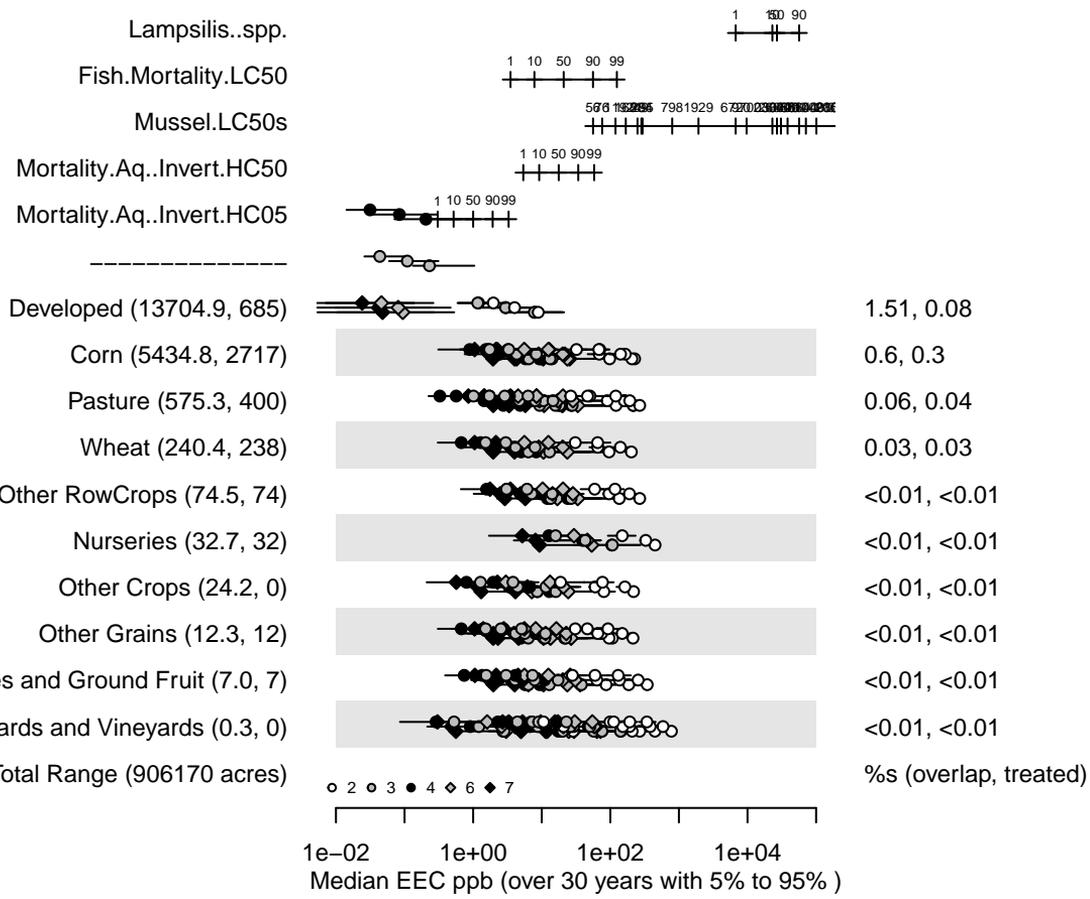


## **Appendix M: R-Plots**

*Mussels*

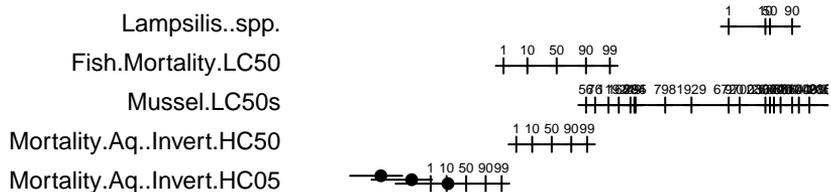
Toxicities

Uses

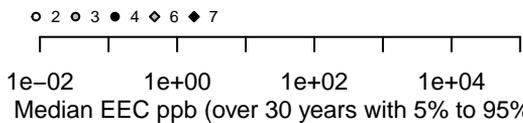
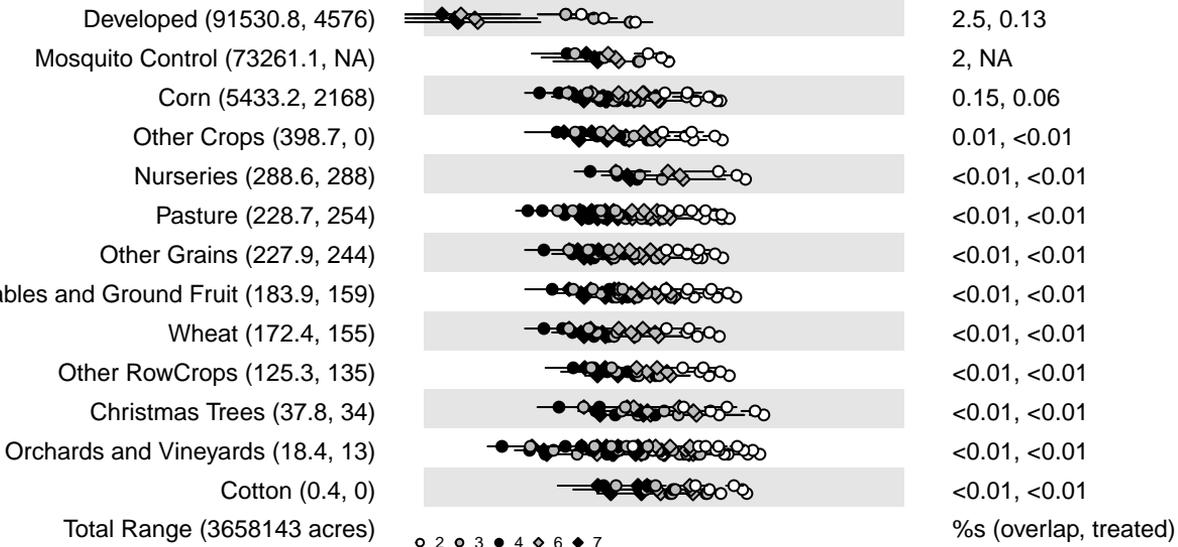


malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:5,6, bin:2,3,4,6,7  
 Cumberland bean (pearlymussel) (317) Range

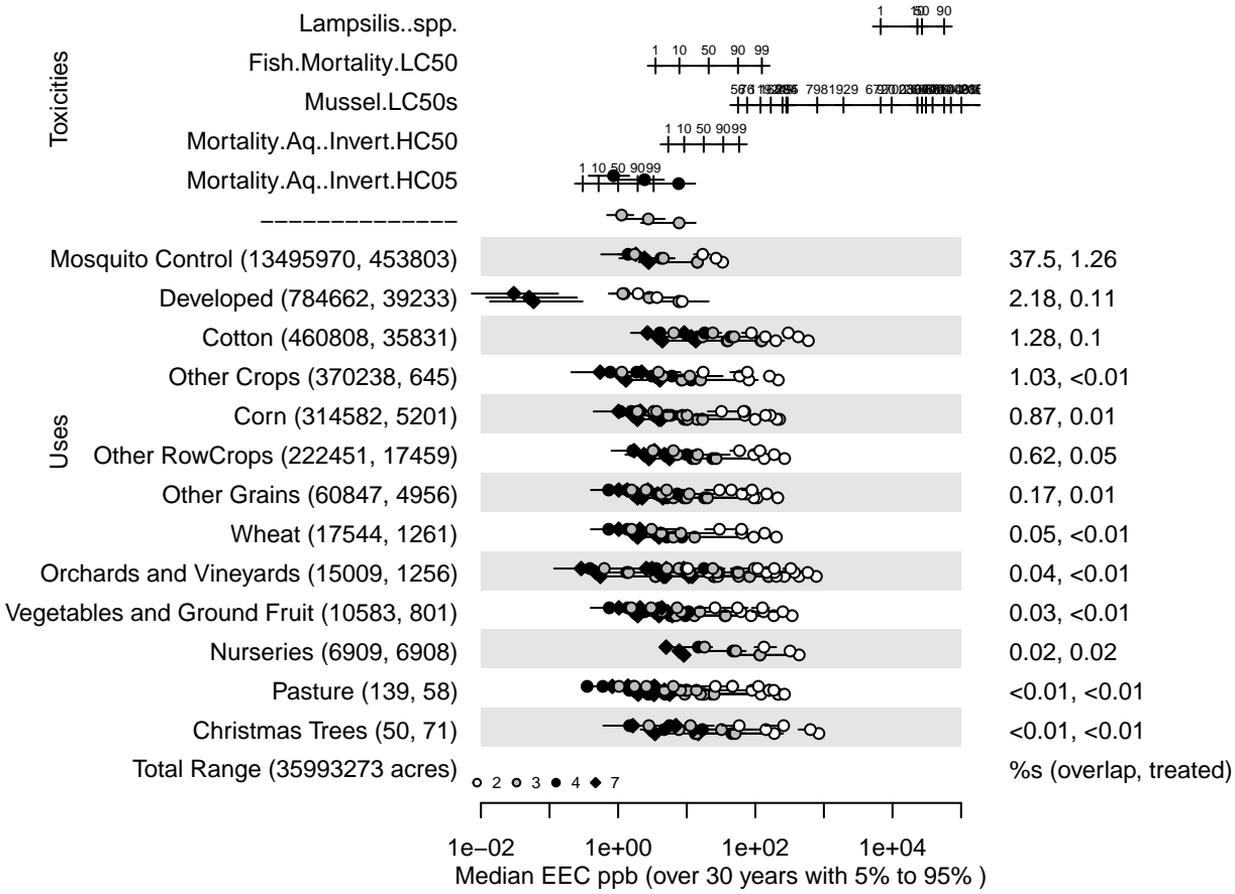
Toxicities



Uses

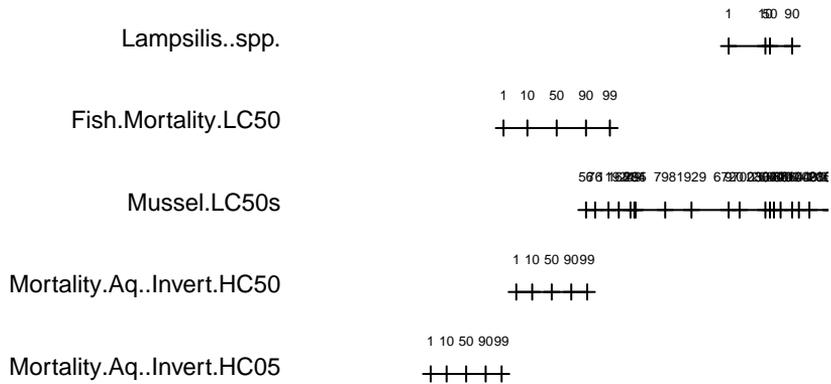


malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:5,6, bin:2,3,4,6,7  
 Purple bean (318) Range

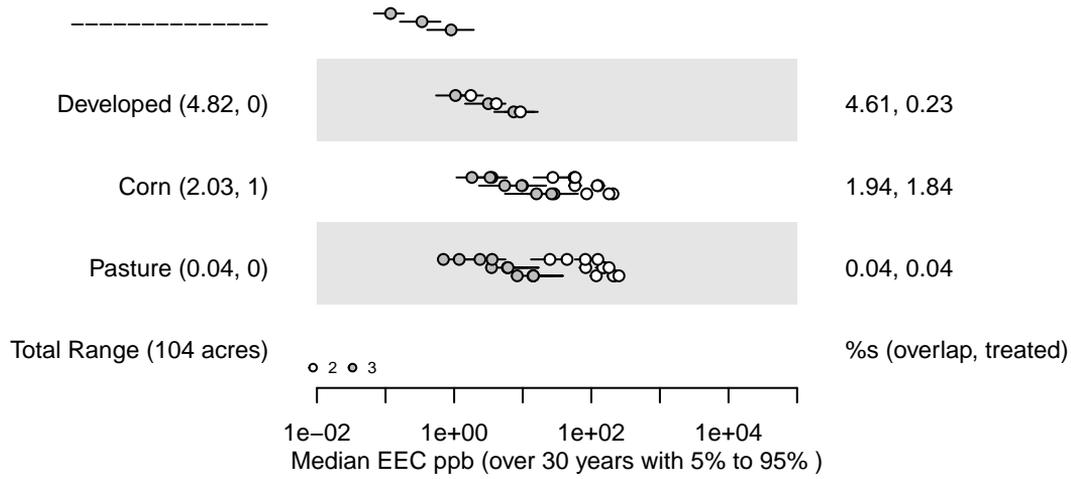


malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:5, bin:2,3,4,7  
 Purple Cat's paw (=Purple Cat's paw pearlymussel) (323) Range

Toxicities

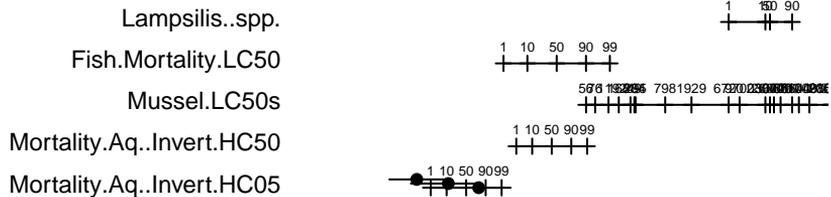


Uses

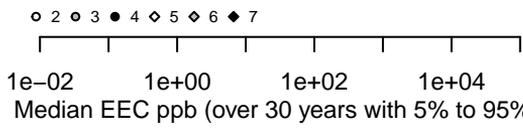
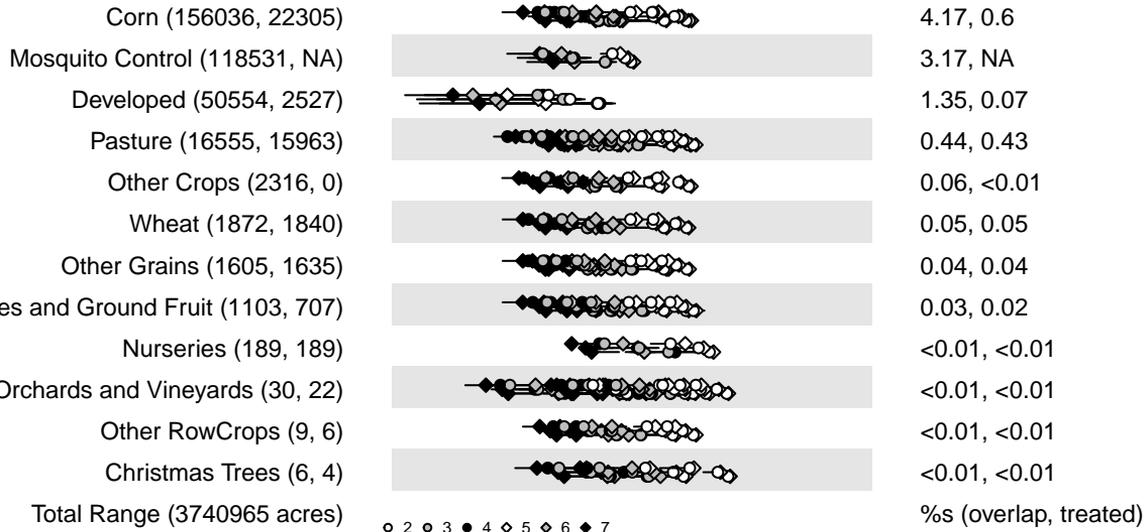


malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:4, bin:2,3  
 White catspaw (pearlymussel) (324) Range

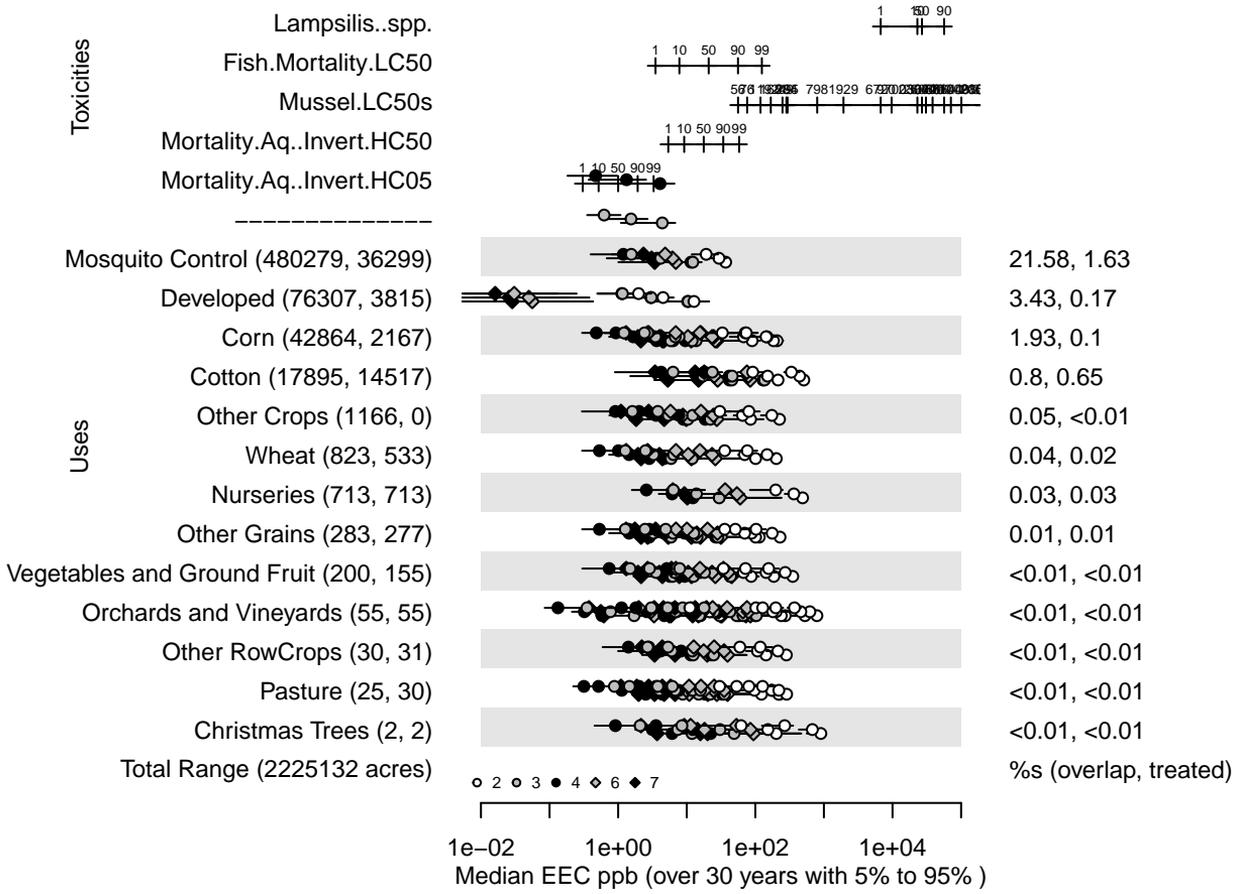
Toxicities



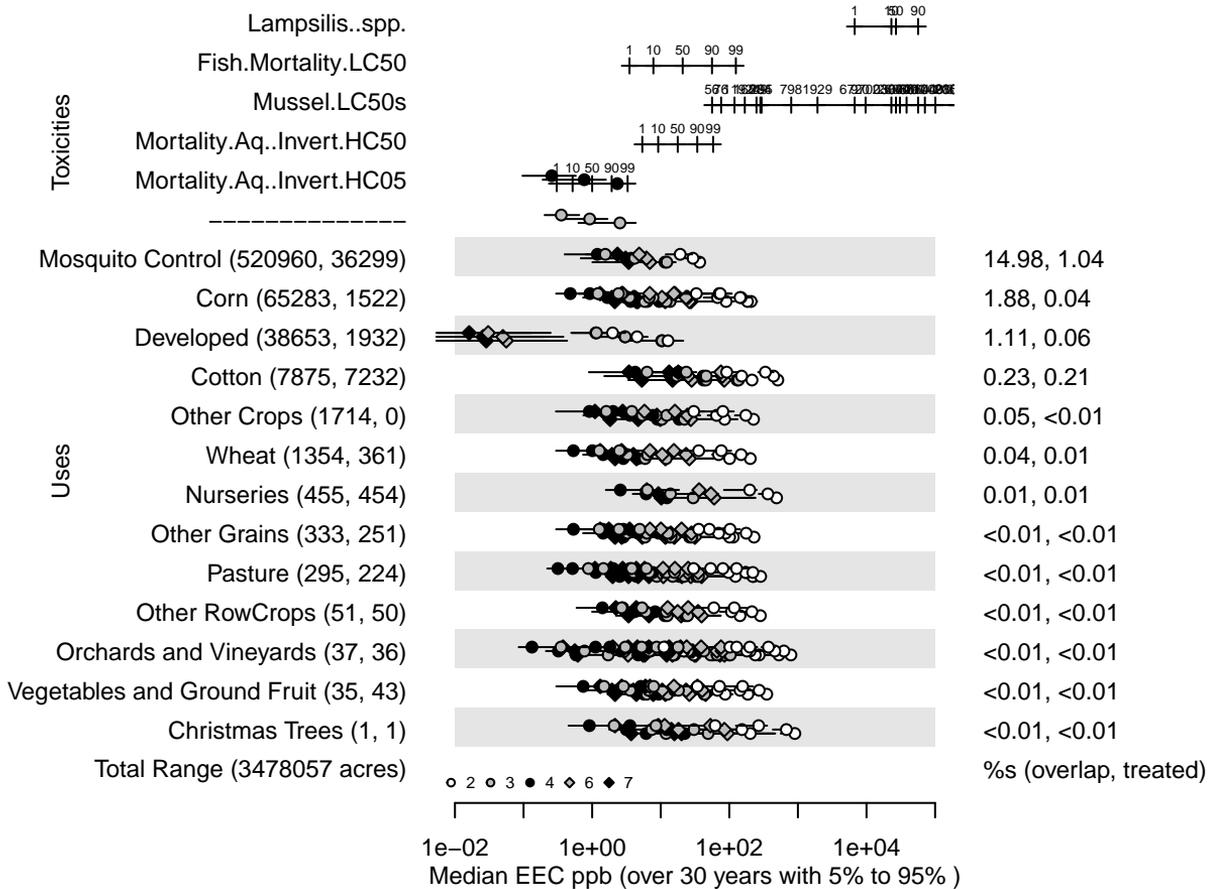
Uses



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:7,10a, bin:2,3,4,5,6,7  
 Higgins eye (pearlymussel) (325) Range



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:6, bin:2,3,4,6,7  
 Alabama lampmussel (326) Range

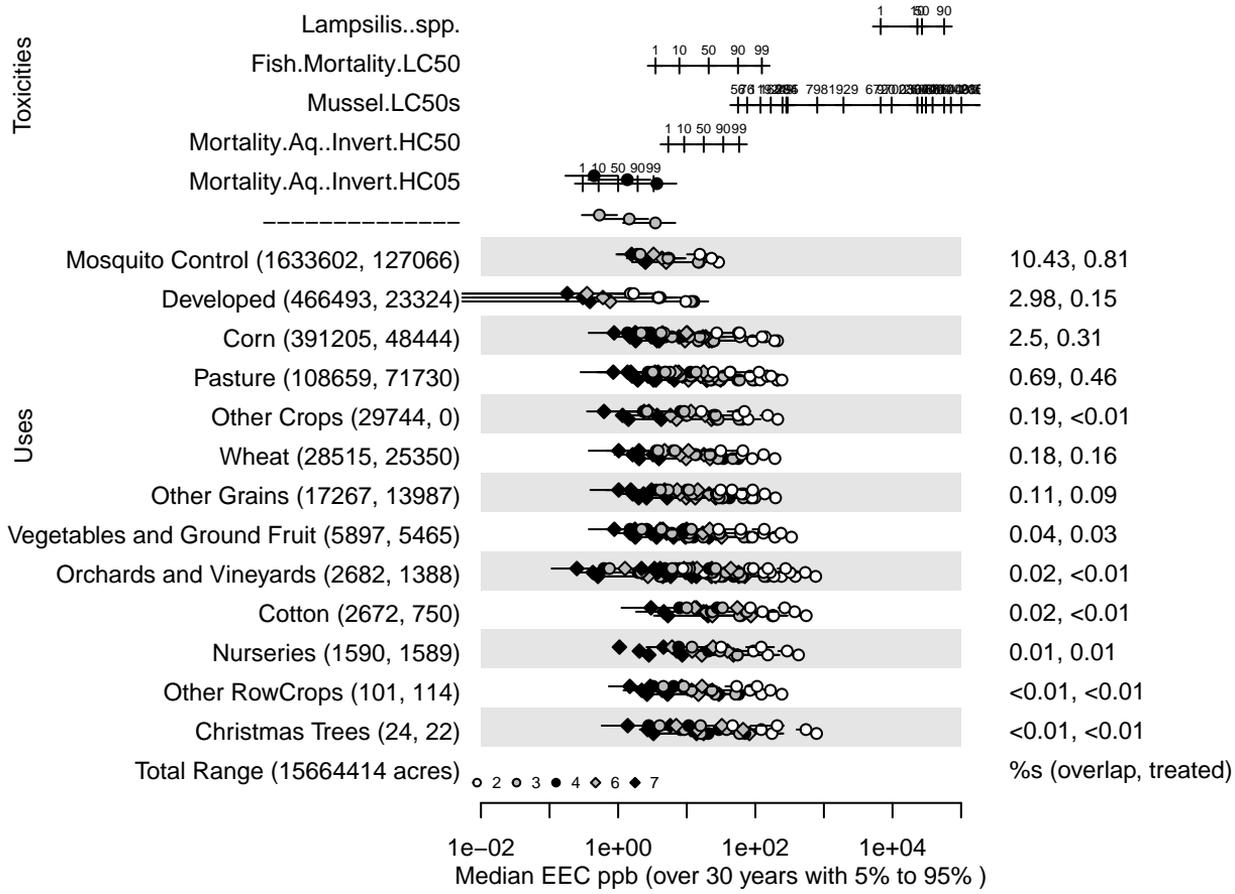


malathion: mal2.mus.tox.txt

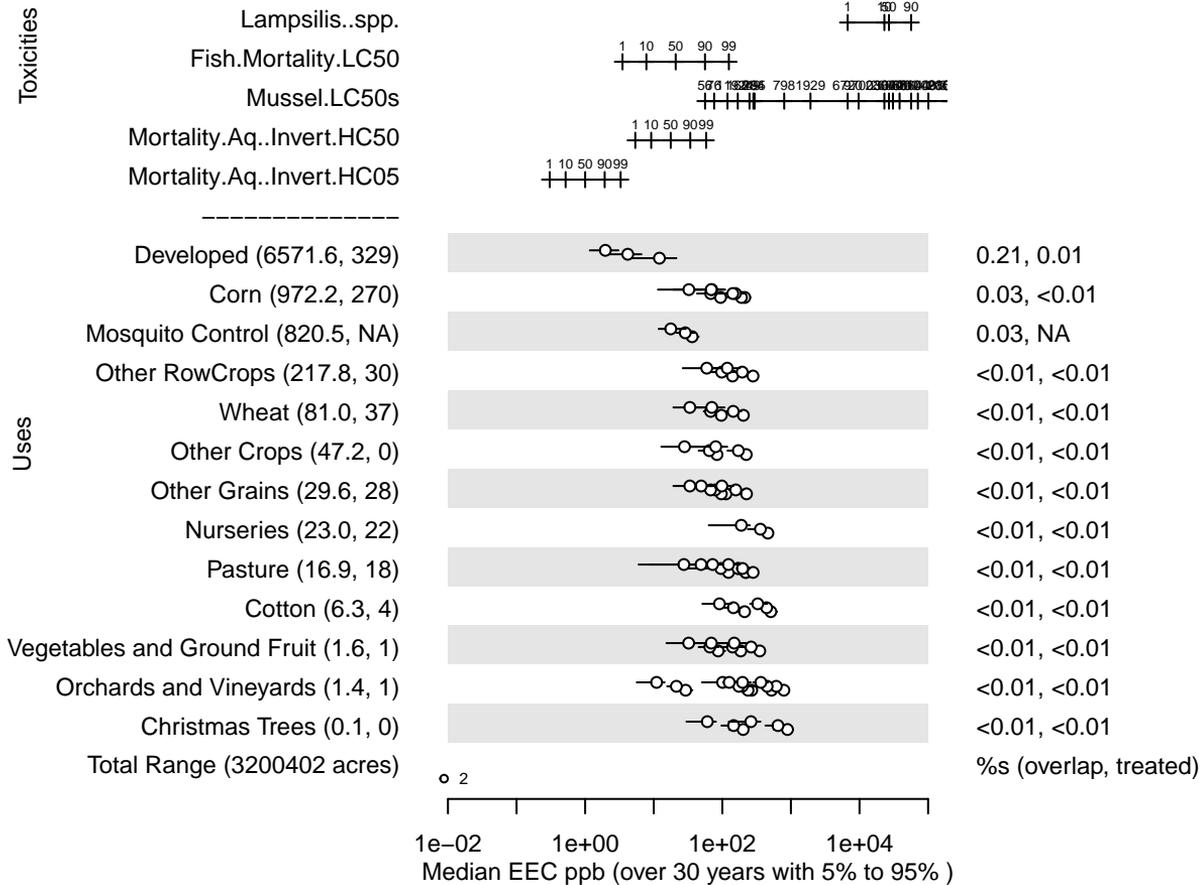
yearly peak 1-d, 4-d, 21-d (from bottom up)

huc:6, bin:2,3,4,6,7

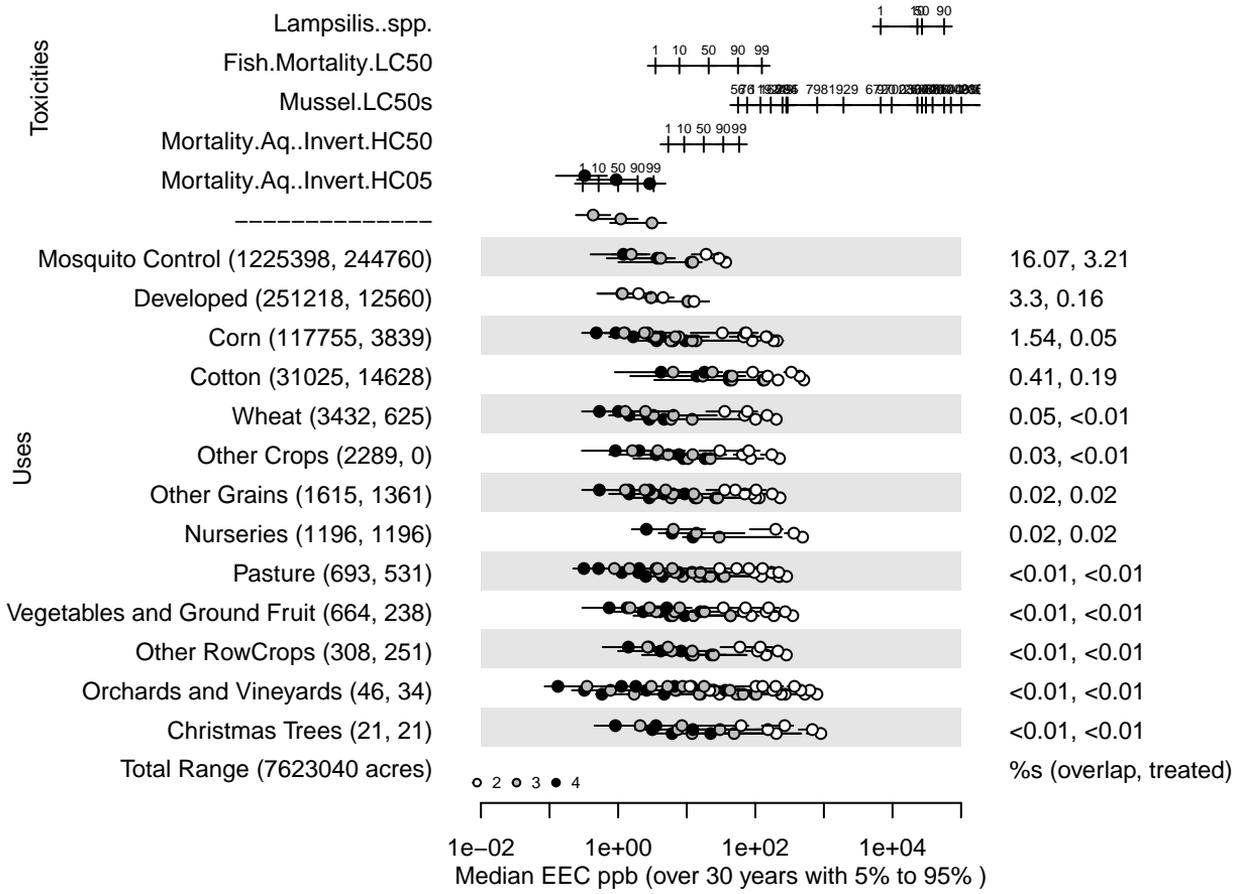
Pale lilliput (pearlymussel) (327) Range



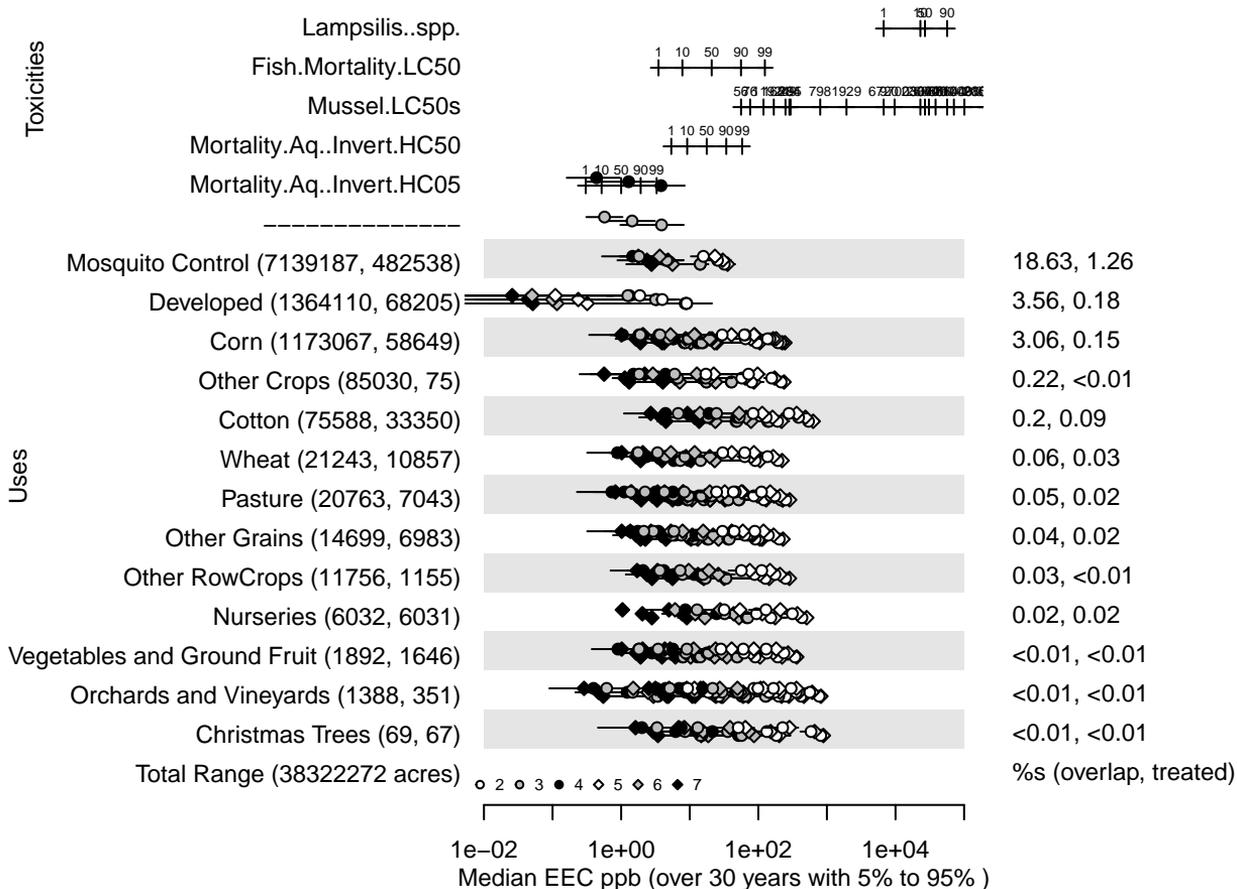
malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:6,7,8,11a, bin:2,3,4,6,7  
 Winged Mapleleaf (328) Range



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:5,6, bin:2  
 Appalachian monkeyface (pearlymussel) (329) Range



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:6, bin:2,3,4  
 Cumberland monkeyface (pearly mussel) (330) Range



