

## Chapter NR 233

### PESTICIDE CHEMICALS

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**Subchapter I – General Provisions**

**NR 233.01 Purpose.** The purpose of this chapter is to establish effluent limitations, performance standards and pretreatment standards for discharges of process wastes from the pesticide chemicals point source category and its subcategories.

History: Cr. Register, March, 1997, No. 495, eff. 4-1-97.

**NR 233.02 Applicability.** This chapter applies to any pesticide chemicals facility that discharges or may discharge a pollutant to waters of the state or that introduces or may introduce pollutants into a publicly owned treatment works.

History: Cr. Register, March, 1997, No. 495, eff. 4-1-97.

**NR 233.03 General definitions.** In addition to the definitions in ss. NR 205.03, 205.04 and 211.03, the following definitions apply to the terms used in this chapter:

(1) “Active ingredient” means an ingredient of a pesticide which is intended to prevent, destroy, repel or mitigate any pest.

(2) “Existing source” means any point source, except a new source as defined in sub. (3), from which pollutants are or may be discharged either to waters of the state or into a publicly owned treatment works.

(3) “New source” means any point source for which the commencement of construction occurred after April 10, 1992, and from which pollutants are or may be discharged either to waters of the state or into a publicly owned treatment works.

(4) “Pest” means:

- (a) Any insect, rodent, nematode, fungus or weed.
- (b) Any other form of terrestrial or aquatic plant or animal life.
- (c) Any virus, bacteria or other micro-organism, except viruses, bacteria or other micro-organisms on or in living man or other living animals, which the administrator declares to be a pest under the Federal Insecticide, Fungicide and Rodenticide Act, 7 U.S.C. s. 136 et.seq.

(5) “Pesticide” means any substance or mixture of substances intended for preventing, destroying, repelling or mitigating any pest.

(6) “Pesticide chemicals” means the sum of all active ingredients manufactured at each facility covered by this chapter.

(7) “Priority pollutants” means the toxic pollutants listed in s. NR 215.03.

History: Cr. Register, March, 1997, No. 495, eff. 4-1-97.

**NR 233.04 Compliance dates.** (1) Any existing source subject to this chapter which discharges to waters of the state shall achieve:

(a) The effluent limitations representing BPT by July 1, 1977; and

(b) The effluent limitations representing BAT by July 1, 1984.

(2) Any new source subject to this chapter which discharges to waters of the state shall achieve NSPS at the commencement of discharge.

(3) Any existing source subject to this chapter which introduces process wastewater pollutants into a POTW shall achieve PSES by September 28, 1996.

(4) Any new source subject to this chapter which introduces process wastewater pollutants into a POTW shall achieve PSNS at the commencement of discharge.

History: Cr. Register, March, 1997, No. 495, eff. 4-1-97.

#### **Subchapter II – Organic Pesticide Chemicals Manufacturing Subcategory**

##### **NR 233.10 Applicability; description of the organic pesticide chemicals manufacturing subcategory.**

(1) For the purpose of calculating and applying effluent limitations for COD, BOD<sub>5</sub>, and TSS, and applying pH limits under BPT in s. NR 233.12, BCT in s. NR 233.13, and NSPS in s. NR 233.15:

(a) This subchapter applies to discharges resulting from the manufacture of organic pesticide active ingredients and organotin pesticide active ingredients except those listed in par. (b).

(b)	This subchapter does not apply to the following:
	Allethrin Naphthalene acetic acid
	Benzyl benzoate Propargite
	Bisethlyxanthogen 1,8 Naphthalic anhydride
	Chlorophacinone Quinmethionate
	Coumafuryl Rotenone
	Dimethyl phthalate Sulfoxide
	Diphascione Triazine compounds, both
	Endothall acid symmetrical and
	EXD (Herbisan) asymmetrical
	Giberellic acid Warfarin and similar
	Glyphosate anticoagulants.

(c) The effluent limitations of this subchapter for BOD<sub>5</sub> and TSS, but not COD, apply to the manufacturers of the following:

Ametryn	Prometryn
Atrazine	Propazine
Cyanazine	Simazine
Glyphosate	Terbutylazine
Hexazinone	Terbutryn
Prometon	

(2) For the purpose of calculating BPT effluent limitations in s. NR 233.12 for organic pesticide chemicals, this subchapter applies to discharges resulting from the manufacture of the following organic active ingredients:

