

# Index

## A

- Acute criterion plot, malathion (illus.), **216**: 20
- Acute to chronic calculation, chlorpyrifos & diazinon (tables), **216**: 22
- Acute to chronic calculation, cyfluthrin,  $\lambda$ -cyhalothrin & permethrin (tables), **216**: 74
- Acute to chronic calculation, malathion (table), **216**: 23
- Acute toxicity data set, bifenthrin (table), **216**: 55
- Acute toxicity data set, chlorpyrifos (table), **216**: 6
- Acute toxicity data set, cyfluthrin (table), **216**: 57
- Acute toxicity data set, cypermethrin (table), **216**: 60
- Acute toxicity data set, diazinon (table), **216**: 10
- Acute toxicity data set, diuron (table), **216**: 107
- Acute toxicity data set, malathion (table), **216**: 14
- Acute toxicity data set, permethrin (table), **216**: 66
- Acute toxicity data set,  $\lambda$ -cyhalothrin (table), **216**: 63
- Acute water quality criteria calculations, diuron, **216**: 125
- Acute water quality criteria calculations, organophosphorous (OP) insecticides, **216**: 18
- Acute water quality criteria calculations, pyrethroid insecticides, **216**: 54
- Air or sediment criteria, harmonization with water quality criteria, **216**: 32
- Air partitioning, diuron, **216**: 132

- Aquatic life protection, deriving quality criteria, **216**: 1
- Aquatic life, water quality criteria, **216**: 1 ff., 51 ff., 105 ff.

## B

- Bifenthrin data set, acute toxicity (table), **216**: 55
- Bifenthrin data set, chronic toxicity (table), **216**: 56
- Bifenthrin probability plot, SMAV (illus.), **216**: 70
- Bioaccumulation role, in setting water quality criteria, **216**: 30, 85
- Bioaccumulation, diuron, **216**: 132
- Bioaccumulation, OP insecticides, **216**: 30
- Bioaccumulation, pyrethroid insecticides, **216**: 86
- Bioavailability, diuron, **216**: 127
- Bioavailability, OP insecticides, **216**: 24
- Bioavailability, pyrethroid insecticides, **216**: 76
- Bioconcentration factors, diuron (table), **216**: 133

## C

- California water sheds, water quality criteria, **216**: 2
- Chemical mixture effects, diuron, **216**: 127
- Chemical mixture effects, water quality criteria, **216**: 24, 78, 127
- Chlorophyll fluorescence ratio change, diuron, **216**: 124
- Chlorpyrifos data set, acute toxicity (table), **216**: 6