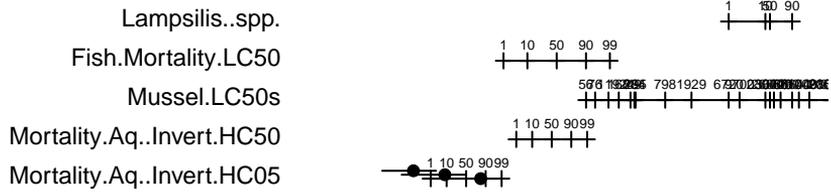
malathion: mal2.mus.tox.txt

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

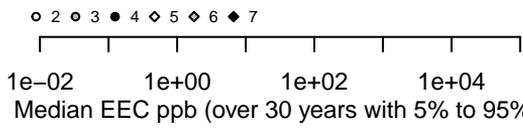
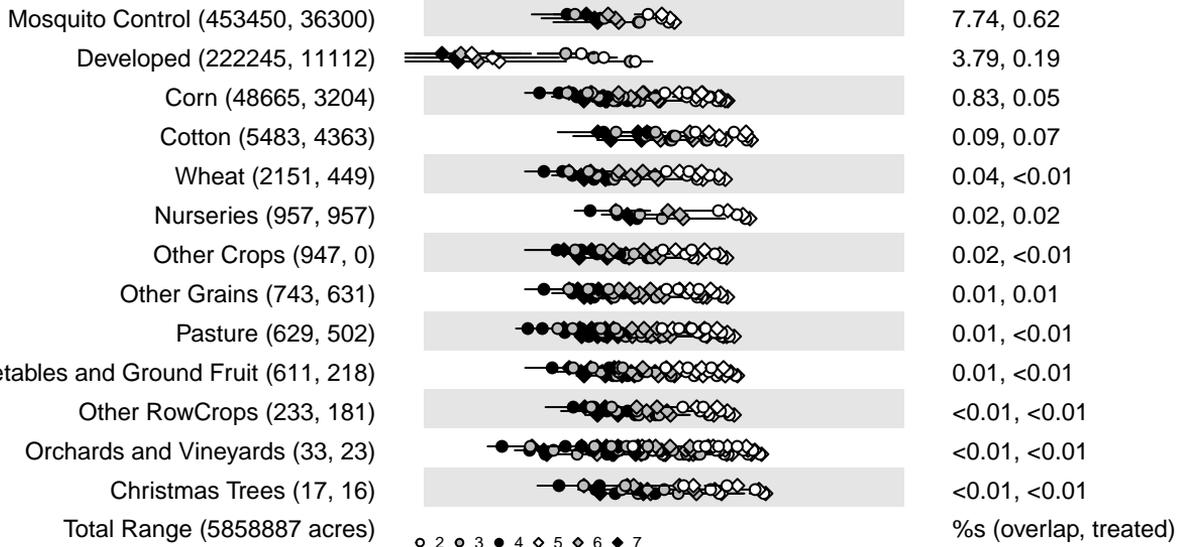
huc:5,6,7,8,10a,11a, bin:2,3,4,5,6,7

Pink mucket (pearlymussel) (331) Range

Toxicities

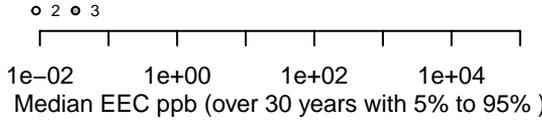
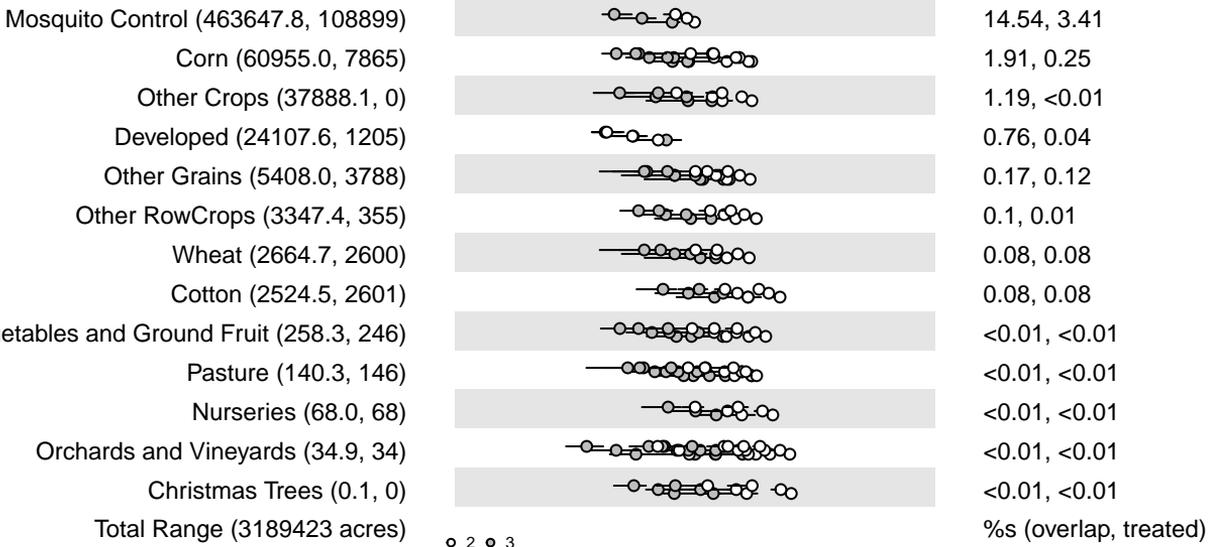
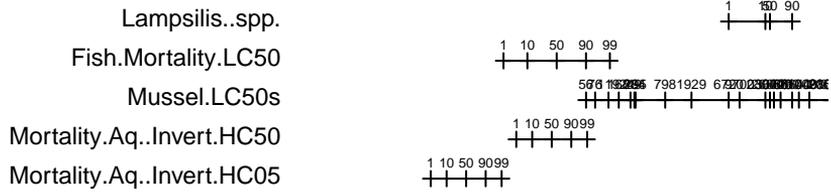


Uses



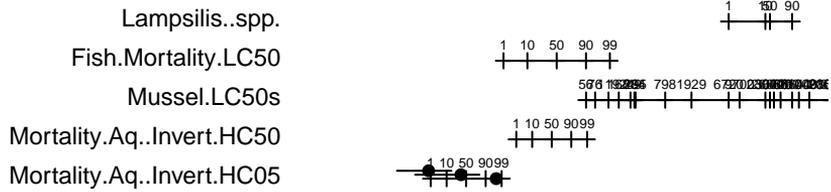
malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:5,6, bin:2,3,4,5,6,7  
 Birdwing pearlymussel (332) Range

Toxicities

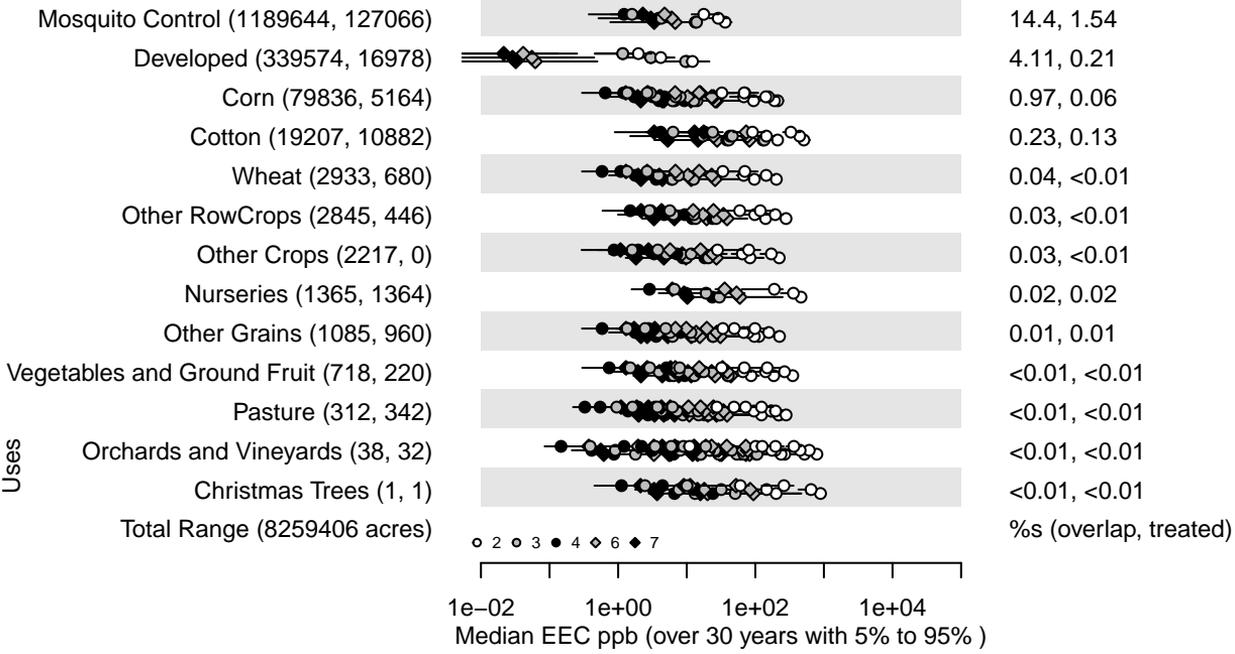


malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:7,8,11a, bin:2,3  
 Curtis pearlymussel (333) Range

Toxicities

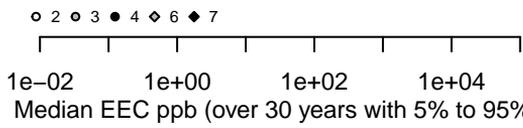
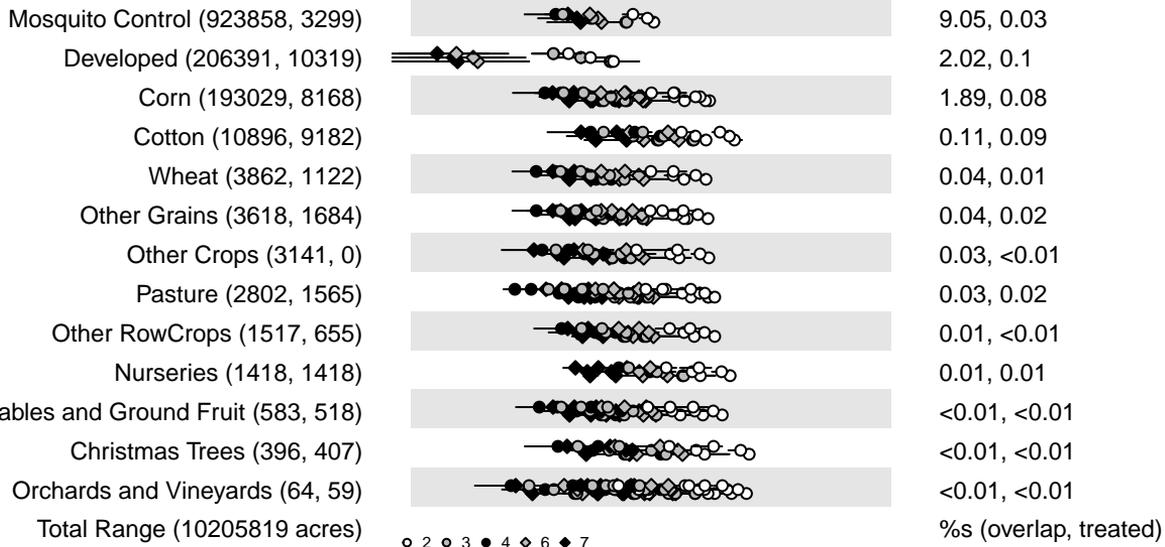
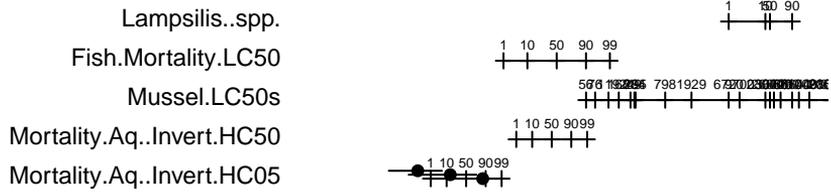


Uses



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:5,6, bin:2,3,4,6,7  
 Dromedary pearlymussel (334) Range

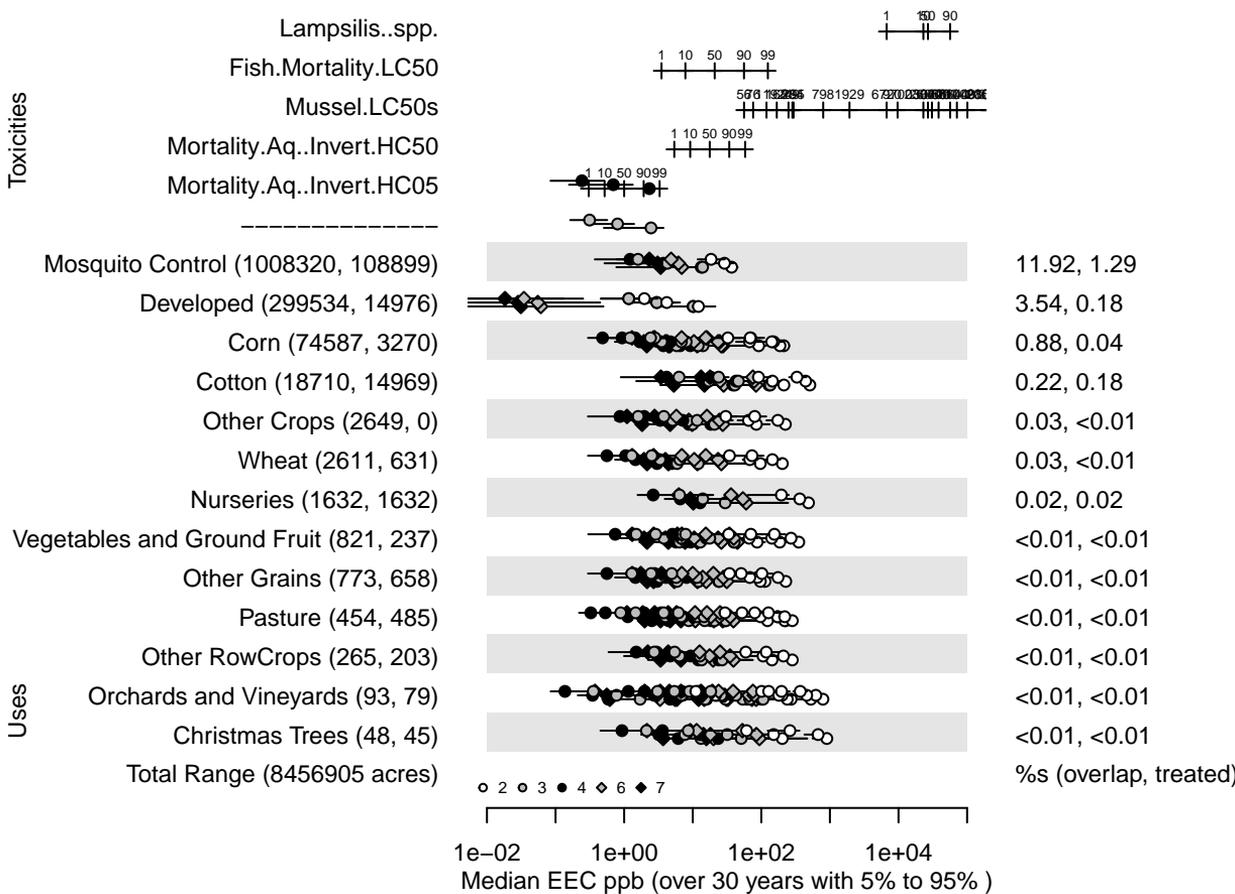
Toxicities



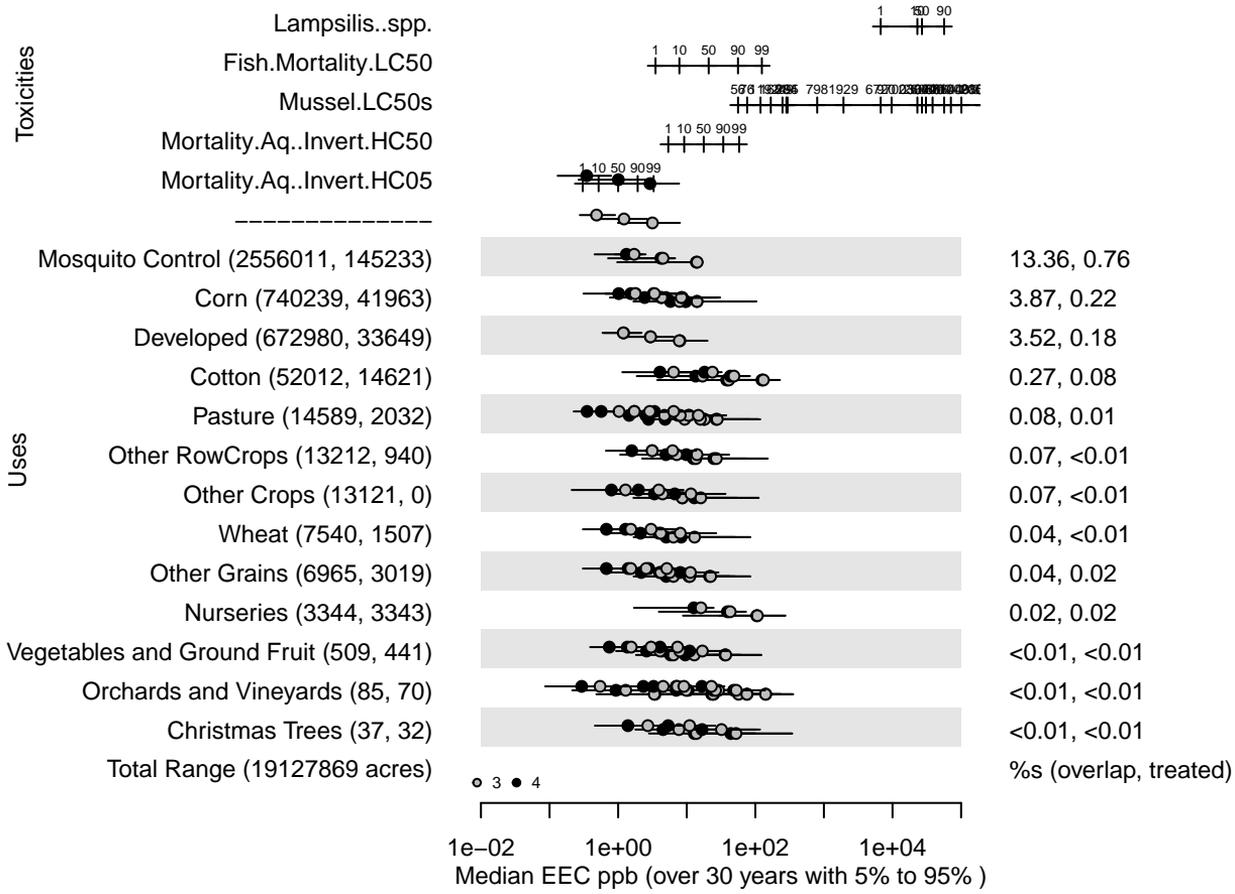
malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3,5,6, bin:2,3,4,6,7  
 Littlewing pearlymussel (335) Range

Toxicities

Uses



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:5,6, bin:2,3,4,6,7  
 Finerayed pigtoe (337) Range



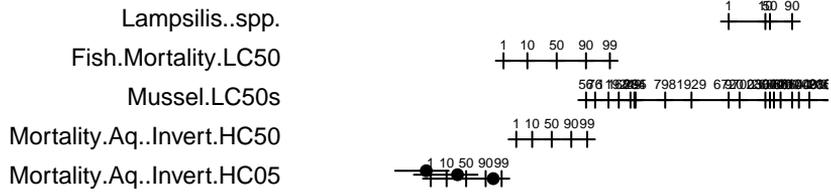
malathion: mal2.mus.tox.txt

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

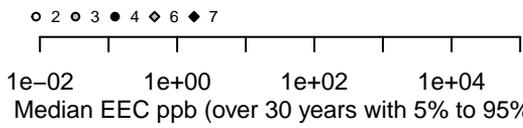
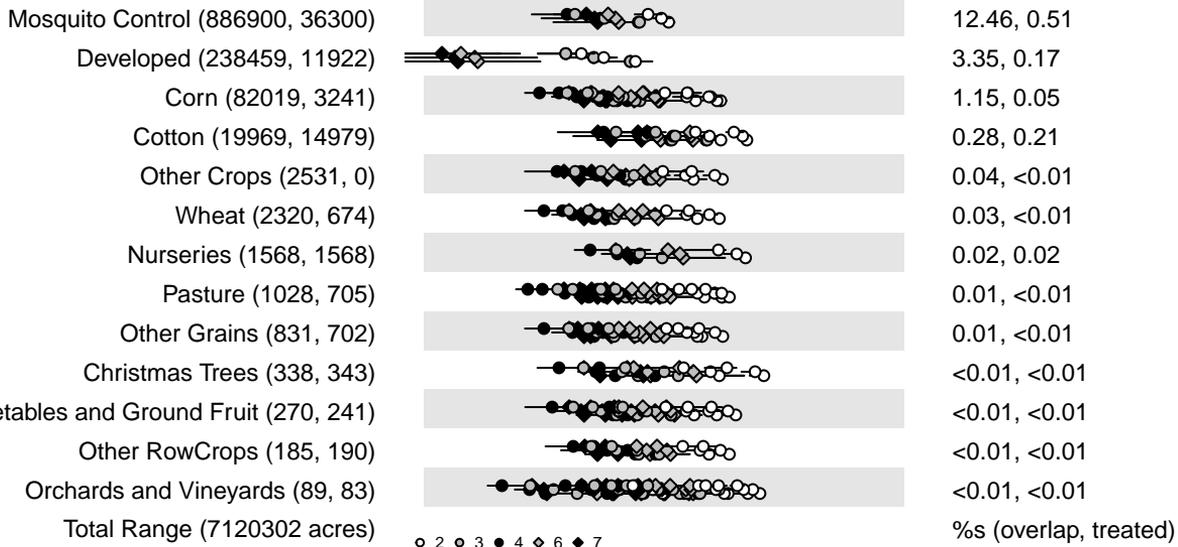
huc:5,6,8, bin:3,4

Rough pigtoe (338) Range

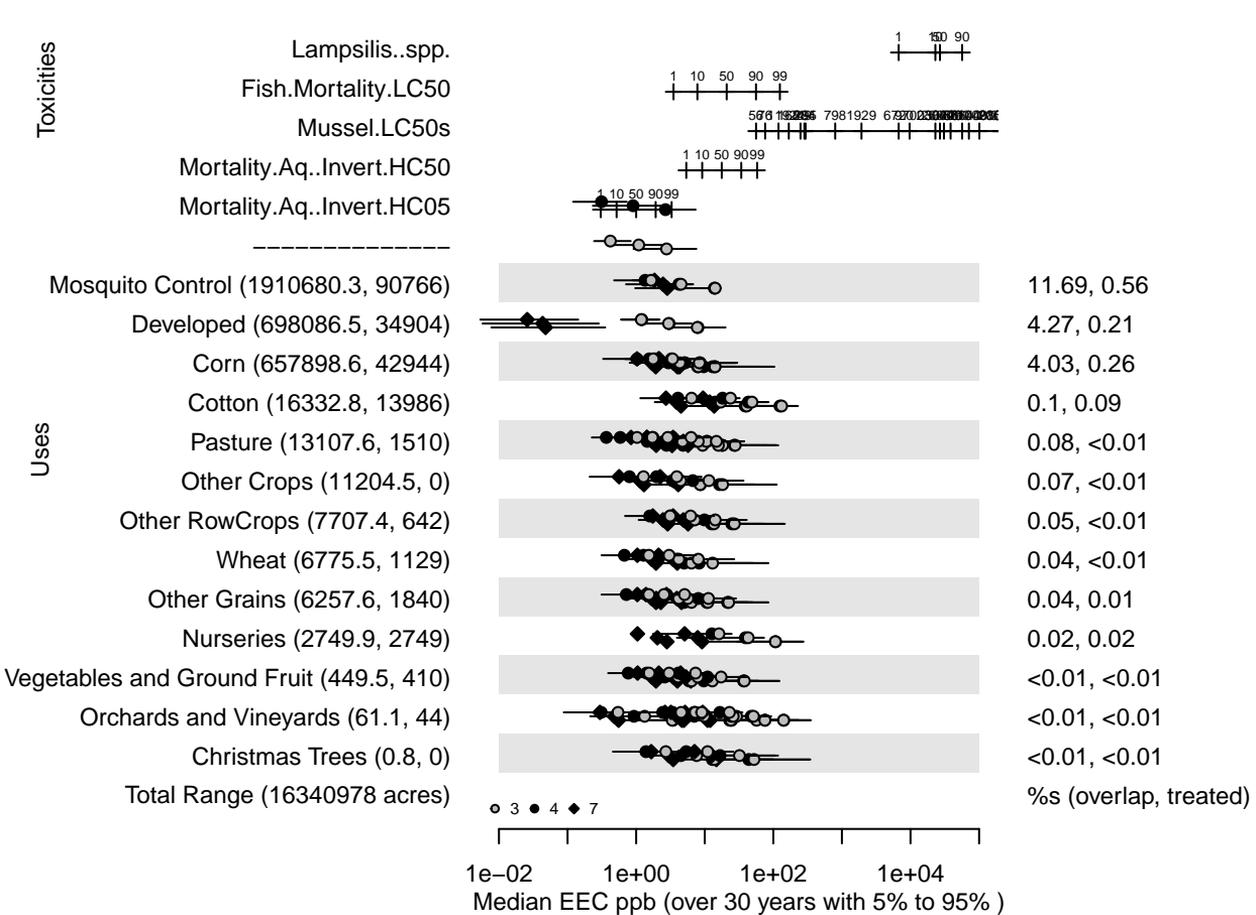
Toxicities



Uses



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:5,6, bin:2,3,4,6,7  
 Shiny pigtoe (339) Range

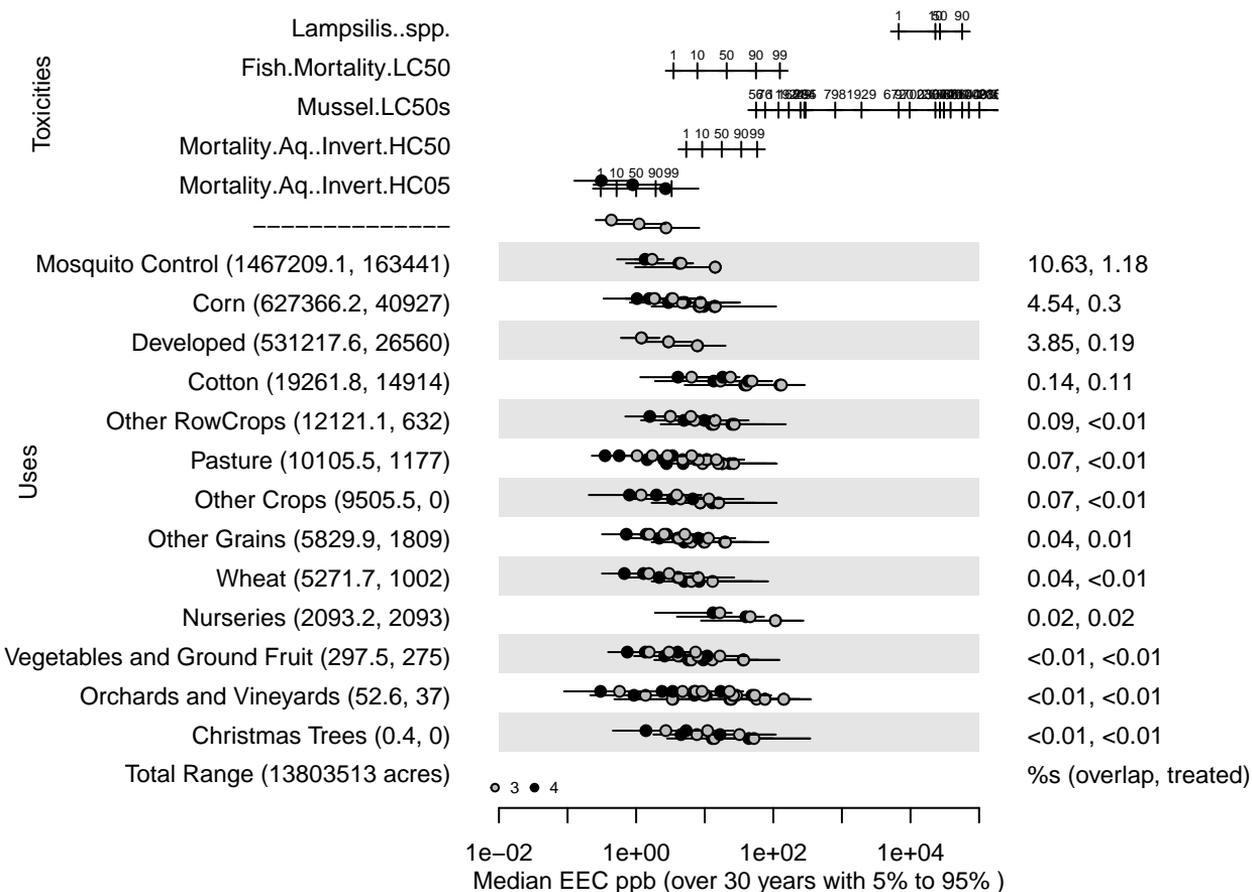


malathion: mal2.mus.tox.txt

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

huc:5,6,7,8, bin:3,4,7

Orangefoot pimpleback (pearlymussel) (340) Range

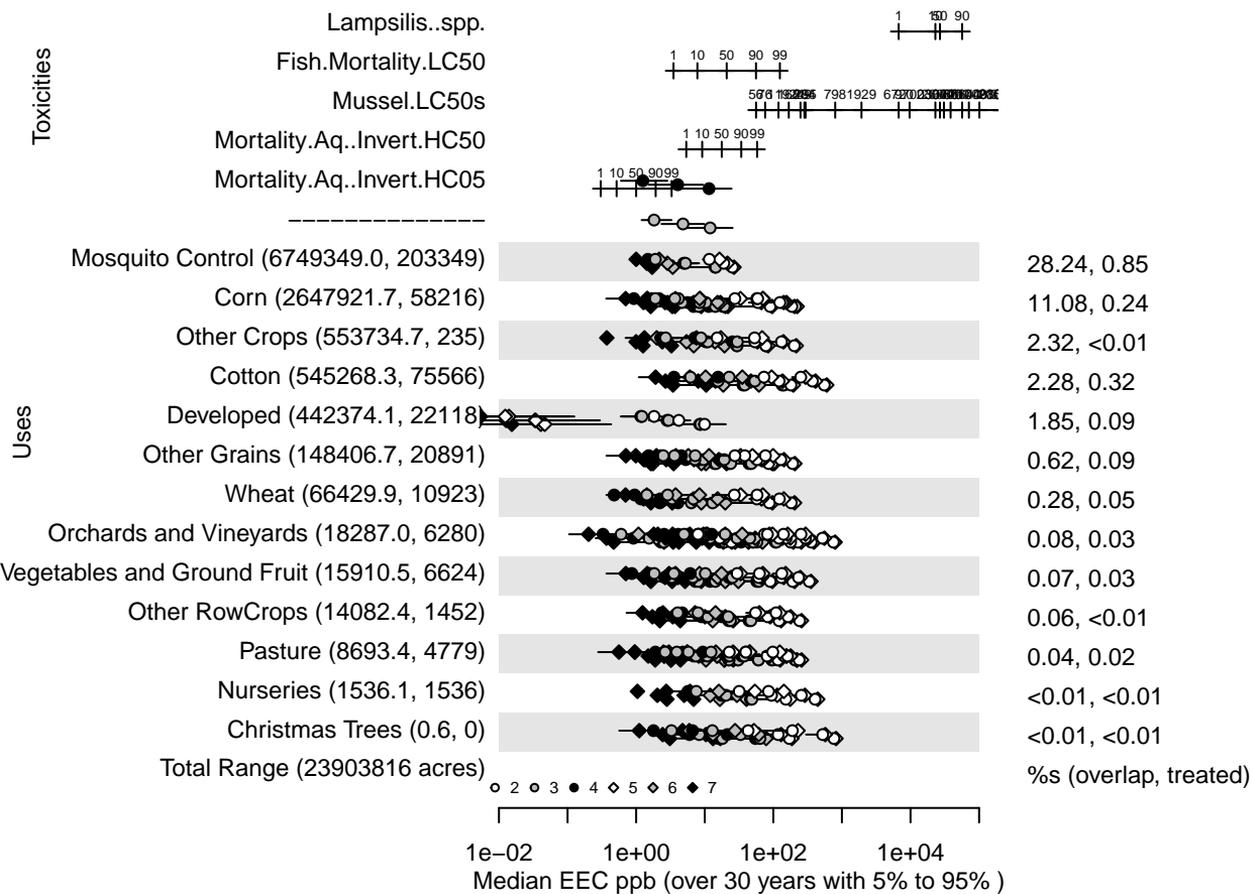


malathion: mal2.mus.tox.txt

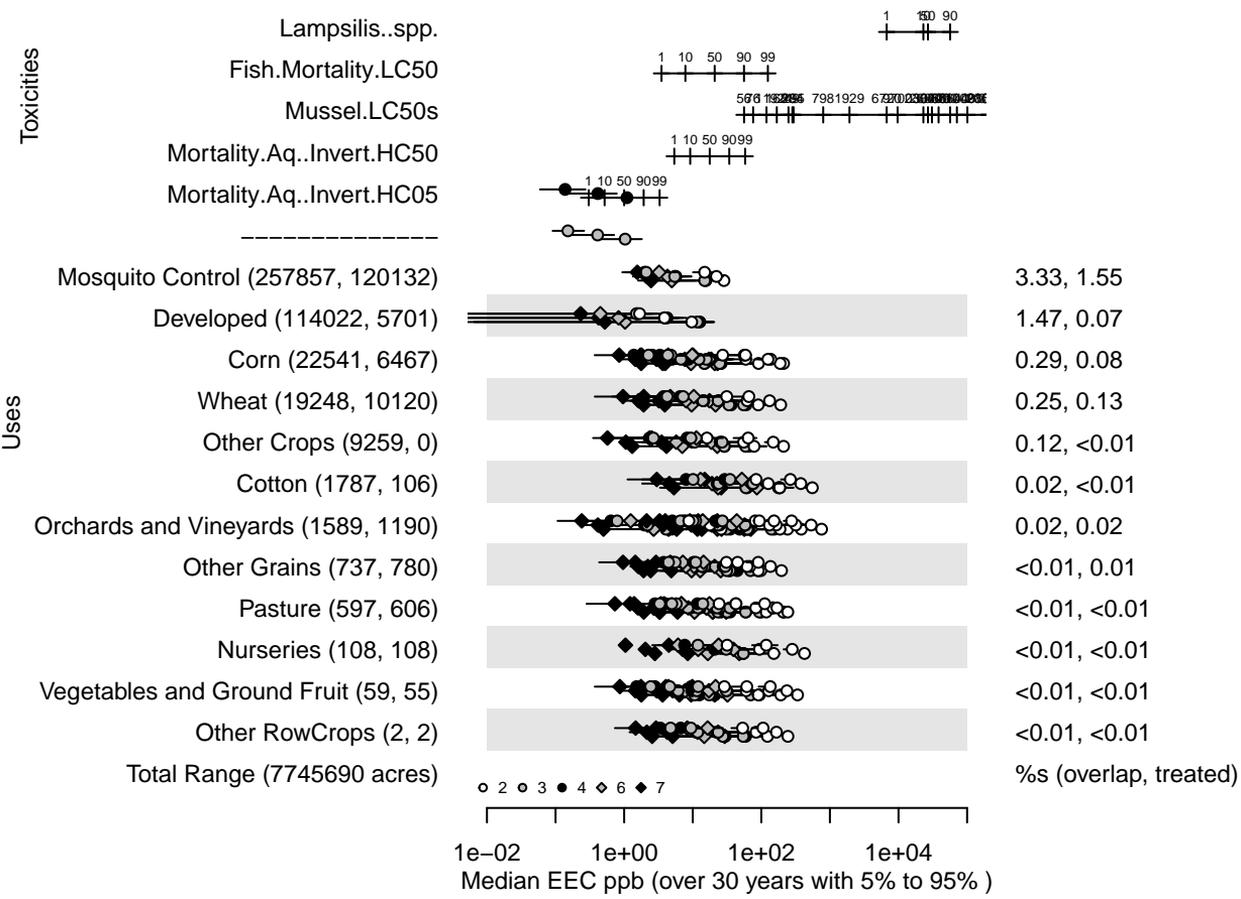
yearly peak 1-d, 4-d, 21-d (from bottom up)

huc:5,6,8, bin:3,4

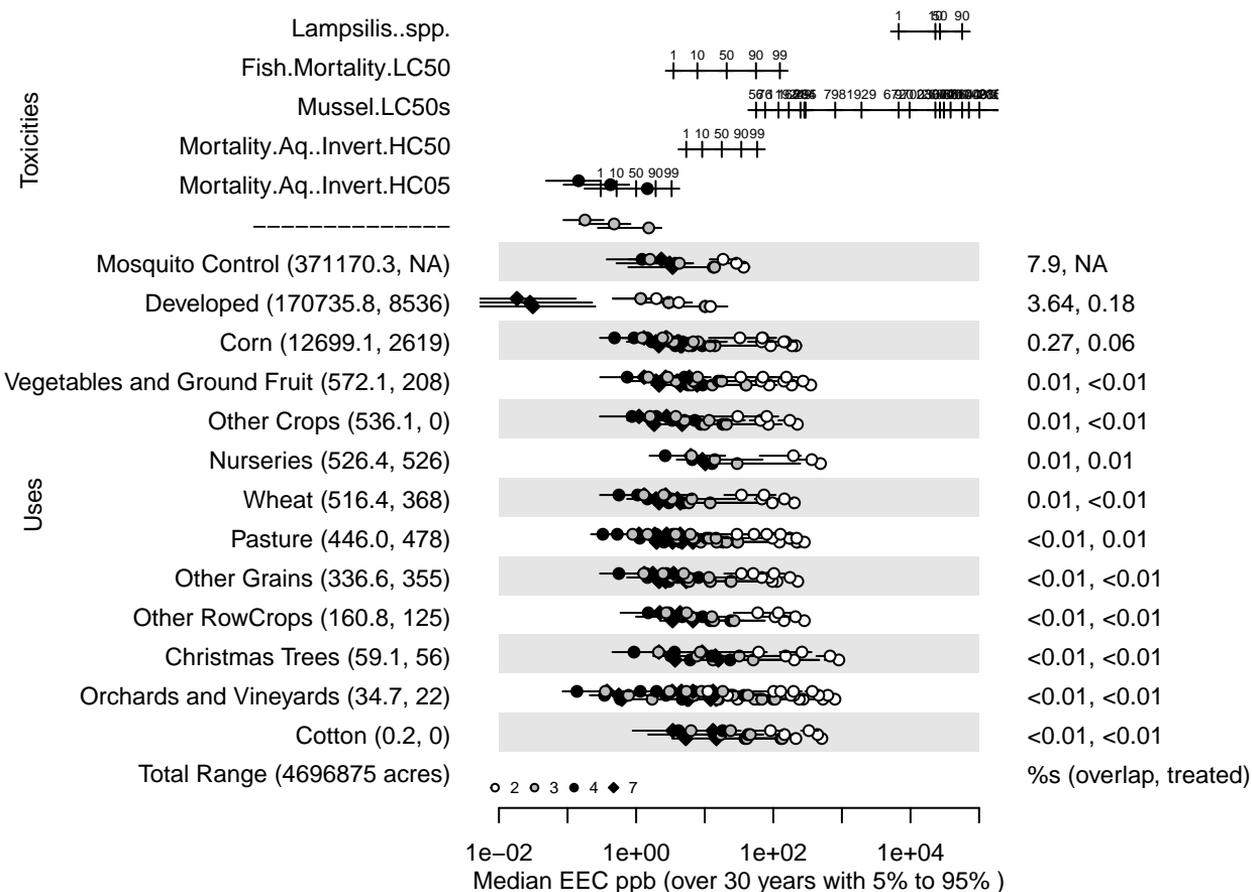
Ring pink (mussel) (341) Range



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:8, bin:2,3,4,5,6,7  
 Fat pocketbook (342) Range



