

Appendix L. Sensitivity distribution data

Table L1. Acute toxicity data (96-h LC₅₀) for freshwater fish exposed to dicofol.

Species	common name	LC ₅₀ value (µg/L)	Log transformed LC ₅₀ value	Source
<i>Ictalurus punctatus</i>	channel catfish	360	2.556302501	40098001
<i>Lepomis macrochirus</i>	bluegill sunfish	510	2.707570176	GS0021004
<i>Lepomis macrochirus</i>	bluegill sunfish	520	2.716003344	40098001
<i>Micropterus salmoides</i>	largemouth bass	395	2.596597096	40098001
<i>Oncorhynchus clarki</i>	cutthroat trout	53	1.72427587	40098001
<i>O. clarki</i>	cutthroat trout	53.1	1.725094521	GS0021002
<i>O. clarki</i>	cutthroat trout	158	2.198657087	40098001
<i>O. mykiss</i>	rainbow trout	124.3	2.094471129	41695401
<i>Pimephales promelas</i>	fathead minnow	509	2.706717782	GS0021018
<i>Pimephales promelas</i>	fathead minnow	603	2.780317312	ECOTOX # 12859
<i>Salvelinus namaycush</i>	lake trout	86.9	1.939019776	GS0021001
<i>S. namaycush</i>	lake trout	87	1.939519253	40098001

Table L2. Log transformed mean LC₅₀ values for fish species exposed to dicofol.

Species	Common Name	mean Log transformed LC ₅₀ value
<i>Oncorhynchus clarki</i>	cutthroat trout	1.882675826
<i>O. mykiss</i>	rainbow trout	2.094471129
<i>Salvelinus namaycush</i>	lake trout	1.939269515
<i>Ictalurus punctatus</i>	channel catfish	2.556302501
<i>Micropterus salmoides</i>	largemouth bass	2.596597096
<i>Lepomis macrochirus</i>	bluegill sunfish	2.71178676
<i>Pimephales promelas</i>	fathead minnow	2.743517547

Table L3. Log transformed mean LC₅₀ values for fish genera exposed to dicofol.

Genus	mean Log transformed LC ₅₀ value	mean LC ₅₀ value	Rank
<i>Oncorhynchus</i>	1.988573477	97.40325657	0.103
<i>Salvelinus</i>	1.939269515	86.94998562	0.08
<i>Ictalurus</i>	2.556302501	360	0.651
<i>Micropterus</i>	2.596597096	395	0.692
<i>Lepomis</i>	2.71178676	514.9757276	0.798
<i>Pimephales</i>	2.743517547	554.0099277	0.823
Mean	2.422674483		
standard deviation	0.362423992		
number genera	6		

Table L4. Calculation of genus sensitivity distribution curve for fish exposed to dicofol (acute exposures).

Proportion	t statistic	Mean Log10 point estimate of EC/LC/LD₅₀	Mean Point estimate of EC/LC/LD₅₀
0.05	-2.015	1.692	49.2
0.10	-1.476	1.888	77.2
0.15	-1.156	2.004	100.9
0.20	-0.920	2.089	122.9
0.25	-0.727	2.159	144.3
0.30	-0.559	2.220	165.9
0.35	-0.408	2.275	188.2
0.40	-0.267	2.326	211.8
0.45	-0.132	2.375	237.0
0.50	0.000	2.423	264.7
0.55	0.132	2.471	295.5
0.60	0.267	2.520	330.8
0.65	0.408	2.571	372.1
0.70	0.559	2.625	422.1
0.75	0.727	2.686	485.3
0.80	0.920	2.756	570.1
0.85	1.156	2.842	694.3
0.90	1.476	2.958	906.9
0.95	2.015	3.153	1422.3

