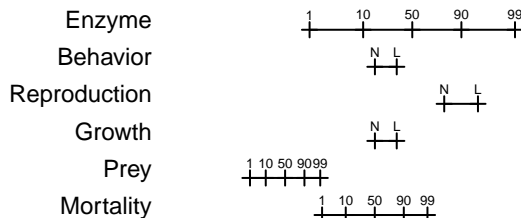


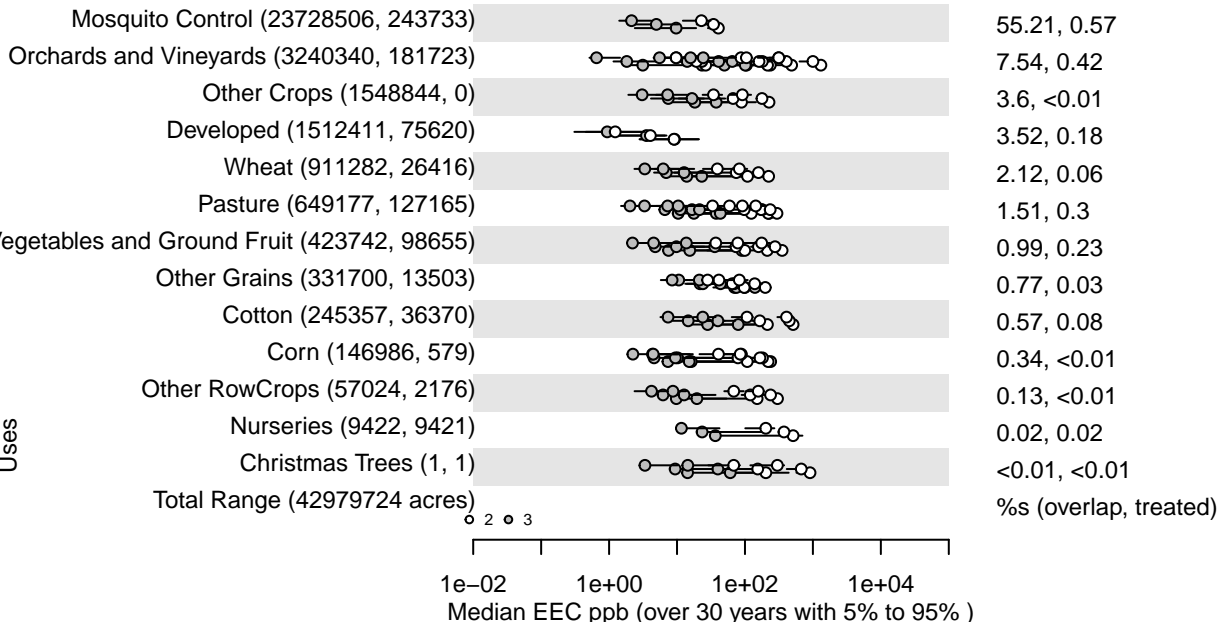
## **Appendix M: R-Plots**

*Amphibians (aquatic and aquatic-phase)*

Toxicities



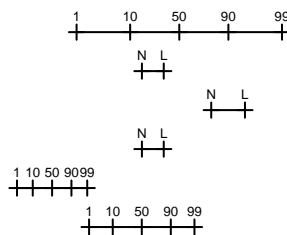
Uses



malathion: fmal3.fish.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc: 18a, 18b, bin: 2, 3  
 Arroyo (=arroyo southwestern) toad (204) Range

Toxicities

Enzyme  
Behavior  
Reproduction  
Growth  
Prey  
Mortality



Mosquito Control (854288, NA)

71.49, NA

Developed (147239, 7361)

12.32, 0.62

Corn (42878, 4101)

3.59, 0.34

Other Grains (23261, 23239)

1.95, 1.94

Wheat (11135, 10874)

0.93, 0.91

Cotton (6893, 5968)

0.58, 0.5

Other Crops (3331, 0)

0.28, &lt;0.01

Orchards and Vineyards (677, 354)

0.06, 0.03

Nurseries (624, 624)

0.05, 0.05

Other RowCrops (9, 11)

&lt;0.01, &lt;0.01

Vegetables and Ground Fruit (6, 4)

&lt;0.01, &lt;0.01

Pasture (3, 3)

&lt;0.01, &lt;0.01

Total Range (1194980 acres)

%s (overlap, treated)

Uses

○ 2 ○ 3

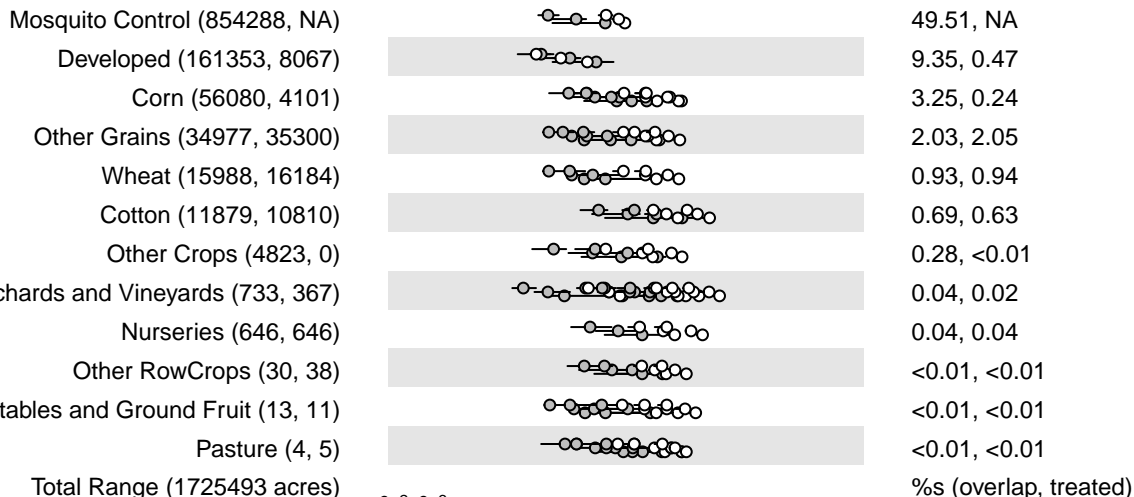
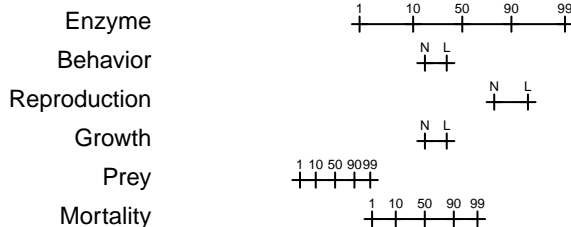
1e-02 1e+00 1e+02 1e+04  
Median EEC ppb (over 30 years with 5% to 95% )

malathion: fmal3.fish.tox.txt

yearly peak 1-d, 4-d, 21-d (from bottom up)

huc:12a, bin:2,3

Austin blind Salamander (6346) Range



○ 2 ○ 3

1e-02 1e+00 1e+02 1e+04  
Median EEC ppb (over 30 years with 5% to 95%)

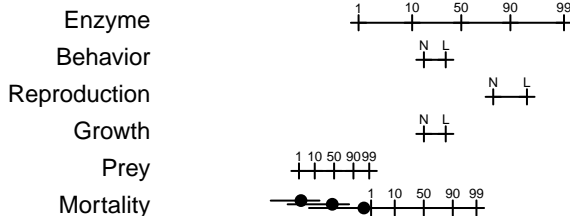
malathion: fmal3.fish.tox.txt

yearly peak 1-d, 4-d, 21-d (from bottom up)