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:8,11a, bin:2,3,4,6,7  
 Ouachita rock pocketbook (343) Range

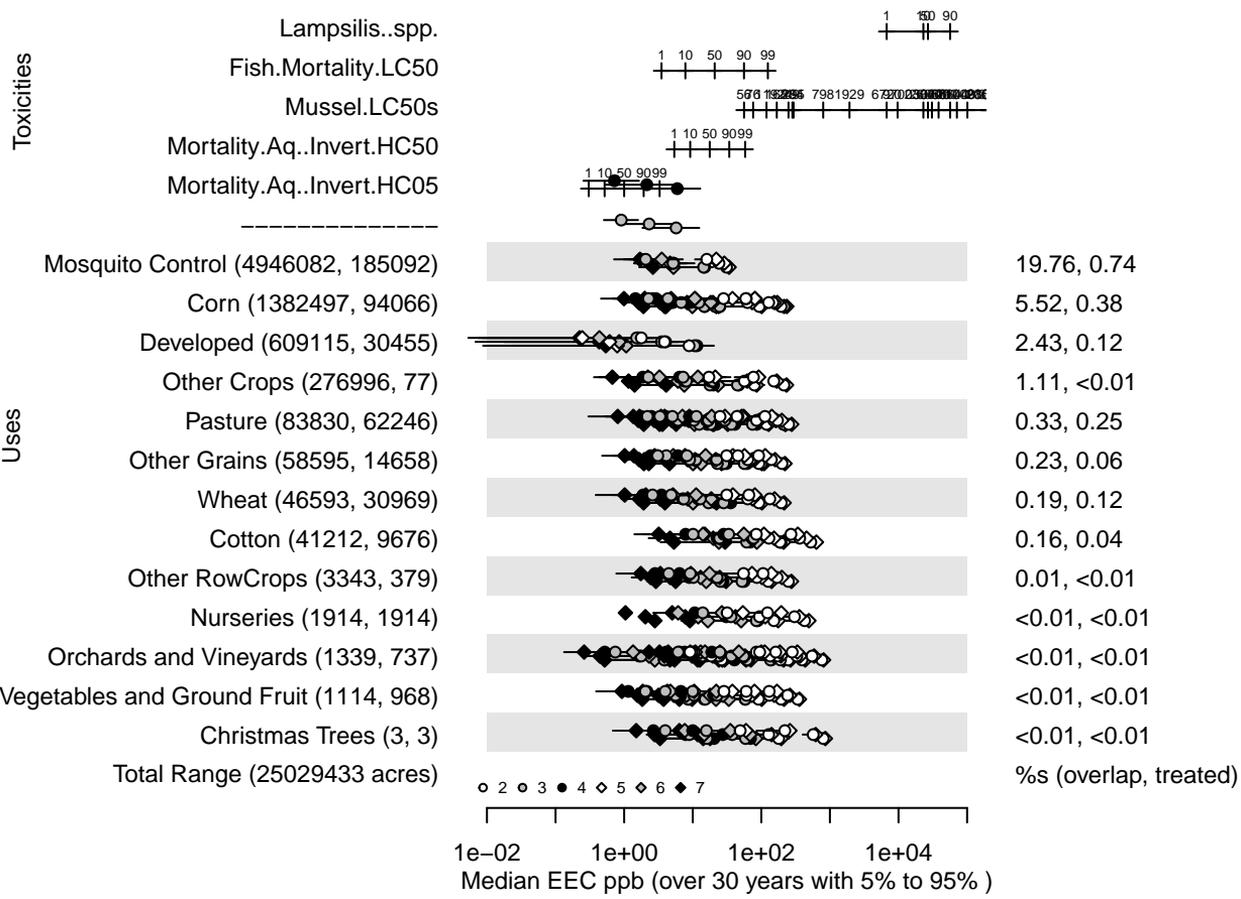


malathion: mal2.mus.tox.txt

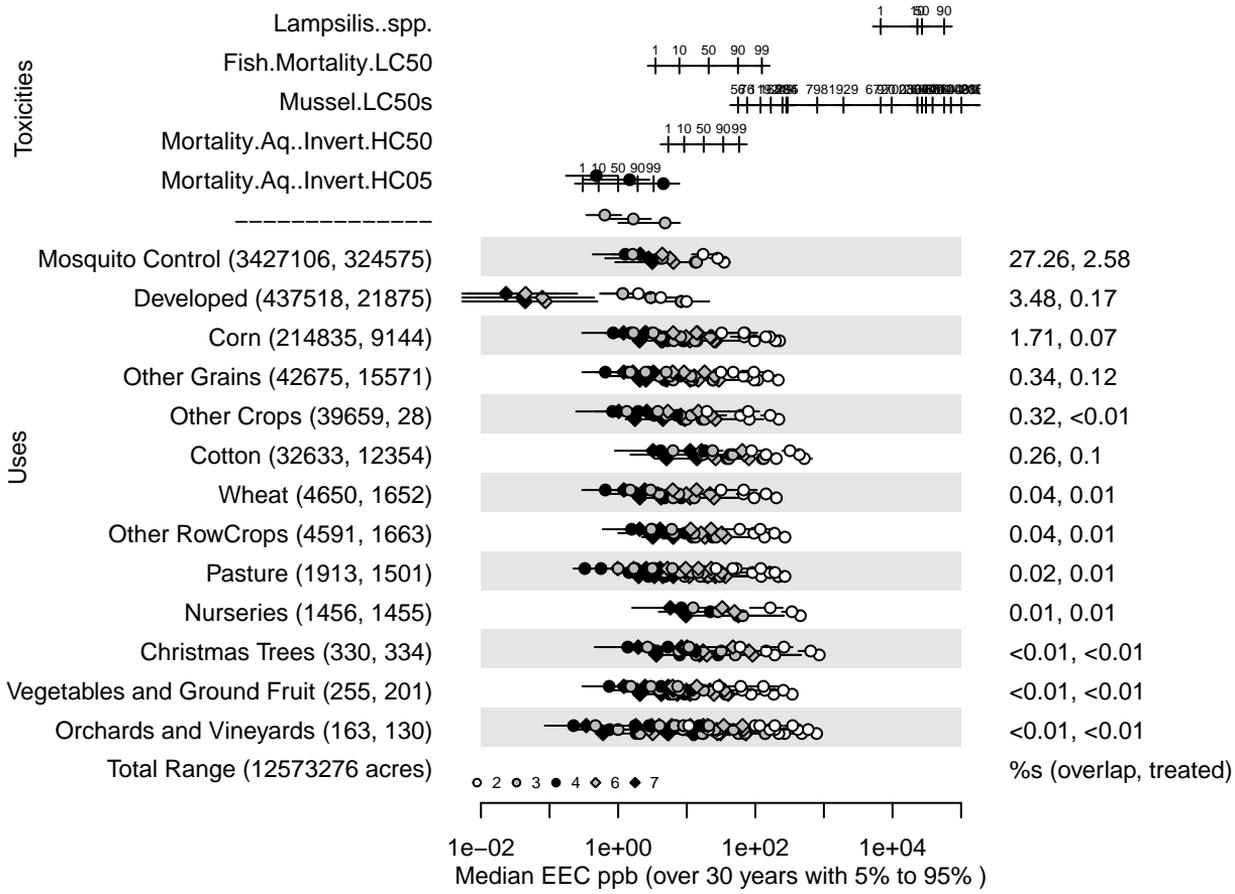
yearly peak 1-d, 4-d, 21-d (from bottom up)

huc:5,6, bin:2,3,4,7

Rough rabbitsfoot (344) Range

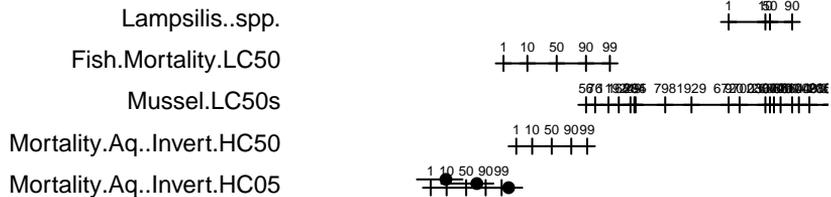


malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:5,7,8,10a,11a, bin:2,3,4,5,6,7  
 Scaleshell mussel (345) Range

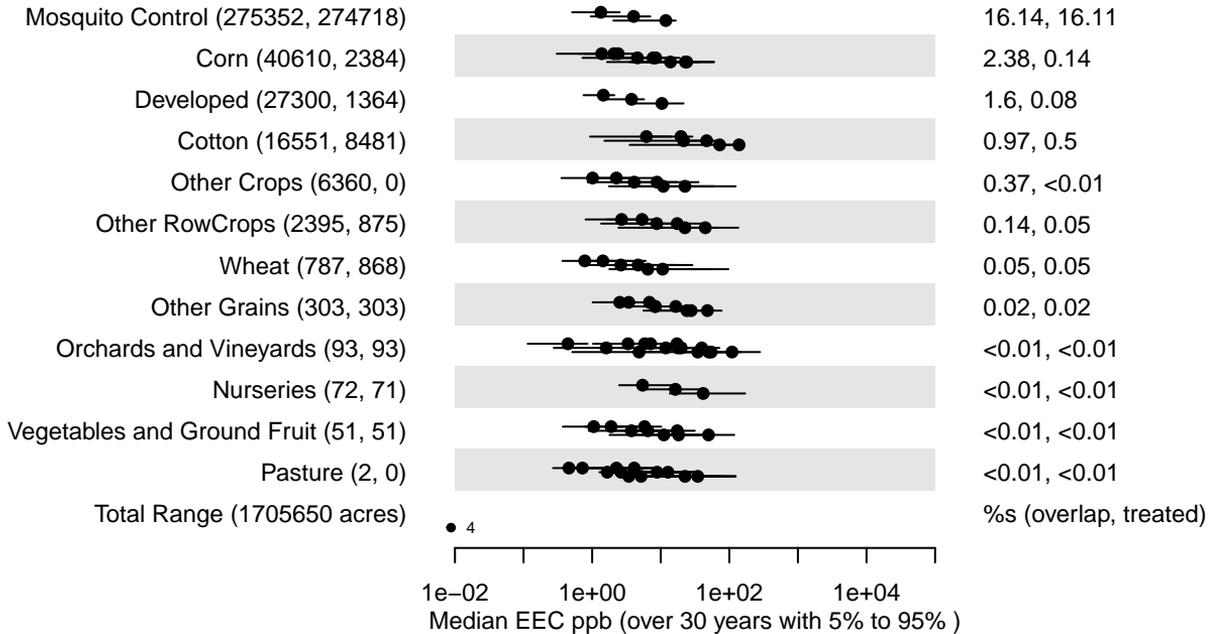


malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:5,6, bin:2,3,4,6,7  
 Tan riffleshell (346) Range

Toxicities

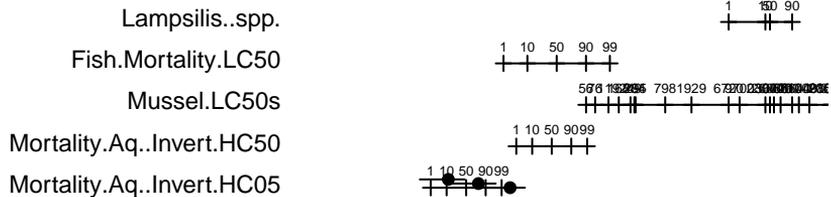


Uses

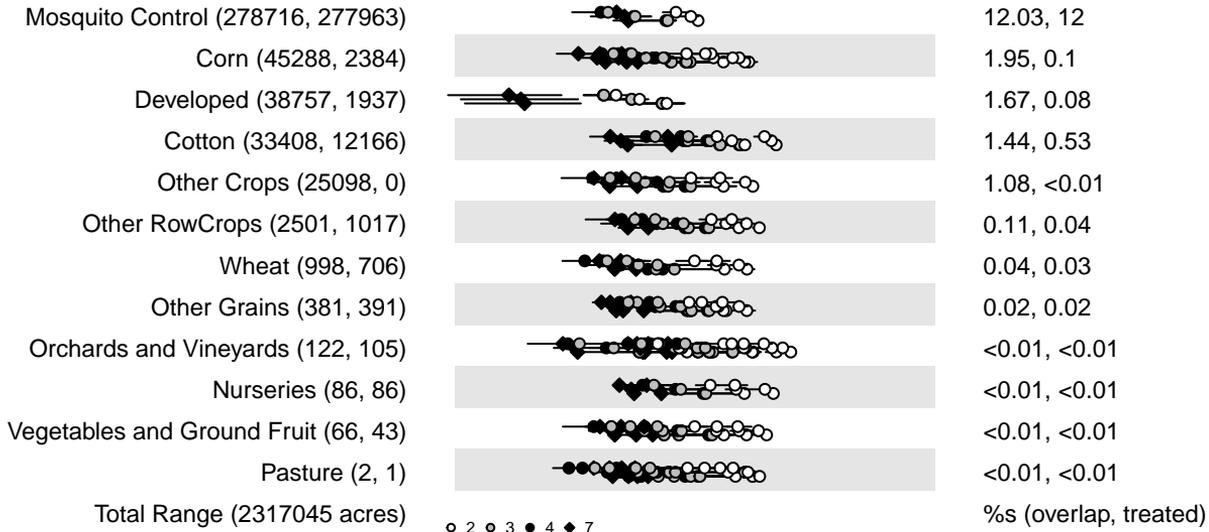


malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3, bin:4  
 Black clubshell (347) Range

Toxicities



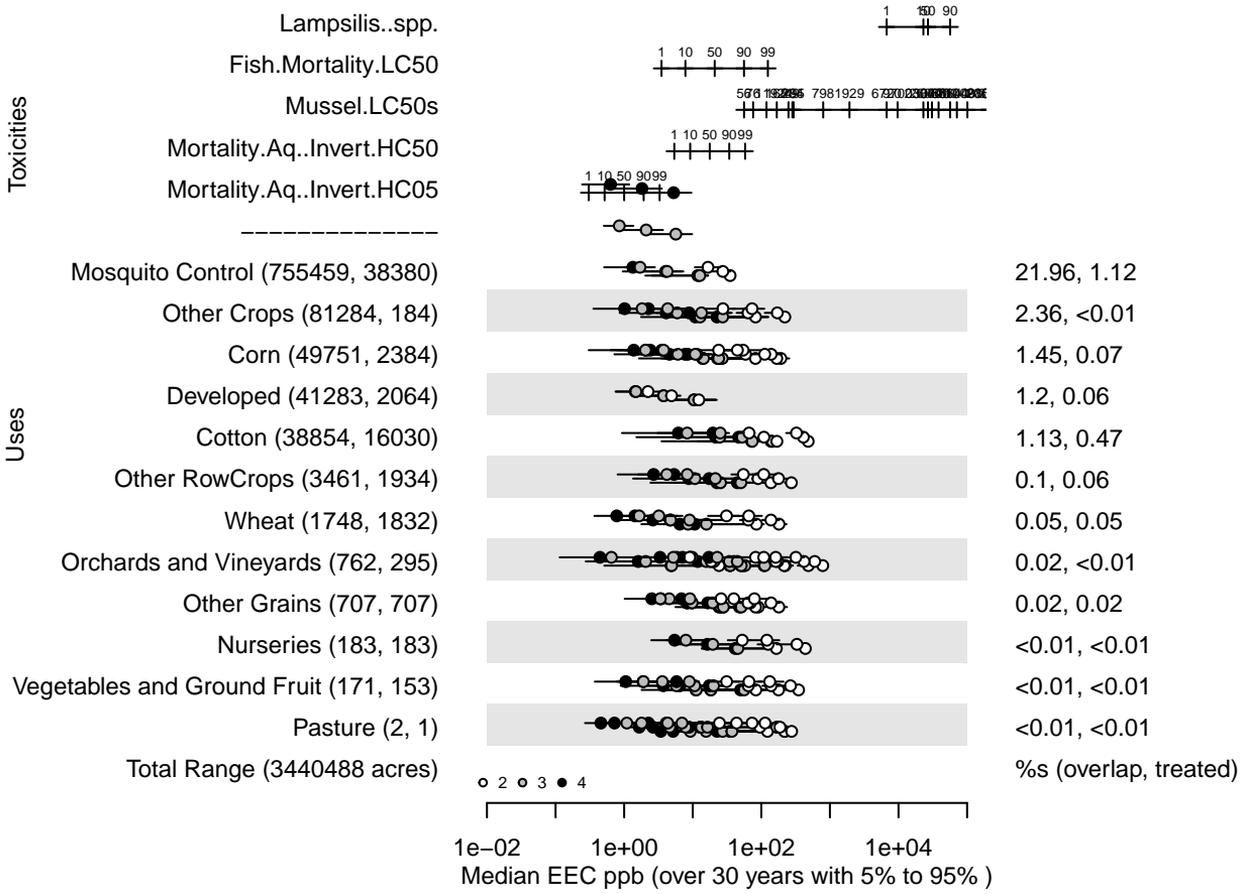
Uses



○ 2 ○ 3 ● 4 ◆ 7

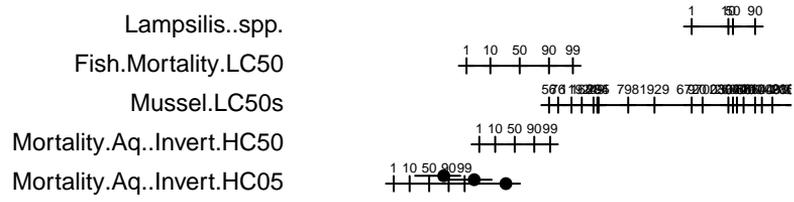
1e-02 1e+00 1e+02 1e+04  
 Median EEC ppb (over 30 years with 5% to 95%)

malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3, bin:2,3,4,7  
 Southern combshell (348) Range

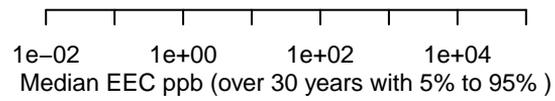
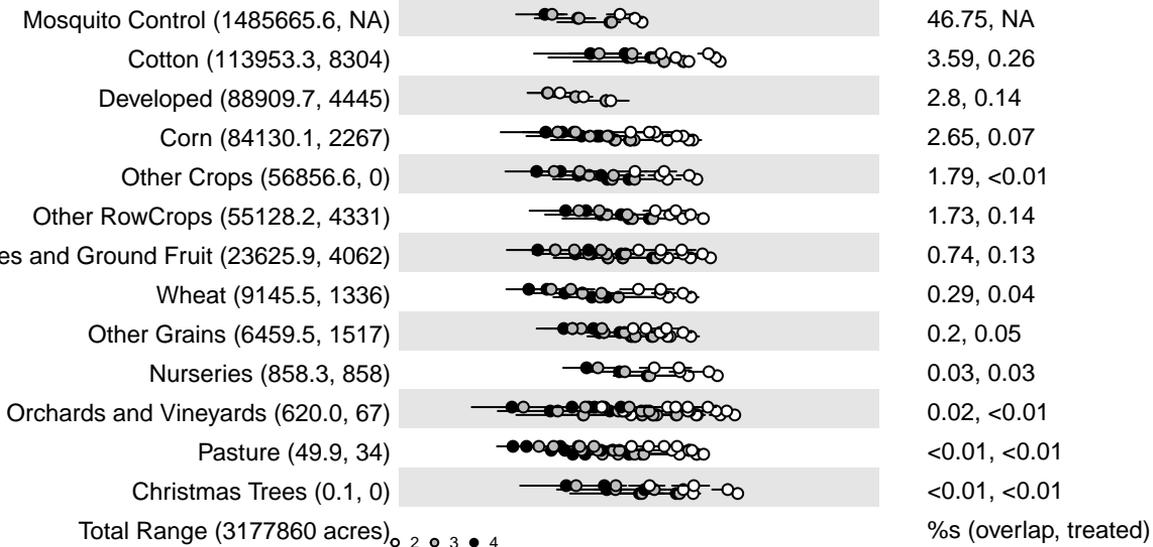


malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3, bin:2,3,4  
 Heavy pigtoe (350) Range

Toxicities



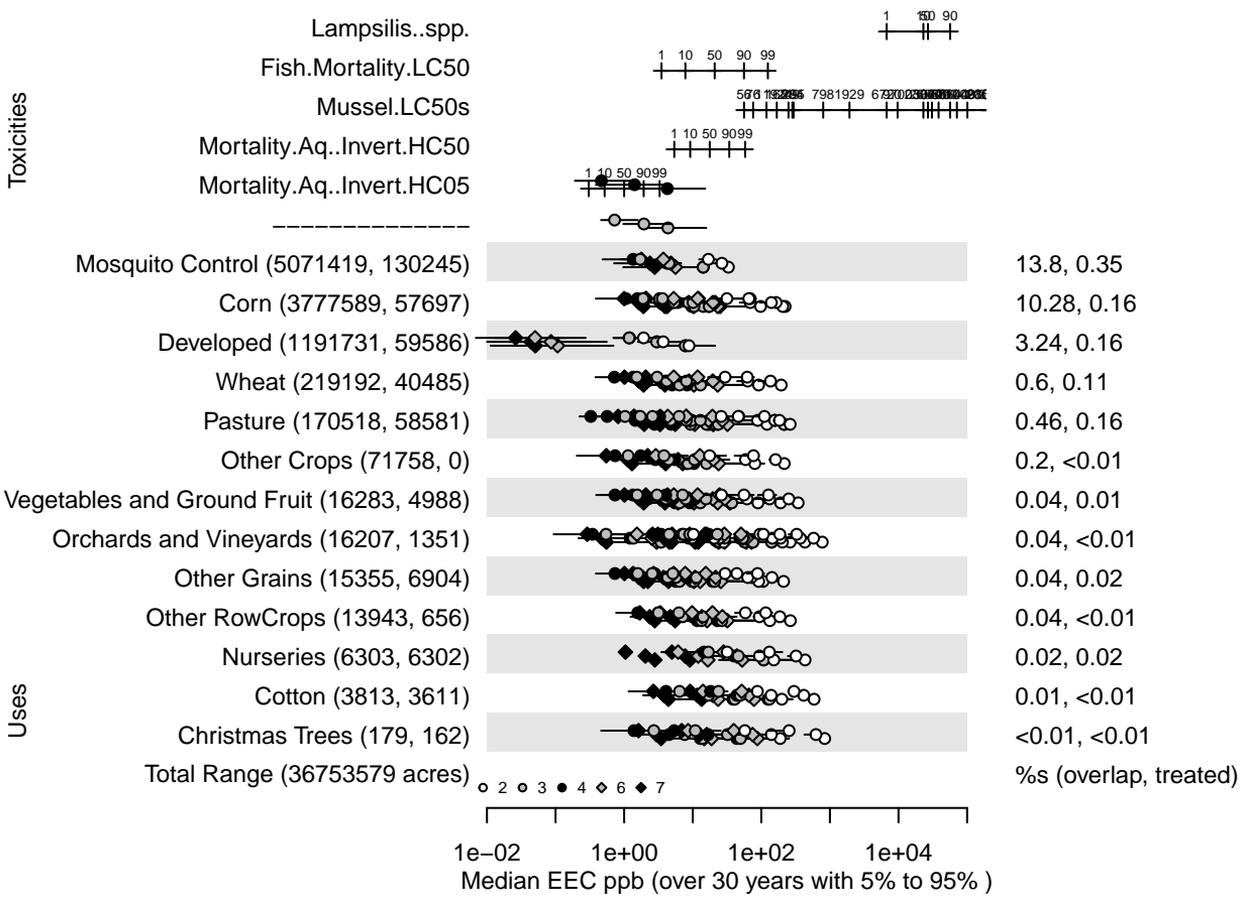
Uses



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3, bin:2,3,4  
 Tar River spiny mussel (351) Range

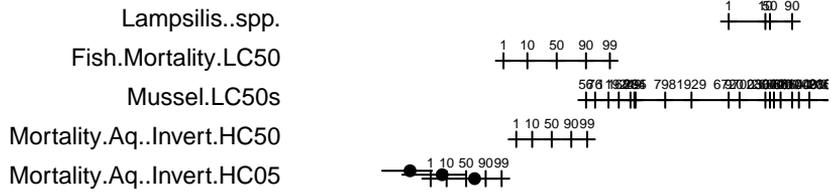
Toxicities

Uses

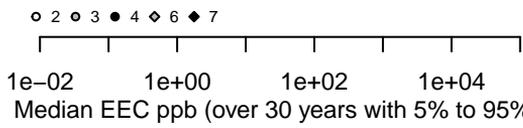
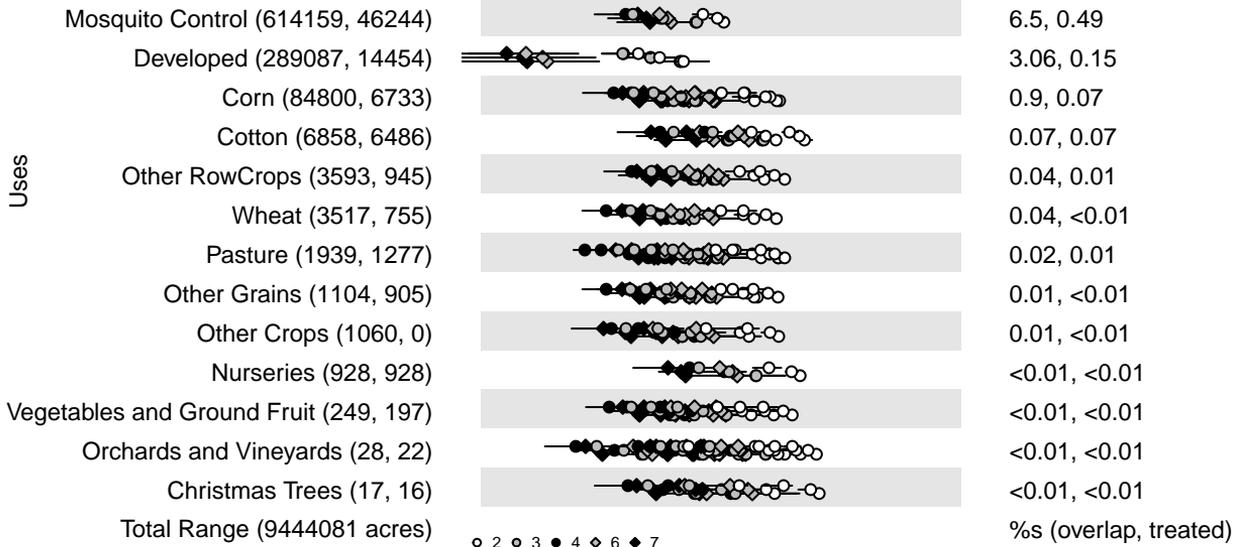


malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:4,5,6,7,8, bin:2,3,4,6,7  
 Clubshell (352) Range

Toxicities

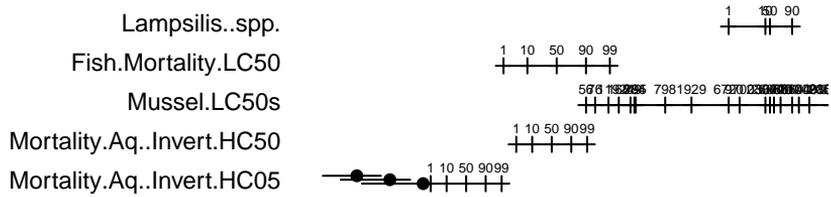


Uses

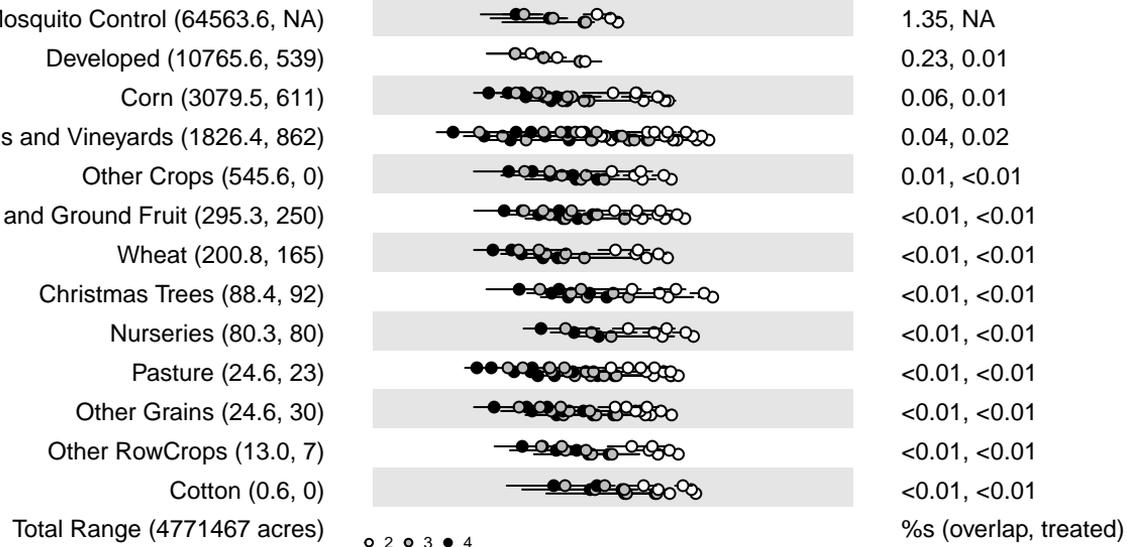


malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:5,6, bin:2,3,4,6,7  
 Cumberlandian combshell (353) Range