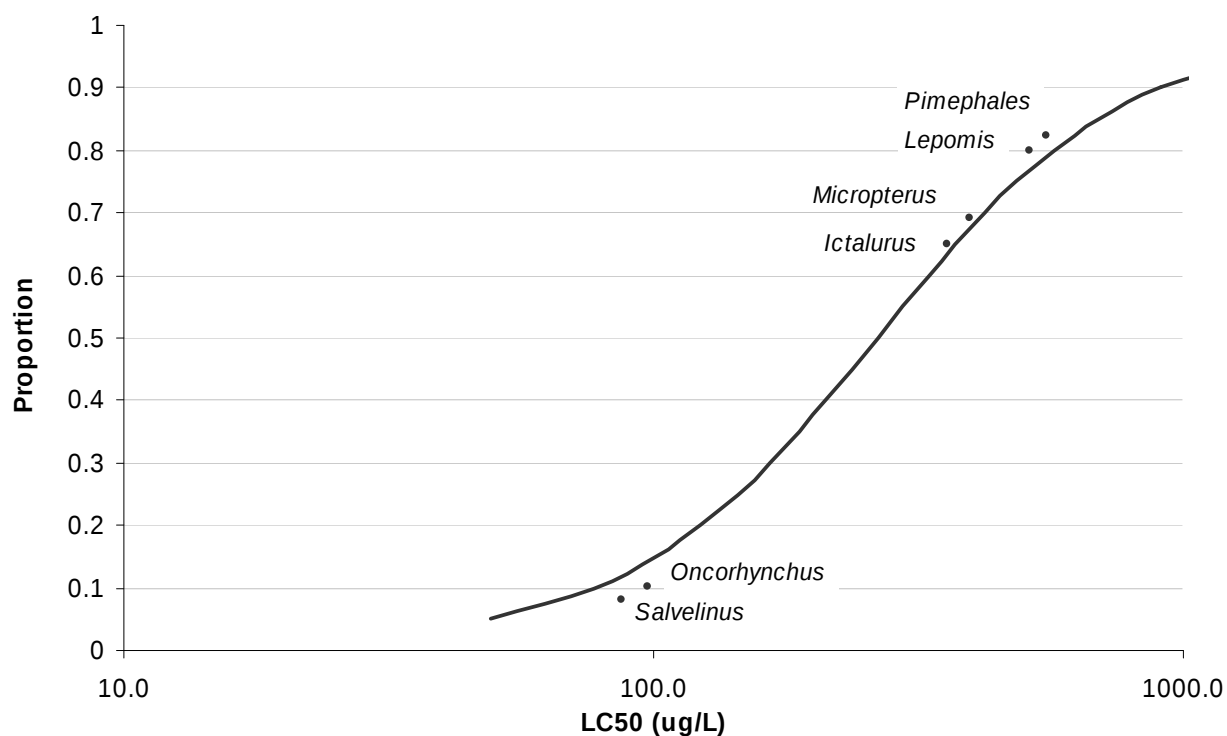


Figure L1. Genus sensitivity distribution for acute (96-h) exposures of fish to dicofol.

Table L5. Subacute toxicity data for birds exposed to dicofol.

Species	LC ₅₀ (ppm)	Log transformed LC ₅₀	Source
<i>Coturnix japonica</i>	905	2.9566	ECOTOX# 35240
<i>Coturnix japonica</i>	1237	3.0924	GS0021010
<i>Coturnix japonica</i>	1418	3.1517	ECOTOX# 35214
<i>Coturnix japonica</i>	1545	3.1889	GS0021011
<i>Coturnix japonica</i>	1746	3.2420	GS0021012
<i>Anas platyrhynchos</i>	1651	3.2177	MRID 22923
<i>Phasianus colchicus</i>	2126	3.3276	MRID 22923
<i>Colinus virginianus</i>	3010	3.4786	MRID 22923

Table L6. Log transformed mean LC₅₀ values for bird species exposed to dicofol.

Species	Mean transformed log value	Mean LC ₅₀ value (ppm)	Rank
<i>Coturnix japonica</i>	3.1263	1338	0.166
<i>Anas platyrhynchos</i>	3.2177	1651	0.328
<i>Phasianus colchicus</i>	3.3276	2126	0.601
<i>Colinus virginianus</i>	3.4786	3010	0.867
Mean	3.2876		
Stdev	0.151604297		
# species	4		

Table L7. Calculation of species sensitivity distribution curve for birds exposed to dicofol (subacute exposures).