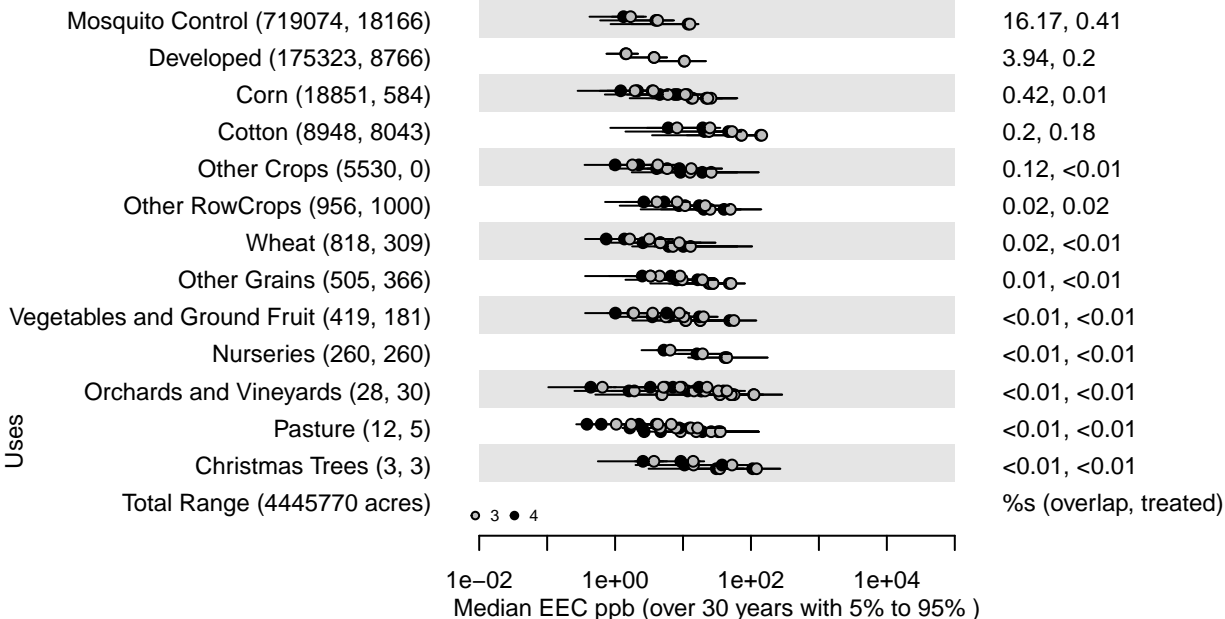
huc:12a, bin:2,3

Barton Springs salamander (197) Range

Toxicities

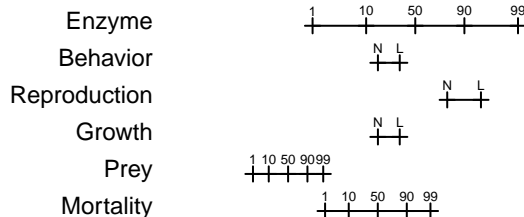


Uses

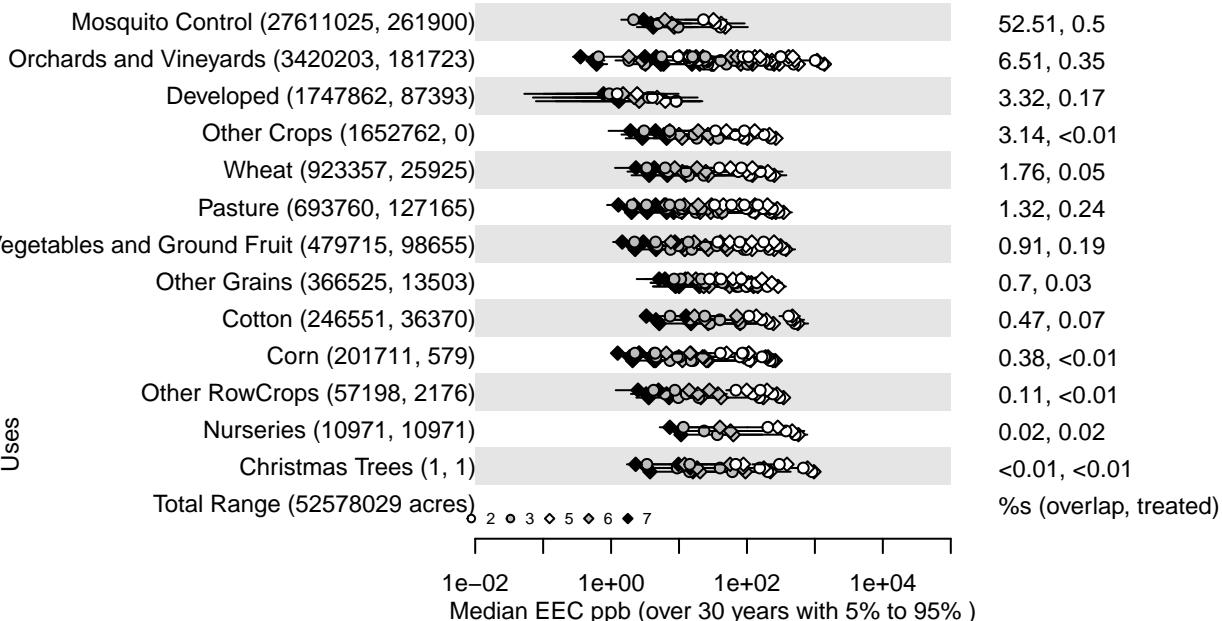


malathion: fmal3.fish.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3,6, bin:3,4  
 Black warrior (=Sipsey Fork) Waterdog (5065) Range

Toxicities

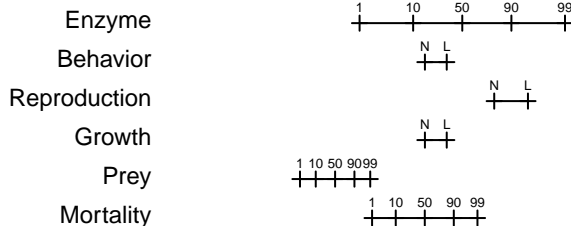


Uses



malathion: fmal3.fish.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:18a,18b, bin:2,3,5,6,7  
 California red-legged frog (205) Range

Toxicities



Mosquito Control (822073.4, 21466)

Pasture (35022.0, 33367)

Developed (22087.0, 1101)

Wheat (5713.0, 6363)

Other Crops (3688.7, 0)

Other Grains (3011.1, 2992)

Corn (105.1, 3)

Vegetables and Ground Fruit (91.8, 95)

Nurseries (53.6, 53)

Orchards and Vineyards (43.5, 22)

Cotton (29.3, 0)

Other RowCrops (0.9, 0)

Total Range (9029267 acres)

9.1, 0.24

0.39, 0.37

0.24, 0.01

0.06, 0.07

0.04, &lt;0.01

0.03, 0.03

&lt;0.01, &lt;0.01

&lt;0.01, &lt;0.01

&lt;0.01, &lt;0.01

&lt;0.01, &lt;0.01

&lt;0.01, &lt;0.01

&lt;0.01, &lt;0.01

%s (overlap, treated)

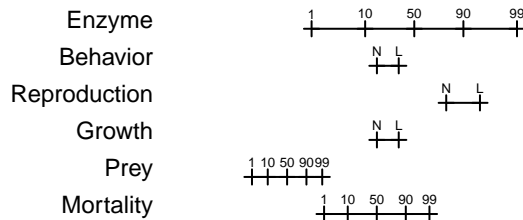
Uses

◇ 5 ◇ 6

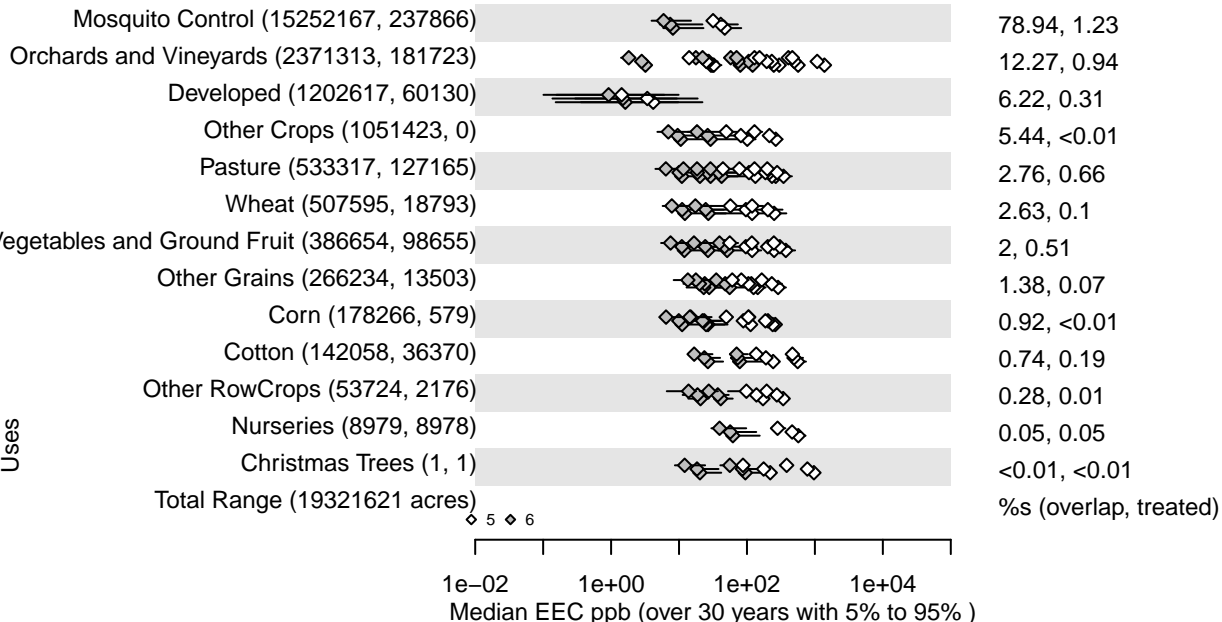
1e-02 1e+00 1e+02 1e+04  
Median EEC ppb (over 30 years with 5% to 95%)

malathion: fmal3.fish.tox.txt  
yearly peak 1-d, 4-d, 21-d (from bottom up)  
huc:18a, bin:5,6  
California tiger Salamander (203) Range

Toxicities



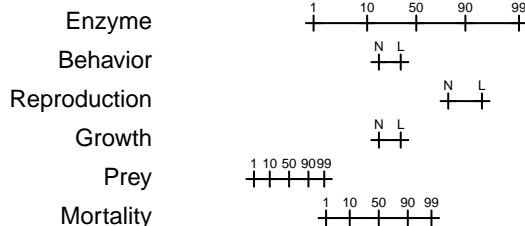
Uses



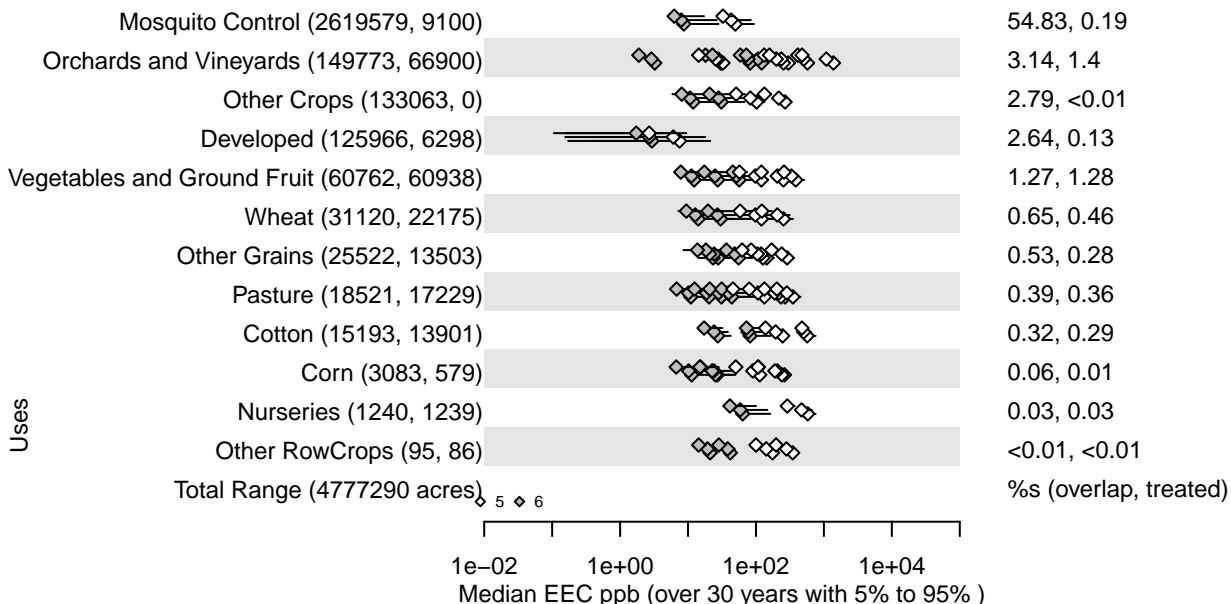
malathion: fmal3.fish.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc: 18a, 18b, bin: 5, 6  
 California tiger Salamander (4773) Range