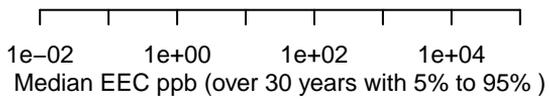
Toxicities



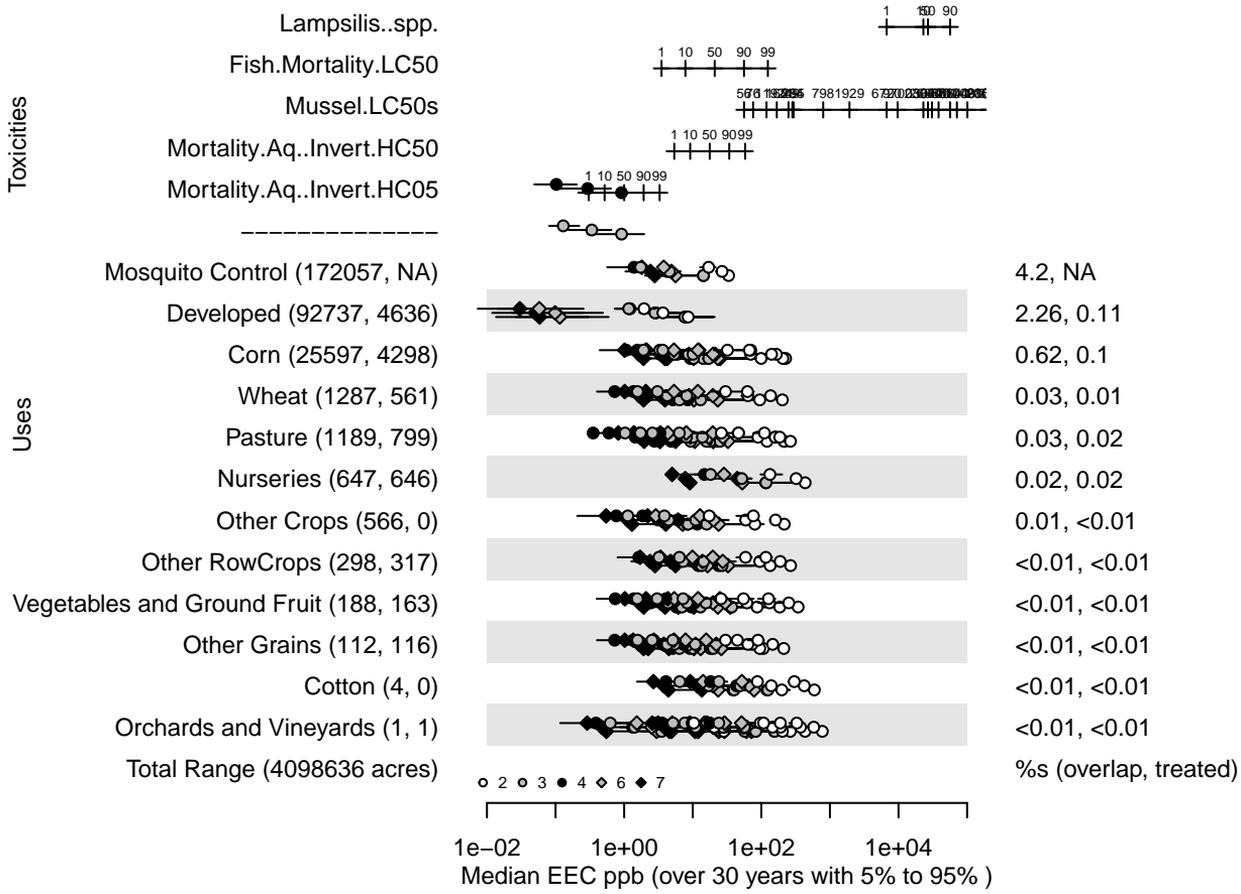
Uses



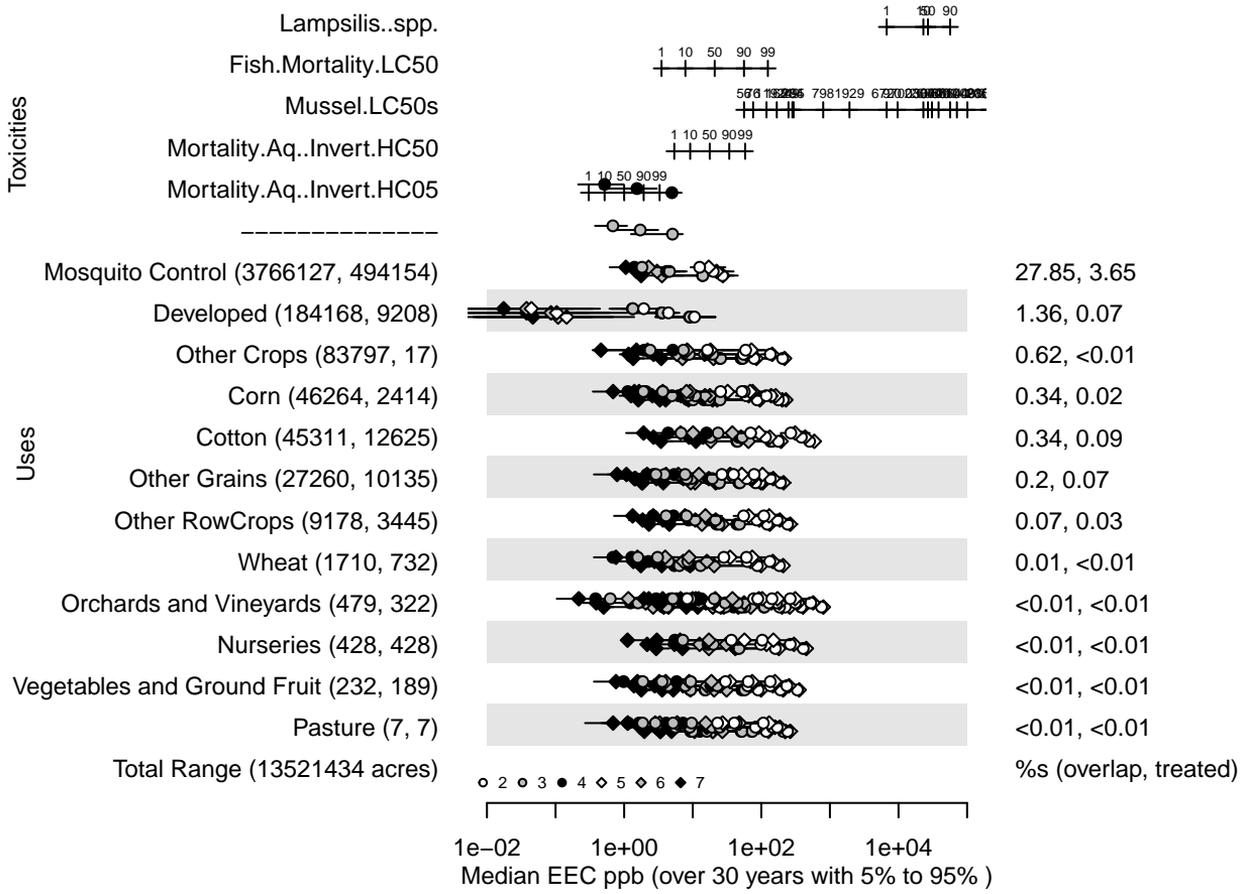
○ 2 ○ 3 ● 4



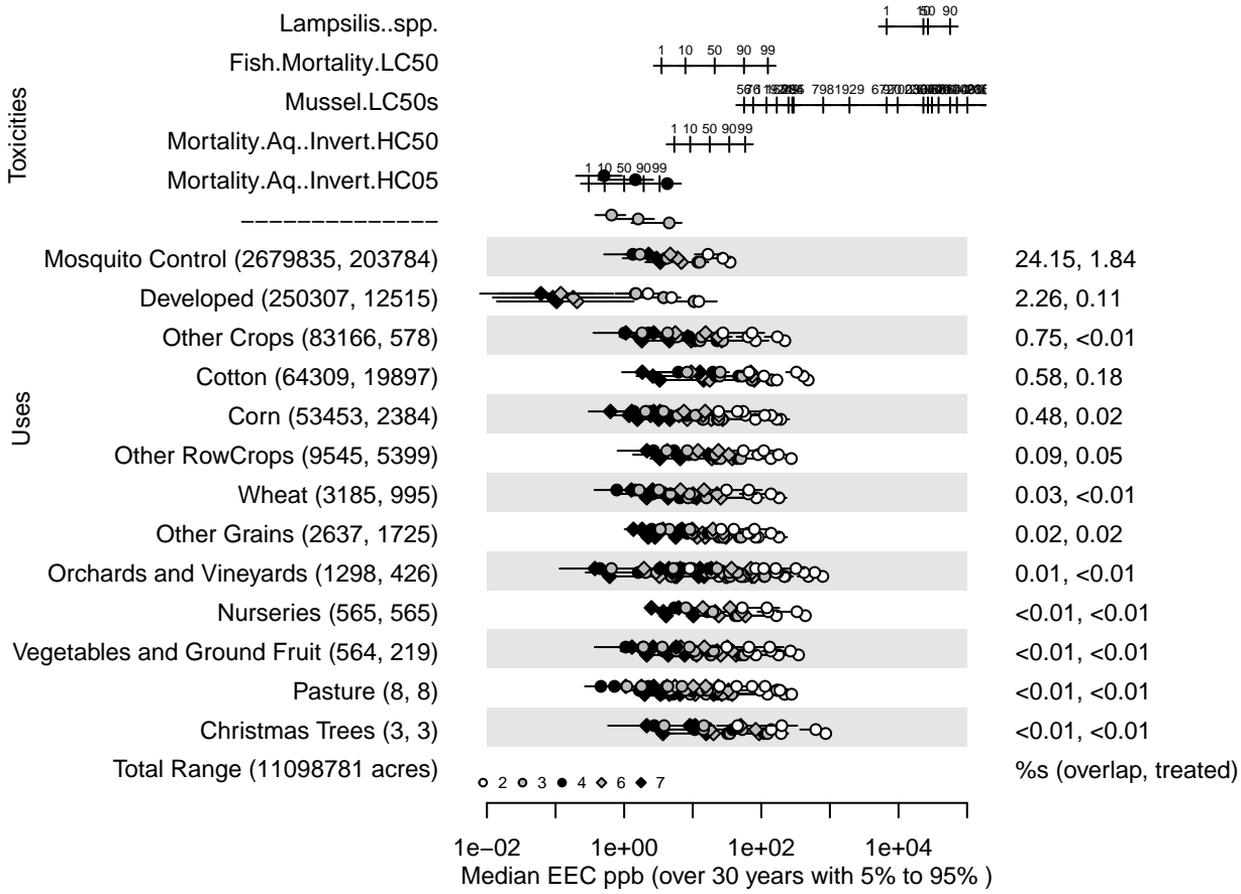
malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3,6, bin:2,3,4  
 Appalachian elktoe (354) Range



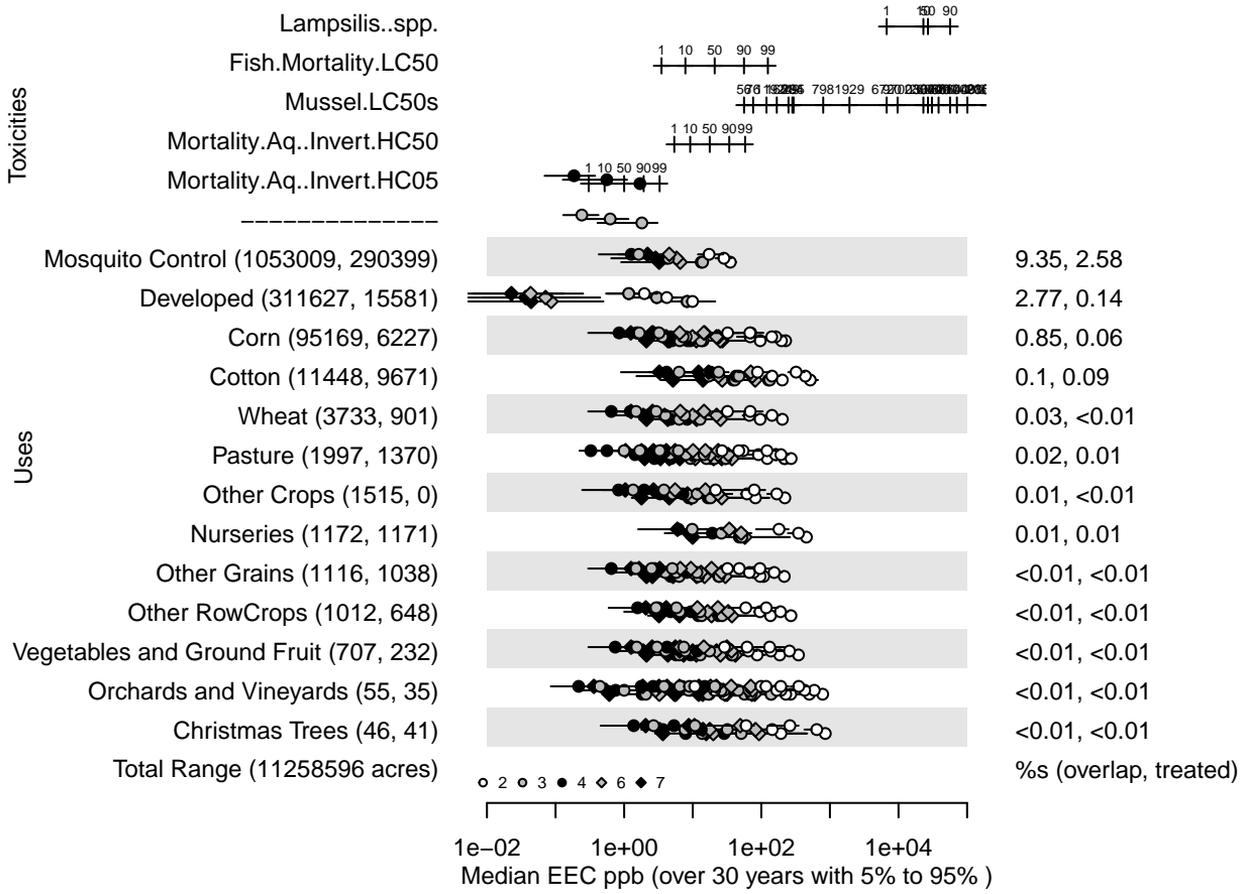
malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:5, bin:2,3,4,6,7  
 Cumberland elktoe (355) Range



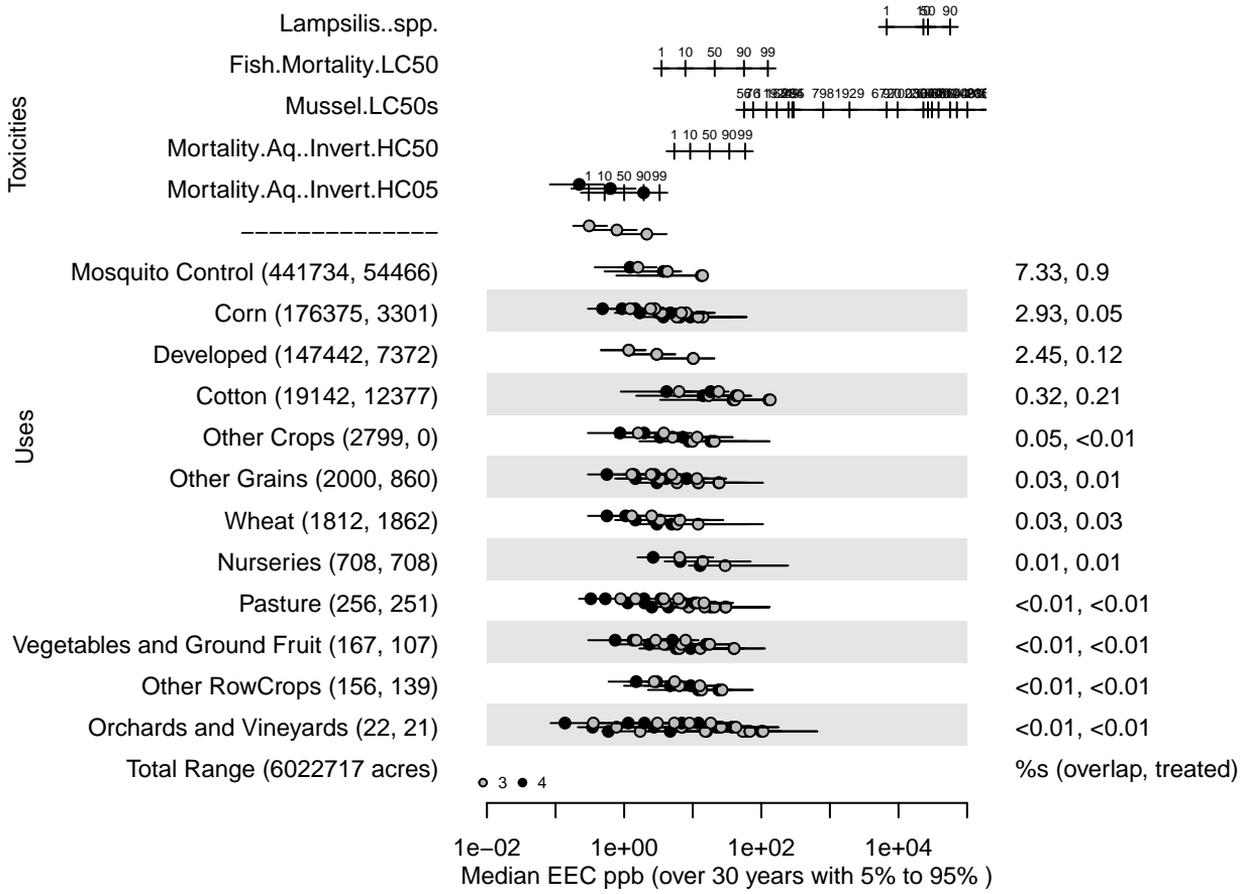
malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3,6,8, bin:2,3,4,5,6,7  
 Alabama (=inflated) heelsplitter (356) Range



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3, bin:2,3,4,6,7  
 Orangenacre mucket (357) Range

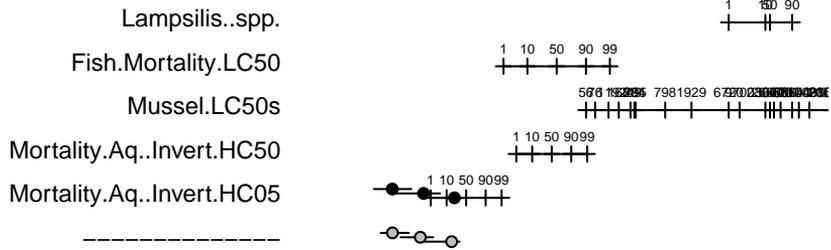


malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:5,6, bin:2,3,4,6,7  
 Oyster mussel (358) Range

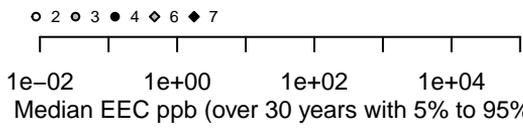
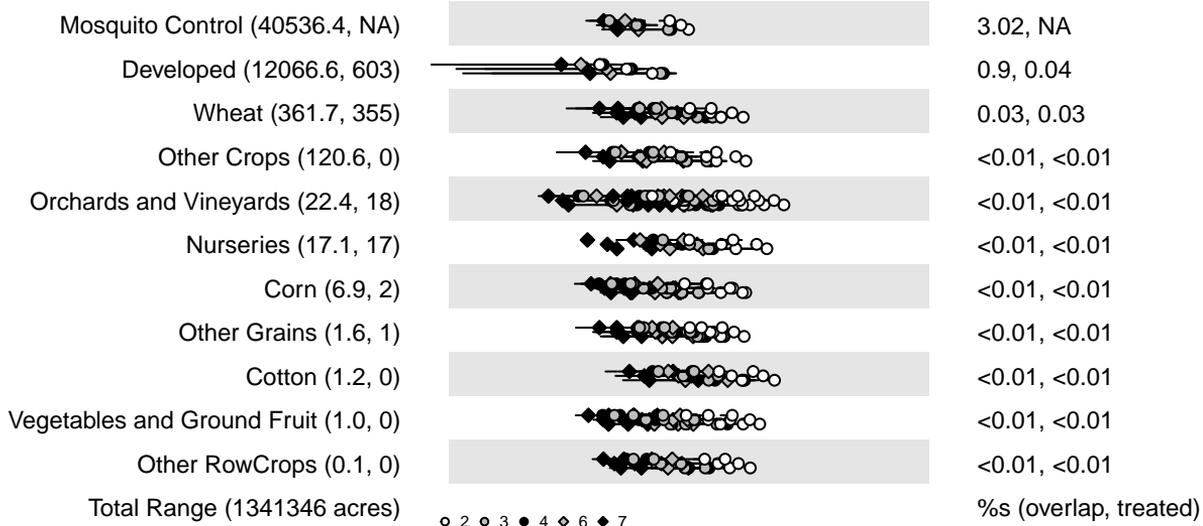


malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:5,6, bin:3,4  
 Cracking pearlymussel (359) Range

Toxicities

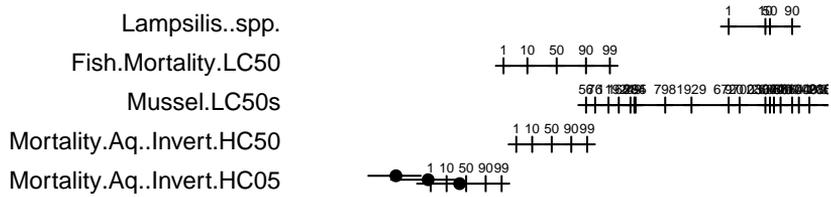


Uses

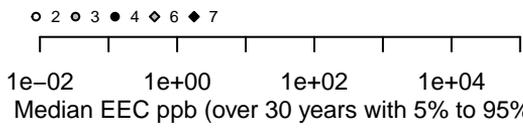
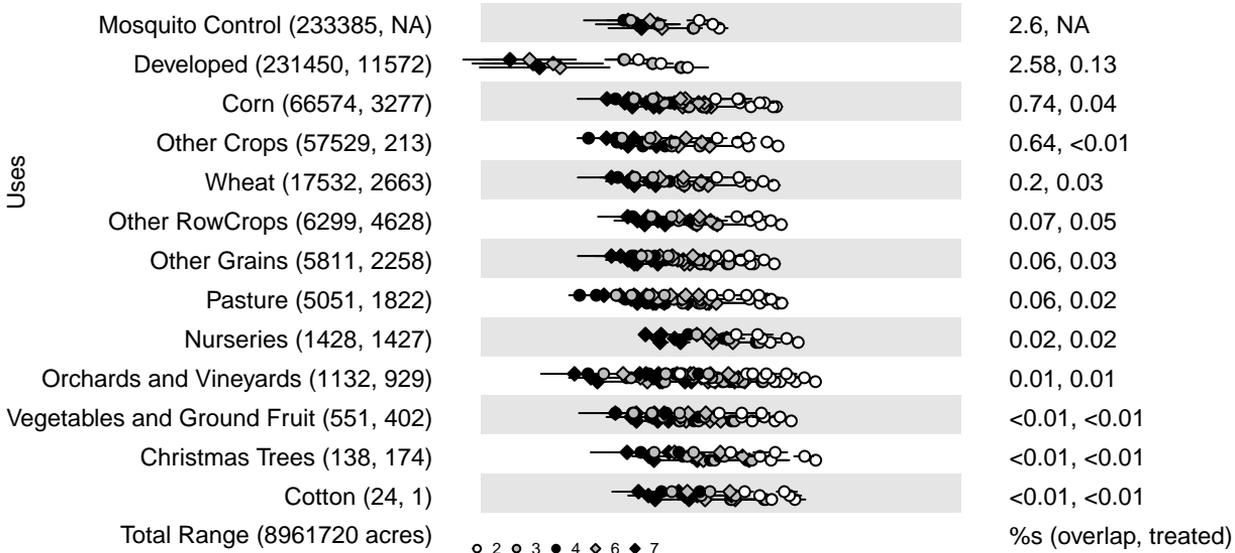


malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:8,11a, bin:2,3,4,6,7  
 Speckled pocketbook (360) Range

Toxicities

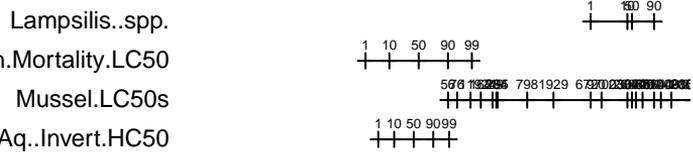


Uses

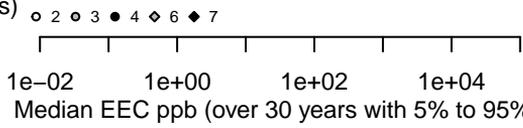
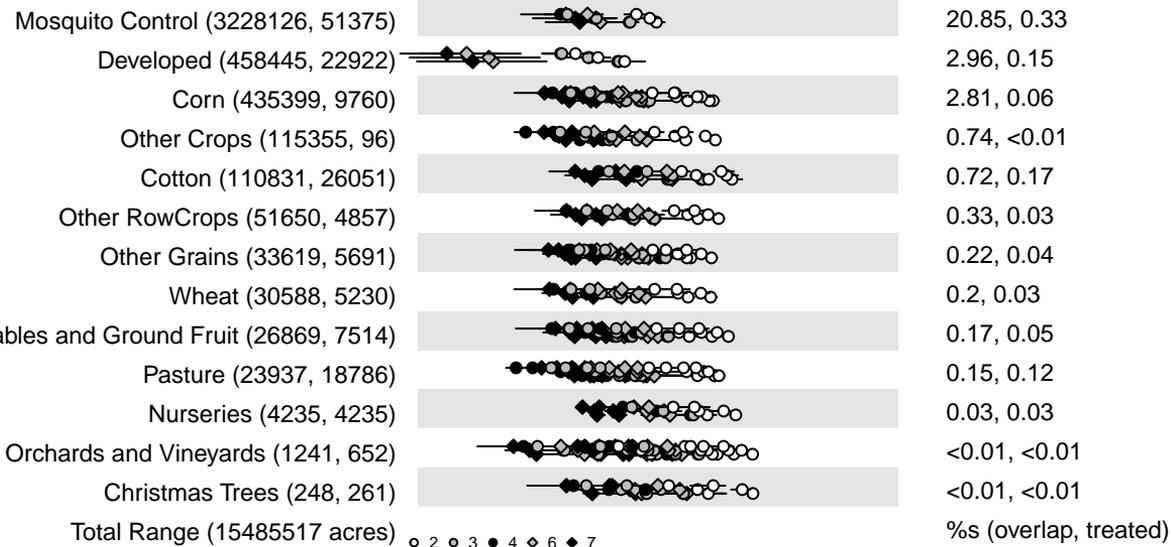


malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:2,3,5, bin:2,3,4,6,7  
 James spynymussel (361) Range

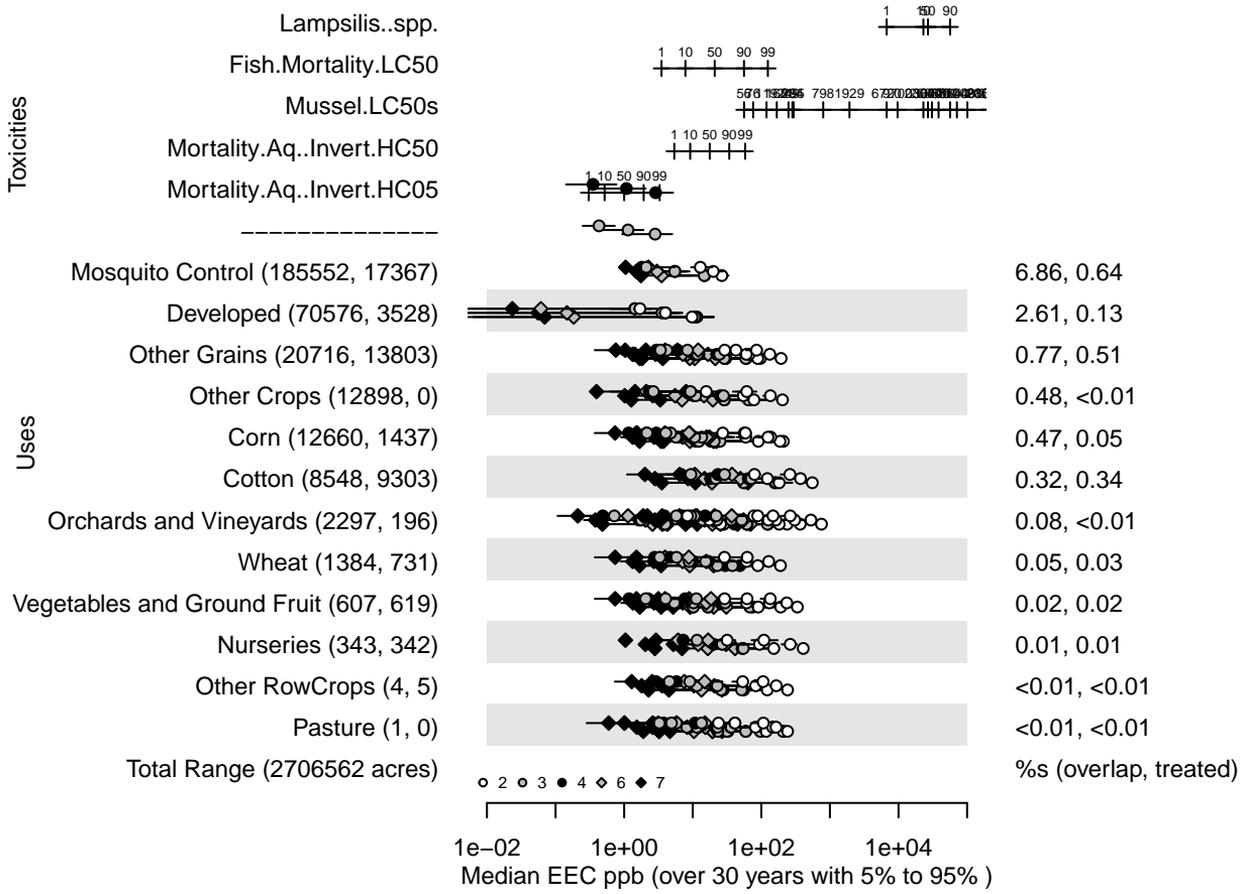
Toxicities



Uses



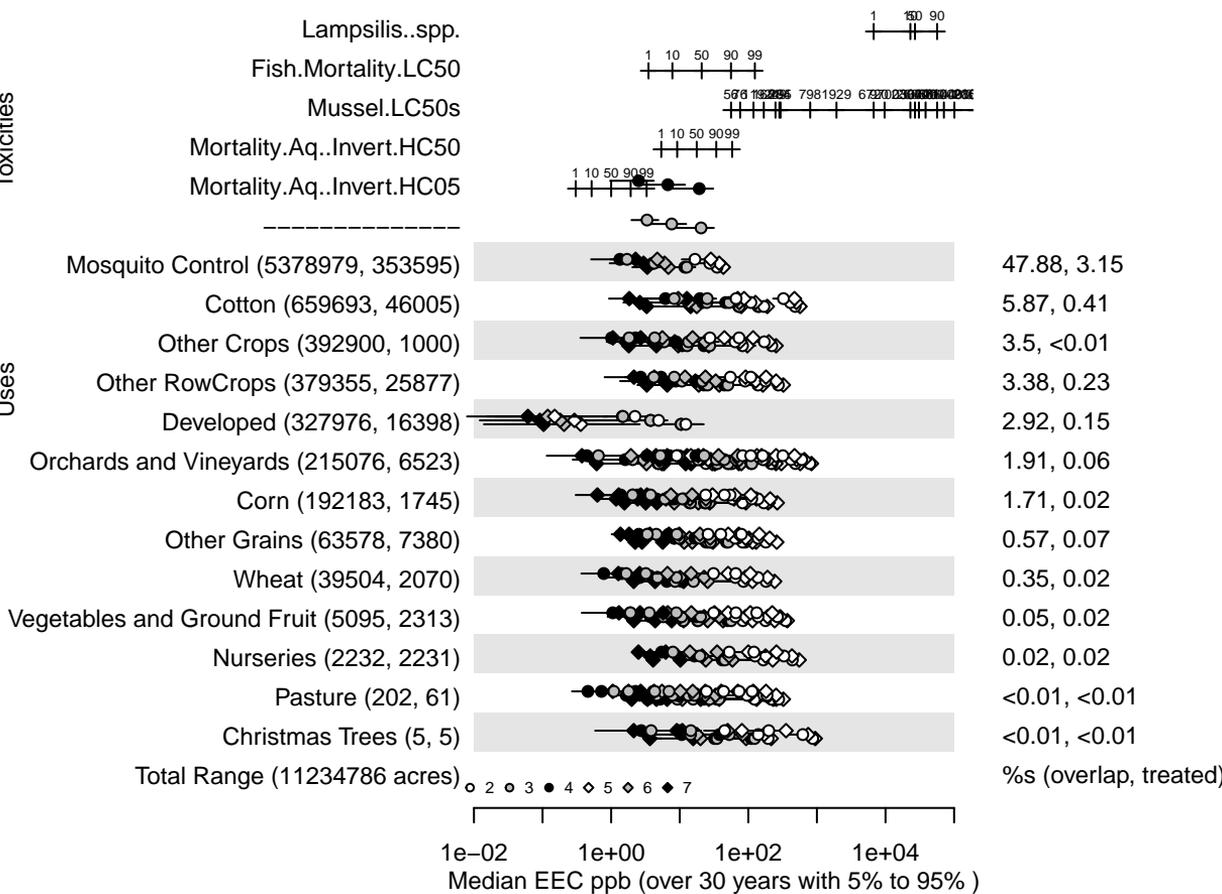
malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:1,2,3, bin:2,3,4,6,7  
 Dwarf wedgemussel (363) Range



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:8,11a, bin:2,3,4,6,7  
 Louisiana pearlshell (364) Range

Toxicities

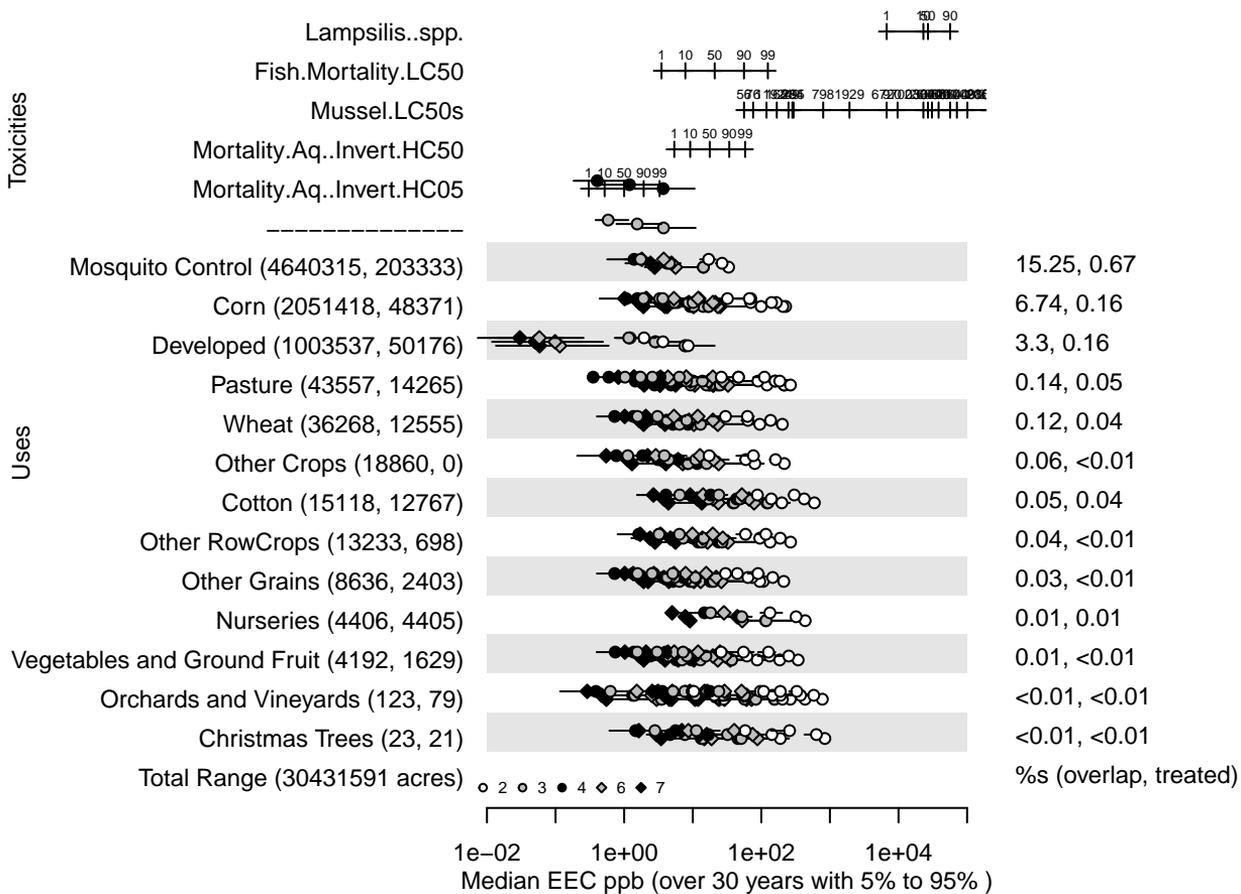
Uses



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3, bin:2,3,4,5,6,7  
 Purple bankclimber (mussel) (366) Range

Toxicities

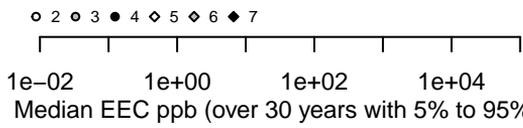
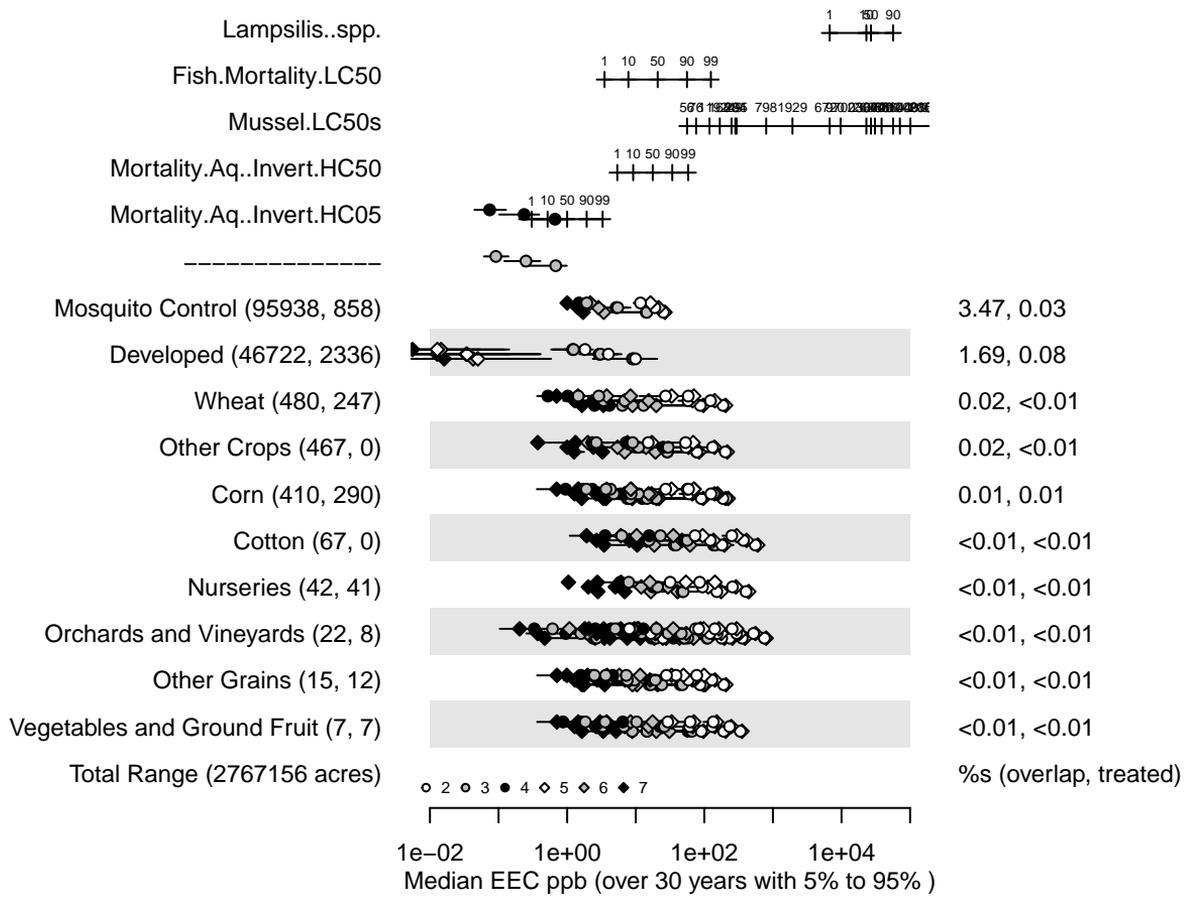
Uses