Proportion	t statistic	Mean point estimate of EC/LC/LD₅₀	Mean estimate of EC/LC/LD₅₀	Point of
0.05	-2.920	2.845	699.6	
0.10	-1.886	3.002	1003.9	
0.15	-1.386	3.077	1195.1	
0.20	-1.061	3.127	1338.9	
0.25	-0.816	3.164	1458.0	
0.30	-0.617	3.194	1563.1	
0.35	-0.445	3.220	1660.1	
0.40	-0.289	3.244	1753.0	
0.45	-0.142	3.266	1845.0	
0.50	0.000	3.288	1938.9	
0.55	0.142	3.309	2037.5	
0.60	0.289	3.331	2144.5	
0.65	0.445	3.355	2264.5	
0.70	0.617	3.381	2405.1	
0.75	0.816	3.411	2578.3	
0.80	1.061	3.448	2807.7	
0.85	1.386	3.498	3145.6	
0.90	1.886	3.573	3744.7	
0.95	2.920	3.730	5373.2	

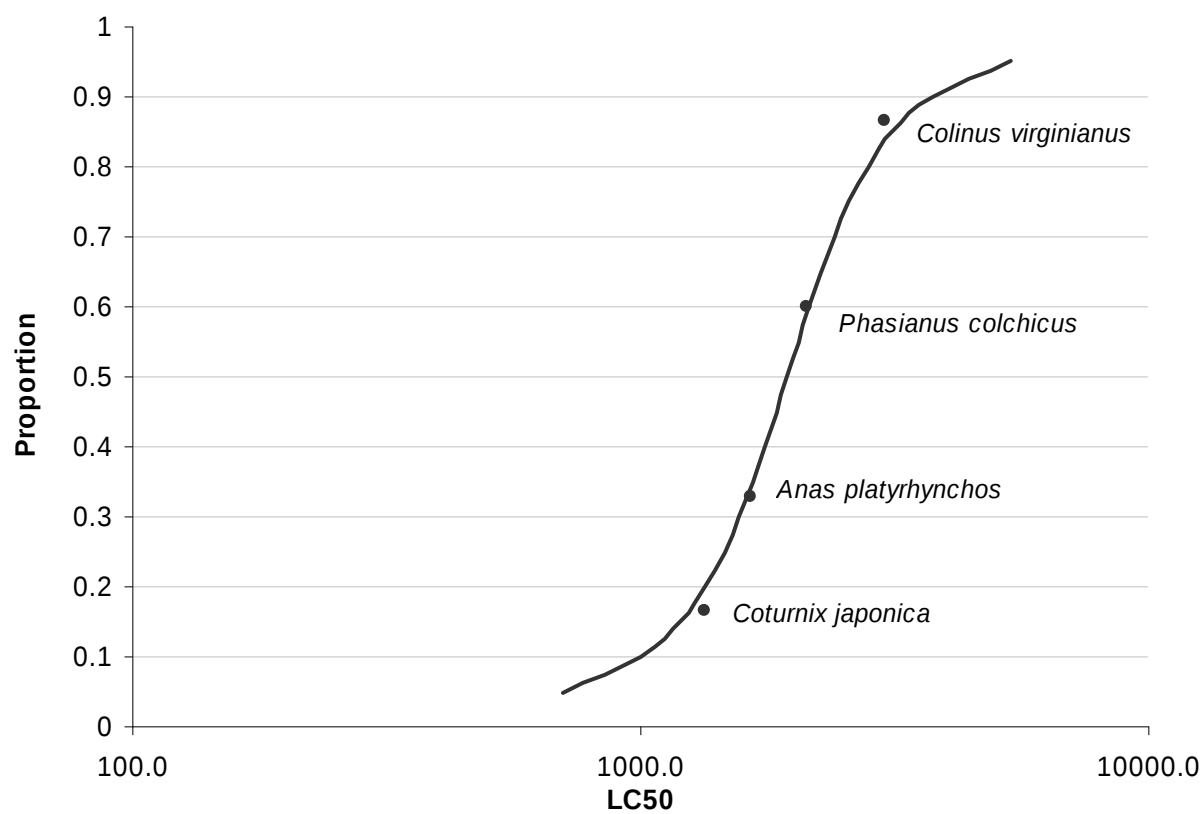


Figure L2. Species sensitivity distribution for subacute exposures of birds to dicofol.