2,4-D	Fenuron
2,4,5-T	Fenuron-TCA
Aldrin	Heptachlor
Aminocarb	Lindane
Azinphos methyl	Linuron
Barban	Malathion
BHC	Methiocarb
Captan	Methoxychlor
Carbaryl	Mexacarbate
Chlordane	Mirex
Chlorpropham	Monuron
Diazinon	Monuron-TCA
DDD	Neubron
DDE	Parathion ethyl
DDT	Parathion methyl
Demeton-O	PCNB
Demeton-S	Perthane
Dicamba	Propham
Dichloran	Propoxur
Dicofol	Siduron
Dieldrin	Silvex
Disulfoton	Swep
Diuron	Toxaphene
Endosulfan	Trifluralin
Endrin	

(3) This subchapter does not apply to the intermediates used to manufacture the active ingredients, and active ingredients used solely in experimental pesticides. BPT coverage in this subchapter does not apply to insecticidal pathogenic organisms such as bacillus thuringiensis, insect growth hormones, plant extracts such as pyrethrins, sex attractants and botanicals such as Rotenone.

(4) A plant that manufactures a pesticide active ingredient listed in Table 1 shall comply with the BAT effluent limitations, new source performance standards, and pretreatment standards both for that ingredient listed in Table 2 or Table 3, and for priority pollutants listed in Tables 4, 5 and 6. The limitations apply as follows:

(a) Table 4 – BAT and NSPS – applies to existing and new direct discharge point sources that use end-of-pipe biological treatment.

(b) Table 5 – BAT and NSPS – applies to existing and new direct discharge point sources that do not use end-of-pipe biological treatment.

(c) Table 6 – PSES and PSNS – applies to existing and new sources that discharge to POTWs.

(5) (a) The discharge quantity for lead and total cyanide shall be determined by multiplying the concentrations listed in the applicable tables times the flow from the non-complexed lead-bearing waste streams for lead and times the flow from non-complexed cyanide-bearing waste streams for total cyanide.

(b) This subchapter does not apply to discharges of cyanide in cyanide-bearing waste streams if:

1. The department or control authority determines that the cyanide limitations and standards are not achievable due to elevated levels of non-amenable cyanide, that is not oxidized by chlorine treatment, that result from the unavoidable complexing of cyanide at the process source of the cyanide-bearing waste stream and establishes an alternative total cyanide or amenable cyanide limitation that reflects the best available technology economically achievable.

2. The determination under subd. 1 shall be based upon a review of relevant engineering, production, and sampling and analysis information, including measurements of both total and amenable cyanide in the waste stream.

3. An analysis of the extent of complexing in the waste stream, based on the information in subds. 1 and 2, and its impact on cyanide treatability shall be set forth in writing and, for direct dischargers, be contained in the fact sheet required by 40 CFR 124.8.

History: Cr. Register, March, 1997, No. 495, eff. 4-1-97.

**NR 233.11 Specialized definitions.** The following definitions apply to the terms used in this subchapter:

(1) "Organic active ingredients" means carbon-containing active ingredients used in pesticides, excluding metallo-organic active ingredients.

(2) "Organic pesticide chemicals" means the sum of all organic active ingredients listed in s. NR 233.10 (2) which are manufactured at a facility subject to this subchapter.

(3) "Total organic active ingredients" means the sum of all organic active ingredients covered by s. NR 233.10 (1) which are manufactured at a facility subject to this subchapter.

(4) (a) "Process wastewater flow" means the sum of the average daily flow from the following wastewater streams:

Process stream and product washes
Equipment and floor washers
Water used as solvent for raw materials
Water used as reaction medium
Spent acids
Spent bases
Contact cooling water
Water of reaction
Air pollution control blowdown
Stream jet blowdown
Vacuum pump water
Pump seal water
Safety equipment cleaning water
Shipping container cleanout
Safety shower water
Contaminated storm water
Product/process laboratory quality control wastewater

(b) Does not mean wastewaters from the production of intermediate chemicals.

(5) "Process wastewater pollutants" means those pollutants present in process wastewater flow.

History: Cr. Register, March, 1997, No. 495, eff. 4-1-97.

**NR 233.12 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT).** Except as provided in 40 CFR 125.30 to 125.32, any existing point source subject to this subchapter shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of BPT:

BPT Effluent Limitations		
Effluent characteristics	Effluent limitations	
	Maximum for any 1 day	Average of daily values for 30 consecutive days may not exceed
COD .....	13.000	9.0000
BOD <sub>5</sub> .....	7.400	1.6000
TSS .....	6.100	1.8000
Organic pesticide chemicals .....	.010	.0018
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup>Within the range of 6.0 to 9.0.