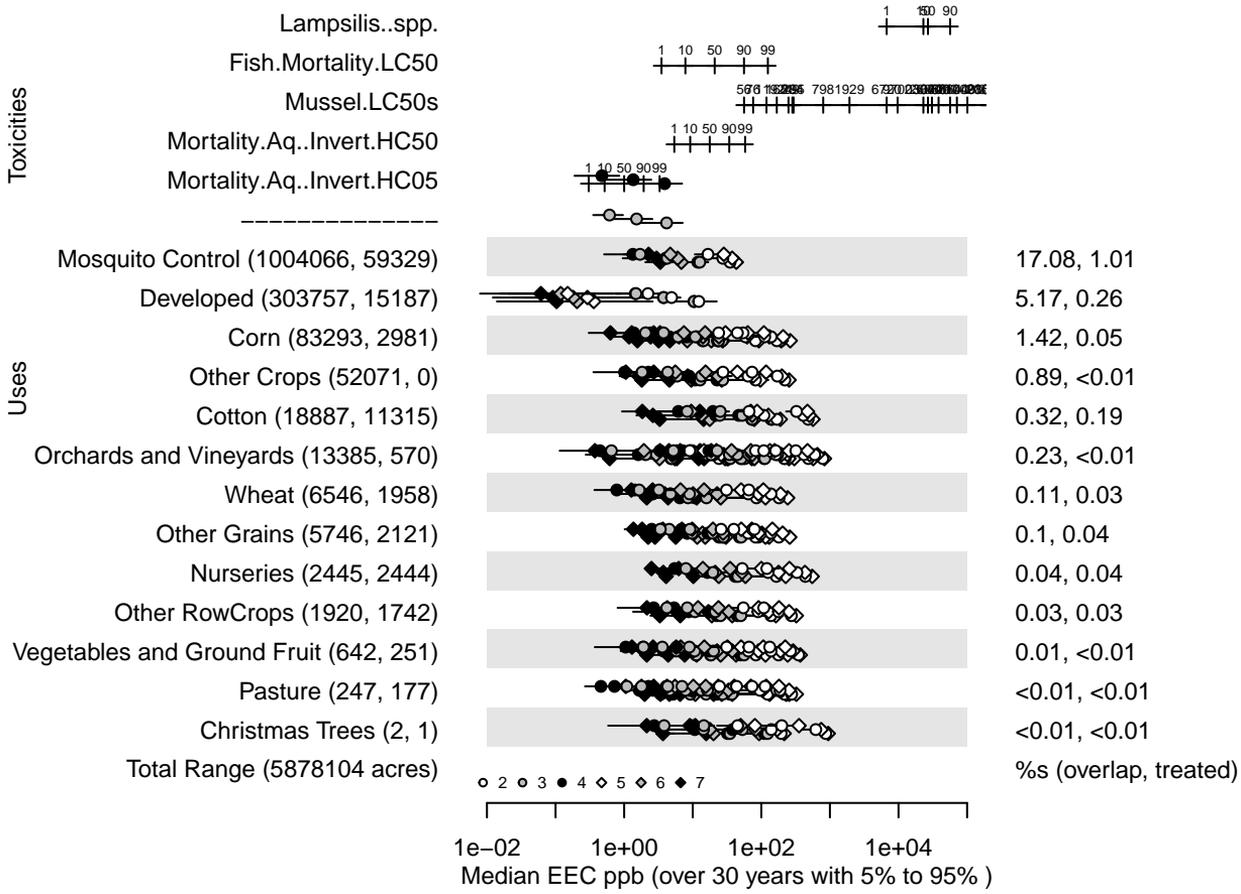
malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:5, bin:2,3,4,6,7  
 Fanshell (368) Range

Toxicities

Uses



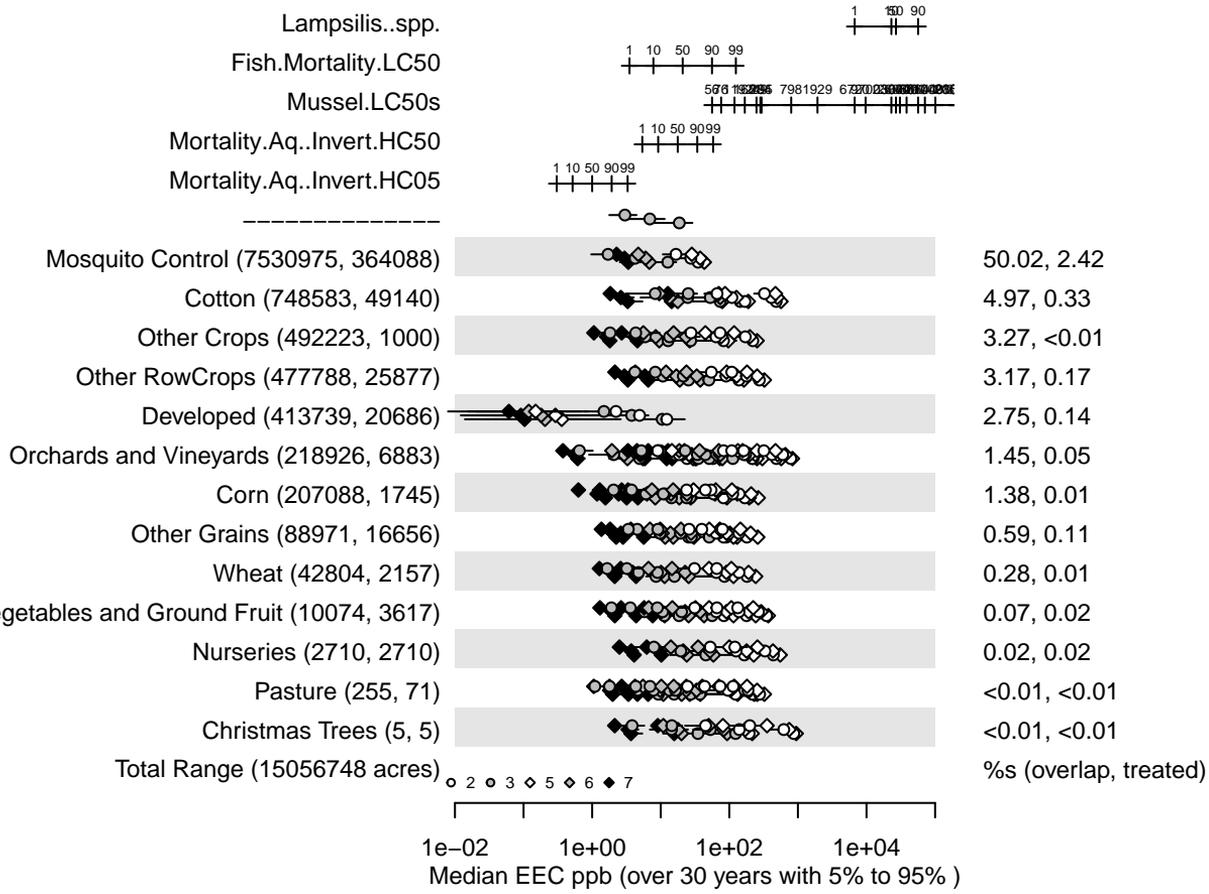
malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:8,11a, bin:2,3,4,5,6,7  
 Arkansas fatmucket (369) Range



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3, bin:2,3,4,5,6,7  
 Carolina heelsplitter (370) Range

Toxicities

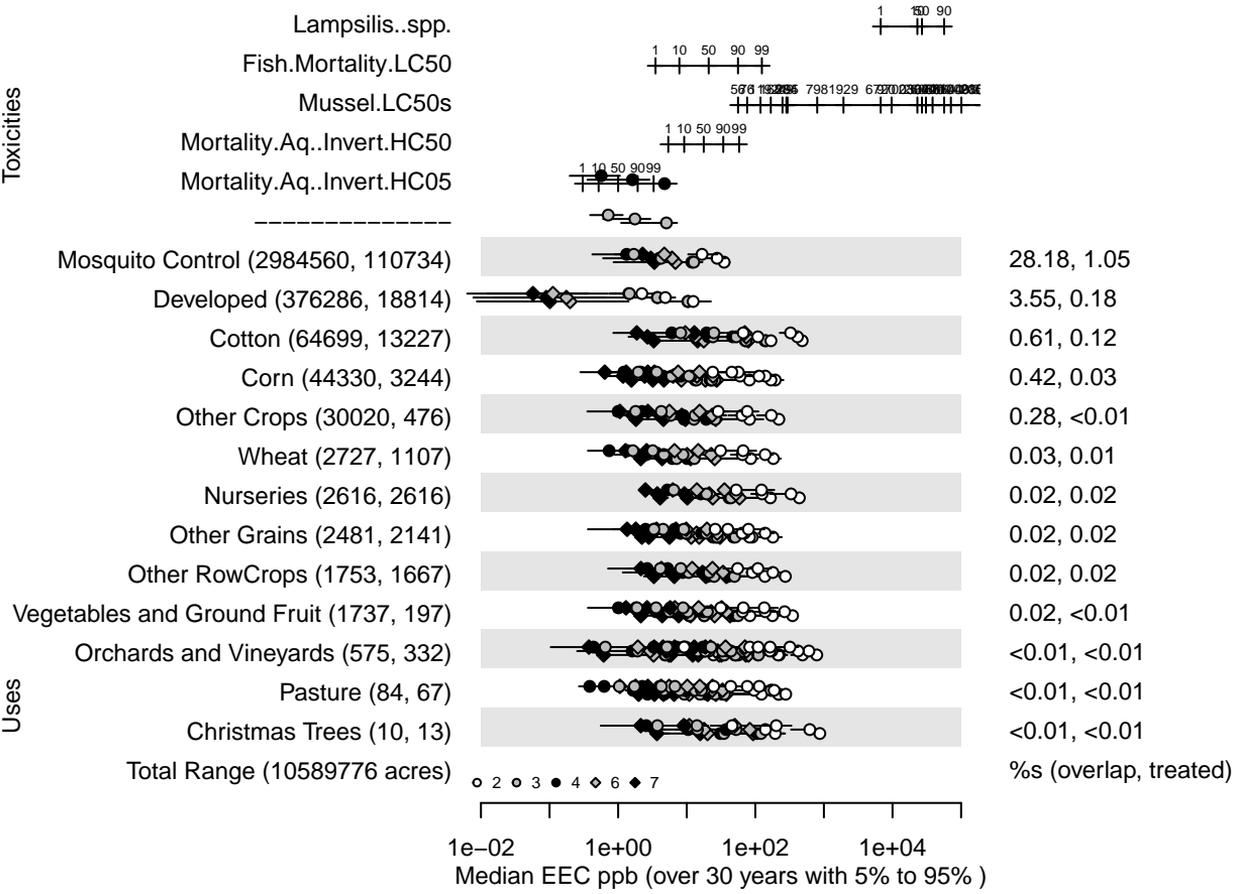
Uses



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3, bin:2,3,5,6,7  
 Oval pigtoe (371) Range

Toxicities

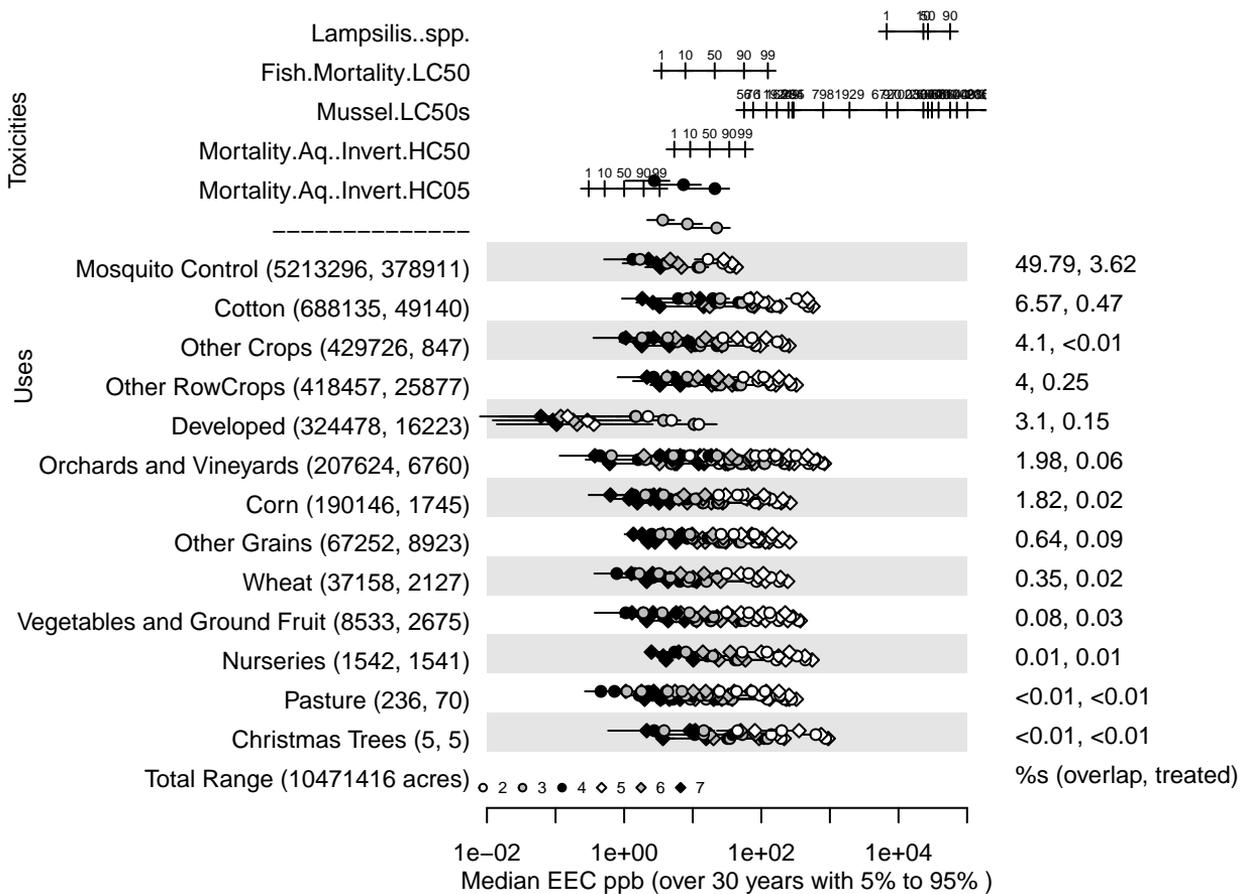
Uses



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3,6, bin:2,3,4,6,7  
 Finelined pocketbook (372) Range

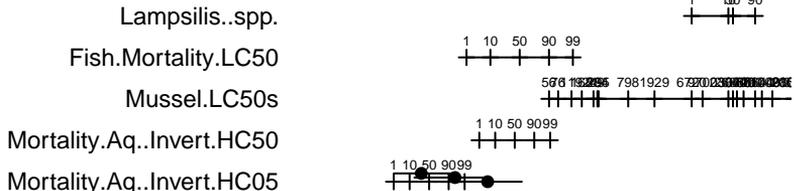
Toxicities

Uses

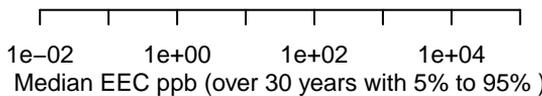
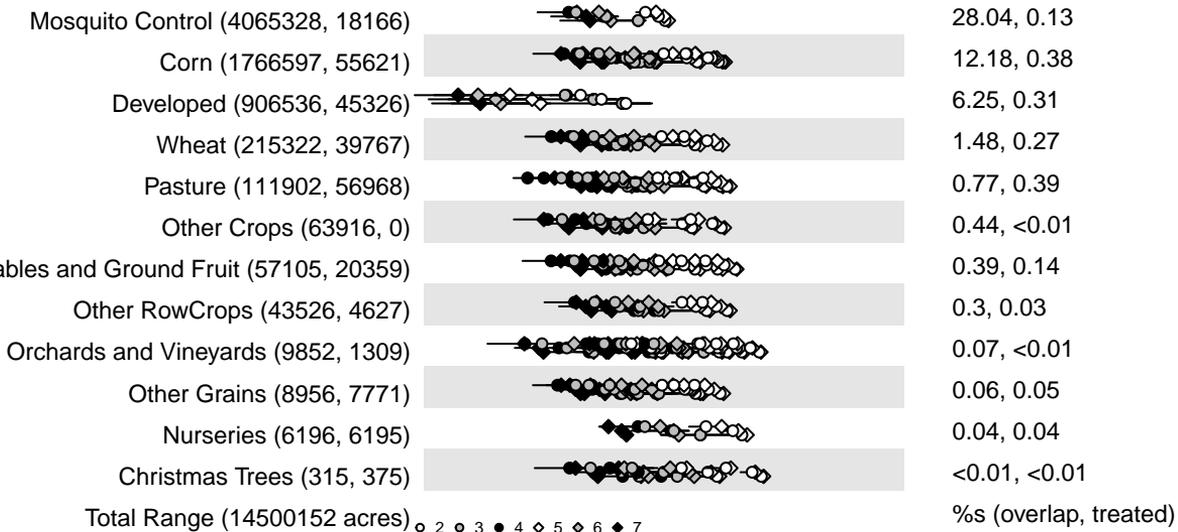


malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3, bin:2,3,4,5,6,7  
 Shinyrayed pocketbook (373) Range

Toxicities



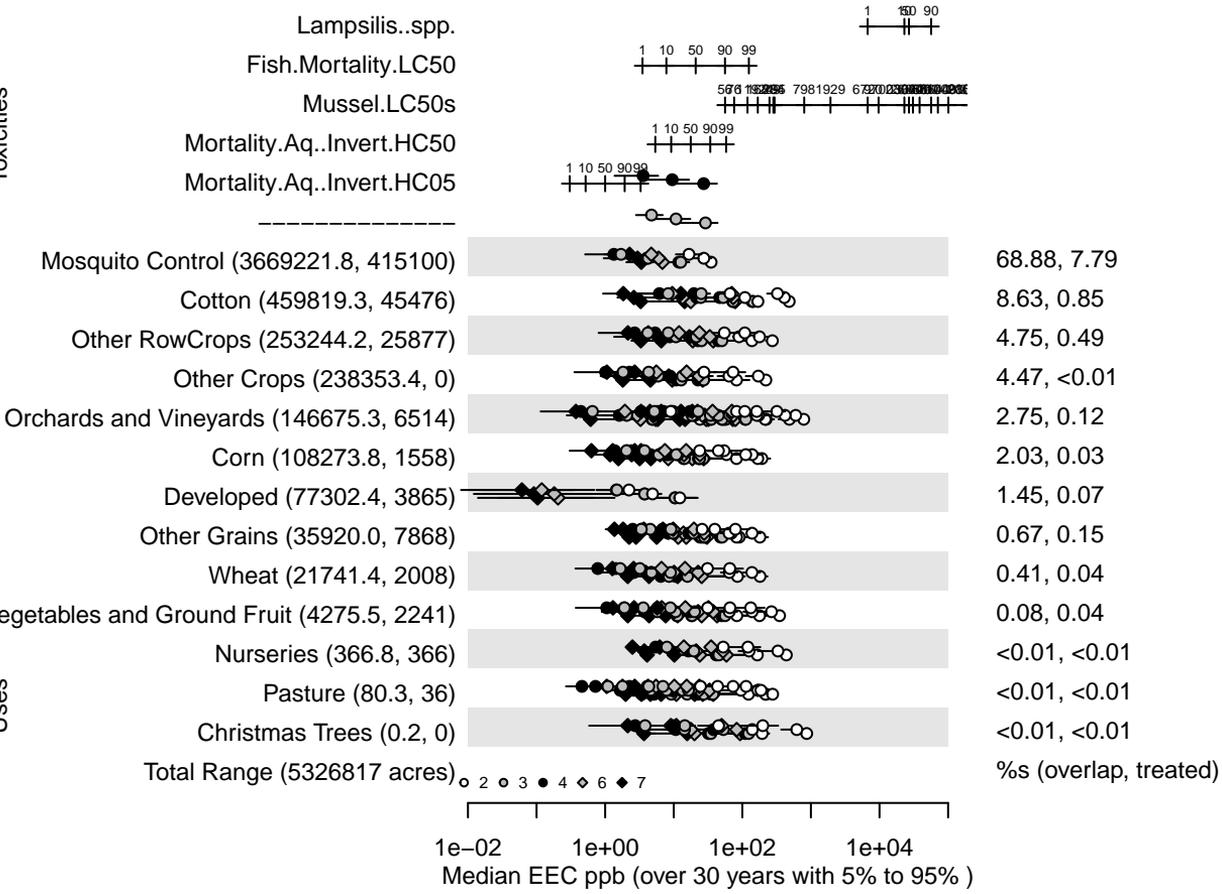
Uses



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:4,5,7, bin:2,3,4,5,6,7  
 Northern riffleshell (374) Range

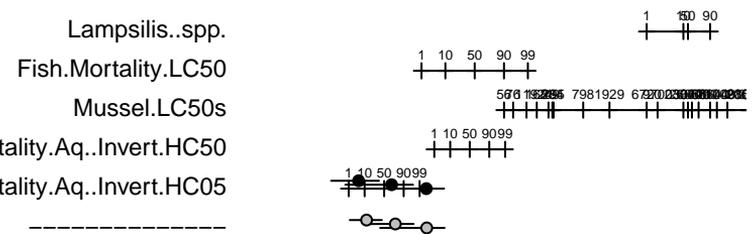
Toxicities

Uses

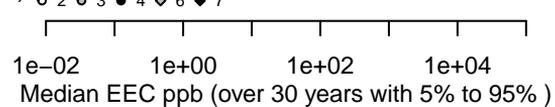
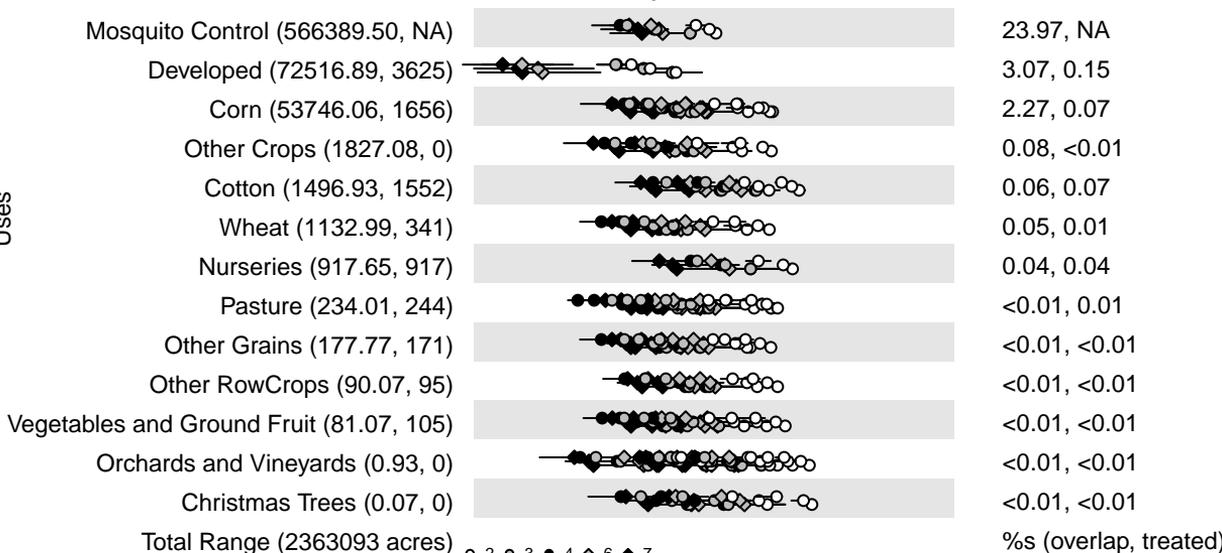


malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3, bin:2,3,4,6,7  
 Fat threeridge (mussel) (375) Range

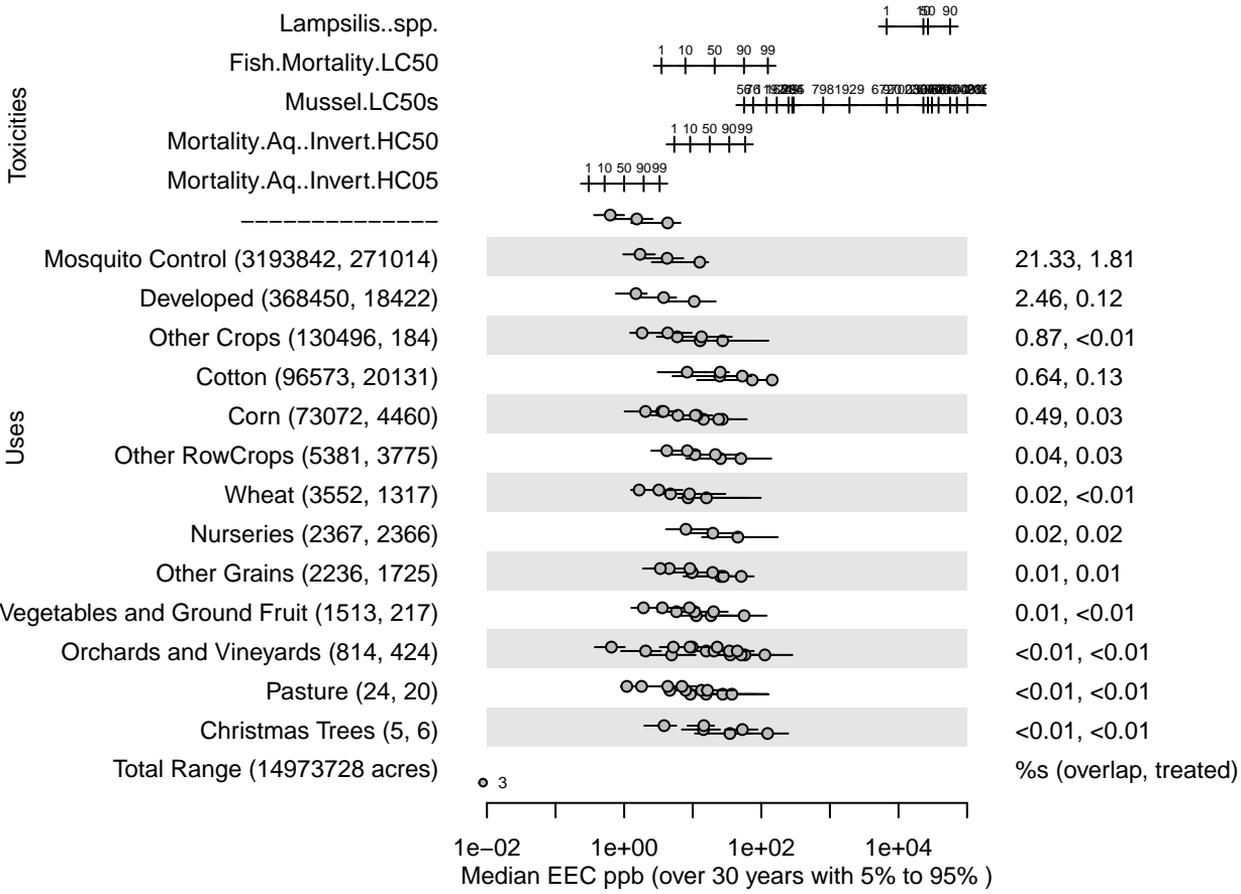
Toxicities



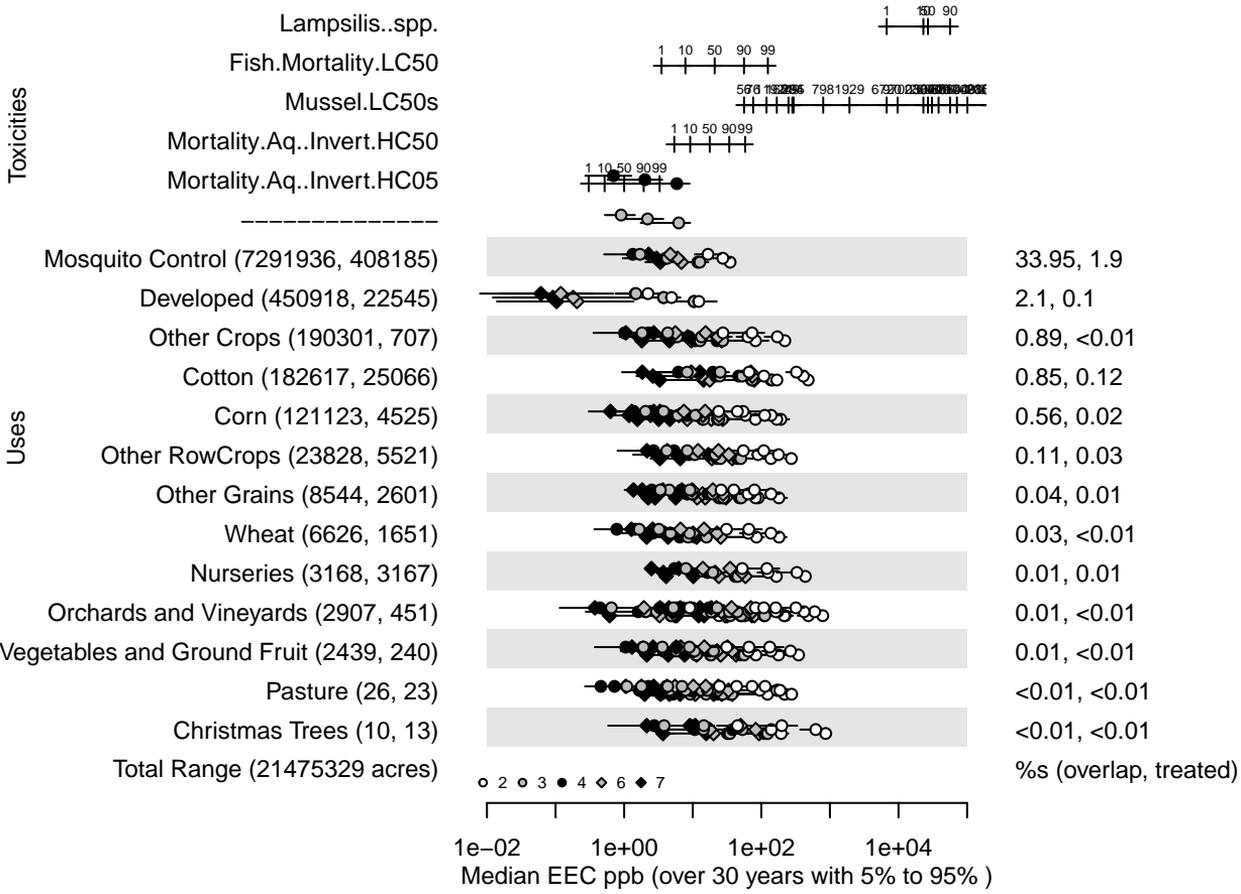
Uses



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:5,6, bin:2,3,4,6,7  
 Cumberland pigtoe (376) Range

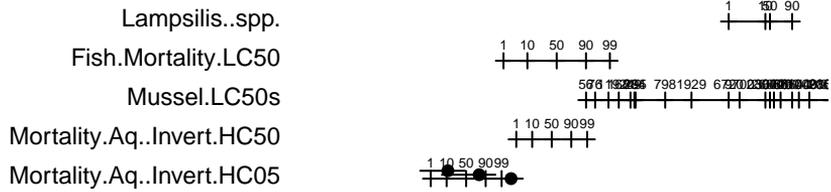


malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3, bin:3  
 Ovate clubshell (377) Range

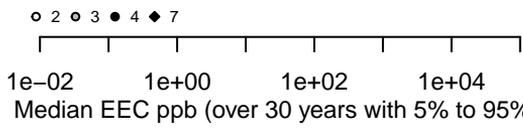
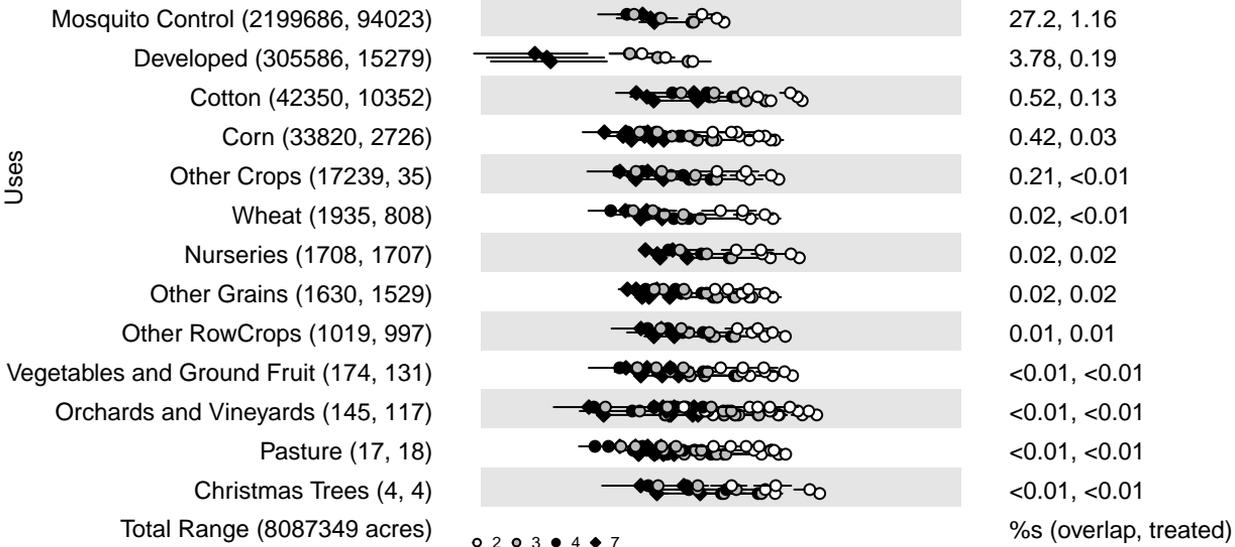


malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3, bin:2,3,4,6,7  
 Southern clubshell (378) Range