- Chlorpyrifos data set, chronic toxicity (table), **216: 9**
- Chlorpyrifos probability plot, species mean acute values (SMAVs) (illus.), **216: 18**
- Chlorpyrifos, acute to chronic calculation (table), **216: 22**
- Chlorpyrifos, environmental fate (table), **216: 4**
- Chlorpyrifos, physical-chemical properties (table), **216: 3**
- Chronic animal toxicity data set, diuron (table), **216: 109**
- Chronic plant toxicity data set, diuron (table), **216: 108**
- Chronic toxicity data set, bifenthrin (table), **216: 56**
- Chronic toxicity data set, chlorpyrifos (table), **216: 9**
- Chronic toxicity data set, cyfluthrin (table), **216: 59**
- Chronic toxicity data set, cypermethrin (table), **216: 62**
- Chronic toxicity data set, diazinon (table), **216: 13**
- Chronic toxicity data set, malathion (table), **216: 17**
- Chronic toxicity data set, permethrin (table), **216: 68**
- Chronic toxicity data set,  $\lambda$ -cyhalothrin (table), **216: 65**
- Chronic water quality criteria calculations, diuron, **216: 126**
- Chronic water quality criteria calculations, OP insecticides, **216: 21**
- Cyfluthrin data set, acute toxicity (table), **216: 57**
- Cyfluthrin data set, chronic toxicity (table), **216: 59**
- Cyfluthrin probability plot, SMAV (illus.), **216: 71**
- Cyfluthrin, acute to chronic calculation (tables), **216: 74**
- Cypermethrin data set, acute toxicity (table), **216: 60**
- Cypermethrin data set, chronic toxicity (table), **216: 62**
- Cypermethrin probability plot, SMAV (illus.), **216: 71**
- D**
- Data evaluation, in setting water quality criteria, **216: 5**
- Data reduction methods, setting water quality criteria, **216: 5**
- Diazinon data set, acute toxicity (table), **216: 10**
- Diazinon data set, chronic toxicity (table), **216: 13**
- Diazinon probability plot, SMAVs (illus.), **216: 19**
- Diazinon, acute to chronic calculation (table), **216: 22**
- Diazinon, environmental fate (table), **216: 4**
- Diazinon, physical-chemical properties (table), **216: 3**
- Diazinon, UCDM water quality criteria, **216: 2**
- Diuron data set, acute toxicity (table), **216: 107**
- Diuron data set, chronic animal toxicity (table), **216: 109**
- Diuron data set, chronic plant toxicity (table), **216: 108**
- Diuron water quality criteria, data reduction, **216: 125**
- Diuron, acute water quality criteria calculations, **216: 125**
- Diuron, bioaccumulation, **216: 132**
- Diuron, bioavailability, **216: 127**
- Diuron, bioconcentration factors (table), **216: 133**
- Diuron, chemical mixture effects, **216: 127**
- Diuron, chlorophyll fluorescence ratio change, **216: 124**
- Diuron, chronic water quality criteria calculations, **216: 126**
- Diuron, data collection & evaluation, **216: 105**
- Diuron, description, **216: 105**
- Diuron, ecosystem-level studies, **216: 129**
- Diuron, environmental fate (table), **216: 106**
- Diuron, excluded data (table), **216: 110**
- Diuron, final criteria statement, **216: 136**
- Diuron, physical-chemical properties (table), **216: 106**
- Diuron, plant growth inhibition, **216: 124**
- Diuron, predicted toxicity to rare species (table), **216: 132**
- Diuron, reduced plant oxygen evolution, **216: 125**
- Diuron, relative plant growth rate, **216: 124**
- Diuron, sensitive species, **216: 128**
- Diuron, supplemental data used for criteria setting (table), **216: 113–123**
- Diuron, threatened & endangered species, **216: 131**
- Diuron, water quality and bioavailability effects, **216: 127**
- Diuron, water quality criteria, **216: 105**

**E**

- Ecosystem-level studies, diuron, **216: 129**
- Ecosystem-level studies, role in water quality criteria, **216: 28, 83, 129**
- Environmental fate, chlorpyrifos, diazinon & malathion (table), **216: 4**
- Environmental fate, diuron (table), **216: 106**

**F**

- Final criteria statement, diuron, **216: 136**
- Final criteria statements, OP insecticides, **216: 36**
- Final criteria statements, pyrethroid insecticides, **216: 91**
- Final numeric criteria, pyrethroid insecticides (table), **216: 92**

**M**

- Malathion data set, acute toxicity (table), **216: 14**
- Malathion data set, chronic toxicity (table), **216: 17**
- Malathion, acute criterion plot (illus.), **216: 20**
- Malathion, acute to chronic calculation (table), **216: 23**
- Malathion, environmental fate (table), **216: 4**
- Malathion, physical-chemical properties (table), **216: 3**

**O**

- OP (organophosphorous) insecticides, bioavailability, **216: 24**
- OP insecticide mixtures, water quality criteria effects, **216: 24**
- OP insecticide mixtures, water quality criteria effects, **216: 26**
- OP insecticides, acute water quality criteria calculations, **216: 18**
- OP insecticides, bioaccumulation, **216: 30**
- OP insecticides, chronic water quality criteria calculations, **216: 21**
- OP insecticides, environmental fate (table), **216: 4**
- OP insecticides, final criteria statements, **216: 36**
- OP insecticides, physical-chemical properties (table), **216: 3**
- OP insecticides, water quality criteria effects, **216: 26**
- OP insecticides, water quality criteria, **216: 1 ff.**

