	0.3518
1965	1.67	1.236	0.6639	0.4897	0.4578	0.3765
1966	1.683	1.259	0.6738	0.5034	0.4704	0.3907
1967	1.714	1.284	0.7154	0.5345	0.4996	0.4153
1968	1.711	1.274	0.7016	0.531	0.4968	0.4132
1969	1.722	1.288	0.7135	0.5402	0.5058	0.4235
1970	1.726	1.291	0.7252	0.5476	0.5131	0.4318
1971	1.734	1.305	0.7282	0.555	0.5219	0.4361
1972	1.732	1.296	0.7168	0.547	0.5136	0.4322
1973	1.741	1.309	0.7366	0.5623	0.5265	0.4425
1974	1.735	1.301	0.7246	0.5539	0.5202	0.4343
1975	1.732	1.298	0.722	0.5498	0.5174	0.4282
1976	1.718	1.283	0.7075	0.5411	0.5117	0.4234
1977	1.719	1.287	0.7159	0.5378	0.5069	0.4269
1978	1.742	1.309	0.7303	0.5578	0.5248	0.4436
1979	1.744	1.31	0.7366	0.5596	0.5275	0.443
1980	1.779	1.331	0.739	0.5618	0.5278	0.4433
1981	1.739	1.304	0.7336	0.5564	0.5225	0.4428
1982	1.805	1.357	0.7934	0.6017	0.5637	0.477
1983	1.781	1.347	0.7765	0.6108	0.574	0.4828
1984	1.766	1.331	0.763	0.5876	0.5535	0.4625
1985	1.747	1.316	0.7389	0.5659	0.5311	0.4458
1986	1.752	1.323	0.7467	0.5708	0.5365	0.4517
1987	1.744	1.306	0.7341	0.5588	0.5249	0.4399
1988	1.731	1.295	0.7278	0.5481	0.5134	0.4274
1989	1.72	1.283	0.711	0.5363	0.5037	0.4239
1990	1.758	1.313	0.7292	0.5541	0.519	0.4333

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	1.805	1.357	0.7934	0.6108	0.574	0.4828
0.0645161290322581	1.781	1.347	0.7765	0.6017	0.5637	0.477
0.0967741935483871	1.779	1.331	0.763	0.5876	0.5535	0.4625
0.129032258064516	1.766	1.331	0.7467	0.5708	0.5365	0.4517
0.161290322580645	1.758	1.323	0.739	0.5659	0.5311	0.4458
0.193548387096774	1.752	1.316	0.7389	0.5623	0.5278	0.4436

0.225806451612903	1.747	1.313	0.7366	0.5618	0.5275	
0.4433						
0.258064516129032	1.744	1.31	0.7366	0.5596	0.5265	0.443
0.290322580645161	1.744	1.309	0.7341	0.5588	0.5249	
0.4428						
0.32258064516129	1.742	1.309	0.7336	0.5578	0.5248	
0.4425						
0.354838709677419	1.741	1.306	0.7303	0.5564	0.5225	
0.4399						
0.387096774193548	1.739	1.305	0.7292	0.555	0.5219	0.4361
0.419354838709677	1.735	1.304	0.7282	0.5541	0.5202	
0.4343						
0.451612903225806	1.734	1.301	0.7278	0.5539	0.519	0.4333
0.483870967741936	1.732	1.298	0.7252	0.5498	0.5174	
0.4322						
0.516129032258065	1.732	1.296	0.7246	0.5481	0.5136	
0.4318						
0.548387096774194	1.731	1.295	0.722	0.5476	0.5134	0.4282
0.580645161290323	1.726	1.291	0.7168	0.547	0.5131	0.4274
0.612903225806452	1.722	1.288	0.7159	0.5411	0.5117	
0.4269						
0.645161290322581	1.72	1.287	0.7154	0.5402	0.5069	
0.4239						
0.67741935483871	1.719	1.284	0.7135	0.5378	0.5058	
0.4235						
0.709677419354839	1.718	1.283	0.711	0.5363	0.5037	0.4234
0.741935483870968	1.714	1.283	0.7075	0.5345	0.4996	
0.4153						
0.774193548387097	1.711	1.274	0.7016	0.531	0.4968	0.4132
0.806451612903226	1.683	1.259	0.6738	0.5034	0.4704	
0.3907						
0.838709677419355	1.67	1.236	0.6639	0.4897	0.4578	
0.3765						
0.870967741935484	1.636	1.206	0.6366	0.4623	0.4293	
0.3518						
0.903225806451613	1.599	1.163	0.61	0.42	0.3868	0.3067
0.935483870967742	1.468	1.033	0.468	0.2964	0.2676	0.2115
0.967741935483871	1.379	0.9388		0.361	0.1887	0.1604
0.09454						

0.1	1.7777	1.331	0.76137	0.58592	0.5518	0.46142
Average of yearly averages:						0.408538