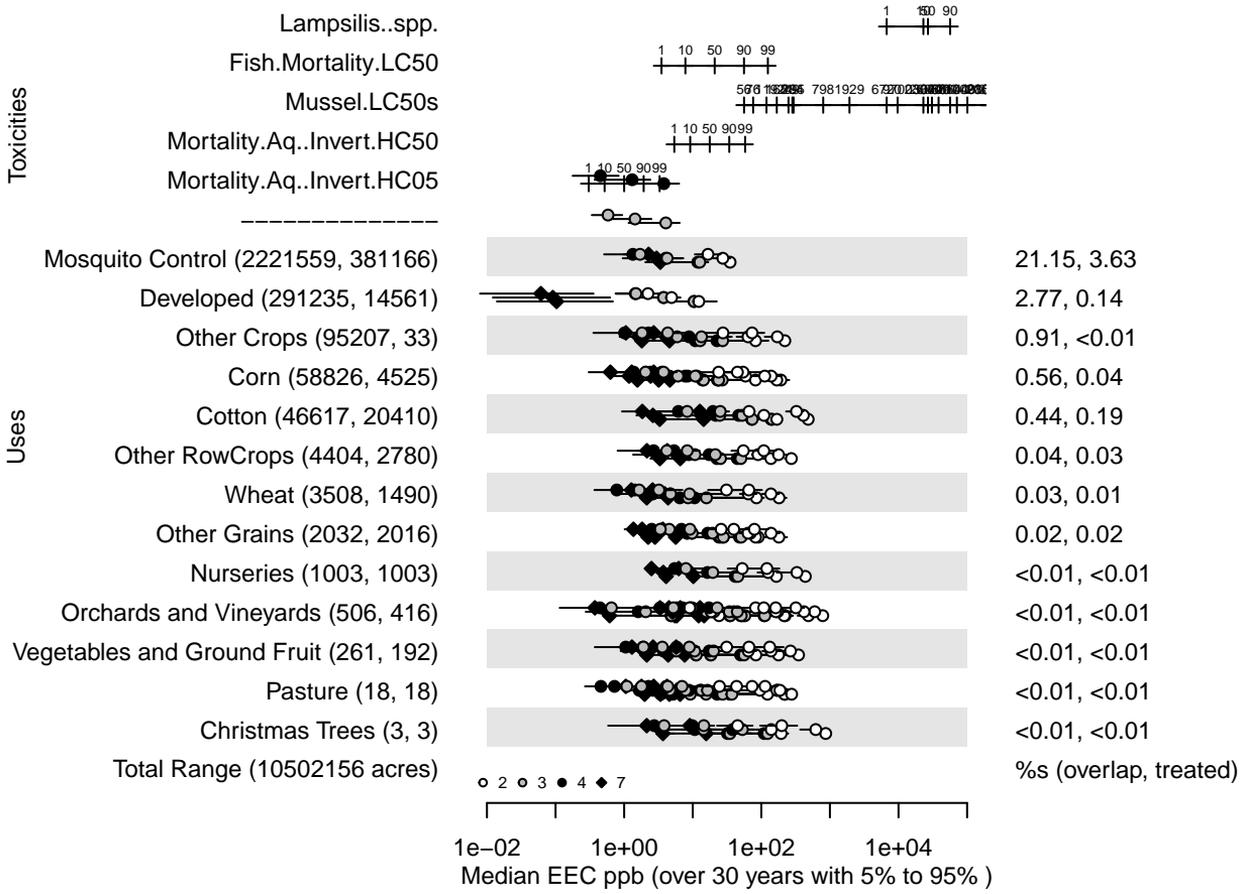
Toxicities



Uses



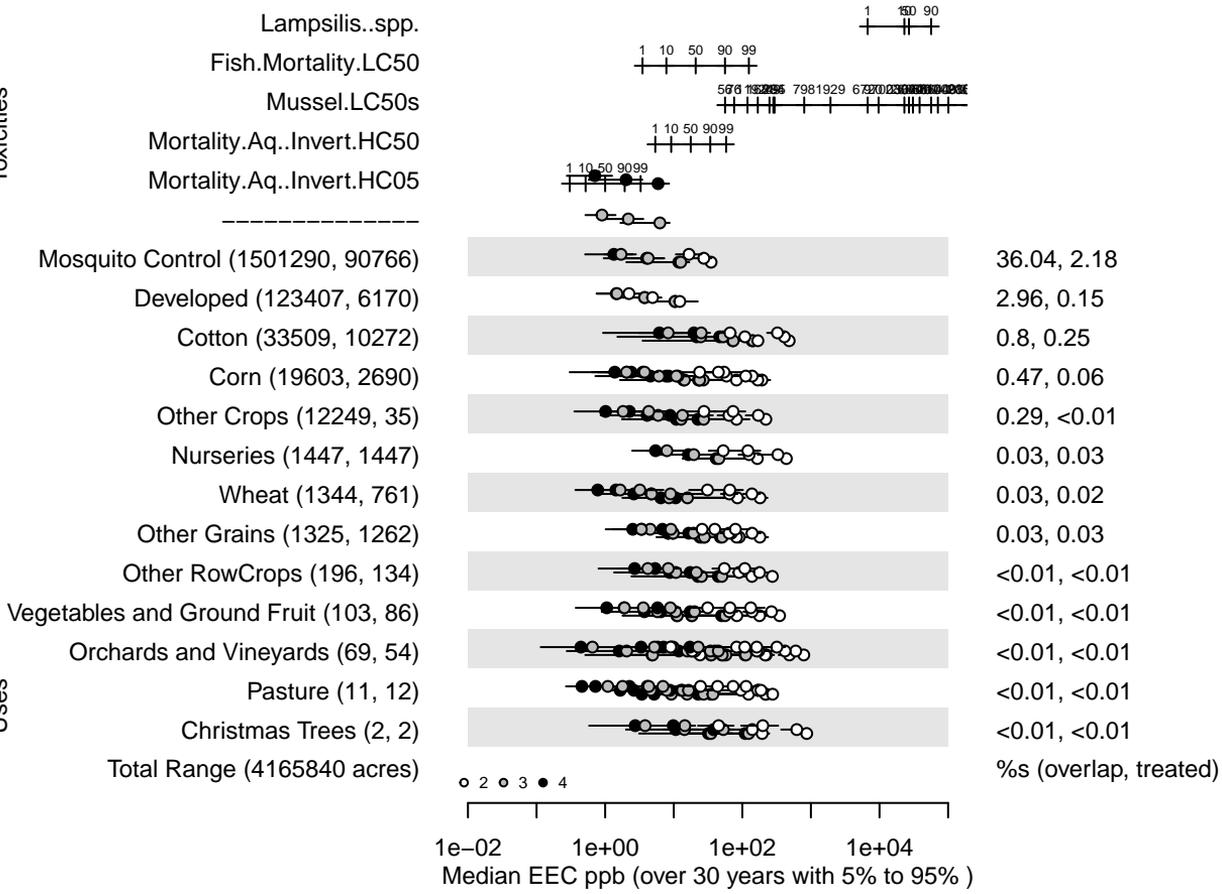
malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3, bin:2,3,4,7  
 Triangular Kidneyshell (379) Range



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3, bin:2,3,4,7  
 Alabama moccasinshell (380) Range

Toxicities

Uses

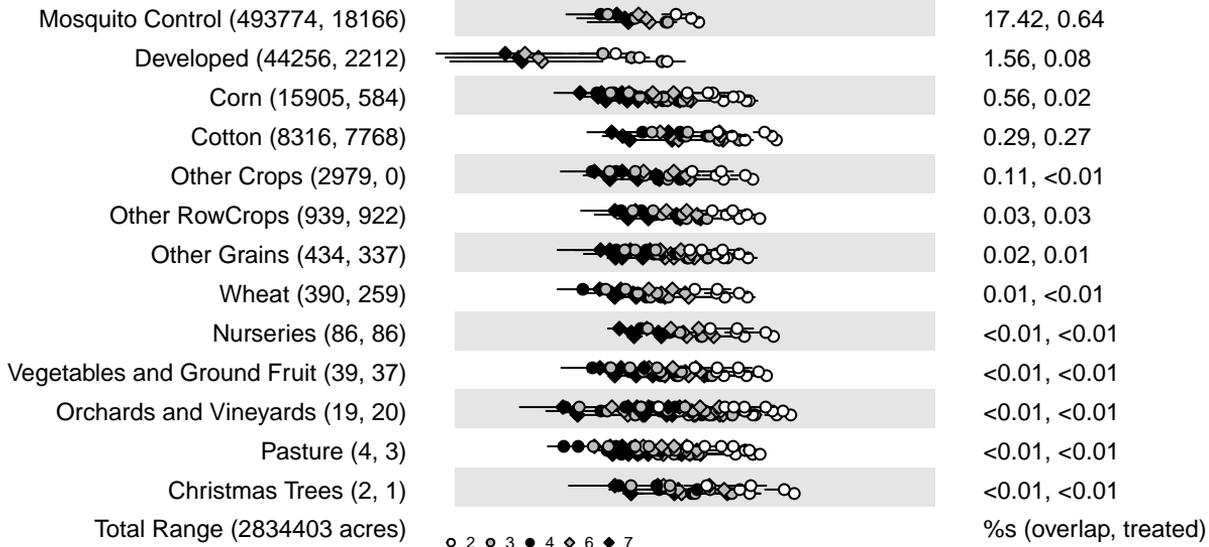
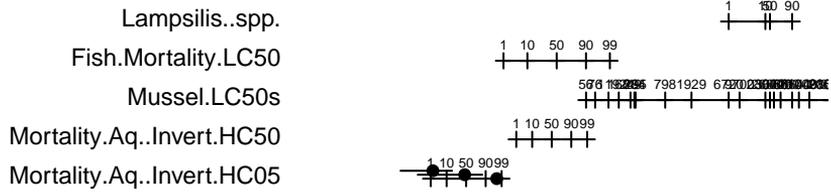


○ 2 ○ 3 ● 4

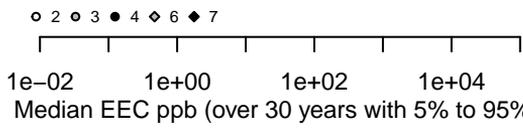
1e-02 1e+00 1e+02 1e+04  
 Median EEC ppb (over 30 years with 5% to 95%)

malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3, bin:2,3,4  
 Coosa moccasinshell (381) Range

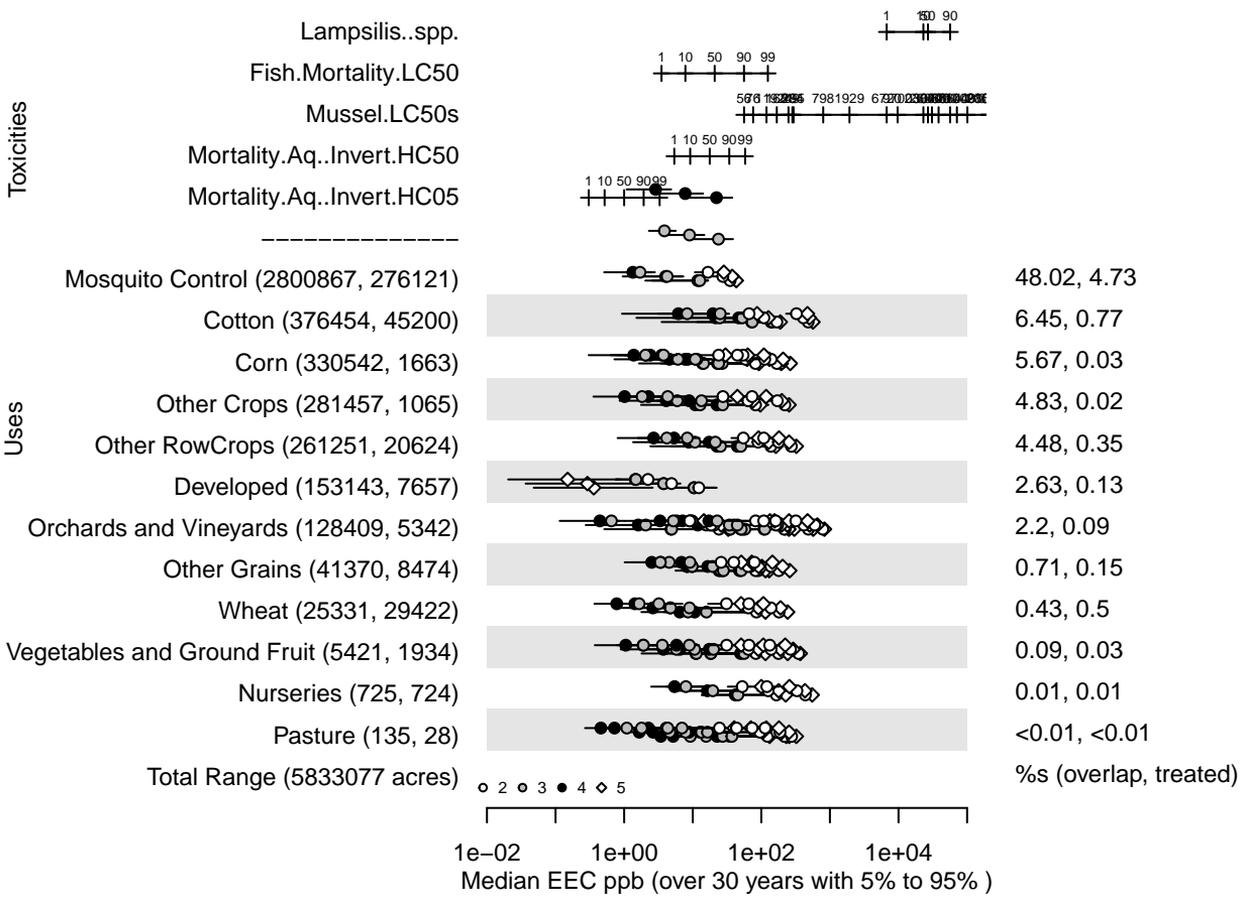
Toxicities



Uses



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3,6, bin:2,3,4,6,7  
 Dark pigtoe (382) Range



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3, bin:2,3,4,5  
 Gulf moccasinshell (384) Range

Toxicities

Lampsilis..spp.

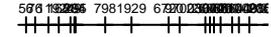
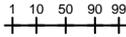
Fish.Mortality.LC50

Mussel.LC50s

Mortality.Aq..Invert.HC50

Mortality.Aq..Invert.HC05

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Mosquito Control (696760, 39366)

Cotton (96607, 33760)

Other Crops (35008, 0)

Other RowCrops (31749, 11988)

Orchards and Vineyards (24605, 5202)

Developed (16925, 846)

Corn (8383, 1157)

Other Grains (6214, 4285)

Wheat (1720, 2081)

Nurseries (707, 707)

Vegetables and Ground Fruit (504, 504)

Pasture (3, 3)

Total Range (1031377 acres)

67.56, 3.82

9.37, 3.27

3.39, <0.01

3.08, 1.16

2.39, 0.5

1.64, 0.08

0.81, 0.11

0.6, 0.42

0.17, 0.2

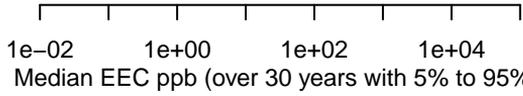
0.07, 0.07

0.05, 0.05

<0.01, <0.01

%s (overlap, treated)

Uses

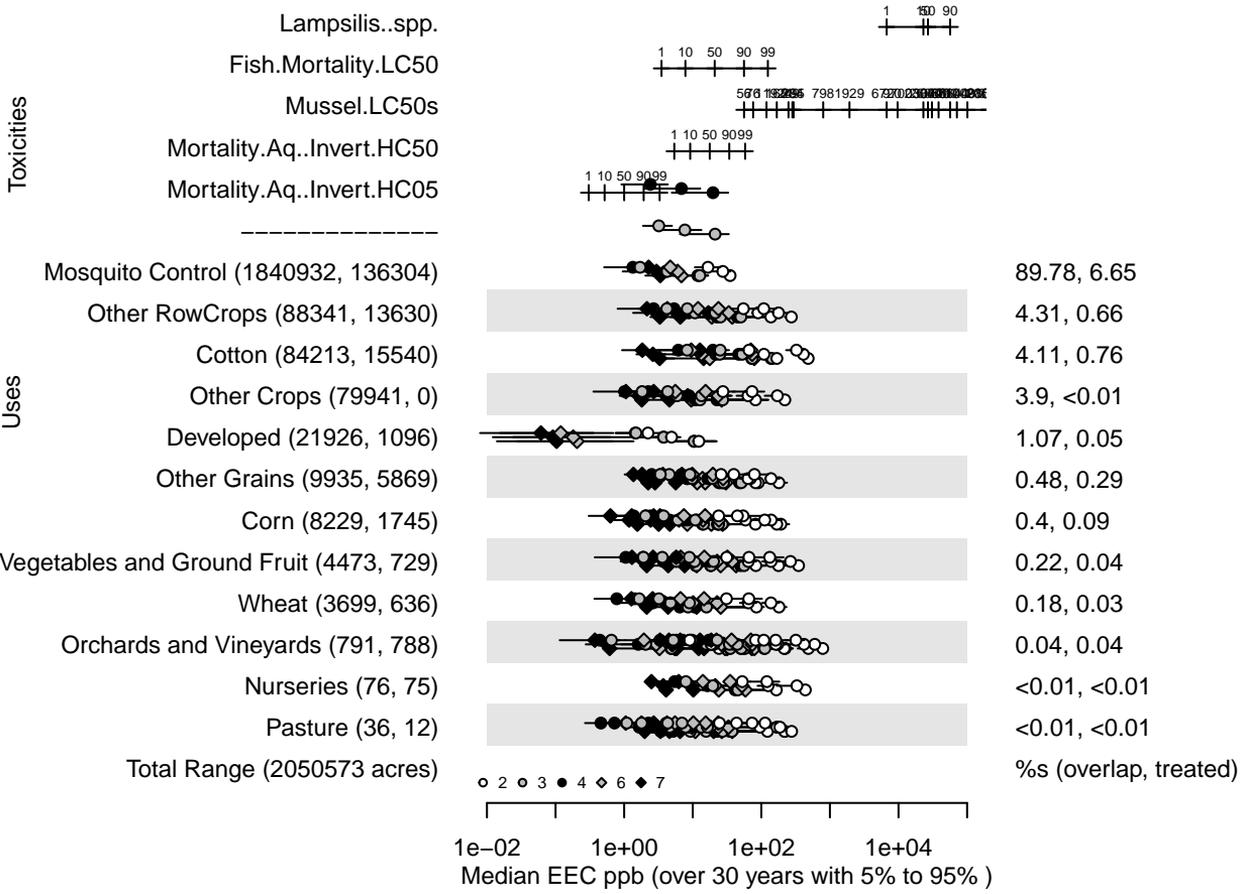


malathion: mal2.mus.tox.txt

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

huc:3, bin:3,4

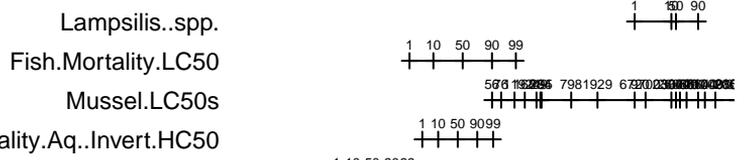
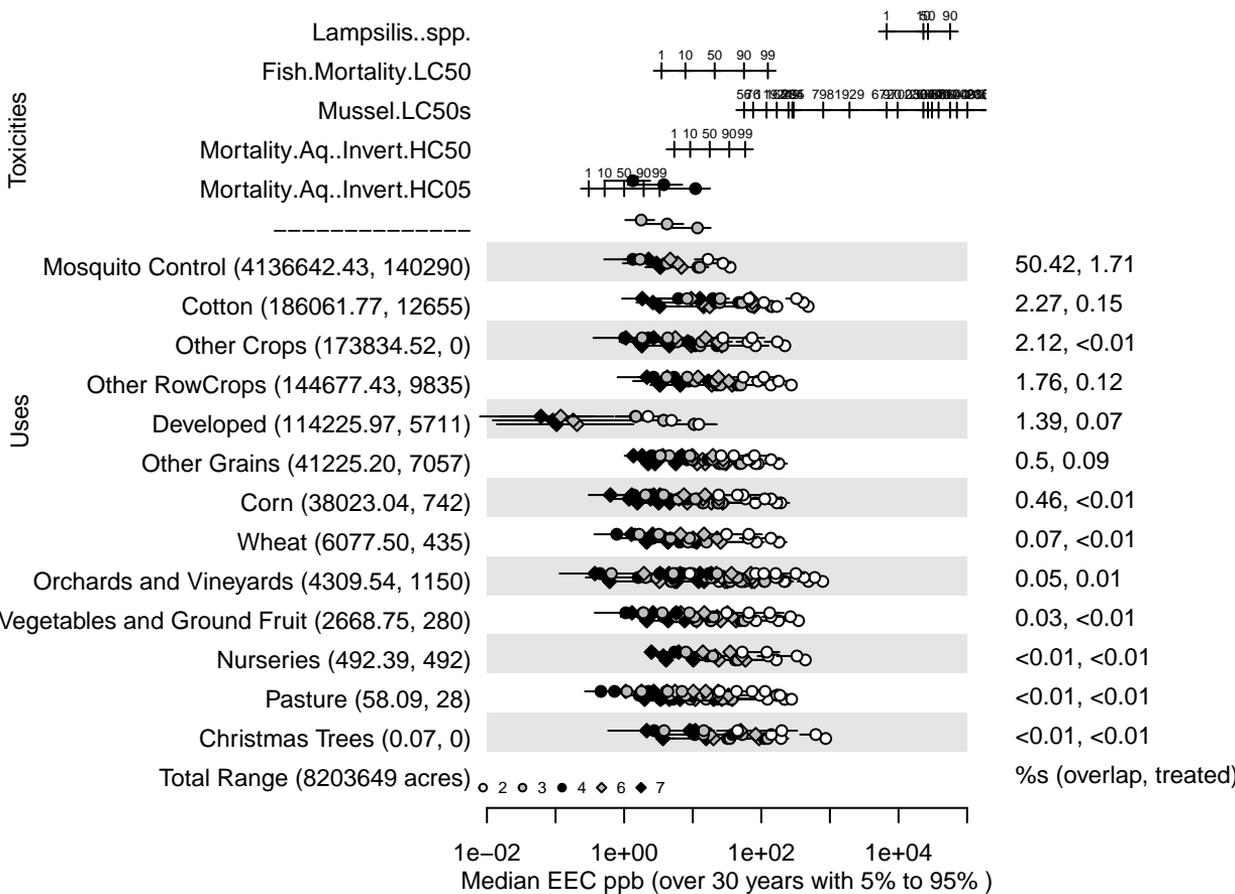
Ochlockonee moccasinshell (385) Range



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3, bin:2,3,4,6,7  
 Chipola slabshell (386) Range

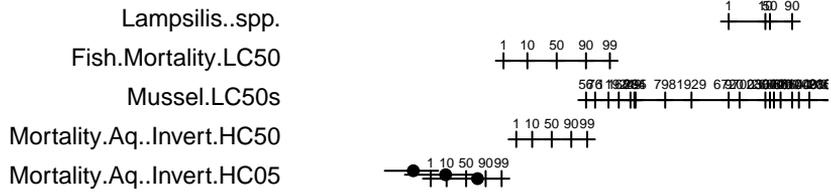
Toxicities

Uses

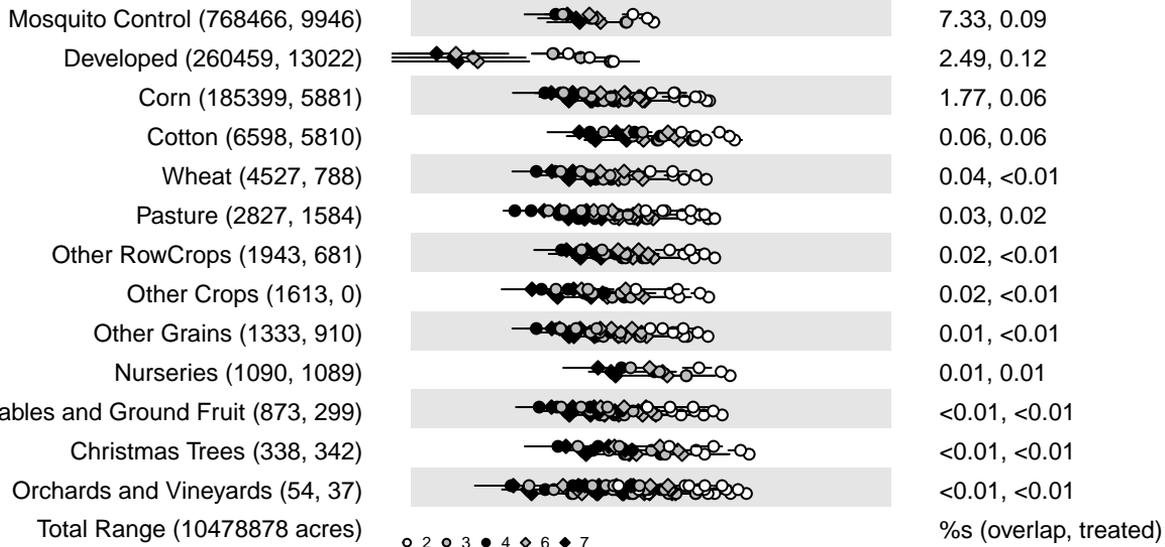


malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3, bin:2,3,4,6,7  
 Fuzzy pigtoe (1369) Range

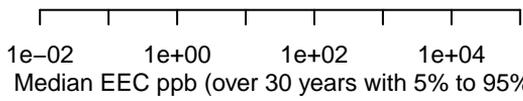
Toxicities



Uses



○ 2 ○ 3 ● 4 ◇ 6 ◆ 7

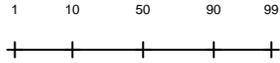


malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:5,6, bin:2,3,4,6,7  
 Fluted kidneyshell (1559) Range

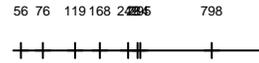
Lampsilis..spp.

>

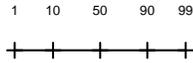
Fish.Mortality.LC50



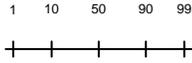
Mussel.LC50s



Mortality.Aq..Invert.HC50



Mortality.Aq..Invert.HC05



Toxicities

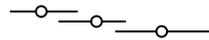
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Mosquito Control (2729162, 64713)



11.39, 0.27

Developed (647177, 32358)



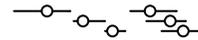
2.7, 0.14

Corn (361567, 4409)



1.51, 0.02

Cotton (201817, 23707)



0.84, 0.1

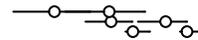
Uses

Other Crops (184199, 741)



0.77, <0.01

Wheat (45171, 45061)



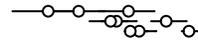
0.19, 0.19

Vegetables and Ground Fruit (31149, 2530)



0.13, 0.01

Other Grains (29630, 5083)



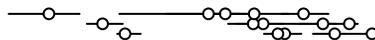
0.12, 0.02

Pasture (13721, 1530)



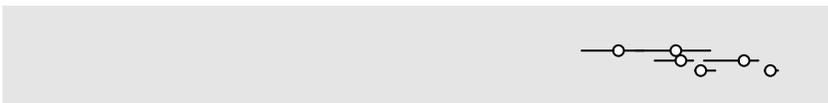
0.06, <0.01

Orchards and Vineyards (9625, 4435)



0.04, 0.02

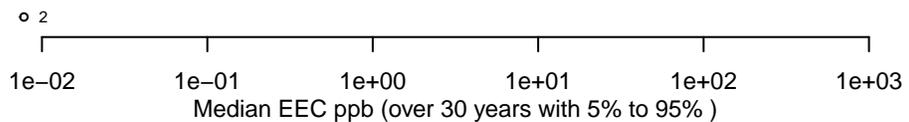
Nurseries (4998, 4997)



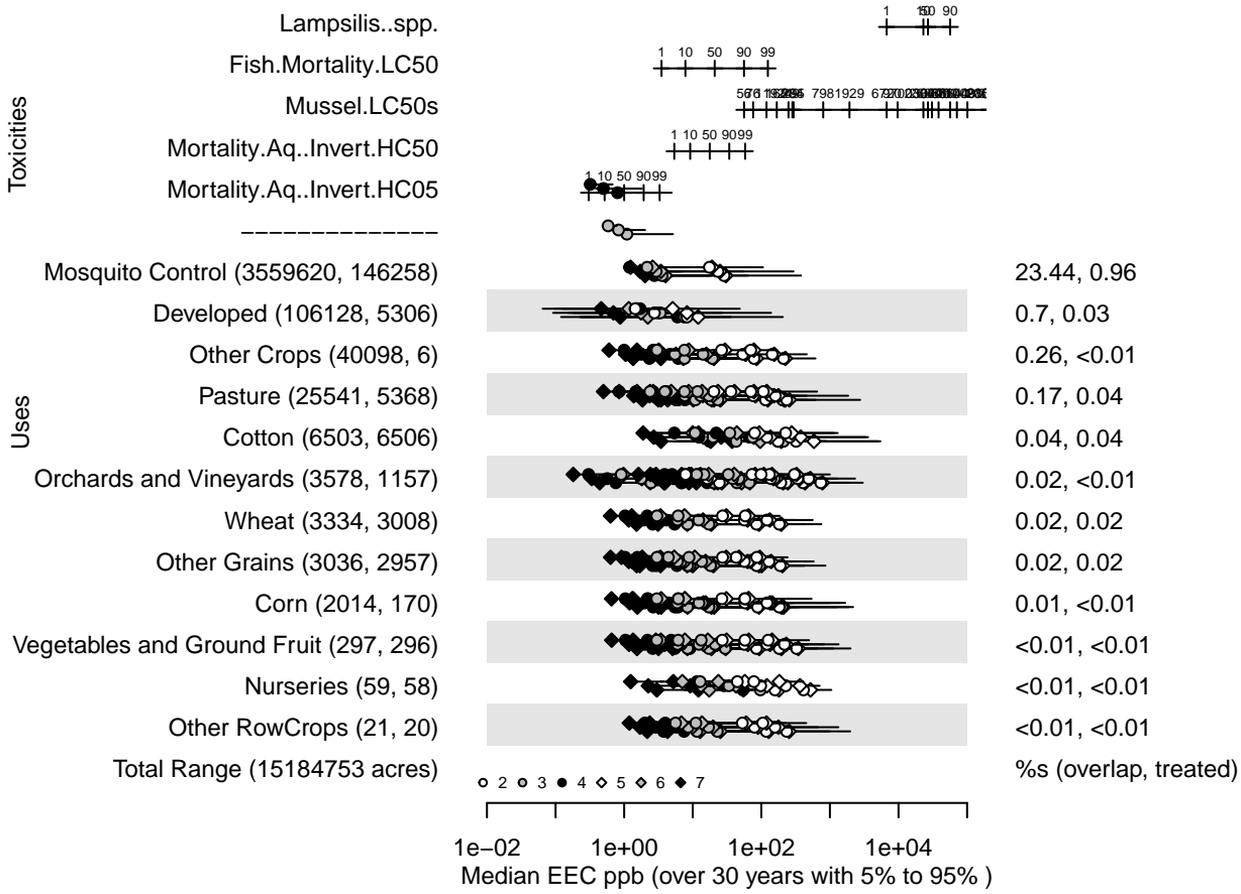
0.02, 0.02

Total Range (23967780 acres)

%s (overlap, treated)



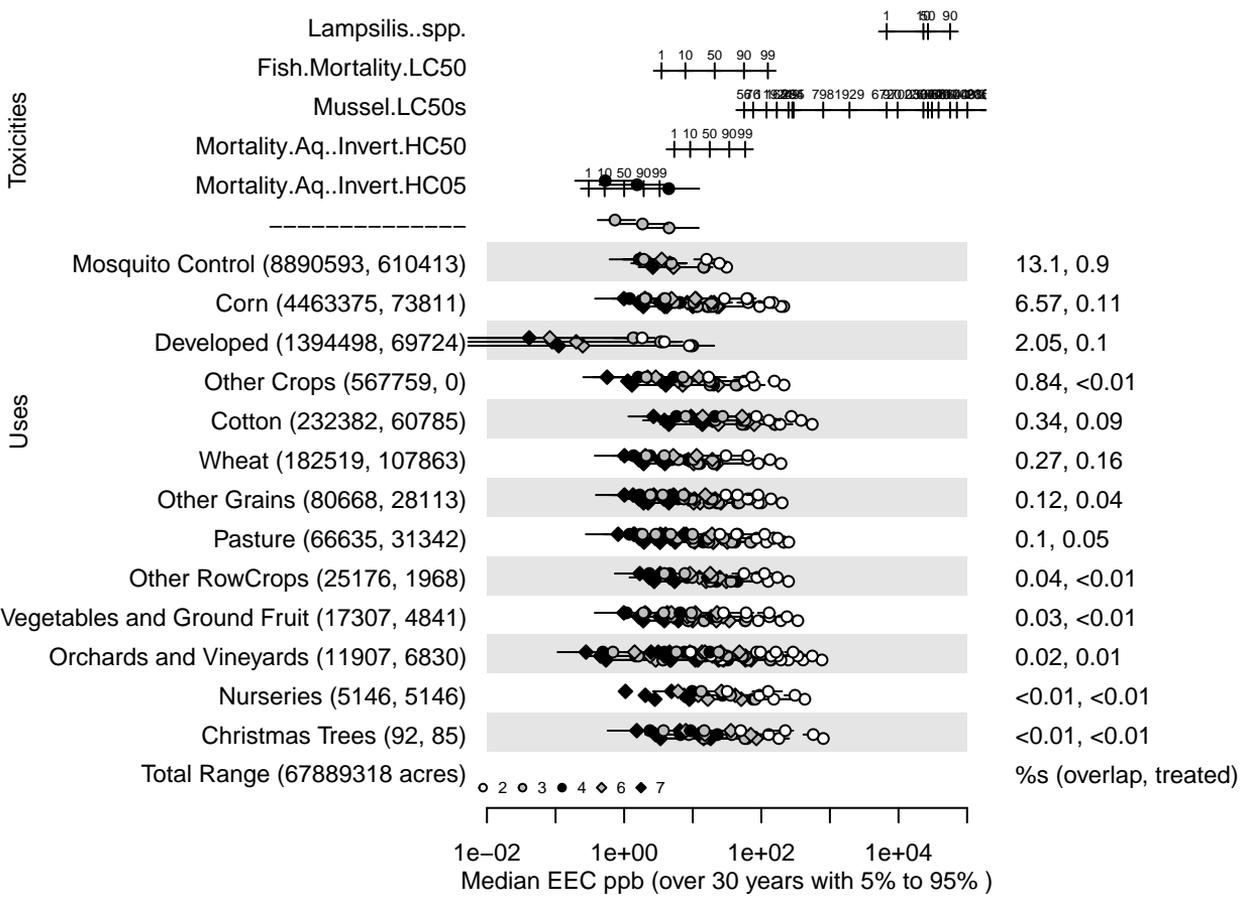
malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:2,3,5,6, bin:2  
 Green floater\_2643



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:12b,13, bin:2,3,4,5,6,7  
 Texas Hornshell (2917) Range

Toxicities

Uses



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:4,5,6,7,8,10a,11a, bin:2,3,4,6,7  
 Rabbitsfoot (3645) Range

Toxicities

Lampsilis..spp.