Note: For COD, BOD<sub>5</sub> and TSS, metric units: Kilogram/1,000 kg of total organic active ingredients. English units: Pound/1000 lb. of total organic active ingredients.

For organic pesticide chemicals, metric units: Kilogram/1,000 kg of organic pesticide chemicals. English units: Pound/1,000 lb. of organic pesticide chemicals.

History: Cr. Register, March, 1997, No. 495, eff. 4-1-97.

**NR 233.13 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best conventional pollutant control technology (BCT).** Except as provided in 40 CFR 125.30 to 125.32, any existing point source subject to this subchapter shall achieve effluent limitations representing the degree of effluent reduction attainable by the application of BCT. The limitations for BOD<sub>5</sub>, TSS, and pH are the same as those specified in the table in s. NR 233.12.

BCT Effluent Limitations		
Pollutant or pollutant property	Maximum for any one day <sup>2</sup>	Average of daily values may not exceed <sup>2</sup>
BOD <sub>5</sub> .....	7.400	1.6000
TSS .....	6.100	1.8000
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup>Within the range 6.0 to 9.0

<sup>2</sup>Metric units: Kilogram pollutant/1,000 kg of total organic active ingredients. English units: Pound pollutant/1,000 lb of total organic active ingredients

History: Cr. Register, March, 1997, No. 495, eff. 4-1-97.

**NR 233.14 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available control technology economically achievable (BAT).** Except as provided in 40 CFR 125.30 to 125.32, any existing point source subject to this subchapter shall achieve effluent limitations representing the degree of effluent reduction attainable by the application of BAT as specified in s. NR 233.10 (4). For the priority pollutants, sources shall achieve discharges not exceeding the quantity or mass determined by multiplying the process wastewater flow times the appropriate concentrations listed in Table 4 or Table 5.

History: Cr. Register, March, 1997, No. 495, eff. 4-1-97.

**NR 233.15 New source performance standards (NSPS).** (1) Any new source subject to this subchapter which discharges process wastewater pollutants shall achieve the NSPS specified in s. NR 233.10 (4), and subject to s. NR 233.10 (1) shall meet the following standards for BOD<sub>5</sub>, TSS, COD and pH:

New Source Performance Standards		
Pollutant or pollutant property	Maximum for any one day <sup>2</sup>	Average of daily values may not exceed <sup>2</sup>
COD .....	9.360	6.480
BOD <sub>5</sub> .....	5.328	1.1520
TSS .....	4.392	1.2960
pH .....	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup>Within the range 6.0 to 9.0

<sup>2</sup>Metric units: Kilogram pollutant/1,000 kg of total organic active ingredients. English units: Pound pollutant/1,000 lb of total organic active ingredients

(2) Any new source subject to this subchapter which discharges priority pollutants may not exceed the quantity or mass determined by multiplying the process wastewater flow times the appropriate concentrations listed in Table 4 or Table 5.

History: Cr. Register, March, 1997, No. 495, eff. 4-1-97.

**NR 233.16 Pretreatment standards for existing sources (PSES).** Except as provided in s. NR 211.13, any existing source subject to this subchapter which introduces pollutants into a POTW shall comply with ch. NR 211 and achieve PSES as specified in s. NR 233.10 (4). For the priority pollutants, sources shall achieve discharges not exceeding the quantity or mass determined by multiplying the process wastewater flow subject to this subchapter times the concentrations listed in Table 6. If mass limitations have not been developed as required, the source shall achieve discharges not exceeding the concentration limitations listed in Table 6.

History: Cr. Register, March, 1997, No. 495, eff. 4-1-97.

**NR 233.17 Pretreatment standards for new sources (PSNS).** Except as provided in s. NR 211.13, any new source subject to this subchapter which introduces pollutants into a POTW shall comply with ch. NR 211 and shall achieve PSNS as specified in s. NR 233.10 (4). For the priority pollutants, sources shall achieve discharges not exceeding the quantity or mass determined by multiplying the process wastewater flow subject to this subchapter times the concentrations listed in Table 6. If mass limitations have not been developed as required, the source shall achieve discharges not exceeding the concentration limitations listed in Table 6.

History: Cr. Register, March, 1997, No. 495, eff. 4-1-97.

### Subchapter III – Metallo–Organic Pesticide Chemicals Manufacturing Subcategory

**NR 233.20 Applicability; description of the metallo–organic pesticides chemicals manufacturing subcategory.** This subchapter applies to discharges resulting from the manufacture of metallo–organic active ingredients containing mercury, cadmium, arsenic or copper. This subchapter does not apply to the manufacture of intermediates used to manufacture the active ingredients.