Inputs generated by pe5.pl - Novemeber 2006

Data used for this run:

Output File: RLFalmondAr

Metfile: w23232.dvf

PRZM scenario: CAalmond_WirrigSTD.txt

EXAMS environment file: pond298.exv

Chemical Name: oxyfluorfen

Description	Variable Name	Value	Units	Comments
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Molecular weight	mwt	361.7	g/mol	
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Henry's Law Const.	henry	8.21e-7	atm-m ³ /mol	
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Vapor Pressure	vapr	2.5e-7	torr	
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Solubility	sol	1.16	mg/L	
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Kd	Kd		mg/L	
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Koc Koc 12233 mg/L
 Photolysis half-life kdp 7.5 days Half-life
 Aerobic Aquatic Metabolism kbacw 50 days Halfife
 Anaerobic Aquatic Metabolism kbacs 1308 days Halfife
 Aerobic Soil Metabolism asm 402 days Halfife
 Hydrolysis: pH 7 0 days Half-life
 Method: CAM 1 integer See PRZM manual
 Incorporation Depth: DEPI 0 cm
 Application Rate: TAPP 0.56 kg/ha
 Application Efficiency: APPEFF 0.95 fraction
 Spray Drift DRFT 0.05 fraction of application rate applied to pond
 Application Date Date 01-04 dd/mm or dd/mm or dd-mm or dd-mmm
 Record 17: FILTRA
 IPSCND 1
 UPTKF
 Record 18: PLVKRT
 PLDKRT
 FEXTRC 0.5
 Flag for Index Res. Run IR EPA Pond
 Flag for runoff calc. RUNOFF none none, monthly or
 total(average of entire run)

T-REX Example Output

T-REX output based on 4 liquid applications of oxyfluorfen at 2 lb a.i./acre each, spaced 30 days apart.

Summary of Risk Quotient Calculations Based on Upper Bound Kenaga EECs

Table J-1 Upper Bound Kenaga, Acute Avian Dose-Based Risk Quotients									
Size Class (grams)	Adjusted LD50	EECs and RQs							
		Short Grass		Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects	
		EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
20	1548.92	1107.03	0.71	507.39	0.33	622.70	0.40	69.19	0.04
100	1971.86	631.28	0.32	289.33	0.15	355.09	0.18	39.45	0.02
1000	2785.32	282.63	0.10	129.54	0.05	158.98	0.06	17.66	0.01

Table J-2 Upper Bound Kenaga, Subacute Avian Dietary Based Risk Quotients								
LC50	EECs and RQs							
	Short Grass		Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
5000	972.02	0.19	445.51	0.09	546.76	0.11	60.75	0.01

Size class not used for dietary risk quotients

Table J-3 Upper Bound Kenaga, Chronic Avian Dietary Based Risk Quotients								
NOAEC (ppm)	EECs and RQs							
	Short Grass		Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
124	972.02	7.84	445.51	3.59	546.76	4.41	60.75	0.49

Size class not used for dietary risk quotients

Table J-4 Upper Bound Kenaga, Acute Mammalian Dose-Based Risk Quotients											
Size Class (grams)	Adjusted LD50	EECs and RQs									
		Short Grass		Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects		Granivore	
		EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
15	10989.15	926.74	0.08	424.76	0.04	521.29	0.05	57.92	0.01	12.87	0.00
35	8891.40	640.50	0.07	293.56	0.03	360.28	0.04	40.03	0.00	8.90	0.00
1000	3845.80	148.50	0.04	68.06	0.02	83.53	0.02	9.28	0.00	2.06	0.00

Table J-5 Upper Bound Kenaga, Acute Mammalian Dietary Based Risk Quotients								
LC50 (ppm)	EECs and RQs							
	Short Grass		Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
0	972.02	#####	445.51	#####	546.76	#####	60.75	#####

Size class not used for dietary risk quotients

Table J-6 Upper Bound Kenaga, Chronic Mammalian Dietary Based Risk Quotients								
NOAEC (ppm)	EECs and RQs							
	Short Grass		Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
400	972.02	2.43	445.51	1.11	546.76	1.37	60.75	0.15

Size class not used for dietary risk quotients

Table J-7 Upper Bound Kenaga, Chronic Mammalian Dose-Based Risk Quotients											
Size Class (grams)	Adjusted NOAEL	EECs and RQs									
		Short Grass		Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects		Granivore	
		EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
15	43.96	926.74	21.08	424.76	9.66	521.29	11.86	57.92	1.32	12.87	0.29
35	35.57	640.50	18.01	293.56	8.25	360.28	10.13	40.03	1.13	8.90	0.25
1000	15.38	148.50	9.65	68.06	4.42	83.53	5.43	9.28	0.60	2.06	0.13

TerrPlant Example Output

TerrPlant output based on a single liquid ground application of 2 lb a.i./acre.