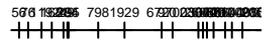
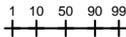
Fish.Mortality.LC50

Mussel.LC50s

Mortality.Aq..Invert.HC50

Mortality.Aq..Invert.HC05

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Uses

Mosquito Control (84993.3, 18166)

Developed (25875.8, 1293)

Orchards and Vineyards (1653.7, 13)

Corn (1570.3, 2697)

Cotton (710.6, 8215)

Wheat (696.1, 801)

Other Crops (111.2, 0)

Nurseries (19.8, 345)

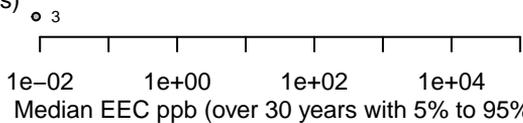
Other Grains (8.5, 702)

Vegetables and Ground Fruit (0.6, 47)

Other RowCrops (0.2, 43)

Total Range (1887086 acres)

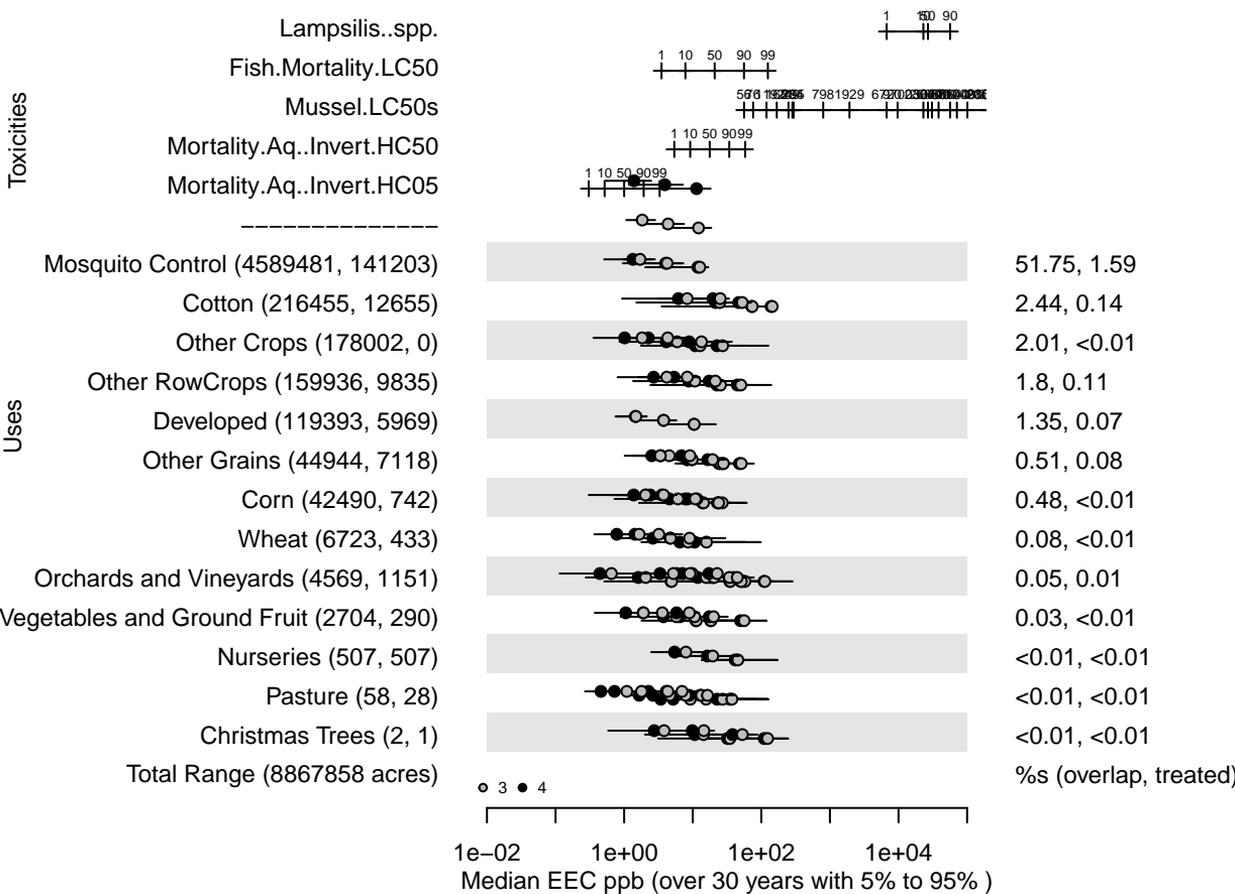
4.5, 0.96  
 1.37, 0.07  
 0.09, <0.01  
 0.08, 0.14  
 0.04, 0.44  
 0.04, 0.04  
 <0.01, <0.01  
 <0.01, 0.02  
 <0.01, 0.04  
 <0.01, <0.01  
 <0.01, <0.01  
 %s (overlap, treated)



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3, bin:3  
 Georgia pigtoe (3833) Range

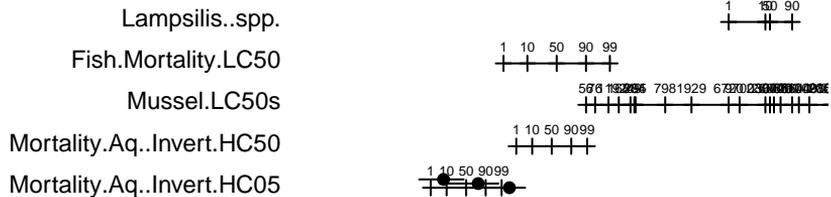
Toxicities

Uses

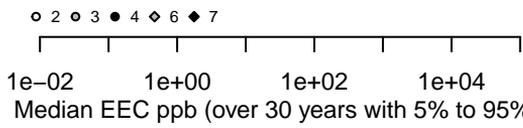
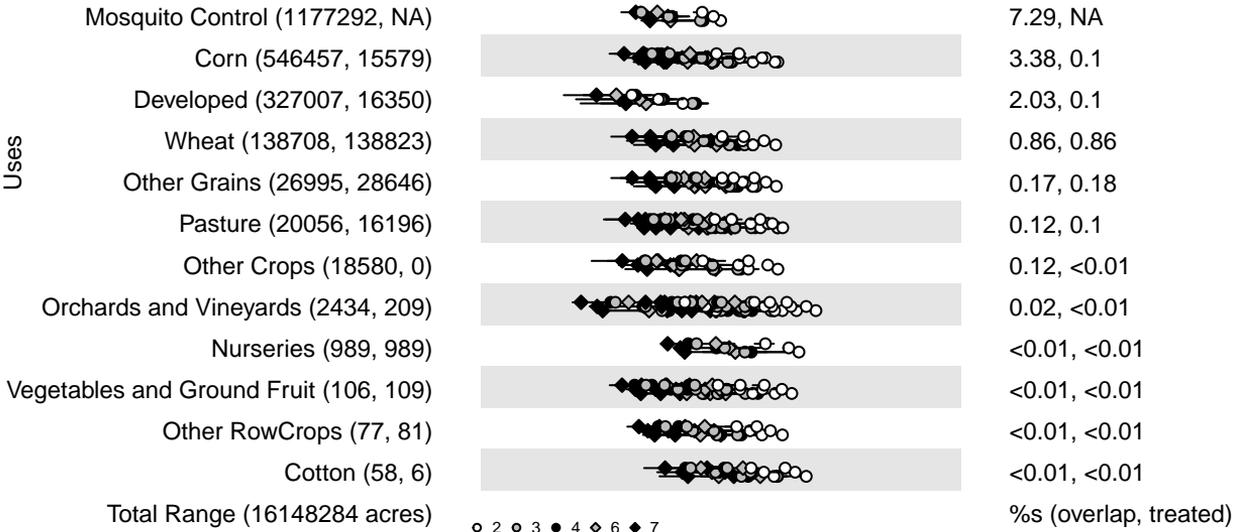


malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3, bin:3,4  
 Choctaw bean (4042) Range

Toxicities

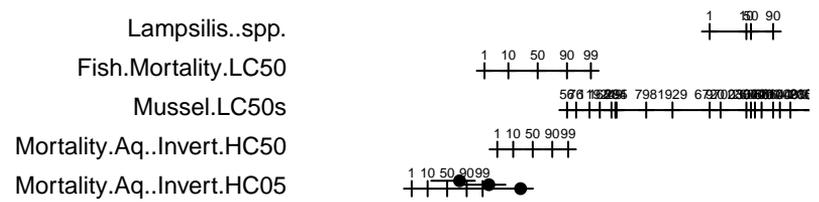


Uses

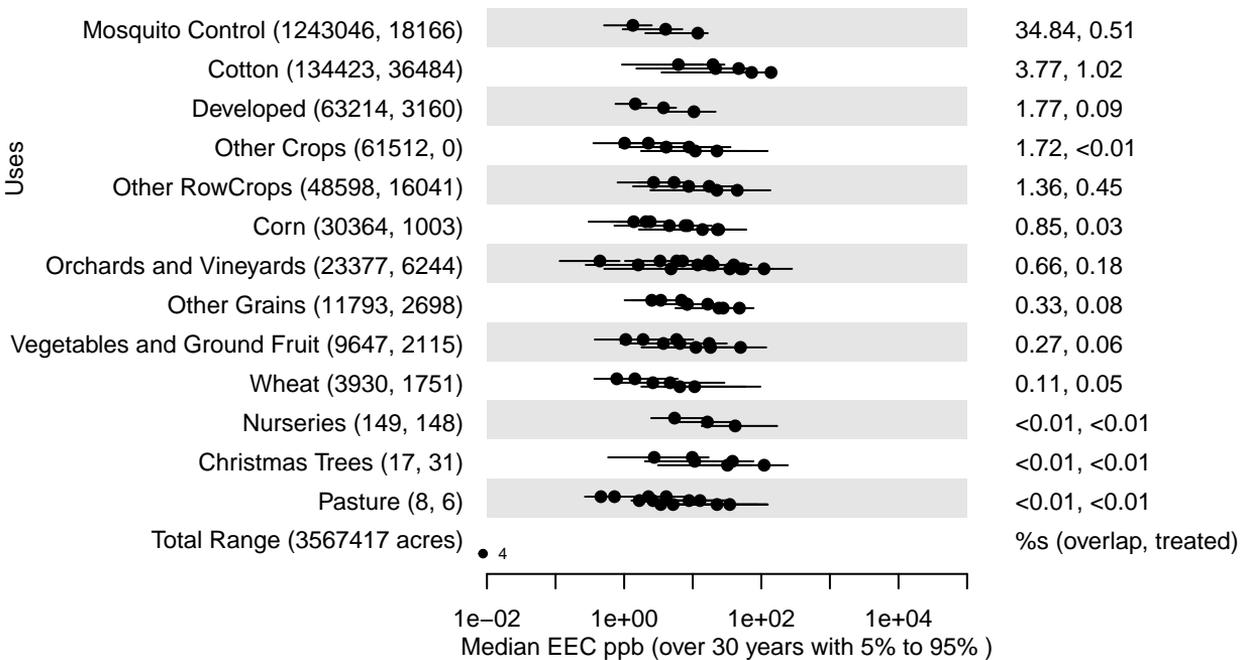


malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:10a,11a, bin:2,3,4,6,7  
 Neosho Mucket (4086) Range

Toxicities

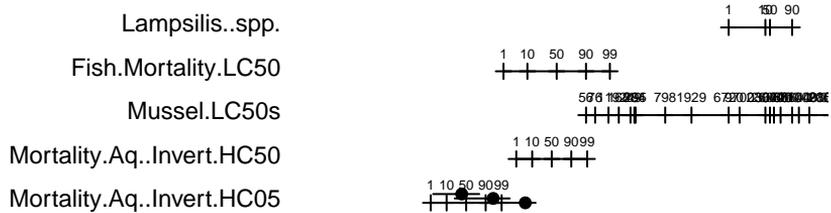


Uses

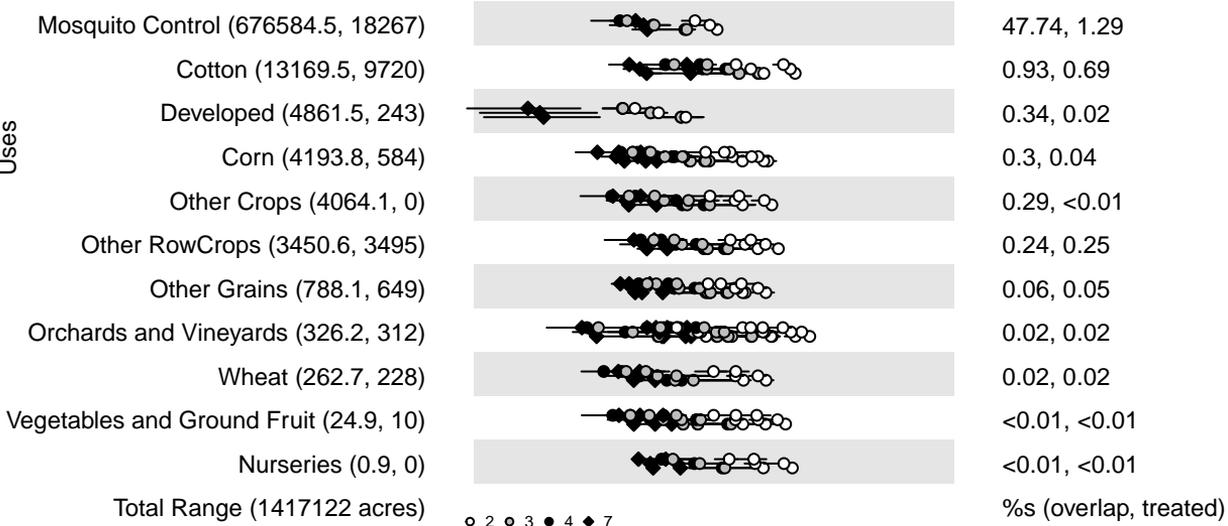


malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3, bin:4  
 Altamaha Spiny mussel (4210) Range

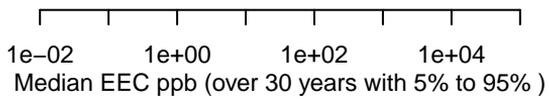
Toxicities



Uses

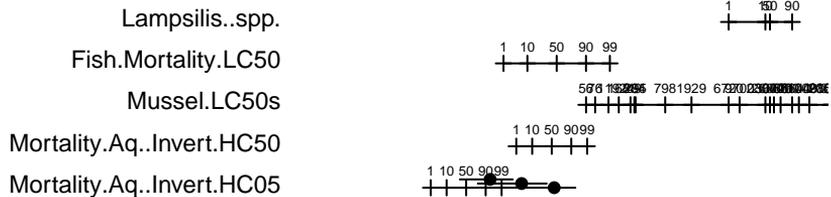


○ 2 ○ 3 ● 4 ◆ 7

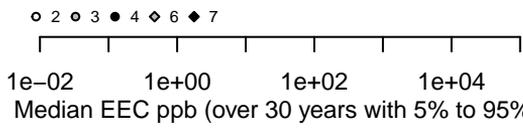
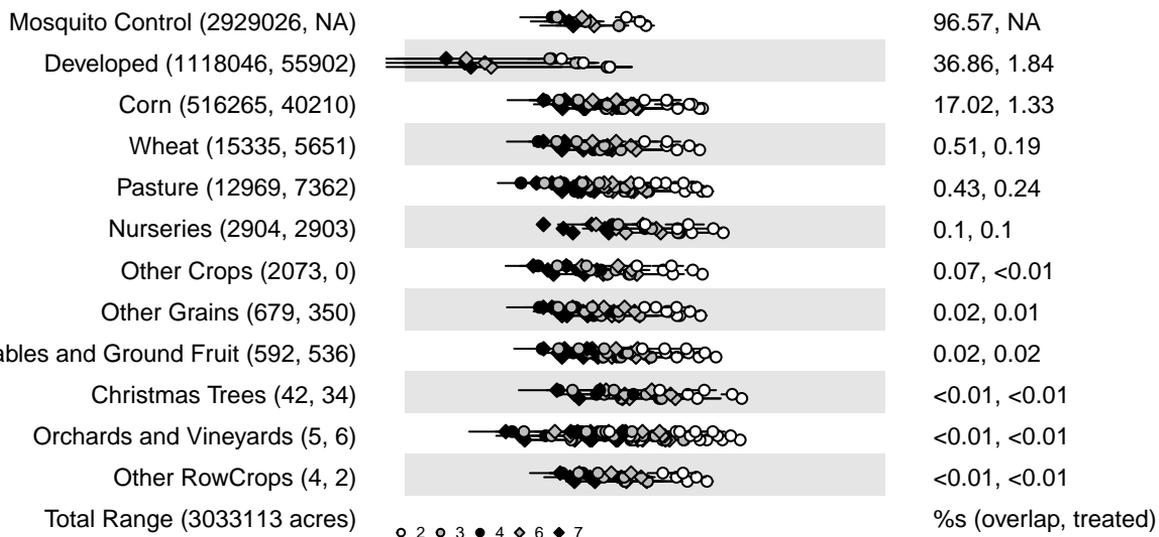


malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3, bin:2,3,4,7  
 Alabama pearlshell (4411) Range

Toxicities

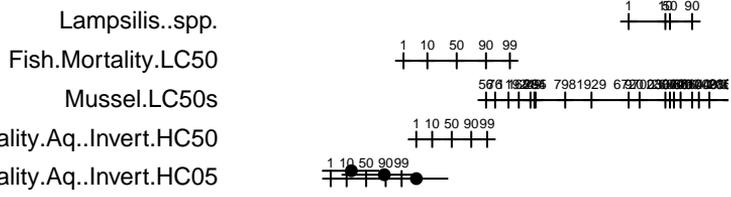


Uses

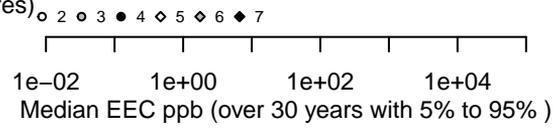
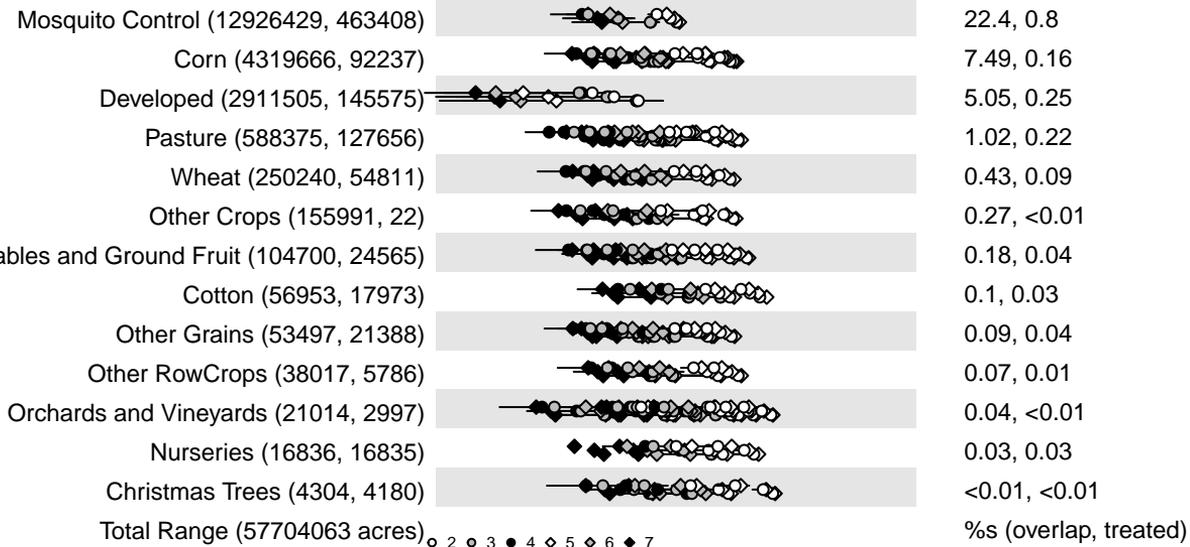


malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:5,6,7,8,10a,11a,14, bin:2,3,4,6,7  
 Spectaclecase (mussel) (4490) Range

Toxicities



Uses

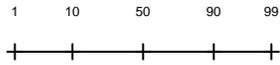


malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:4,5,6,7,8,10a,11a, bin:2,3,4,5,6,7  
 Snuffbox mussel (5281) Range

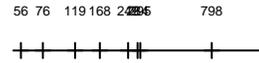
Lampsilis..spp.

>

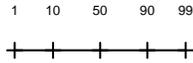
Fish.Mortality.LC50



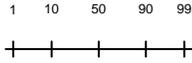
Mussel.LC50s



Mortality.Aq..Invert.HC50



Mortality.Aq..Invert.HC05



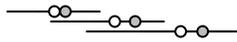
Toxicities

Mosquito Control (4397713, 1374294)



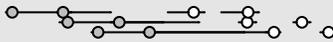
22.66, 7.08

Developed (1097155, 54857)



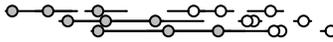
5.65, 0.28

Wheat (139684, 152333)



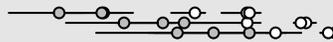
0.72, 0.78

Other Grains (57390, 57390)



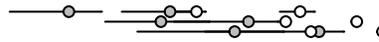
0.3, 0.3

Corn (55298, 4266)



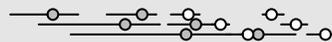
0.28, 0.02

Other Crops (42479, 0)



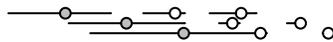
0.22, <0.01

Cotton (30381, 25519)



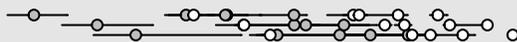
0.16, 0.13

Nurseries (4202, 4202)



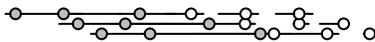
0.02, 0.02

Orchards and Vineyards (1131, 1123)



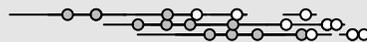
<0.01, <0.01

Vegetables and Ground Fruit (248, 247)



<0.01, <0.01

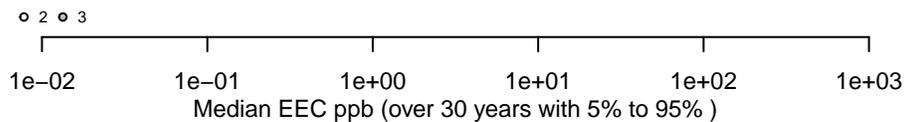
Pasture (189, 188)



<0.01, <0.01

Total Range (19410940 acres)

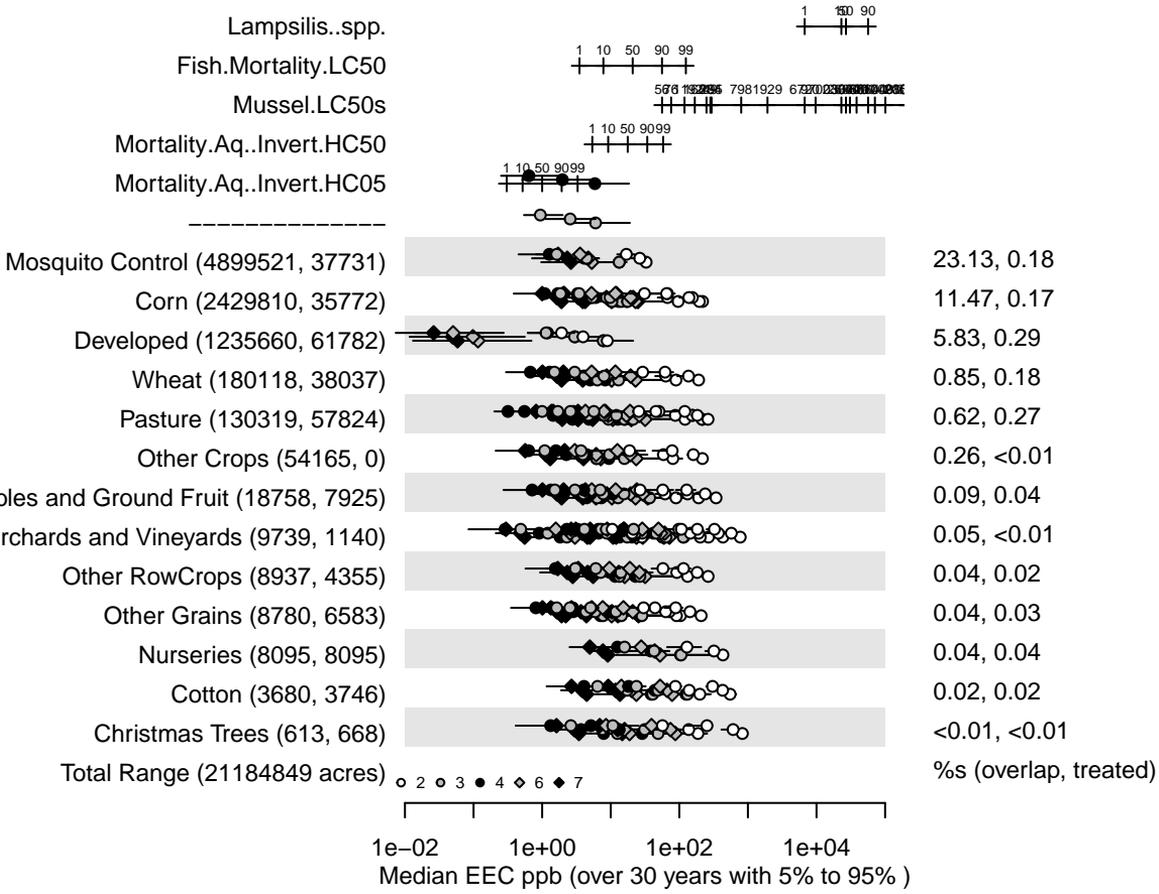
%s (overlap, treated)



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:11a,12a, bin:2,3  
 Texas heelsplitter\_5964

Toxicities

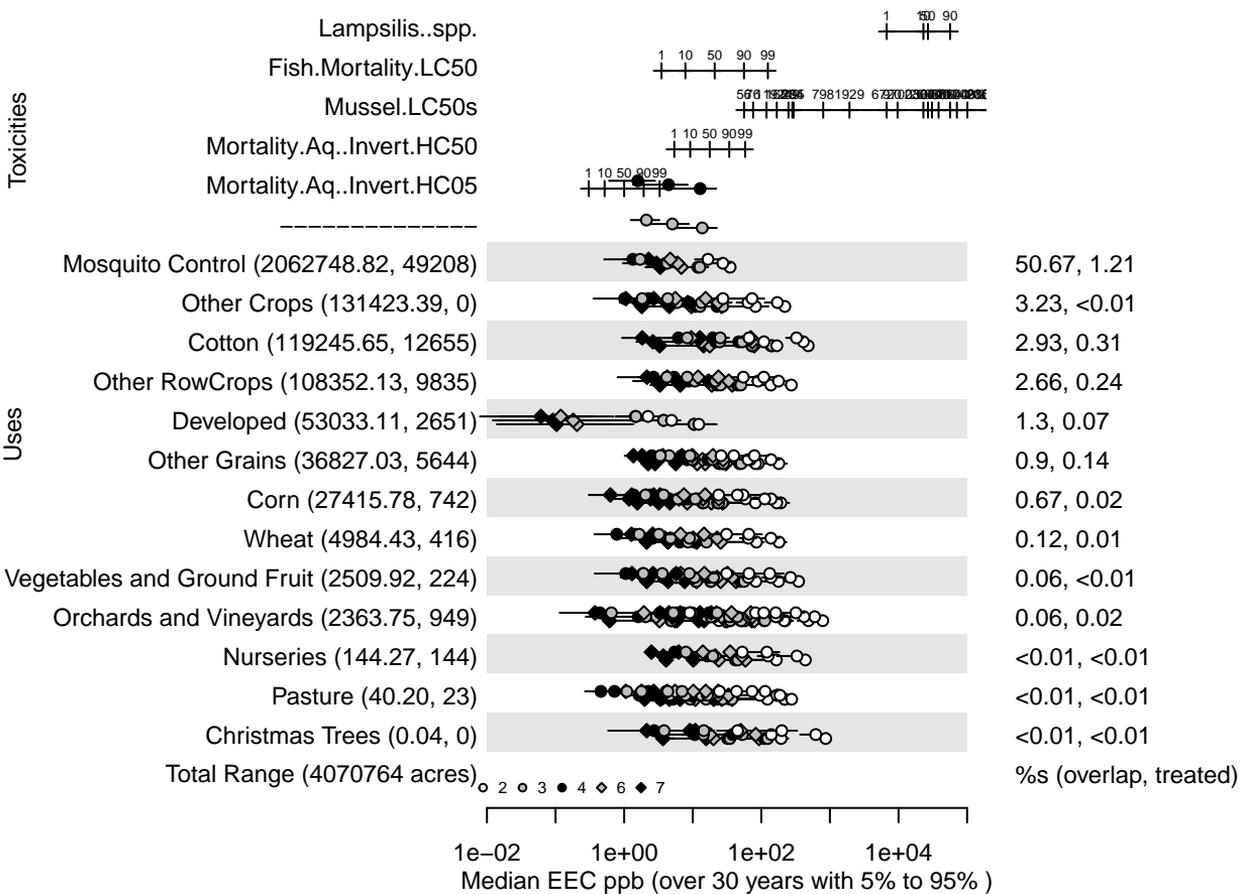
Uses



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:4,5,6,7, bin:2,3,4,6,7  
 Rayed Bean (6062) Range

Toxicities

Uses

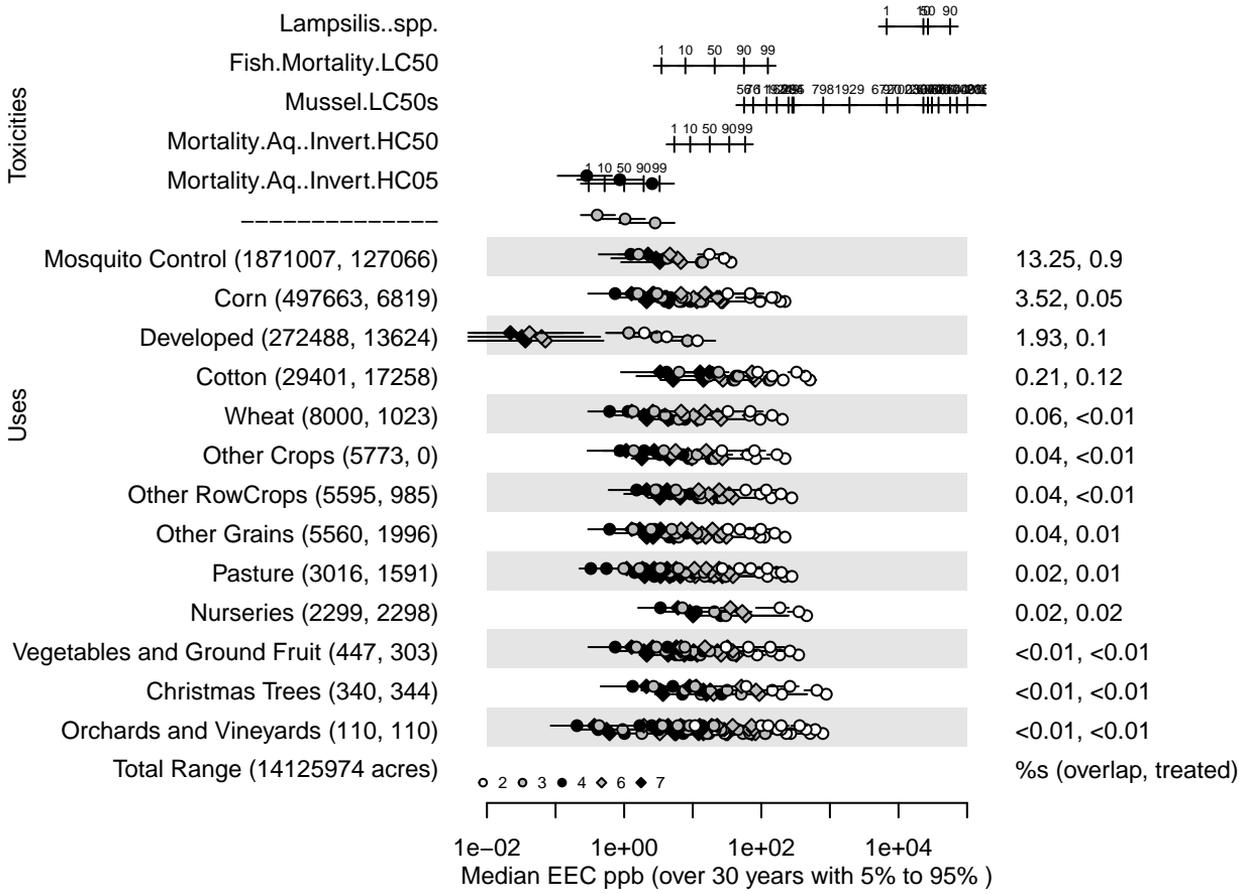


○ 2 ○ 3 ● 4 ◇ 6 ◆ 7

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

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

malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3, bin:2,3,4,6,7  
 Tapered pigtoe (6534) Range

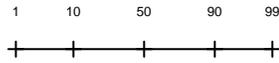


malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:5,6, bin:2,3,4,6,7  
 Slabside Pearlymussel (6841) Range

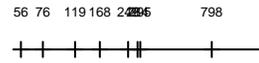
Lampsilis..spp.

>

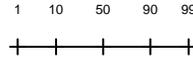
Fish.Mortality.LC50



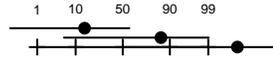
Mussel.LC50s



Mortality.Aq..Invert.HC50



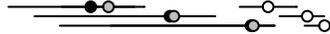
Mortality.Aq..Invert.HC05



Toxicities

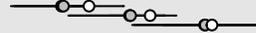
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Mosquito Control (3052793, 0)



16.37, <0.01

Developed (588758, 29437)



3.16, 0.16

Corn (336737, 3921)



1.81, 0.02

Cotton (220573, 27674)



1.18, 0.15

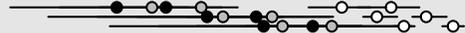
Uses

Other Crops (209815, 153)



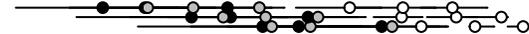
1.12, <0.01

Other RowCrops (96076, 4207)



0.52, 0.02

Vegetables and Ground Fruit (36756, 2449)



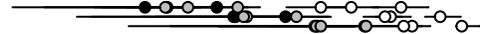
0.2, 0.01

Wheat (36109, 36057)



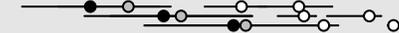
0.19, 0.19

Other Grains (25234, 4289)



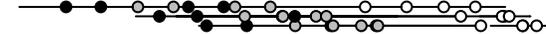
0.14, 0.02

Nurseries (5845, 5845)



0.03, 0.03

Pasture (2072, 559)



0.01, <0.01

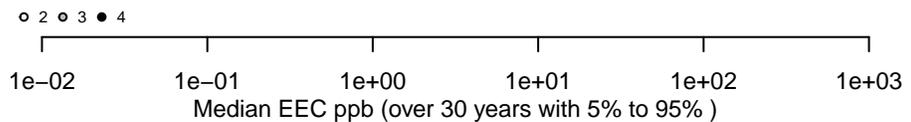
Orchards and Vineyards (1403, 881)



<0.01, <0.01

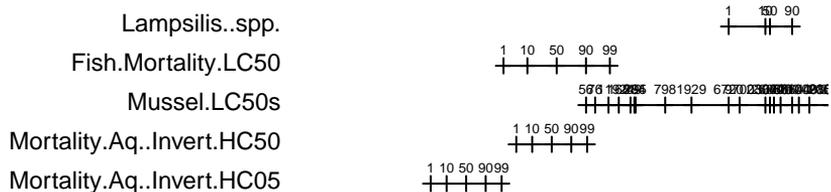
Total Range (18654160 acres)

%s (overlap, treated)

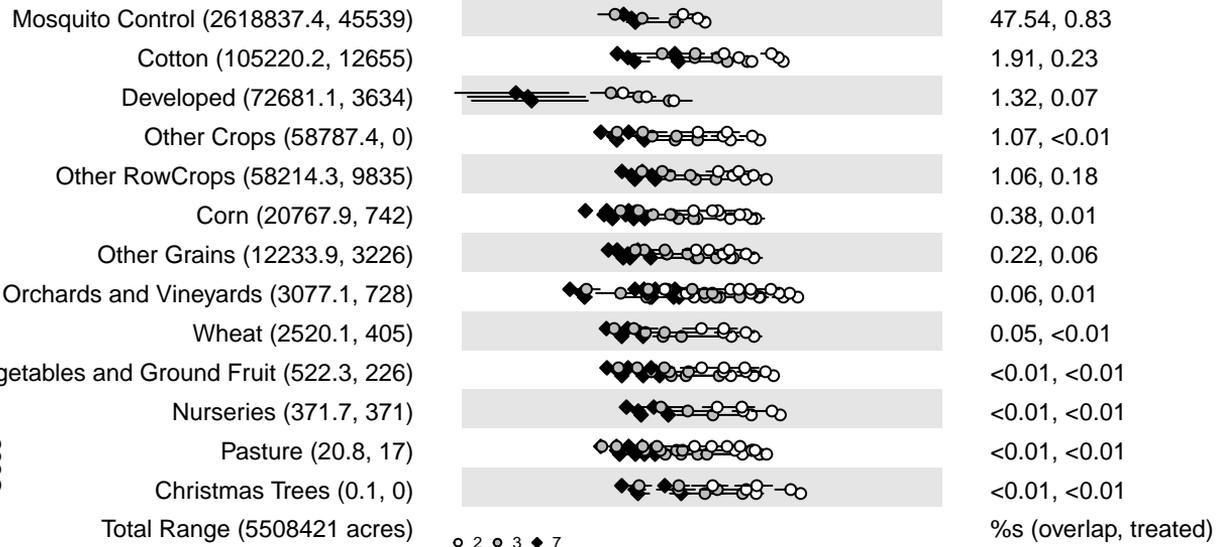


malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:2,3,5, bin:2,3,4  
 Atlantic pigtoe\_7048

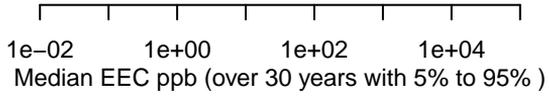
Toxicities



Uses



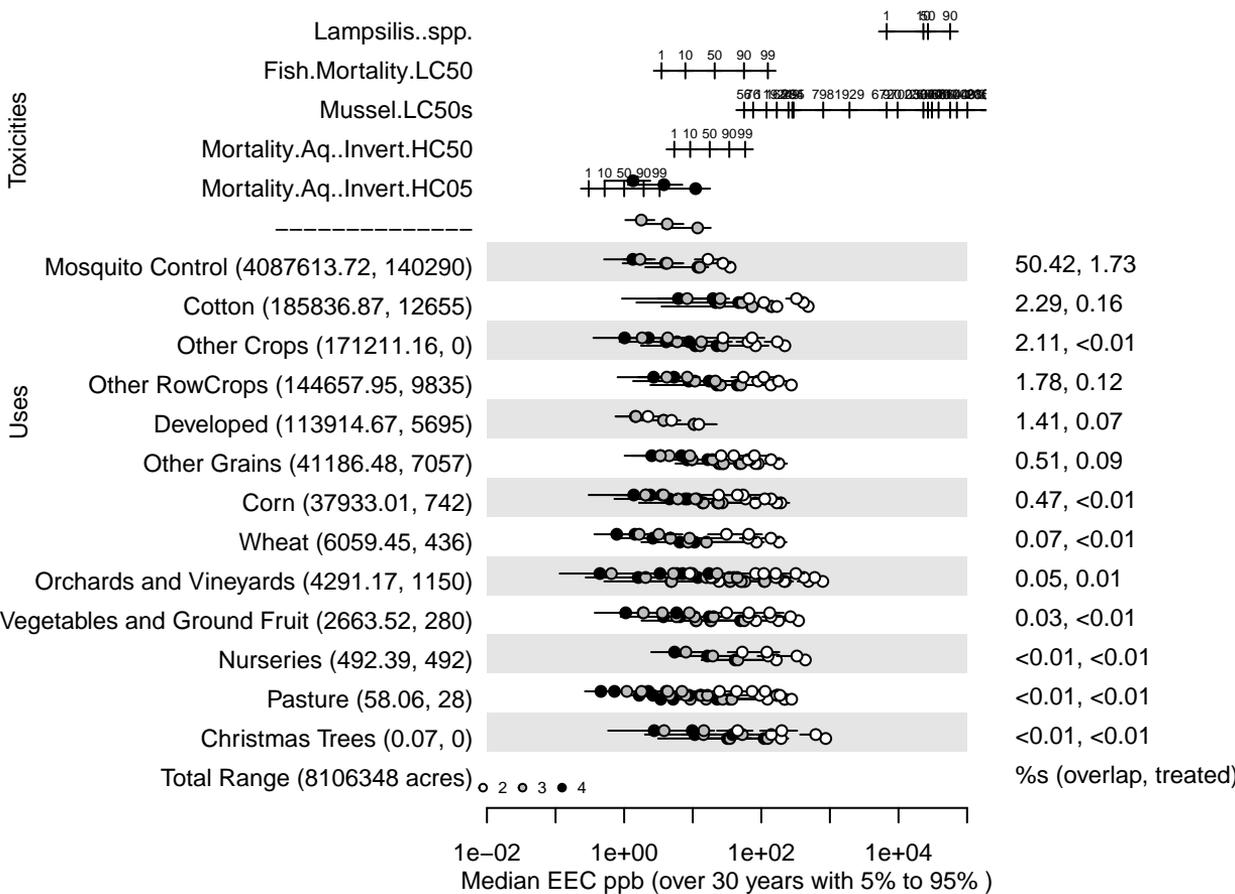
○ 2 ○ 3 ◆ 7



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3, bin:2,3,7  
 Narrow pigtoe (7177) Range