Toxicities

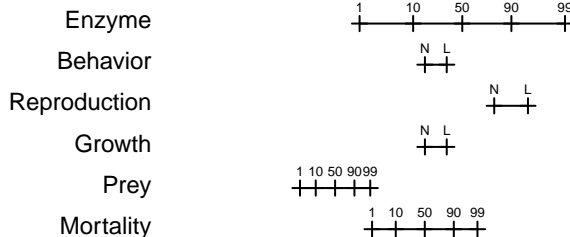


Uses

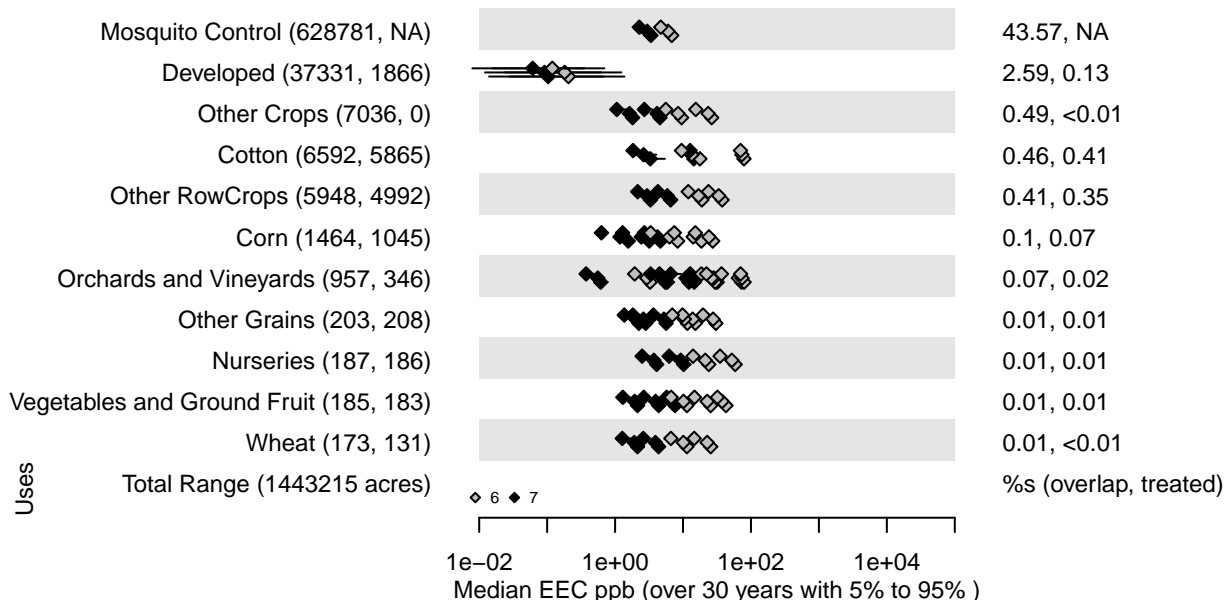


malathion: fmal3.fish.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:18a, bin:5,6  
 California tiger Salamander (8395) Range

Toxicities

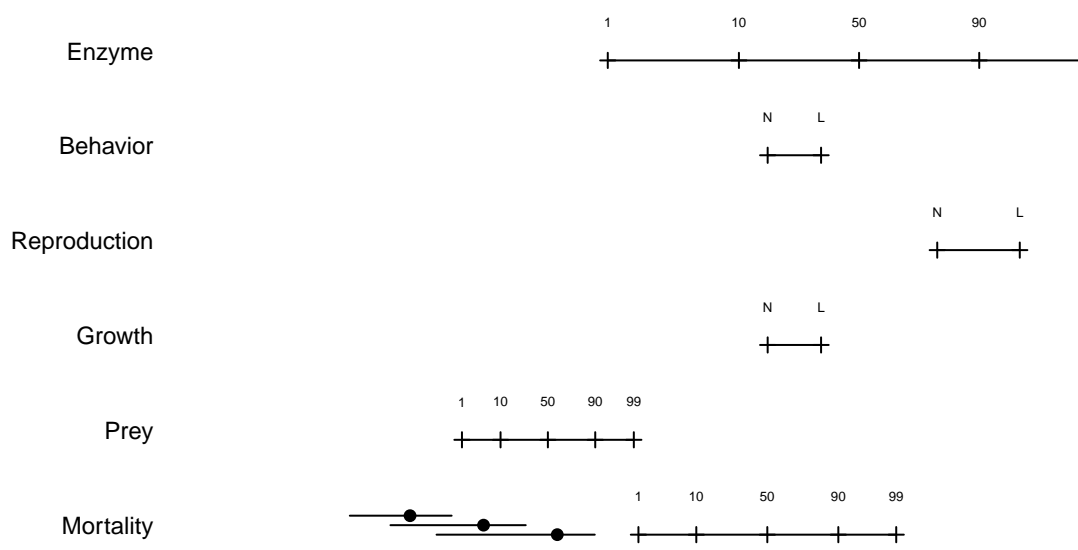


Uses

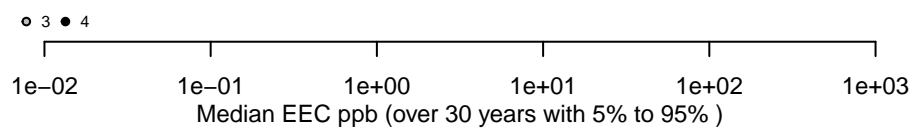
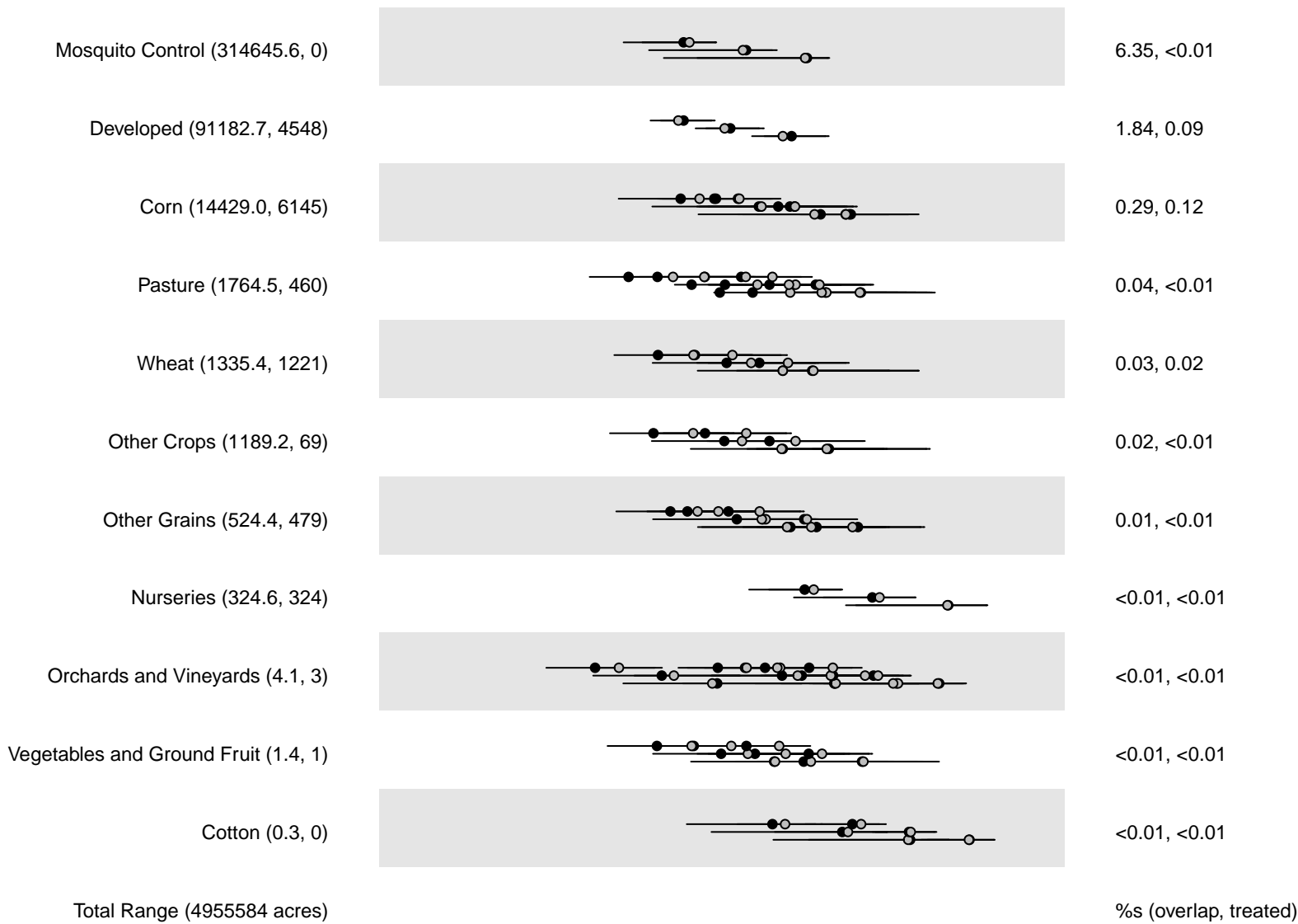


malathion: fmal3.fish.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3, bin:6,7  
 dusky gopher frog (208) Range