Table J-8 EECs for pesticide x. Units in y.		
Description	Equation	EEC
Runoff to dry areas	$(A/I)*R$	0.02
Runoff to semi-aquatic areas	$(A/I)*R*10$	0.2
Spray drift	A*D	0.02
Total for dry areas	$((A/I)*R)+(A*D)$	0.04
Total for semi-aquatic areas	$((A/I)*R*10)+(A*D)$	0.22

Table J-9 RQ values for plants in dry and semi-aquatic areas exposed to pesticide x through runoff and/or spray drift.*				
Plant Type	Listed Status	Dry	Semi-Aquatic	Spray Drift
Monocot	non-listed	6.45	35.48	3.23
Monocot	listed	#DIV/0!	#DIV/0!	#DIV/0!
Dicot	non-listed	5.56	30.56	2.78
Dicot	listed	#DIV/0!	#DIV/0!	#DIV/0!
*If RQ > 1.0, the LOC is exceeded, resulting in potential for risk to that plant group.				

T-HERPS Example Output

T-HERPS output based on 4 liquid applications of oxyfluorfen at 2 lb a.i./acre each, spaced 30 days apart.

Summary of Risk Quotient Calculations Based on Upper Bound Kenaga EECs

Table J-10 Upper Bound Kenaga, Acute Terrestrial Herpetofauna Dose-Based Risk Quotients											
Size Class (grams)	Adjusted LD50	EECs and RQs									
		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects		Small Herbivore Mammals		Small Insectivore Mammal		Small Amphibians	
		EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
1.4	2150.00	21.24	0.01	2.36	0.00	N/A	N/A	N/A	N/A	N/A	N/A
37	2150.00	20.88	0.01	2.32	0.00	605.88	0.28	37.87	0.02	0.72	0.00
238	2150.00	13.68	0.01	1.52	0.00	94.19	0.04	5.89	0.00	0.47	0.00

Table J-11 Upper Bound Kenaga, Subacute Terrestrial Herpetofauna Dietary Based Risk Quotients										
LC50 (ppm)	EECs and RQs									
	Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects		Small Herbivore Mammals		Small Insectivore Mammals		Small Amphibians	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
5000	546.76	0.11	60.75	0.01	640.50	0.13	40.03	0.01	18.98	0.00

Size class not used for dietary risk quotients

Table J-12 Upper Bound Kenaga, Chronic Terrestrial Herpetofauna Dietary Based Risk Quotients										
NOAEC (ppm)	EECs and RQs									
	Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects		Small Herbivore Mammals		Small Insectivore Mammals		Small Amphibians	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
124	546.76	4.41	60.75	0.49	640.50	5.17	40.03	0.32	18.98	0.15

Size class not used for dietary risk quotients

Expanded T-HERPS Tables (Section 5.2.1.2, Tables 5.14 and 5.15)

Table J-13 Terrestrial-Phase Amphibian Dose-based RQ Values Based on T-HERPS for Direct Effects to the CRLF from Ingestion of Residues on or in Prey Items (Based on Liquid Applications of Oxyfluorfen)									
Scenario	Method ¹	Application Rate	Food Item	Small (1.4 g)		Medium (37 g)		Large (238 g)	
				Dose-based EEC (ppm)	Dosed-based Acute RQ	Dose-based EEC (ppm)	Dose-based EEC (ppm)	Dosed-based Acute RQ	Dose-based EEC (ppm)
Orchard Uses									
CA Avocado RLF CA Olive RLF	G	1 app @ 2 lb a.i./acre	Broadleaf plants/sm insects	10.49	<0.01	10.31	<0.01	6.76	<0.01
			Fruits/pods/seeds/lg insects	1.17	<0.01	1.15	<0.01	0.75	<0.01
			Small herbivore mammals	N/A	N/A	299.20	0.14*	46.51	0.02
			Small insectivore mammals	N/A	N/A	18.70	0.01	2.91	<0.01
			Small terrestrial amphibians	N/A	N/A	0.36	<0.01	0.23	<0.01
CA Almond STD	G	1 app @ 2 lb a.i./acre	Broadleaf plants/sm insects	10.49	<0.01	10.31	<0.01	6.76	<0.01
			Fruits/pods/seeds/lg insects	1.17	<0.01	1.15	<0.01	0.75	<0.01
			Small herbivore mammals	N/A	N/A	299.20	0.14*	46.51	0.02
			Small insectivore mammals	N/A	N/A	18.70	0.01	2.91	<0.01
			Small terrestrial amphibians	N/A	N/A	0.36	<0.01	0.23	<0.01
	A	1 app @ 0.5 lb a.i./acre	Broadleaf plants/sm insects	2.62	<0.01	2.58	<0.01	1.69	<0.01
			Fruits/pods/seeds/lg insects	0.29	<0.01	0.29	<0.01	0.19	<0.01
			Small herbivore mammals	N/A	N/A	74.80	0.03	11.63	0.01
			Small insectivore mammals	N/A	N/A	4.67	<0.01	0.73	<0.01
			Small terrestrial amphibians	N/A	N/A	0.09	<0.01	0.06	<0.01
CA Citrus STD	G	2 apps @ 2 lb a.i./acre (30 day interval)	Broadleaf plants/sm insects	16.28	0.01	16.00	0.01	10.49	<0.01
			Fruits/pods/seeds/lg insects	1.81	<0.01	1.78	<0.01	1.17	<0.01
			Small herbivore mammals	N/A	N/A	464.37	0.22*	72.19	0.03
			Small insectivore mammals	N/A	N/A	29.02	0.01	4.51	<0.01
			Small terrestrial amphibians	N/A	N/A	0.56	<0.01	0.36	<0.01
	A	3 apps @ 0.5 lb a.i./acre (30 day interval)	Broadleaf plants/sm insects	4.87	<0.01	4.79	<0.01	3.14	<0.01
			Fruits/pods/seeds/lg insects	0.54	<0.01	0.53	<0.01	0.35	<0.01
			Small herbivore mammals	N/A	N/A	138.89	0.06	21.59	0.01
			Small insectivore mammals	N/A	N/A	8.68	<0.01	1.35	<0.01