Toxicities

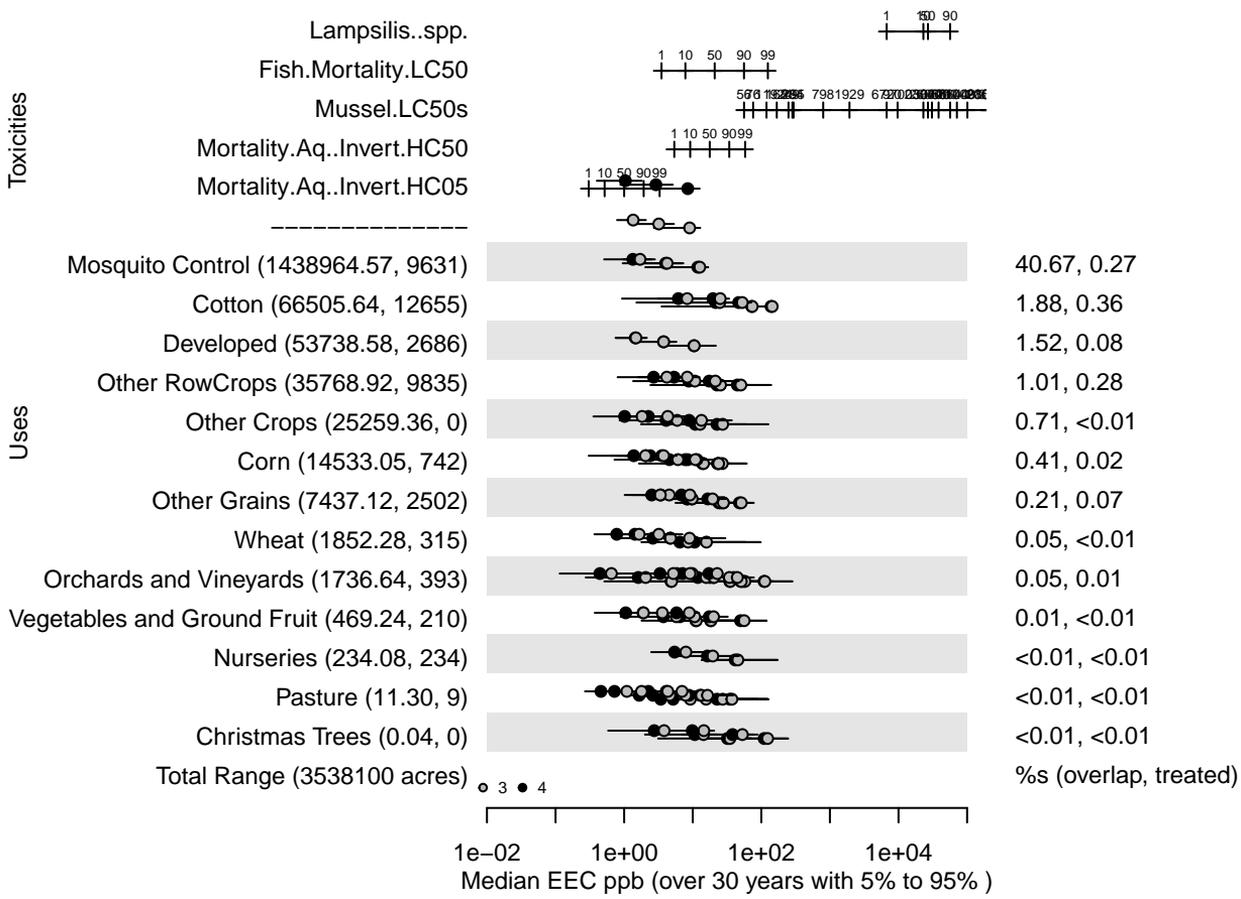
Uses



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3, bin:2,3,4  
 Southern sandshell (7349) Range

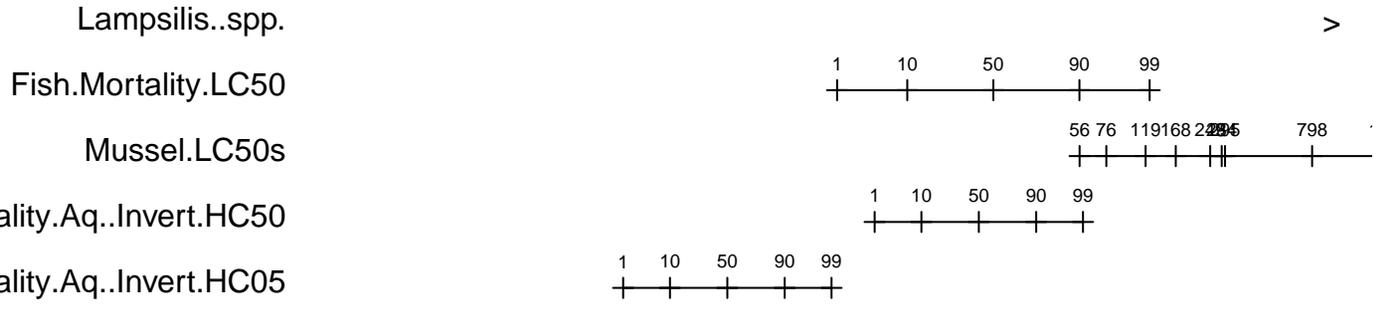
Toxicities

Uses

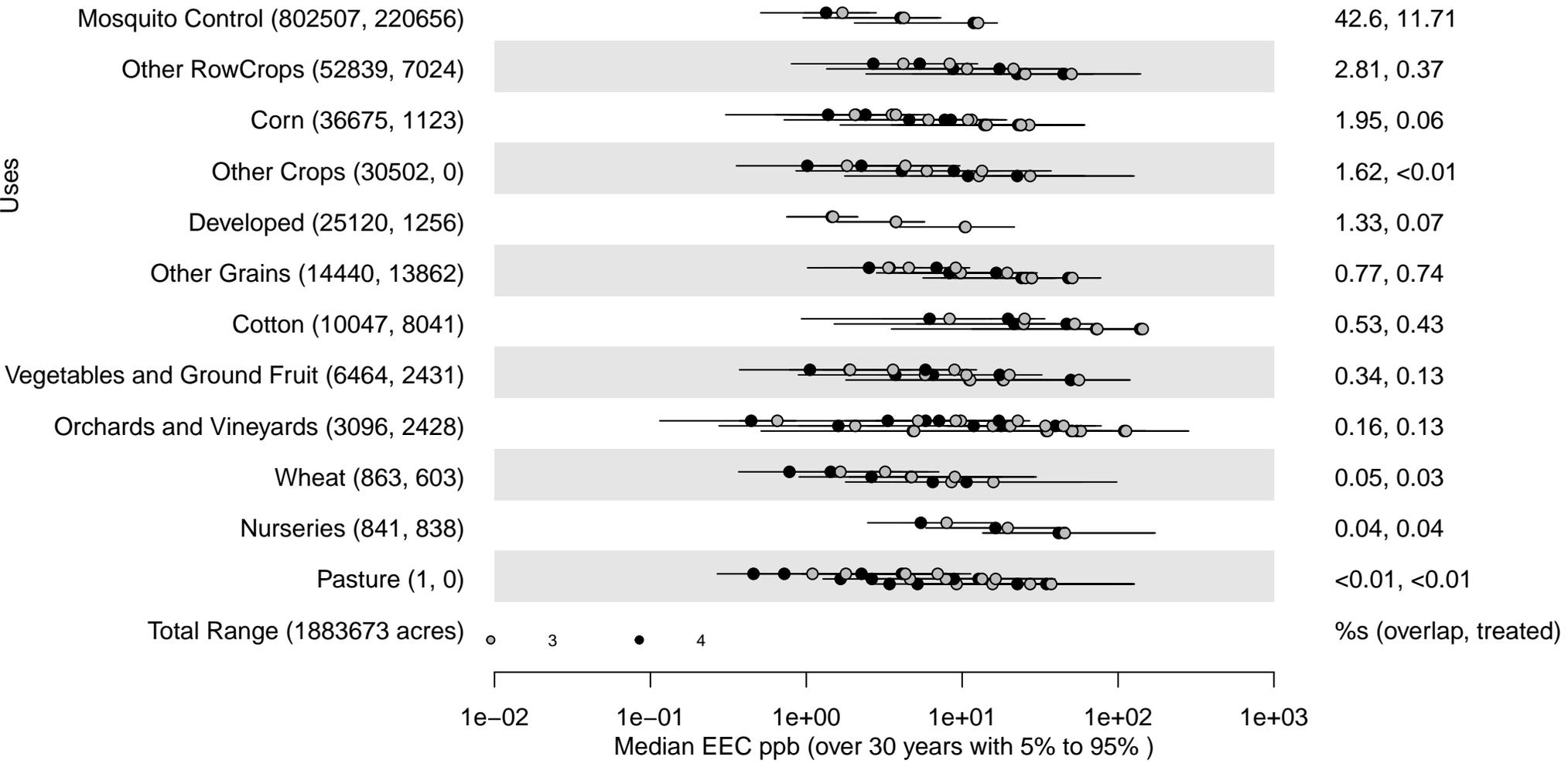


malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3, bin:3,4  
 Round Ebonyshell (7363) Range

Toxicities

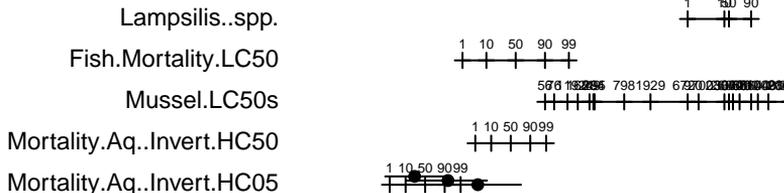


Uses

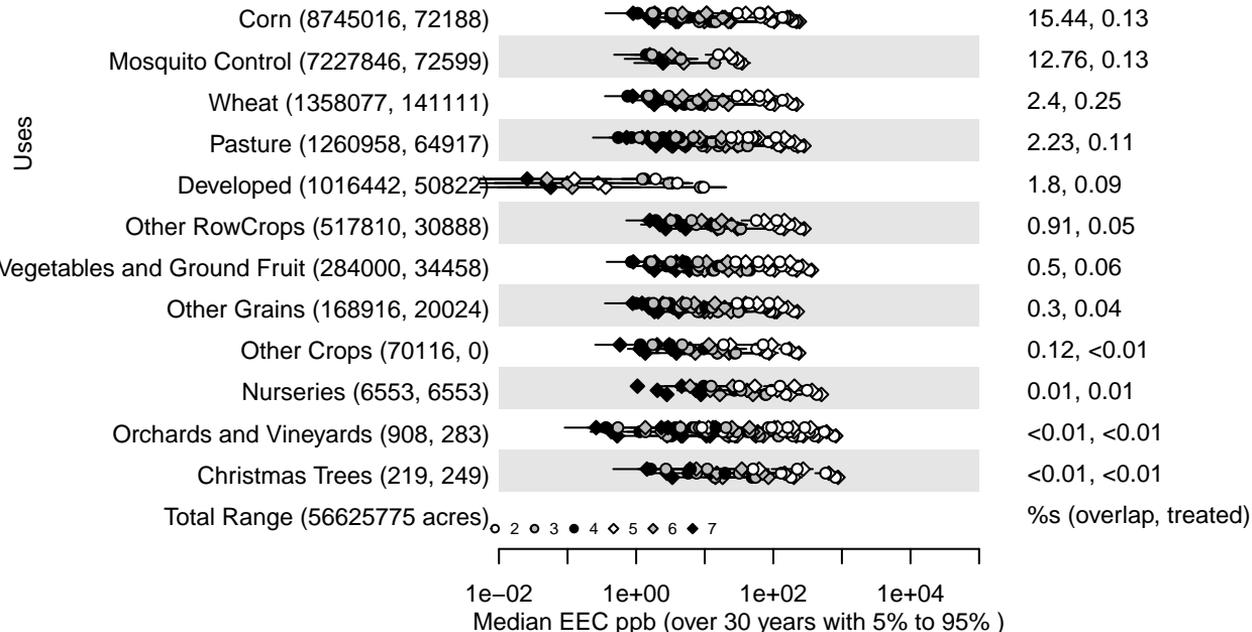


malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3, bin:3,4  
 Suwannee moccasinshell (7372) Range

Toxicities



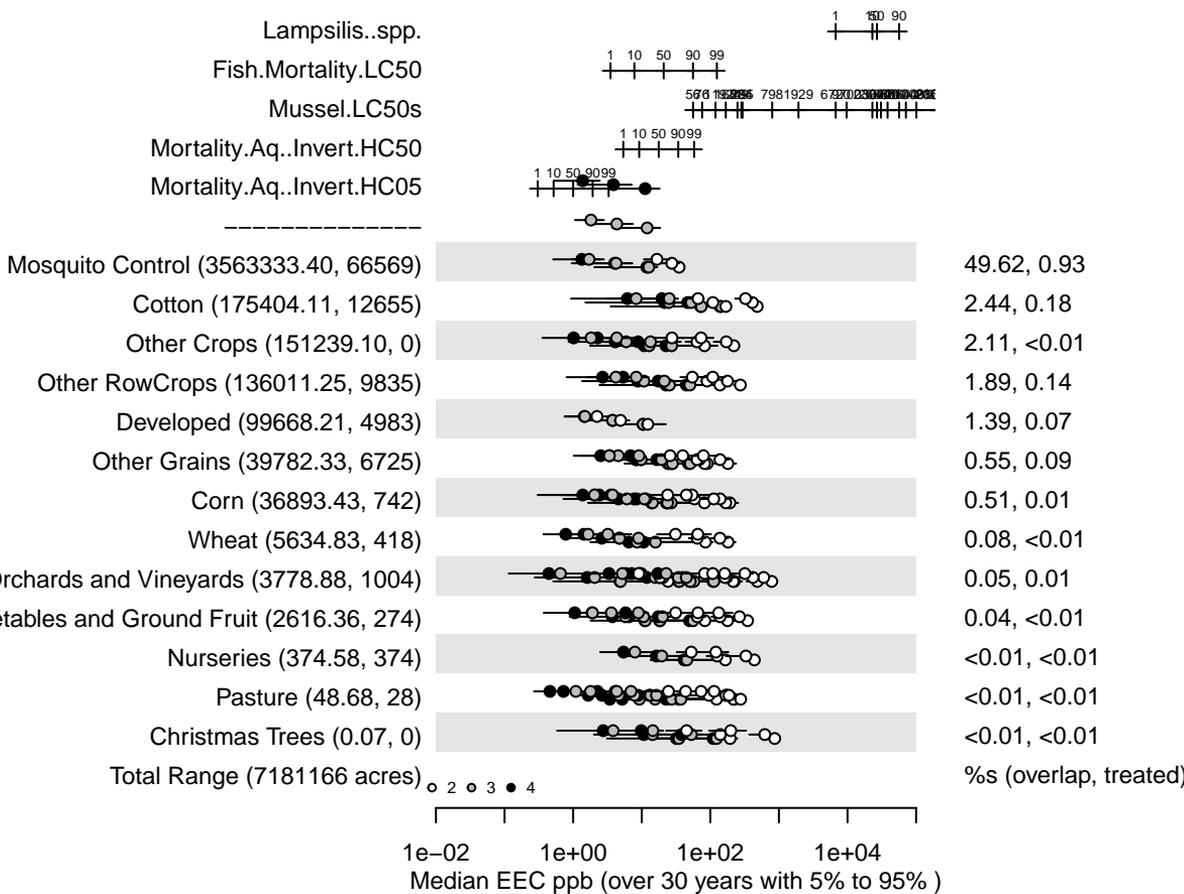
Uses



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:5,6,7,8,10a, bin:2,3,4,5,6,7  
 Sheepnose Mussel (7816) Range

Toxicities

Uses



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3, bin:2,3,4  
 Southern kidneyshell (7949) Range

Lampsilis..spp.

>

Fish.Mortality.LC50

1 10 50 90 99

Mussel.LC50s

56 76 119 168 245 316 798

Mortality.Aq..Invert.HC50

1 10 50 90 99

Mortality.Aq..Invert.HC05

1 10 50 90 99

Toxicities

Mosquito Control (13497268, 1079798)

37.5, 3

Developed (784676, 39233)

2.18, 0.11

Cotton (461013, 32788)

1.28, 0.09

Other Crops (370310, 262)

1.03, <0.01

Corn (314646, 5201)

0.87, 0.01

Other Grains (60859, 5826)

0.17, 0.02

Wheat (16709, 18414)

0.05, 0.05

Orchards and Vineyards (15008, 1311)

0.04, <0.01

Vegetables and Ground Fruit (10585, 1062)

0.03, <0.01

Nurseries (6913, 6913)

0.02, 0.02

Pasture (139, 42)

<0.01, <0.01

Uses

Total Range (35993270 acres)

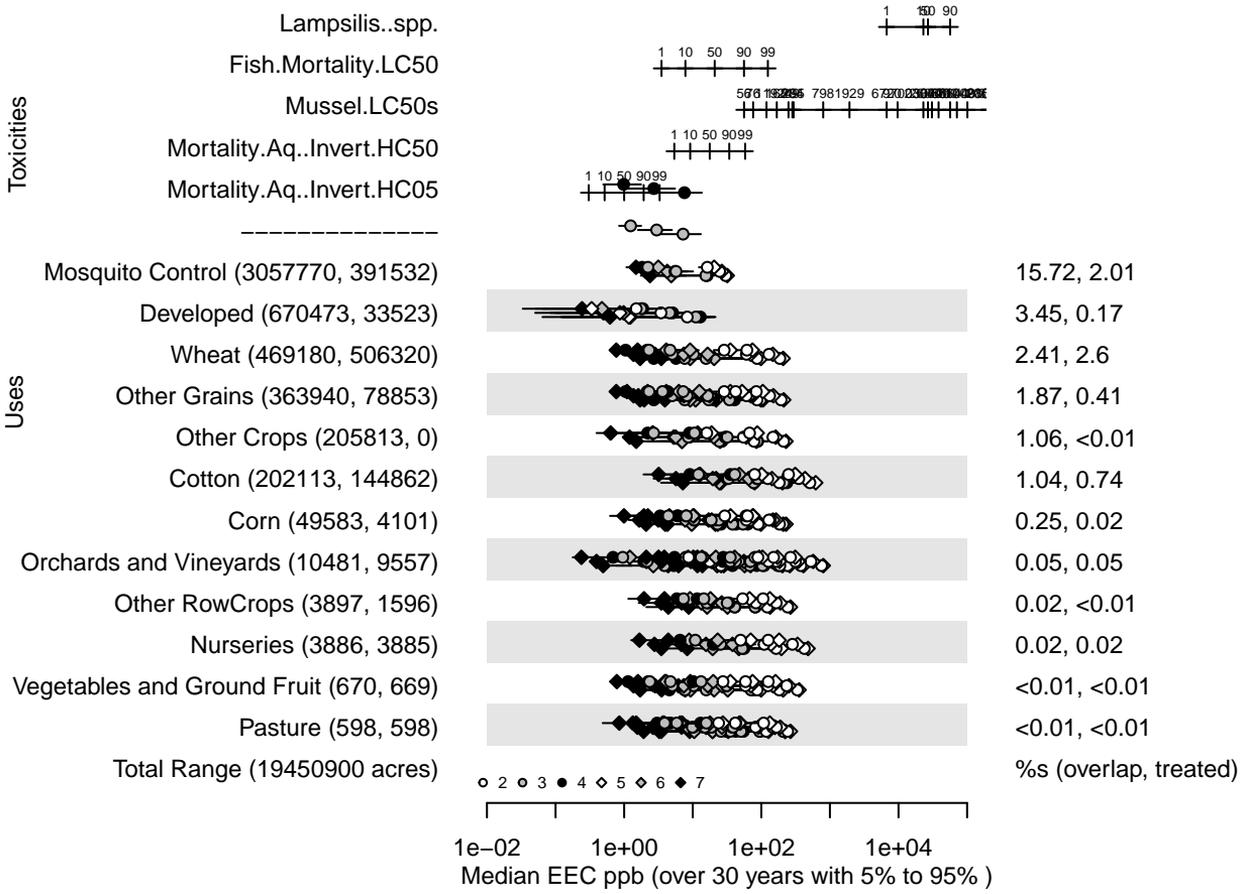
%s (overlap, treated)

○ 2 ○ 3 ● 4

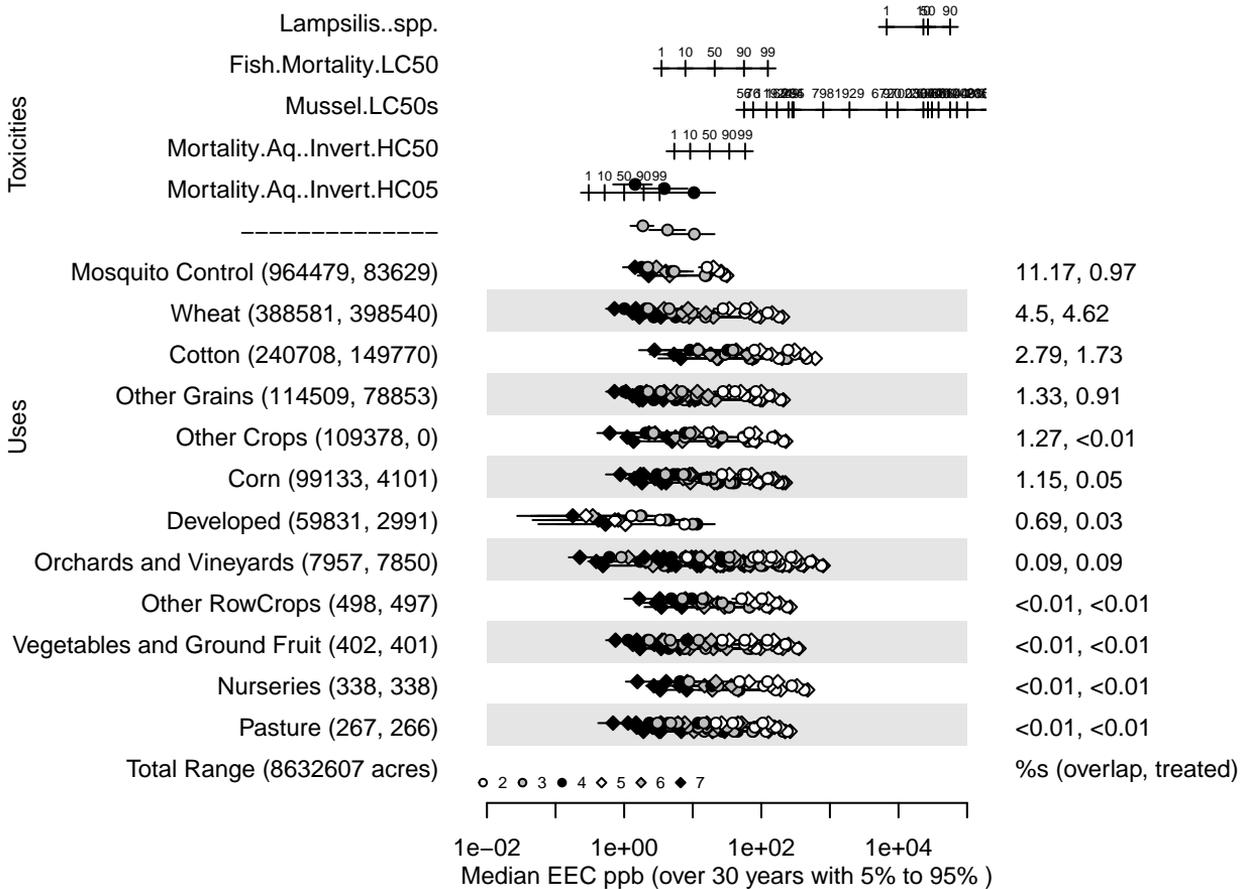
1e-02 1e-01 1e+00 1e+01 1e+02 1e+03

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

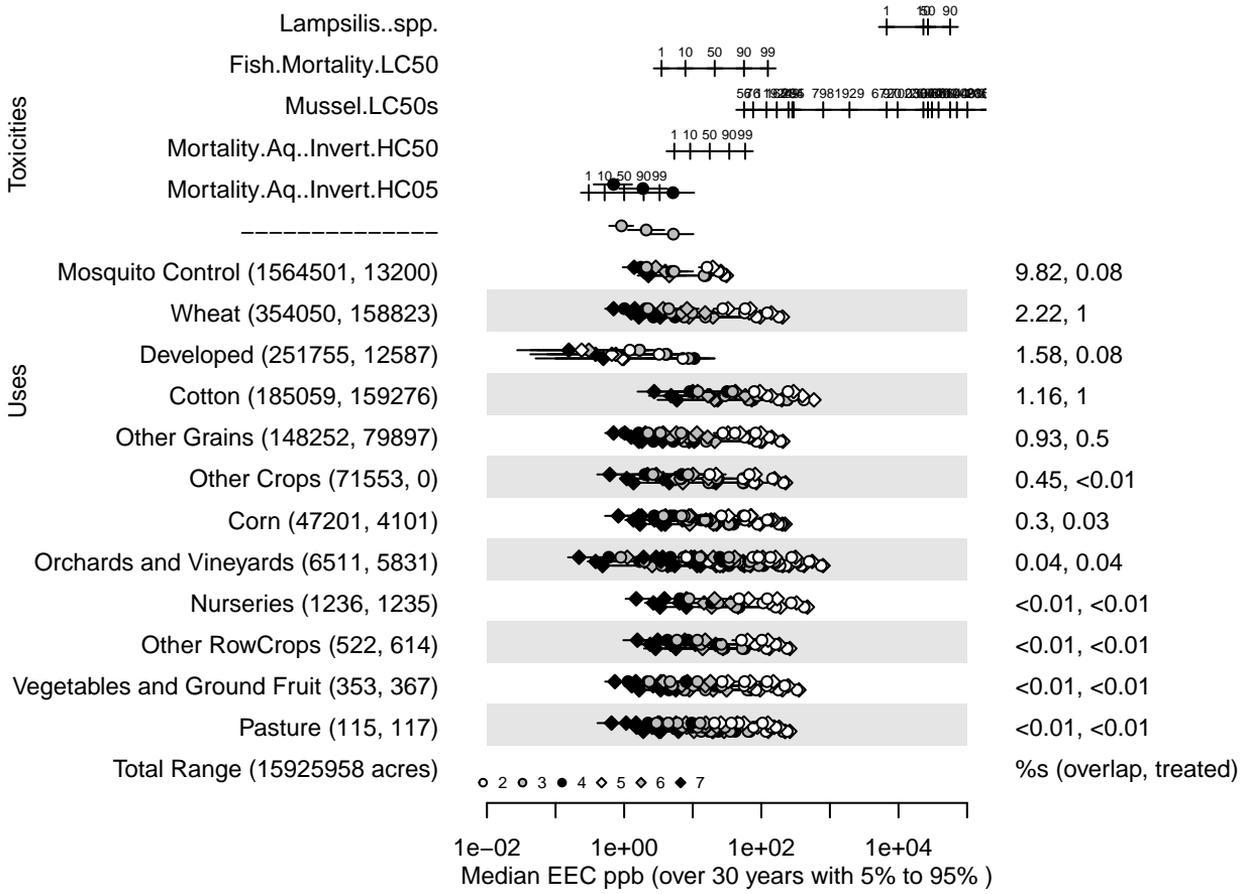
malathion: mal2.mus.tox.txt  
yearly peak 1-d, 4-d, 21-d (from bottom up)  
huc:3,6, bin:2,3,4  
Canoe Creek clubshell\_9222



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:11b,12a,12b, bin:2,3,4,5,6,7  
 Texas fawnsfoot (9967) Range



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:12a,12b, bin:2,3,4,5,6,7  
 Texas pimpleback (9968) Range

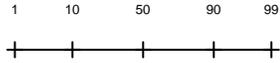


malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:12a,12b, bin:2,3,4,5,6,7  
 Texas fatmucket (10038) Range

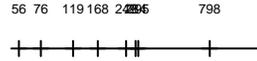
Lampsilis..spp.

>

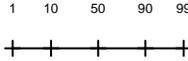
Fish.Mortality.LC50



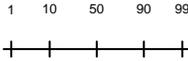
Mussel.LC50s



Mortality.Aq..Invert.HC50



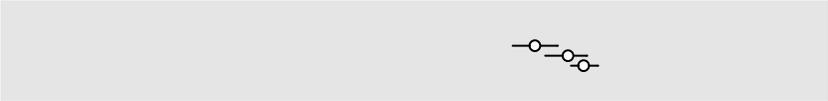
Mortality.Aq..Invert.HC05



Toxicities

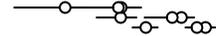
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Mosquito Control (4559647, 97843)



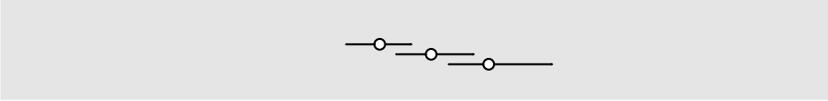
19.11, 0.41

Corn (1238268, 34018)



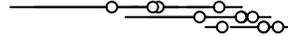
5.19, 0.14

Developed (887600, 44379)



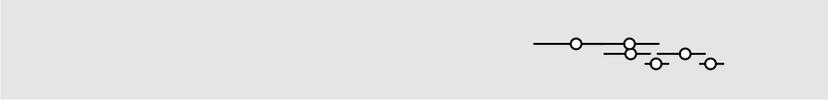
3.72, 0.19

Pasture (89179, 39743)



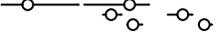
0.37, 0.17

Wheat (86244, 82670)



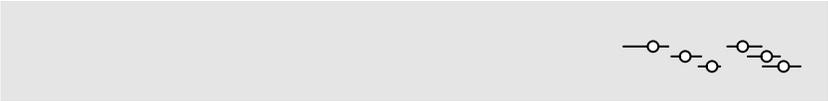
0.36, 0.35

Other Crops (40302, 0)



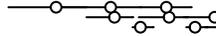
0.17, <0.01

Cotton (27041, 16889)



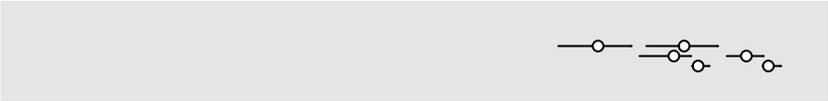
0.11, 0.07

Vegetables and Ground Fruit (8191, 5682)



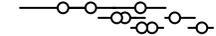
0.03, 0.02

Nurseries (7943, 7942)



0.03, 0.03

Other Grains (6973, 3564)



0.03, 0.01

Orchards and Vineyards (445, 299)



<0.01, <0.01

Total Range (23864360 acres)

%s (overlap, treated)

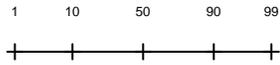


malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:3,4,5,6,7,8, bin:2  
 Round Hickorynut\_10837

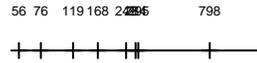
Lampsilis..spp.

>

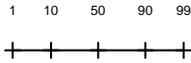
Fish.Mortality.LC50



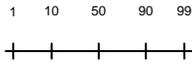
Mussel.LC50s



Mortality.Aq..Invert.HC50

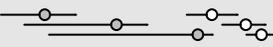


Mortality.Aq..Invert.HC05



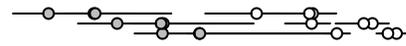
Toxicities

Mosquito Control (2504500, 148237)



16.56, 0.98

Corn (419686, 47307)



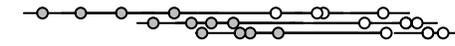
2.77, 0.31

Developed (378753, 18937)



2.5, 0.13

Pasture (35241, 11548)



0.23, 0.08

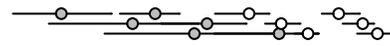
Uses

Other Crops (24021, 0)



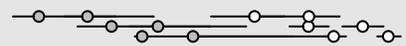
0.16, <0.01

Cotton (14861, 8607)



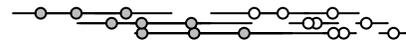
0.1, 0.06

Wheat (8889, 9062)



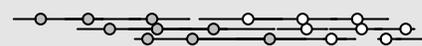
0.06, 0.06

Other Grains (6188, 3236)



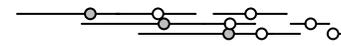
0.04, 0.02

Vegetables and Ground Fruit (2283, 1075)



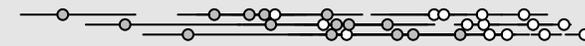
0.02, <0.01

Nurseries (1820, 1819)



0.01, 0.01

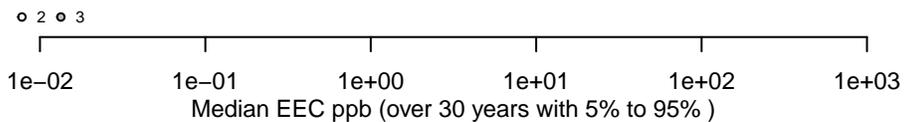
Orchards and Vineyards (262, 241)



<0.01, <0.01

Total Range (15126300 acres)

%s (overlap, treated)



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:2,3,4,5,6,7,8, bin:2,3  
 Longsolid\_10838

Lampsilis.. spp.

>

Fish.Mortality.LC50

1 10 50 90 99

Mussel.LC50s

56 76 119 168 245 316 798

Mortality.Aq..Invert.HC50

1 10 50 90 99

Mortality.Aq..Invert.HC05

1 10 50 90 99

Toxicities

Mosquito Control (612265, 127968)

9.9, 2.07

Developed (105172, 5258)

1.7, 0.09

Corn (91328, 4101)

1.48, 0.07

Other Grains (79507, 76632)

1.29, 1.24

Cotton (31433, 31190)

0.51, 0.5

Wheat (26038, 25881)

0.42, 0.42

Other Crops (17395, 0)

0.28, <0.01

Nurseries (785, 784)

0.01, 0.01

Orchards and Vineyards (647, 640)

0.01, 0.01

Vegetables and Ground Fruit (67, 67)

<0.01, <0.01

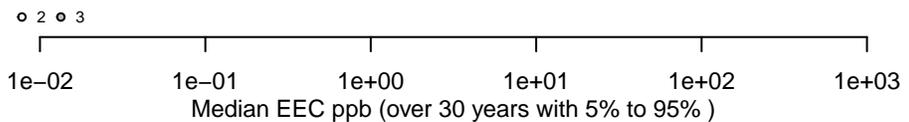
Pasture (9, 9)

<0.01, <0.01

Total Range (6182067 acres)

%s (overlap, treated)

Uses

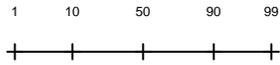


malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:12b,12a, bin:2,3  
 Guadalupe orb\_11577

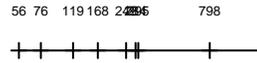
Lampsilis..spp.

>

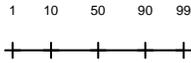
Fish.Mortality.LC50



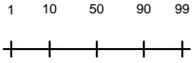
Mussel.LC50s



Mortality.Aq..Invert.HC50

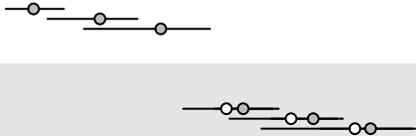


Mortality.Aq..Invert.HC05



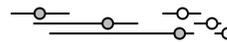
Toxicities

Developed (20510, 1025)



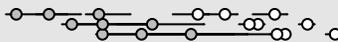
1.1, 0.06

Mosquito Control (19118, 0)



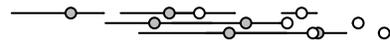
1.03, <0.01

Other Grains (5308, 5308)



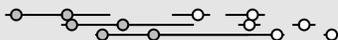
0.28, 0.28

Other Crops (3132, 0)



0.17, <0.01

Wheat (2293, 2291)



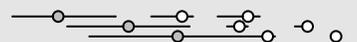
0.12, 0.12

Corn (660, 470)



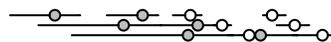
0.04, 0.03

Nurseries (181, 180)



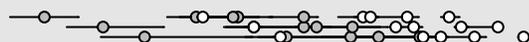
<0.01, <0.01

Cotton (135, 8)



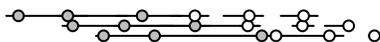
<0.01, <0.01

Orchards and Vineyards (48, 48)



<0.01, <0.01

Vegetables and Ground Fruit (7, 6)



<0.01, <0.01

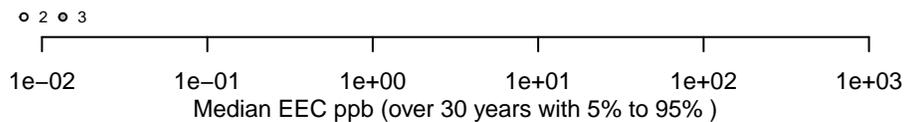
Pasture (6, 6)



<0.01, <0.01

Total Range (1864024 acres)

%s (overlap, treated)



malathion: mal2.mus.tox.txt  
 yearly peak 1-d, 4-d, 21-d (from bottom up)  
 huc:12b,12a, bin:2,3  
 Guadalupe fatmucket\_11578

Uses