Toxicities

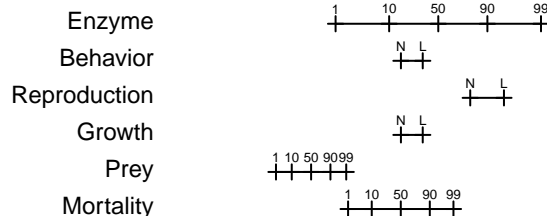


Uses

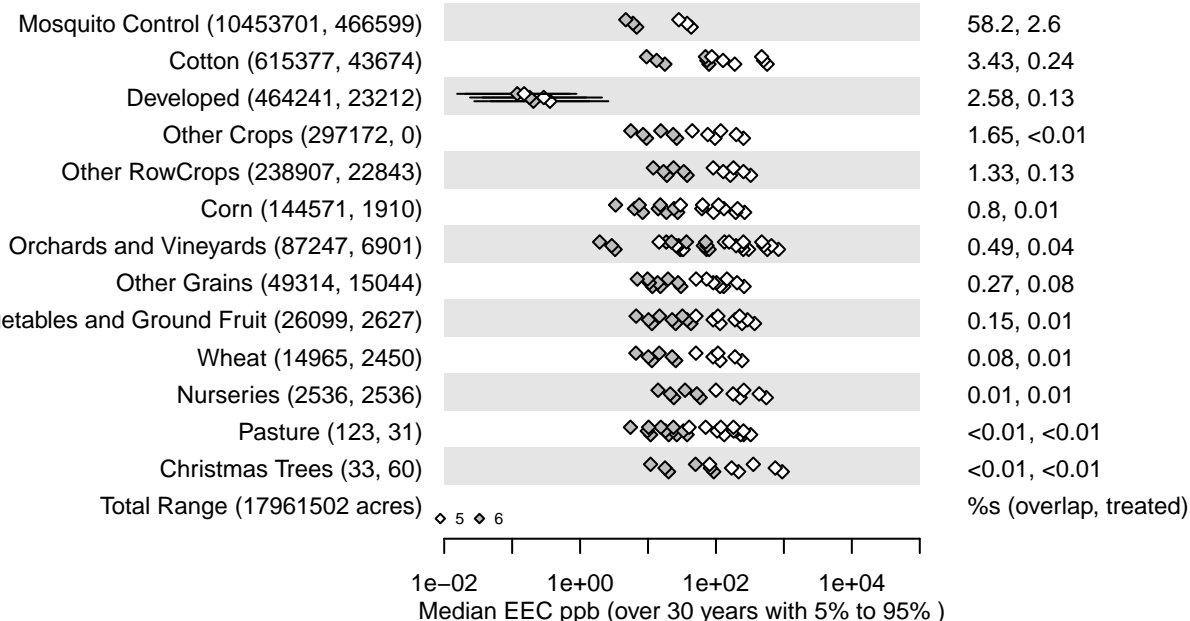


malathion: fmal3.fish.tox.txt  
yearly peak 1-d, 4-d, 21-d (from bottom up)  
huc:7,8,10a,11a, bin:3,4  
Eastern hellbender\_11569

Toxicities

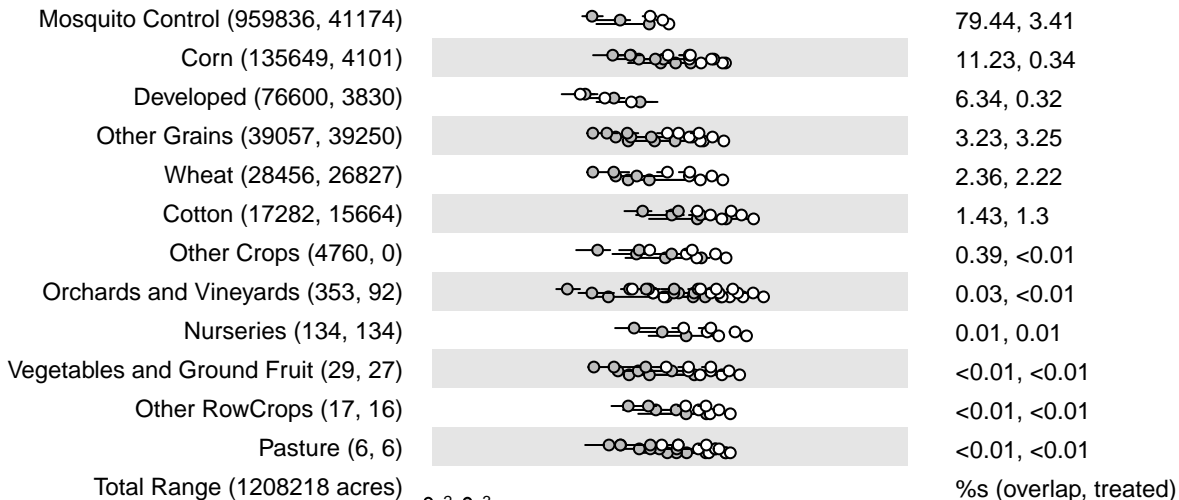
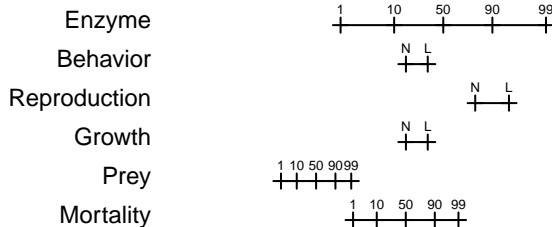


Uses

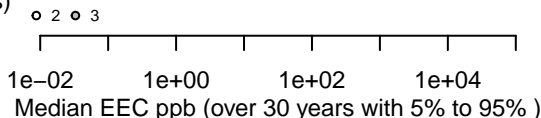


malathion: fmal3.fish.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3, bin:5,6  
 Frosted Flatwoods salamander (199) Range

Toxicities



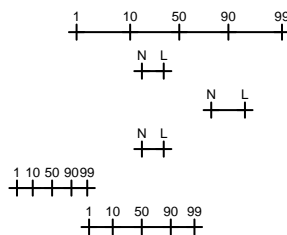
Uses



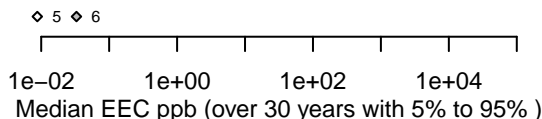
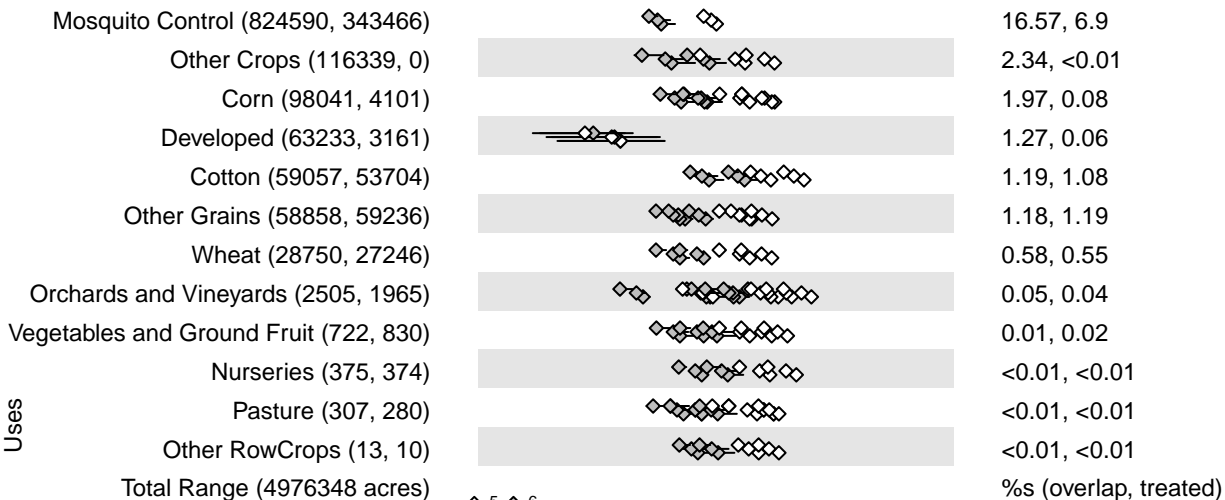
malathion: fmal3.fish.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:12a, bin:2,3  
 Georgetown Salamander (5434) Range

Toxicities

Enzyme  
Behavior  
Reproduction  
Growth  
Prey  
Mortality

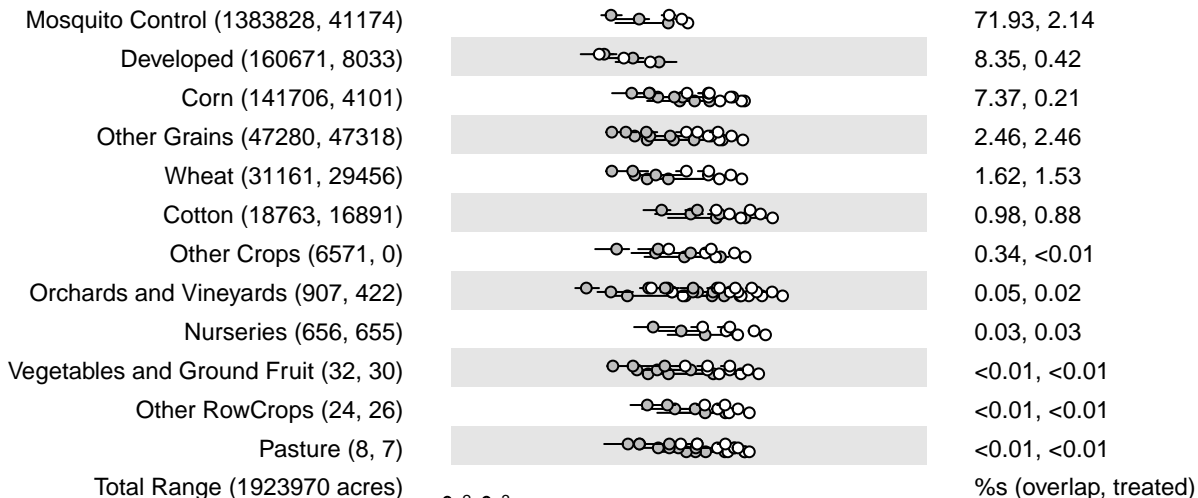
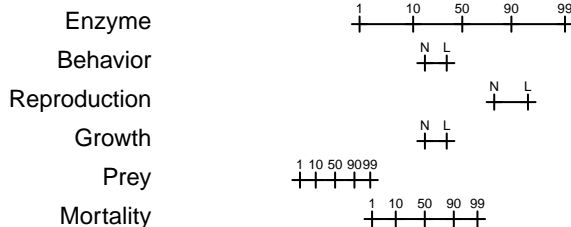


Uses



malathion: fmal3.fish.tox.txt  
yearly peak 1-d, 4-d, 21-d (from bottom up)  
huc:12a, bin:5,6  
Houston toad (190) Range