Table J-13 Terrestrial-Phase Amphibian Dose-based RQ Values Based on T-HERPS for Direct Effects to the CRLF from Ingestion of Residues on or in Prey Items (Based on Liquid Applications of Oxyfluorfen)

Scenario	Method ¹	Application Rate	Food Item	Small (1.4 g)		Medium (37 g)		Large (238 g)	
				Dose-based EEC (ppm)	Dosed-based Acute RQ	Dose-based EEC (ppm)	Dose-based EEC (ppm)	Dosed-based Acute RQ	Dose-based EEC (ppm)
			Small terrestrial amphibians	N/A	N/A	0.17	<0.01	0.11	<0.01
CA Fruit STD CA Grapes STD CA Wine Grapes RLF	G	1 app @ 2 lb a.i./acre	Broadleaf plants/sm insects	10.49	<0.01	10.31	<0.01	6.76	<0.01
			Fruits/pods/seeds/lg insects	1.17	<0.01	1.15	<0.01	0.75	<0.01
			Small herbivore mammals	N/A	N/A	299.20	0.14*	46.51	0.02
			Small insectivore mammals	N/A	N/A	18.70	0.01	2.91	<0.01
			Small terrestrial amphibians	N/A	N/A	0.36	<0.01	0.23	<0.01
	A	3 apps @ 0.5 lb a.i./acre (30 day interval)	Broadleaf plants/sm insects	4.87	<0.01	4.79	<0.01	3.14	<0.01
			Fruits/pods/seeds/lg insects	0.54	<0.01	0.53	<0.01	0.35	<0.01
			Small herbivore mammals	N/A	N/A	138.89	0.06	21.59	0.01
			Small insectivore mammals	N/A	N/A	8.68	<0.01	1.35	<0.01
			Small terrestrial amphibians	N/A	N/A	0.17	<0.01	0.11	<0.01
Agricultural – Food Crop Uses									
CA Cole Crop RLF CA Garlic RLF CA Lettuce STD CA Melons RLF CA Onion STD CA Potato RLF CA Strawberry RLF CA Sugarbeet OP CA Tomato STD CA Wheat RLF	G	1 app @ 0.5 lb a.i./acre	Broadleaf plants/sm insects	2.62	<0.01	2.58	<0.01	1.69	<0.01
			Fruits/pods/seeds/lg insects	0.29	<0.01	0.29	<0.01	0.19	<0.01
			Small herbivore mammals	N/A	N/A	74.80	0.03	11.63	0.01
			Small insectivore mammals	N/A	N/A	4.67	<0.01	0.73	<0.01
			Small terrestrial amphibians	N/A	N/A	0.09	<0.01	0.06	<0.01
	A	1 app @ 0.5 lb a.i./acre	Broadleaf plants/sm insects	2.62	<0.01	2.58	<0.01	1.69	<0.01
			Fruits/pods/seeds/lg insects	0.29	<0.01	0.29	<0.01	0.19	<0.01
			Small herbivore mammals	N/A	N/A	74.80	0.03	11.63	0.01
			Small insectivore mammals	N/A	N/A	4.67	<0.01	0.73	<0.01
			Small terrestrial amphibians	N/A	N/A	0.09	<0.01	0.06	<0.01
OR Mint	G	1 app @ 2 lb a.i./acre	Broadleaf plants/sm insects	10.49	<0.01	10.31	<0.01	6.76	<0.01
			Fruits/pods/seeds/lg insects	1.17	<0.01	1.15	<0.01	0.75	<0.01
			Small herbivore mammals	N/A	N/A	299.20	0.14*	46.51	0.02
			Small insectivore mammals	N/A	N/A	18.70	0.01	2.91	<0.01
			Small terrestrial amphibians	N/A	N/A	0.36	<0.01	0.23	<0.01
CA Row Crop RLF	G	1 app @ 2 lb a.i./acre	Broadleaf plants/sm insects	10.49	<0.01	10.31	<0.01	6.76	<0.01