**P**

- Permethrin data set, acute toxicity (table), **216: 66**
- Permethrin data set, chronic toxicity (table), **216: 68**
- Permethrin probability plot, SMAV (illus.), **216: 72**
- Permethrin, acute to chronic calculation (tables), **216: 74**
- Pesticides, water quality criteria, **216: 2**
- Physical-chemical properties (table), **216: 106**
- Physical-chemical properties, chlorpyrifos, malathion, diazinon (table), **216: 3**
- Physical-chemical properties, OP insecticides (table), **216: 3**
- Physical-numeric properties, pyrethroid insecticides, **216: 53**
- Plant growth inhibition, diuron, **216: 124**
- Plant relative growth rate, diuron, **216: 124**
- Pyrethroid insecticide mixtures, water quality criteria effects, **216: 78**
- Pyrethroid insecticides, acute water quality criteria calculations, **216: 54**
- Pyrethroid insecticides, bioaccumulation, **216: 86**
- Pyrethroid insecticides, bioavailability, **216: 76**
- Pyrethroid insecticides, data collection & evaluation, **216: 52**
- Pyrethroid insecticides, description, **216: 51**
- Pyrethroid insecticides, final criteria statements, **216: 91**
- Pyrethroid insecticides, final numeric criteria (table), **216: 92**
- Pyrethroid insecticides, log-logistic distributions, **216: 69**
- Pyrethroid insecticides, physical-chemical properties (table), **216: 53**
- Pyrethroid insecticides, water quality criteria effects, **216: 80**
- Pyrethroid insecticides, water quality criteria, **216: 51 ff.**
- Pyrethroid water quality criteria, data reduction, **216: 54**

**R**

- Reduced plant oxygen evolution, diuron, **216: 125**

**S**

- Sediment or air criteria, harmonization with water quality criteria, **216: 32**

- Sediment partitioning, diuron, **216**: 132
- Sensitive species effects, water quality criteria, **216**: 26, 81, 128
- Sensitive species, diuron, **216**: 128
- SMAVs (species mean acute values),  
bifenthrin probability plot (illus.),  
**216**: 70
- SMAVs, cyfluthrin probability plot (illus.),  
**216**: 71
- SMAVs, cypermethrin probability plot (illus.),  
**216**: 71
- SMAVs, diazinon probability plot (illus.),  
**216**: 19
- SMAVs, permethrin probability plot (illus.),  
**216**: 72
- SMAVs,  $\lambda$ -cyhalothrin probability plot (illus.),  
**216**: 72
- Species mean acute values (SMAVs),  
chlorpyrifos probability plot (illus.),  
**216**: 18
- Study types, acceptable for criteria setting  
(table), **216**: 133
- T**
- Threatened & endangered species, role in water  
quality criteria, **216**: 29, 85, 131
- Toxicity (predicted) to rare species, diuron  
(table), **216**: 132
- U**
- UC Davis methodology (UCDM), water  
quality criteria, **216**: 1 ff., 51 ff., 105 ff.
- UCDM water quality criteria, comparison  
to existing criteria, **216**: 33, 88, 134
- UCDM water quality criteria, comparison  
to USEPA method, **216**: 35, 90, 135
- UCDM water quality criteria, description,  
**216**: 1, 51
- UCDM water quality criteria, pesticides, **216**: 2
- W**
- Water quality criteria setting, intangibles,  
**216**: 32, 88, 133
- Water quality criteria setting, role for  
bioaccumulation, **216**: 30, 86
- Water quality criteria, aquatic life, **216**: 1 ff.,  
51 ff., 105 ff.
- Water quality criteria, chronic criterion  
calculation, **216**: 73
- Water quality criteria, data derivation, **216**: 2
- Water quality criteria, data reduction methods,  
**216**: 5
- Water quality criteria, diuron, **216**: 105
- Water quality criteria, ecosystem-level studies,  
**216**: 28, 83, 129
- Water quality criteria, harmonizing with air  
or sediment criteria, **216**: 32
- Water quality criteria, OP insecticide mixture  
effects, **216**: 24
- Water quality criteria, OP insecticides,  
**216**: 1 ff.
- Water quality criteria, pyrethroid insecticides,  
**216**: 51 ff.
- Water quality criteria, role for threatened &  
endangered species, **216**: 29, 85, 131
- Water quality criteria, sensitive species effects,  
**216**: 26, 81, 128
- Water quality effects, diuron, **216**: 127
- Water quality effects, on calculating aquatic  
criteria, **216**: 26, 80
- $\lambda$ -Cyhalothrin data set, acute toxicity (table),  
**216**: 63
- $\lambda$ -Cyhalothrin data set, chronic toxicity (table),  
**216**: 65
- $\lambda$ -Cyhalothrin probability plot, SMAV (illus.),  
**216**: 72
- $\lambda$ -Cyhalothrin, acute to chronic calculation  
(tables), **216**: 74