Toxicities

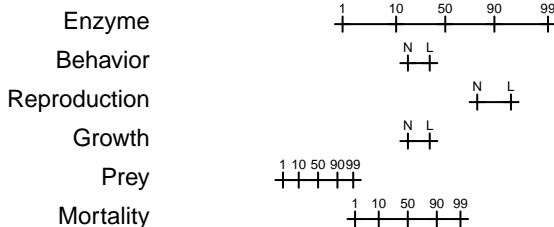


o 2 o 3

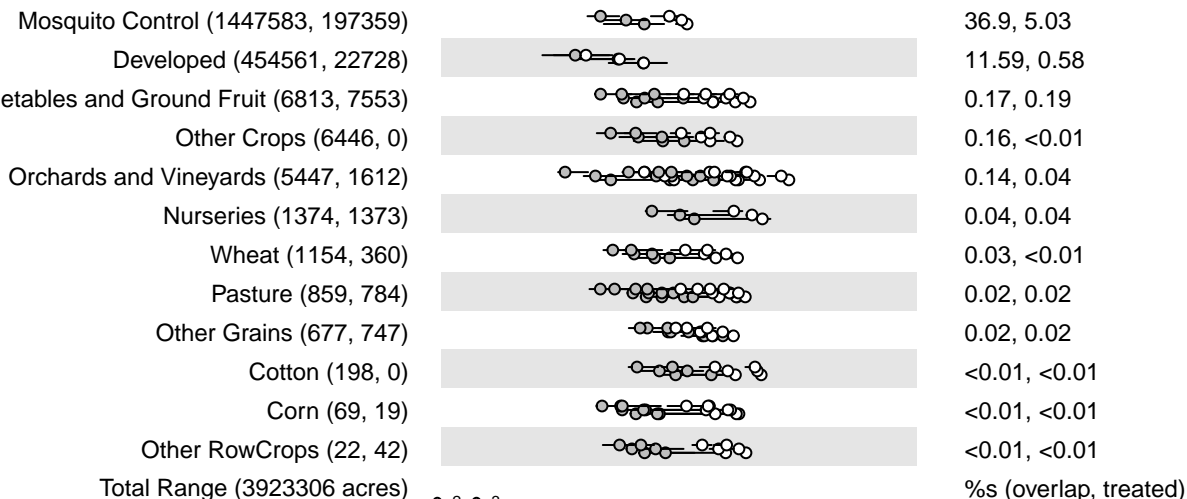
1e-02 1e+00 1e+02 1e+04  
Median EEC ppb (over 30 years with 5% to 95%)

malathion: fmal3.fish.tox.txt  
yearly peak 1-d, 4-d, 21-d (from bottom up)  
huc:12a, bin:2,3  
Jollyville Plateau Salamander (8231) Range

Toxicities



Uses



0 2 3

1e-02 1e+00 1e+02 1e+04

Median EEC ppb (over 30 years with 5% to 95%)

malathion: fmal3.fish.tox.txt

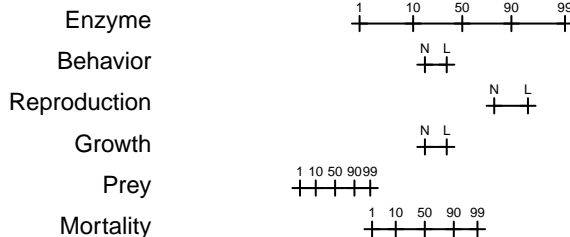
yearly peak 1-d, 4-d, 21-d (from bottom up)

huc:18a,18b, bin:2,3

Mountain yellow-legged frog (207) Range

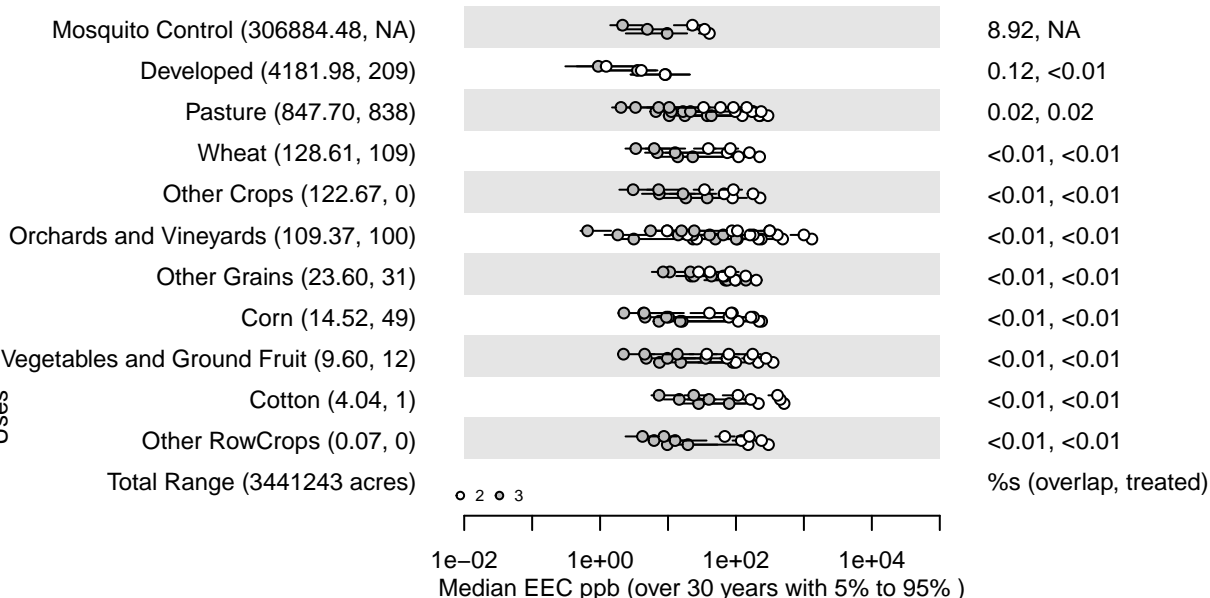


Toxicities



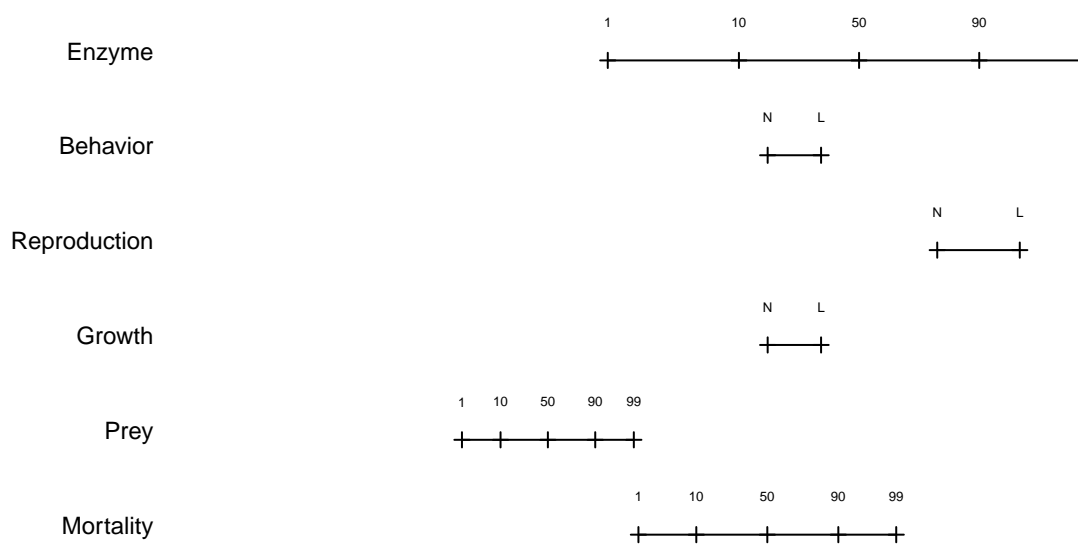
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Uses

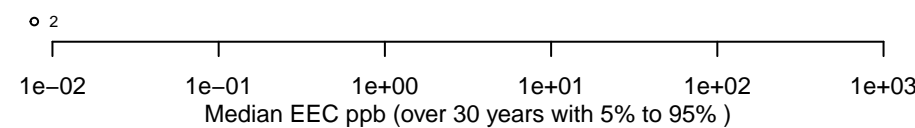
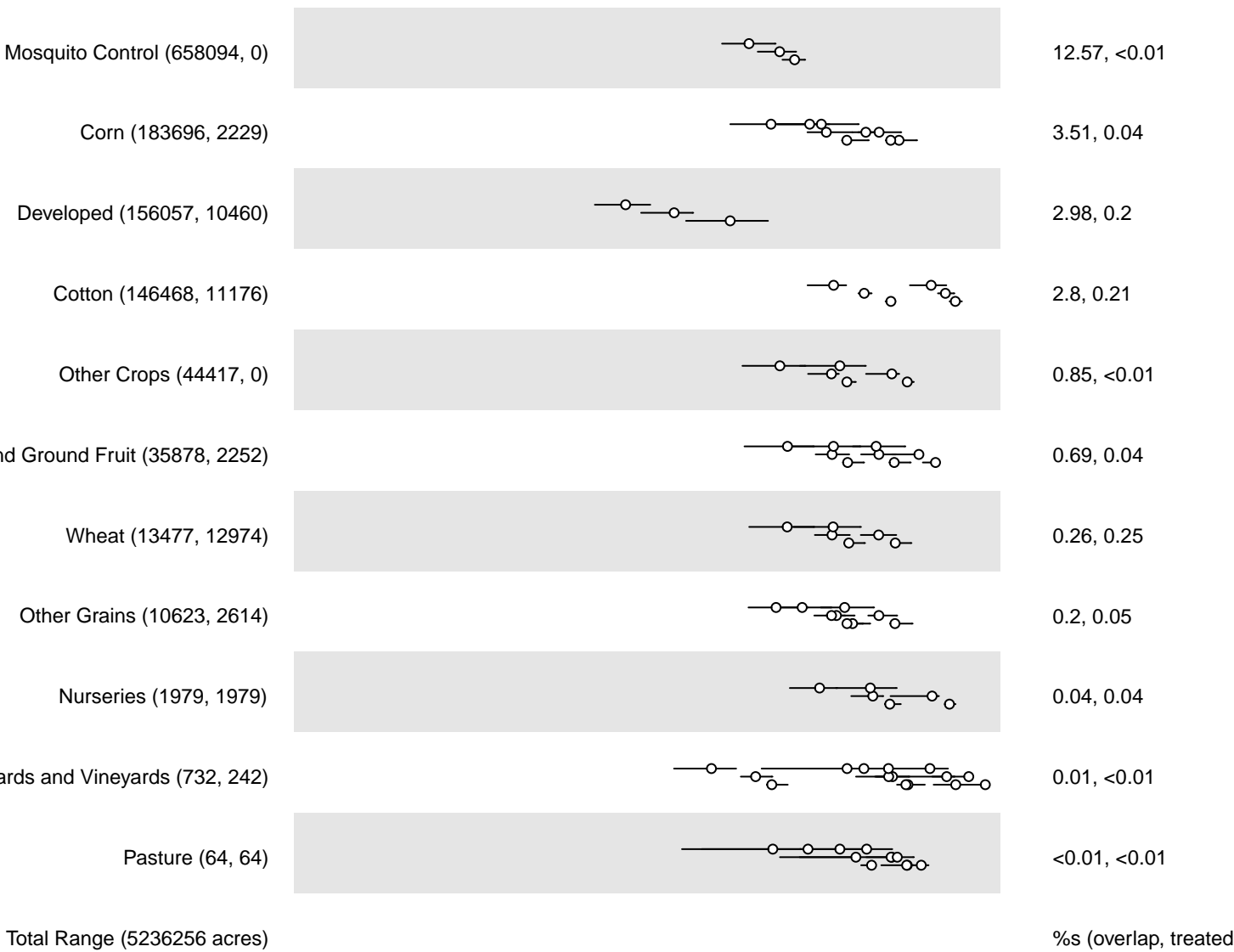