Table J-13 Terrestrial-Phase Amphibian Dose-based RQ Values Based on T-HERPS for Direct Effects to the CRLF from Ingestion of Residues on or in Prey Items (Based on Liquid Applications of Oxyfluorfen)

Scenario	Method ¹	Application Rate	Food Item	Small (1.4 g)		Medium (37 g)		Large (238 g)	
				Dose-based EEC (ppm)	Dosed-based Acute RQ	Dose-based EEC (ppm)	Dose-based EEC (ppm)	Dosed-based Acute RQ	Dose-based EEC (ppm)
			Fruits/pods/seeds/lg insects	1.17	<0.01	1.15	<0.01	0.75	<0.01
			Small herbivore mammals	N/A	N/A	299.20	0.14*	46.51	0.02
			Small insectivore mammals	N/A	N/A	18.70	0.01	2.91	<0.01
			Small terrestrial amphibians	N/A	N/A	0.36	<0.01	0.23	<0.01
	A	1 app @ 0.5 lb a.i./acre	Broadleaf plants/sm insects	2.62	<0.01	2.58	<0.01	1.69	<0.01
			Fruits/pods/seeds/lg insects	0.29	<0.01	0.29	<0.01	0.19	<0.01
			Small herbivore mammals	N/A	N/A	74.80	0.03	11.63	0.01
			Small insectivore mammals	N/A	N/A	4.67	<0.01	0.73	<0.01
			Small terrestrial amphibians	N/A	N/A	0.09	<0.01	0.06	<0.01
			Agricultural – Non-food Crop Uses						
CA Alfalfa OP	G	1 app @ 1 lb a.i./acre & 1 app @ 0.25 lb a.i./acre (30 day interval)	Broadleaf plants/sm insects	5.24	<0.01	5.15	<0.01	3.38	<0.01
			Fruits/pods/seeds/lg insects	0.58	<0.01	0.57	<0.01	0.38	<0.01
			Small herbivore mammals	N/A	N/A	149.60	0.07	23.26	0.01
			Small insectivore mammals	N/A	N/A	9.35	<0.01	1.45	<0.01
			Small terrestrial amphibians	N/A	N/A	0.18	<0.01	0.12	<0.01
CA Cotton STD	G	2 apps @ 0.5 lb a.i./acre (30 day interval)	Broadleaf plants/sm insects	4.07	<0.01	4.00	<0.01	2.62	<0.01
			Fruits/pods/seeds/lg insects	0.45	<0.01	0.44	<0.01	0.29	<0.01
			Small herbivore mammals	N/A	N/A	116.09	0.05	18.05	0.01
			Small insectivore mammals	N/A	N/A	7.26	<0.01	1.13	<0.01
			Small terrestrial amphibians	N/A	N/A	0.14	<0.01	0.09	<0.01
	A	1 app @ 0.5 lb a.i./acre	Broadleaf plants/sm insects	2.62	<0.01	2.58	<0.01	1.69	<0.01
			Fruits/pods/seeds/lg insects	0.29	<0.01	0.29	<0.01	0.19	<0.01
			Small herbivore mammals	N/A	N/A	74.80	0.03	11.63	0.01
			Small insectivore mammals	N/A	N/A	4.67	<0.01	0.73	<0.01
			Small terrestrial amphibians	N/A	N/A	0.09	<0.01	0.06	<0.01
CA Rangeland Hay RLF	G	1 app @ 2 lb a.i./acre	Broadleaf plants/sm insects	10.49	<0.01	10.31	<0.01	6.76	<0.01
			Fruits/pods/seeds/lg insects	1.17	<0.01	1.15	<0.01	0.75	<0.01
			Small herbivore mammals	N/A	N/A	299.20	0.14*	46.51	0.02

Table J-13 Terrestrial-Phase Amphibian Dose-based RQ Values Based on T-HERPS for Direct Effects to the CRLF from Ingestion of Residues on or in Prey Items (Based on Liquid Applications of Oxyfluorfen)

Scenario	Method ¹	Application Rate	Food Item	Small (1.4 g)		Medium (37 g)		Large (238 g)	
				Dose-based EEC (ppm)	Dosed-based Acute RQ	Dose-based EEC (ppm)	Dose-based EEC (ppm)	Dosed-based Acute RQ	Dose-based EEC (ppm)
			Small insectivore mammals	N/A	N/A	18.70	0.01	2.91	<0.01
			Small terrestrial amphibians	N/A	N/A	0.36	<0.01	0.23	<0.01
	G	4 apps @ 2 lb a.i./acre (30 day interval)	Broadleaf plants/sm insects	21.24	0.01	20.88	0.01	13.68	0.01
			Fruits/pods/seeds/lg insects	2.36	<0.01	2.32	<0.01	1.52	<0.01
			Small herbivore mammals	N/A	N/A	605.88	0.28*	94.19	0.04
			Small insectivore mammals	N/A	N/A	37.87	0.02	5.89	<0.01
			Small terrestrial amphibians	N/A	N/A	0.72	<0.01	0.47	<0.01
Non-agricultural Uses									
CA Nursery	G	4 apps @ 2 lb a.i./acre (90 day interval)	Broadleaf plants/sm insects	12.60	0.01	12.38	0.01	8.12	0.00
			Fruits/pods/seeds/lg insects	1.40	0.00	1.38	0.00	0.90	0.00
			Small herbivore mammals	N/A	N/A	359.42	0.17*	55.88	0.03
			Small insectivore mammals	N/A	N/A	22.46	0.01	3.49	0.00
			Small terrestrial amphibians	N/A	N/A	0.43	0.00	0.28	0.00
CA Forestry RLF	G	3 apps @ 1.5 lb a.i./acre (30 day interval)	Broadleaf plants/sm insects	14.61	0.01	14.36	0.01	9.41	<0.01
			Fruits/pods/seeds/lg insects	1.62	<0.01	1.60	<0.01	1.05	<0.01
			Small herbivore mammals	N/A	N/A	416.66	0.19*	64.77	0.03
			Small insectivore mammals	N/A	N/A	26.04	0.01	4.05	<0.01
			Small terrestrial amphibians	N/A	N/A	0.50	<0.01	0.33	<0.01
	G	2 apps @ 2 lb a.i./acre (30 day interval)	Broadleaf plants/sm insects	16.28	0.01	16.00	0.01	10.49	<0.01
			Fruits/pods/seeds/lg insects	1.81	<0.01	1.78	<0.01	1.17	<0.01
			Small herbivore mammals	N/A	N/A	464.37	0.22*	72.19	0.03
			Small insectivore mammals	N/A	N/A	29.02	0.01	4.51	<0.01
			Small terrestrial amphibians	N/A	N/A	0.56	<0.01	0.36	<0.01
	A	4 apps @ 0.5 lb a.i./acre (30 day interval)	Broadleaf plants/sm insects	5.31	<0.01	5.22	<0.01	3.42	<0.01
			Fruits/pods/seeds/lg insects	0.59	<0.01	0.58	<0.01	0.38	<0.01
			Small herbivore mammals	N/A	N/A	151.47	0.07	23.55	0.01
			Small insectivore mammals	N/A	N/A	9.47	<0.01	1.47	<0.01
			Small terrestrial amphibians	N/A	N/A	0.18	<0.01	0.12	<0.01

Table J-13 Terrestrial-Phase Amphibian Dose-based RQ Values Based on T-HERPS for Direct Effects to the CRLF from Ingestion of Residues on or in Prey Items (Based on Liquid Applications of Oxyfluorfen)

Scenario	Method ¹	Application Rate	Food Item	Small (1.4 g)		Medium (37 g)		Large (238 g)	
				Dose-based EEC (ppm)	Dosed-based Acute RQ	Dose-based EEC (ppm)	Dose-based EEC (ppm)	Dosed-based Acute RQ	Dose-based EEC (ppm)
CA Residential RLF CA Right-of-Way RLF CA Turf RLF	G	1 app @ 2 lb a.i./acre	Broadleaf plants/sm insects	10.49	<0.01	10.31	<0.01	6.76	<0.01
			Fruits/pods/seeds/lg insects	1.17	<0.01	1.15	<0.01	0.75	<0.01
			Small herbivore mammals	N/A	N/A	299.20	0.14*	46.51	0.02
			Small insectivore mammals	N/A	N/A	18.70	0.01	2.91	<0.01
			Small terrestrial amphibians	N/A	N/A	0.36	<0.01	0.23	<0.01
	G	4 apps @ 2 lb a.i./acre (30 day interval)	Broadleaf plants/sm insects	21.24	0.01	20.88	0.01	13.68	0.01
			Fruits/pods/seeds/lg insects	2.36	<0.01	2.32	<0.01	1.52	<0.01
			Small herbivore mammals	N/A	N/A	605.88	0.28*	94.19	0.04
			Small insectivore mammals	N/A	N/A	37.87	0.02	5.89	<0.01
			Small terrestrial amphibians	N/A	N/A	0.72	<0.01	0.47	<0.01

¹G = ground application. A = aerial application.

*Exceeds acute LOC (RQ ≥ 0.1).