malathion: fmal3.fish.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:18a,18b, bin:2,3  
 Mountain yellow-legged frog (1740) Range

Toxicities

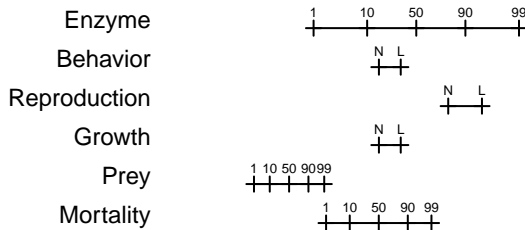


Uses

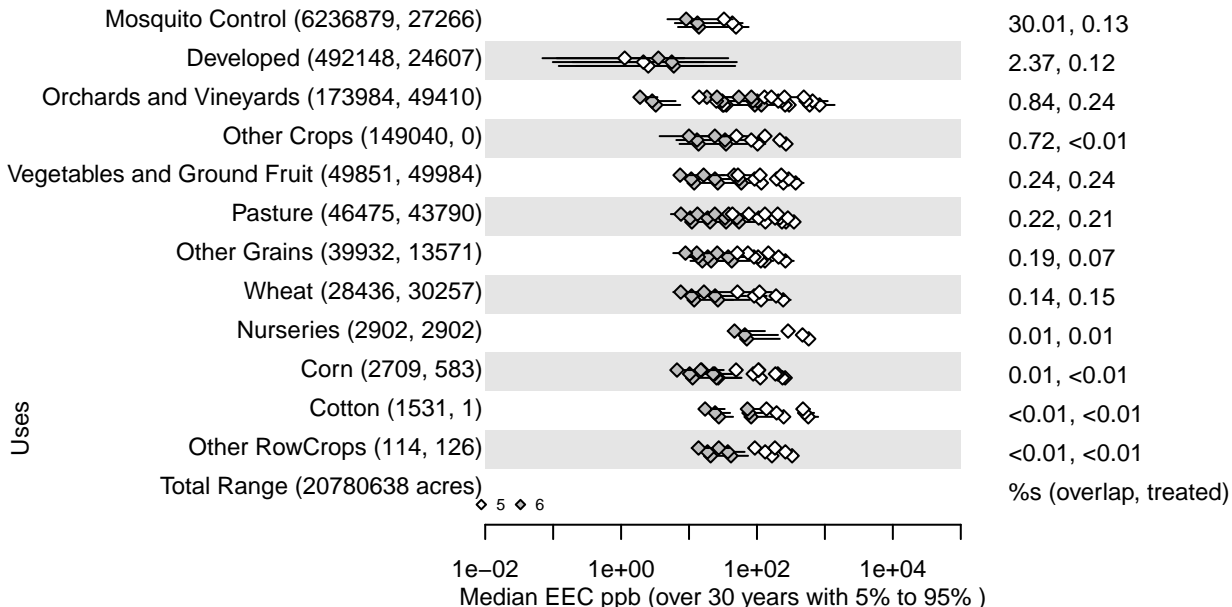


malathion: fmal3.fish.tox.txt  
yearly peak 1-d, 4-d, 21-d (from bottom up)  
huc:3, bin:2  
Neuse River waterdog\_2932

Toxicities



Uses



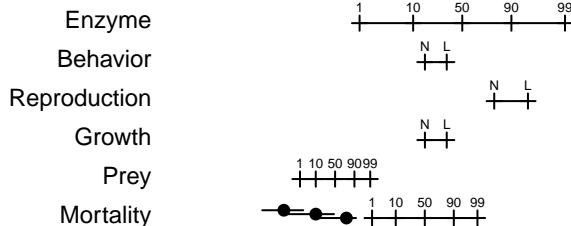
malathion: fmal3.fish.tox.txt

yearly peak 1-d, 4-d, 21-d (from bottom up)

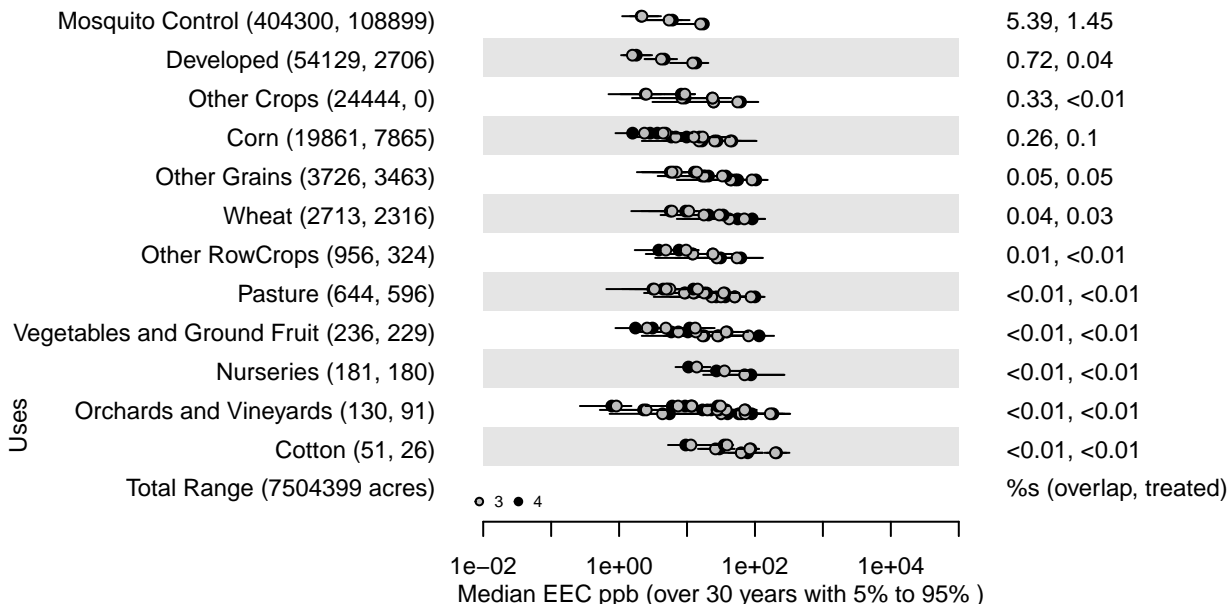
huc:17a,17b,18a, bin:5,6

Oregon spotted frog (4090) Range

Toxicities



Uses



malathion: fmal3.fish.tox.txt

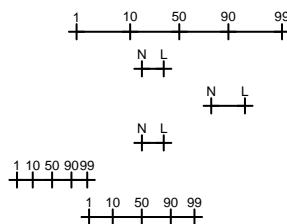
yearly peak 1-d, 4-d, 21-d (from bottom up)

huc:7,10a,11a, bin:3,4

Ozark Hellbender (7847) Range

Toxicities

Enzyme  
 Behavior  
 Reproduction  
 Growth  
 Prey  
 Mortality



Mosquito Control (4974299.51, 236281)

Cotton (233644.15, 39443)

Other Crops (217529.85, 0)

Other RowCrops (216987.51, 21112)

Developed (179877.12, 8993)

Corn (71722.39, 1172)

Orchards and Vineyards (52453.02, 7451)

Other Grains (29563.86, 12377)

Wheat (13039.77, 1956)

Vegetables and Ground Fruit (1602.89, 949)

Nurseries (547.08, 547)

Pasture (197.14, 60)

Christmas Trees (0.04, 0)

Total Range (6982344 acres) ◇ 5 ◇ 6

71.24, 3.38

3.35, 0.56

3.12, <0.01

3.11, 0.3

2.58, 0.13

1.03, 0.02

0.75, 0.11

0.42, 0.18

0.19, 0.03

0.02, 0.01

<0.01, <0.01

<0.01, <0.01

<0.01, <0.01

%s (overlap, treated)

1e-02 1e+00 1e+02 1e+04  
 Median EEC ppb (over 30 years with 5% to 95%)

malathion: fmal3.fish.tox.txt

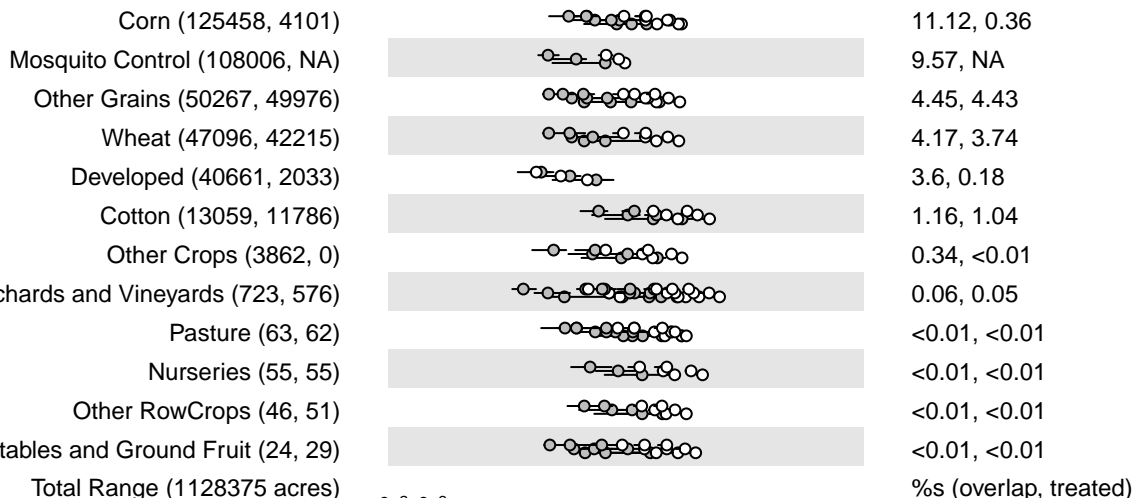
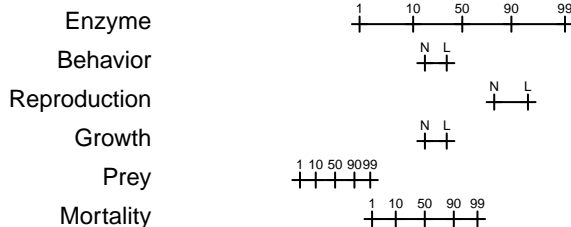
yearly peak 1-d, 4-d, 21-d (from bottom up)

huc:3, bin:5,6

Reticulated flatwoods salamander (9943) Range

Uses

Toxicities



○ 2 ○ 3

1e-02 1e+00 1e+02 1e+04  
Median EEC ppb (over 30 years with 5% to 95%)

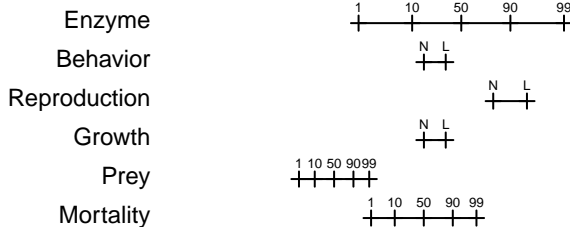
malathion: fmal3.fish.tox.txt

yearly peak 1-d, 4-d, 21-d (from bottom up)

huc:12a, bin:2,3

Salado Salamander (7610) Range

Toxicities



Mosquito Control (23619, NA)

3.26, NA

Developed (18982, 949)

2.62, 0.13

Corn (14160, 4101)

1.95, 0.57

Other Grains (13281, 13569)

1.83, 1.87

Cotton (5469, 5300)

0.75, 0.73

Wheat (5364, 5847)

0.74, 0.81

Other Crops (1889, 0)

0.26, &lt;0.01

Orchards and Vineyards (64, 14)

&lt;0.01, &lt;0.01

Nurseries (35, 35)

&lt;0.01, &lt;0.01

Other RowCrops (25, 30)

&lt;0.01, &lt;0.01

Vegetables and Ground Fruit (7, 7)

&lt;0.01, &lt;0.01

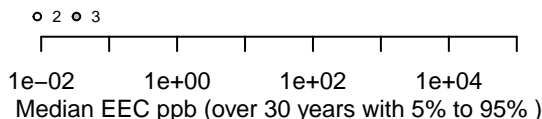
Pasture (2, 2)

&lt;0.01, &lt;0.01

Total Range (724518 acres)

%s (overlap, treated)

Uses



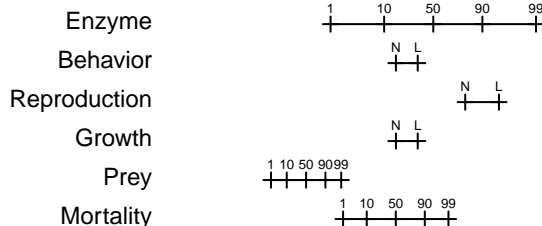
malathion: fmal3.fish.tox.txt

yearly peak 1-d, 4-d, 21-d (from bottom up)

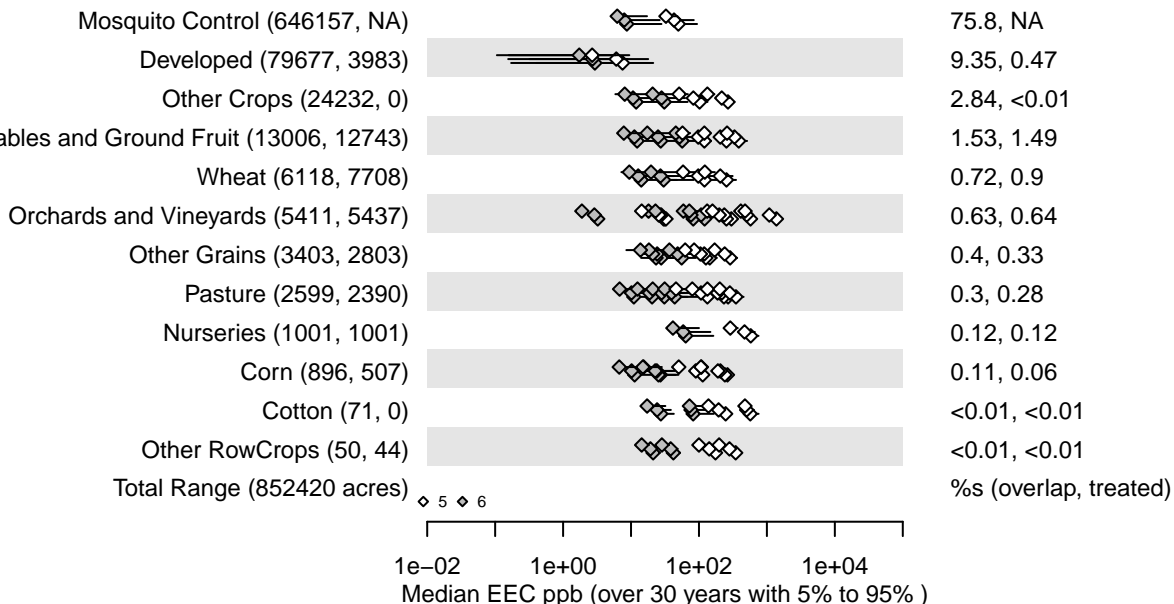
huc:12a, bin:2,3

San Marcos salamander (194) Range

Toxicities



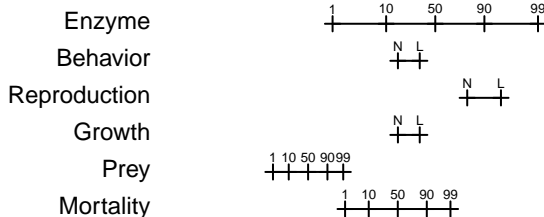
Uses



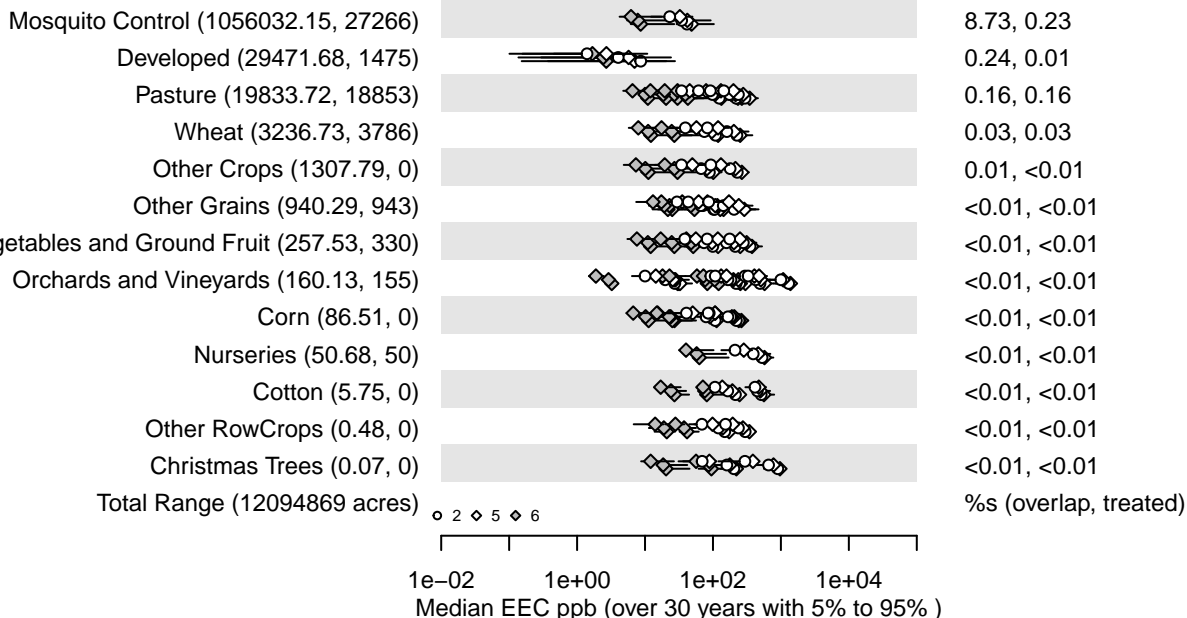
malathion: fmal3.fish.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:18a, bin:5.6  
 Santa Cruz long-toed salamander (188) Range