Table J-14 T-HERPS Terrestrial-Phase Amphibian Dietary-based RQ Values for Direct Effects to the CRLF from Ingestion of Residues on or in Prey Items (Based on Liquid Applications of Oxyfluorfen)

Scenario	Method ¹	Application Rate	Food Item	Dietary-based EEC (ppm)	Dietary-based Chronic RQ
Orchard Uses					
CA Avocado RLF CA Olive RLF	G	1 app @ 2 lb a.i./acre	Broadleaf plants/sm insects	270.00	2.18 ⁺
			Fruits/pods/seeds/lg insects	30.00	0.24
			Small herbivore mammals	316.29	2.55 ⁺
			Small insectivore mammals	19.77	0.16
			Small terrestrial amphibians	9.37	0.08
CA Almond STD	G	1 app @ 2 lb a.i./acre	Broadleaf plants/sm insects	270.00	2.18 ⁺
			Fruits/pods/seeds/lg insects	30.00	0.24
			Small herbivore mammals	316.29	2.55 ⁺
			Small insectivore mammals	19.77	0.16
			Small terrestrial amphibians	9.37	0.08
	A	1 app @ 0.5 lb a.i./acre	Broadleaf plants/sm insects	67.50	0.54
			Fruits/pods/seeds/lg insects	7.50	0.06
			Small herbivore mammals	79.07	0.64
			Small insectivore mammals	4.94	0.04
			Small terrestrial amphibians	2.34	0.02
CA Citrus STD	G	2 apps @ 2 lb a.i./acre (30 day interval)	Broadleaf plants/sm insects	419.05	3.38 ⁺
			Fruits/pods/seeds/lg insects	46.56	0.38
			Small herbivore mammals	490.90	3.96 ⁺
			Small insectivore mammals	30.68	0.25
			Small terrestrial amphibians	14.55	0.12
	A	3 apps @ 0.5 lb a.i./acre (30 day interval)	Broadleaf plants/sm insects	125.33	1.01 ⁺
			Fruits/pods/seeds/lg insects	13.93	0.11
			Small herbivore mammals	146.82	1.18 ⁺
			Small insectivore mammals	9.18	0.07
			Small terrestrial amphibians	4.35	0.04
CA Fruit STD CA Grapes STD CA Wine Grapes RLF	G	1 app @ 2 lb a.i./acre	Broadleaf plants/sm insects	270.00	2.18 ⁺
			Fruits/pods/seeds/lg insects	30.00	0.24
			Small herbivore mammals	316.29	2.55 ⁺
			Small insectivore mammals	19.77	0.16
			Small terrestrial amphibians	9.37	0.08
	A	3 apps @ 0.5 lb a.i./acre (30 day interval)	Broadleaf plants/sm insects	125.33	1.01 ⁺
			Fruits/pods/seeds/lg insects	13.93	0.11
			Small herbivore mammals	146.82	1.18 ⁺
			Small insectivore mammals	9.18	0.07
			Small terrestrial amphibians	4.35	0.04
Agricultural – Food Crop Uses					
CA Cole Crop RLF CA Garlic RLF CA Lettuce STD CA Melons RLF CA Onion STD CA Potato RLF CA Strawberry RLF CA Sugarbeet OP	G	1 app @ 0.5 lb a.i./acre	Broadleaf plants/sm insects	67.50	0.54
			Fruits/pods/seeds/lg insects	7.50	0.06
			Small herbivore mammals	79.07	0.64
			Small insectivore mammals	4.94	0.04
			Small terrestrial amphibians	2.34	0.02
	A	1 app @ 0.5 lb a.i./acre	Broadleaf plants/sm insects	67.50	0.54
			Fruits/pods/seeds/lg insects	7.50	0.06
			Small herbivore mammals	79.07	0.64

Table J-14 T-HERPS Terrestrial-Phase Amphibian Dietary-based RQ Values for Direct Effects to the CRLF from Ingestion of Residues on or in Prey Items (Based on Liquid Applications of Oxyfluorfen)