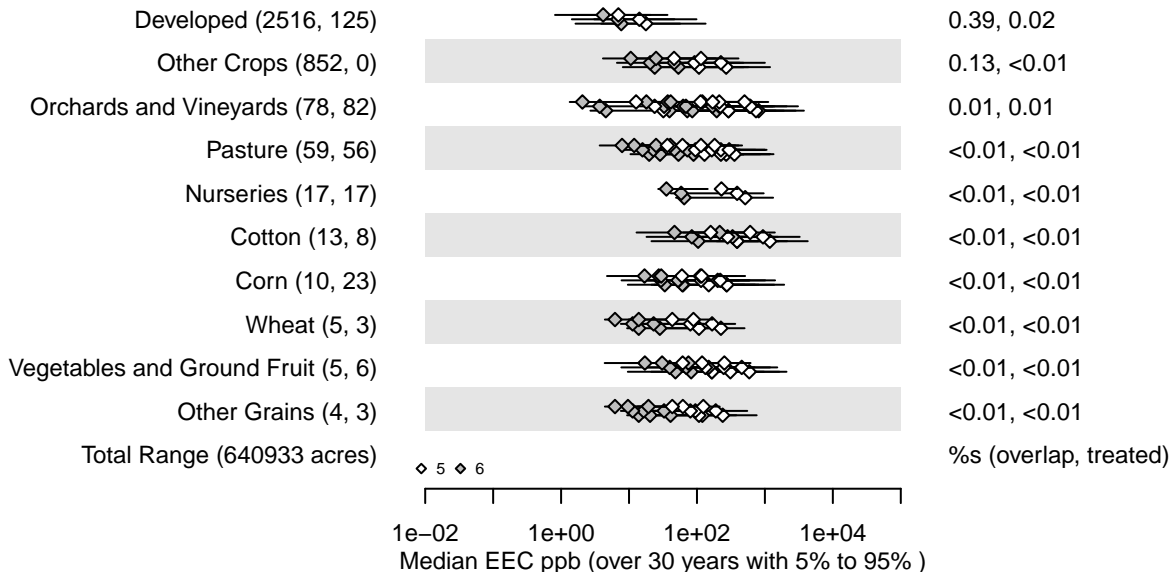
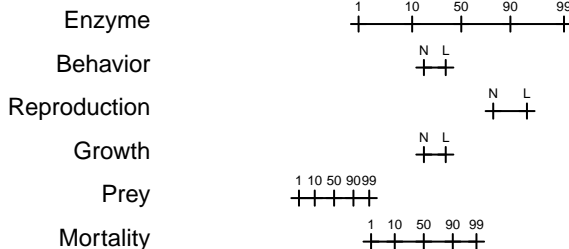
Toxicities



Uses

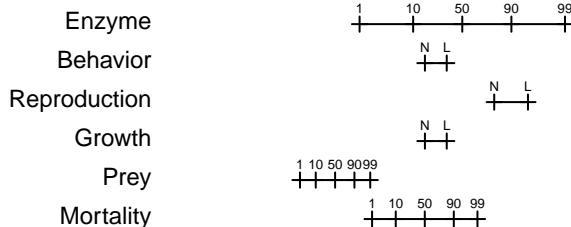


malathion: fmal3.fish.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:16a,16b,18a,18b, bin:2,5,6  
 Sierra Nevada Yellow-legged Frog (10517) Range

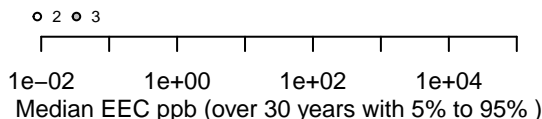
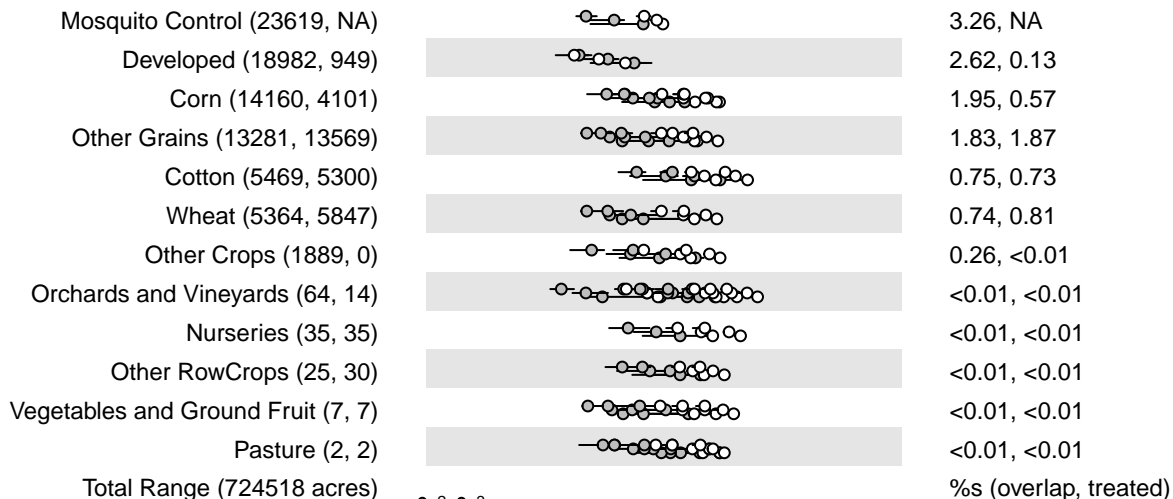


malathion: fmal3.fish.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc: 15a, 15b, bin: 5, 6  
 Sonora tiger Salamander (201) Range

Toxicities

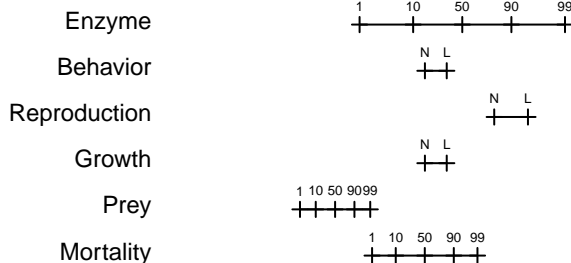


Uses

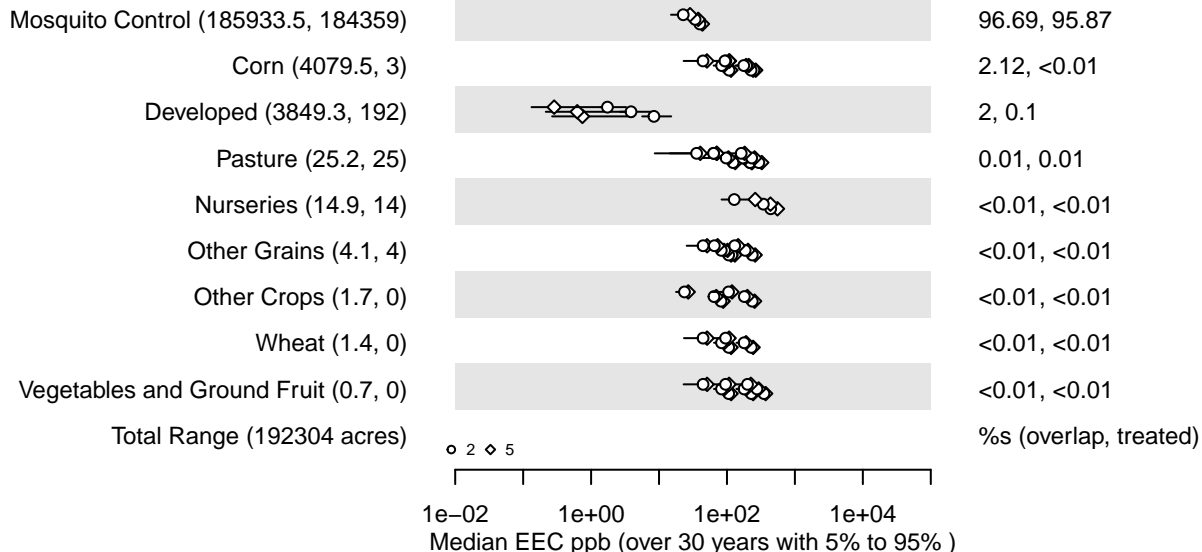


malathion: fmal3.fish.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:12a, bin:2,3  
 Texas blind salamander (189) Range

Toxicities

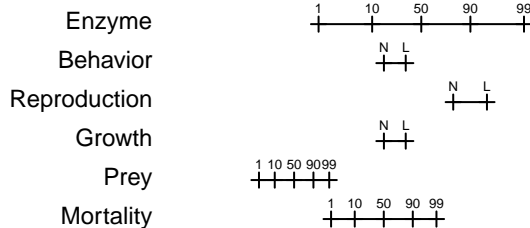


Uses

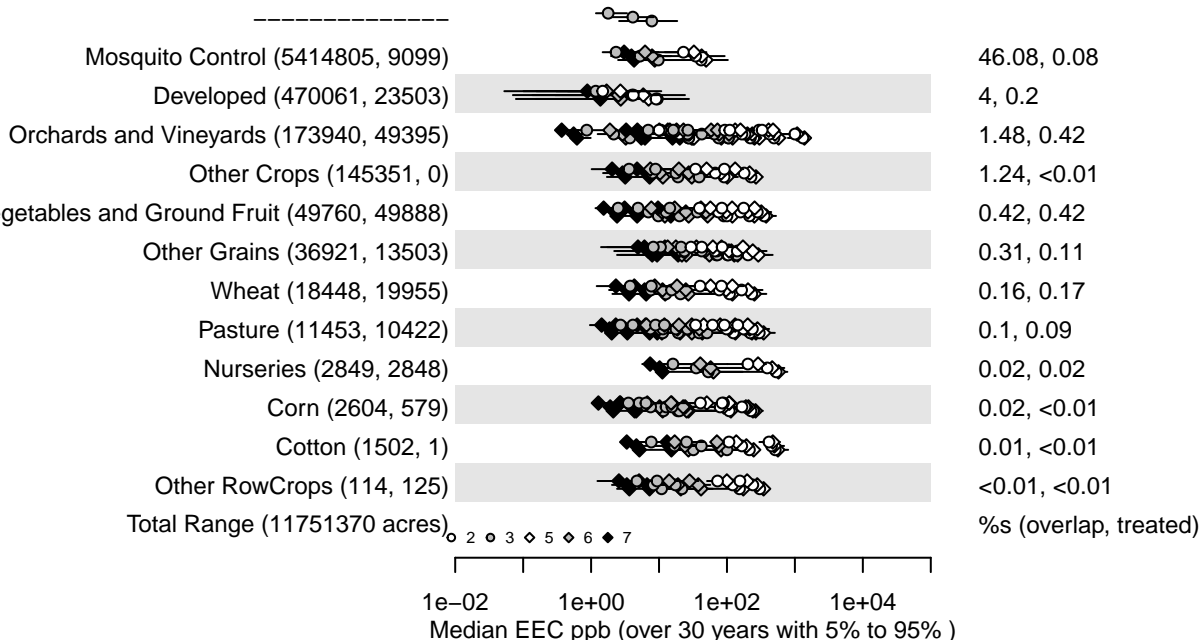


malathion: fmal3.fish.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:10b, bin:2,5  
 Wyoming Toad (202) Range

Toxicities



Uses



malathion: fmal3.fish.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:16a,18a,18b, bin:2,3,5,6,7  
 Yosemite toad (1707) Range