Scenario	Method ¹	Application Rate	Food Item	Dietary-based EEC (ppm)	Dietary-based Chronic RQ
CA Tomato STD			Small insectivore mammals	4.94	0.04
CA Wheat RLF			Small terrestrial amphibians	2.34	0.02
OR Mint	G	1 app @ 2 lb a.i./acre	Broadleaf plants/sm insects	270.00	2.18⁺
			Fruits/pods/seeds/lg insects	30.00	0.24
			Small herbivore mammals	316.29	2.55⁺
			Small insectivore mammals	19.77	0.16
			Small terrestrial amphibians	9.37	0.08
CA Row Crop RLF	G	1 app @ 2 lb a.i./acre	Broadleaf plants/sm insects	270.00	2.18⁺
			Fruits/pods/seeds/lg insects	30.00	0.24
			Small herbivore mammals	316.29	2.55⁺
			Small insectivore mammals	19.77	0.16
			Small terrestrial amphibians	9.37	0.08
	A	1 app @ 0.5 lb a.i./acre	Broadleaf plants/sm insects	67.50	0.54
			Fruits/pods/seeds/lg insects	7.50	0.06
			Small herbivore mammals	79.07	0.64
			Small insectivore mammals	4.94	0.04
			Small terrestrial amphibians	2.34	0.02
Agricultural – Non-food Crop Uses					
CA Alfalfa OP	G	1 app @ 1 lb a.i./acre & 1 app @ 0.25 lb a.i./acre (30 day interval)	Broadleaf plants/sm insects	135.00	1.09⁺
			Fruits/pods/seeds/lg insects	15.00	0.12
			Small herbivore mammals	158.15	1.28⁺
			Small insectivore mammals	9.88	0.08
			Small terrestrial amphibians	4.69	0.04
CA Cotton STD	G	2 apps @ 0.5 lb a.i./acre (30 day interval)	Broadleaf plants/sm insects	104.76	0.84
			Fruits/pods/seeds/lg insects	11.64	0.09
			Small herbivore mammals	122.73	0.99
			Small insectivore mammals	7.67	0.06
			Small terrestrial amphibians	3.64	0.03
	A	1 app @ 0.5 lb a.i./acre	Broadleaf plants/sm insects	67.50	0.54
			Fruits/pods/seeds/lg insects	7.50	0.06
			Small herbivore mammals	79.07	0.64
			Small insectivore mammals	4.94	0.04
			Small terrestrial amphibians	2.34	0.02
CA Rangeland Hay RLF	G	1 app @ 2 lb a.i./acre	Broadleaf plants/sm insects	270.00	2.18⁺
			Fruits/pods/seeds/lg insects	30.00	0.24
			Small herbivore mammals	316.29	2.55⁺
			Small insectivore mammals	19.77	0.16
			Small terrestrial amphibians	9.37	0.08
	G	4 apps @ 2 lb a.i./acre (30 day interval)	Broadleaf plants/sm insects	546.76	4.41⁺
			Fruits/pods/seeds/lg insects	60.75	0.49
			Small herbivore mammals	640.50	5.17⁺
			Small insectivore mammals	40.03	0.32
			Small terrestrial amphibians	18.98	0.15
Non-agricultural Uses					
CA Nursery	G	4 apps @ 2 lb a.i./acre (90 day interval)	Broadleaf plants/sm insects	324.35	2.62⁺
			Fruits/pods/seeds/lg insects	36.04	0.29

Table J-14 T-HERPS Terrestrial-Phase Amphibian Dietary-based RQ Values for Direct Effects to the CRLF from Ingestion of Residues on or in Prey Items (Based on Liquid Applications of Oxyfluorfen)

Scenario	Method ¹	Application Rate	Food Item	Dietary-based EEC (ppm)	Dietary-based Chronic RQ
			Small herbivore mammals	379.96	3.06⁺
			Small insectivore mammals	23.75	0.19
			Small terrestrial amphibians	11.26	0.09
CA Forestry RLF	G	3 apps @ 1.5 lb a.i./acre (30 day interval)	Broadleaf plants/sm insects	376.00	3.03⁺
			Fruits/pods/seeds/lg insects	41.78	0.34
			Small herbivore mammals	440.47	3.55⁺
			Small insectivore mammals	27.53	0.22
			Small terrestrial amphibians	13.05	0.11
	G	2 apps @ 2 lb a.i./acre (30 day interval)	Broadleaf plants/sm insects	419.05	3.38⁺
			Fruits/pods/seeds/lg insects	46.56	0.38
			Small herbivore mammals	490.90	3.96⁺
			Small insectivore mammals	30.68	0.25
	A	4 apps @ 0.5 lb a.i./acre (30 day interval)	Small terrestrial amphibians	14.55	0.12
			Broadleaf plants/sm insects	136.69	1.10⁺
			Fruits/pods/seeds/lg insects	15.19	0.12
			Small herbivore mammals	160.13	1.29⁺
			Small insectivore mammals	10.01	0.08
			Small terrestrial amphibians	4.74	0.04
CA Residential RLF CA Right-of-Way RLF CA Turf RLF	G	1 app @ 2 lb a.i./acre	Broadleaf plants/sm insects	270.00	2.18⁺
			Fruits/pods/seeds/lg insects	30.00	0.24
			Small herbivore mammals	316.29	2.55⁺
			Small insectivore mammals	19.77	0.16
			Small terrestrial amphibians	9.37	0.08
	G	4 apps @ 2 lb a.i./acre (30 day interval)	Broadleaf plants/sm insects	546.76	4.41⁺
			Fruits/pods/seeds/lg insects	60.75	0.49
			Small herbivore mammals	640.50	5.17⁺
			Small insectivore mammals	40.03	0.32
			Small terrestrial amphibians	18.98	0.15

¹G = ground application. A = aerial application.

⁺Exceeds chronic LOC (RQ ≥ 1.0).