History: Cr. Register, March, 1997, No. 495, eff. 4-1-97.

**NR 233.21 Specialized definitions.** “Metallo–organic active ingredients” means carbon containing active ingredients containing one or more metallic atoms in the structure.

History: Cr. Register, March, 1997, No. 495, eff. 4-1-97.

**NR 233.22 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT).** Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to the

provisions of this subchapter may not discharge process wastewater pollutants into waters of the state.

History: Cr. Register, March, 1997, No. 495, eff. 4-1-97.

#### **Subchapter IV – Pesticide Chemicals Formulating and Packaging Subcategory**

**NR 233.30 Applicability; description of the pesticide chemicals formulating and packaging subcategory.** This subchapter applies to discharges resulting from all pesticide formulating and packaging operations.

History: Cr. Register, March, 1997, No. 495, eff. 4-1-97.

**NR 233.31 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT).** Except as provided in 40 CFR 125.30 to 125.32, any existing point source subject to the provi-

sions of this subchapter may not discharge process wastewater pollutants into waters of the state.

History: Cr. Register, March, 1997, No. 495, eff. 4-1-97.

#### **Subchapter V – Test Methods for Pesticide Pollutants**

##### **NR 233.40 Identification of test procedures.**

(1) Table 7 names the pesticide active ingredients subject to this chapter, together with the chemical abstracts service (CAS) number used for identification and the analytical method designation.

(2) Except as provided in s. NR 219.05, the discharge parameter values required under the clean water act shall be determined by one of the analytical methods cited in Table 7.

(3) Except where identical to Table 7, pesticide manufacturers may not use the analytical methods cited in ch. NR 219, Tables B, C and D.

Note: The full texts of the analytical methods cited in table 7 are contained in the "Methods For The Determination of Nonconventional Pesticides In Municipal and Industrial Wastewater, Volume I," EPA 821-R-93-010A (August 1993 Revision I) and "Volume II," EPA 821-R-93-010B (August 1993) (the "Compendium").

History: Cr. Register, March, 1997, No. 495, eff. 4-1-97.

**Table 1**  
**List of Organic Pesticide Active Ingredients**

EPA Census Code	Pesticide Code	Pesticide Name	CAS No.
1 .....	10501	Dicofol (1,1-Bis(chlorophenyl)-2,2,2-trichloroethanol) .....	00115-32-2
2 .....	51501	Maleic Hydrazide .....	00123-33-1
3 .....	42002	EDB (1,2-Ethylene dibromide) .....	00106-93-4
4 .....	82901	Vancide TH (1,3,5-Triethylhexahydro-s-triazine) .....	07779-27-3
5 .....	29001	Dichloropropene .....	00542-75-6
7 .....	17901	Dowicil 75 (1-(3-Chloroallyl)-3,5,7-triaza-1-azoniaadamantanechloride)	04080-31-3
8 .....	109901	Triadimefon .....	43121-43-3
9 .....	44901	Hexachlorophene (nabac) .....	00070-30-4
10 .....	55004	Tetrachlorophene .....	01940-43-8
11 .....	55001	Dichlorophene .....	00097-23-4
12 .....	84001	Dichlorvos .....	00062-73-7
13 .....	102401	Landrin-2 (2,3,5-trimethylphenylmethylcarbamate) .....	02686-99-9
14 .....	82601	Fenac (2,3,6-Trichlorophenylacetic acid) .....	00085-34-7
14 .....	( <sup>1</sup> )	Fenac Salts and Esters .....	( <sup>1</sup> )
15 .....	82001	2,4,5-T (2,4,5-Trichlorophenoxyacetic acid) .....	00093-76-5
15 .....	( <sup>1</sup> )	2,4,5-T Salts and Esters .....	( <sup>1</sup> )
16 .....	30001	2,4-D (2,4-Dichlorophenoxyacetic acid) .....	00094-75-7
16 .....	( <sup>1</sup> )	2,4-D Salts and Esters .....	( <sup>1</sup> )
17 .....	30801	2,4-DB (2,4-Dichlorophenoxybutyric acid) .....	00094-82-6
17 .....	( <sup>1</sup> )	2,4-DB Salts and Esters .....	( <sup>1</sup> )
18 .....	80811	Anilazine (2,4-Dichloro-6-(o-chloroanilino)-s-triazine) .....	00101-05-3
19 .....	36001	Dinocap .....	39300-45-3
20 .....	31301	Dichloran (2,6-dichloro-4-nitroaniline) .....	00099-30-9
21 .....	8707	Busan 90 (2-Bromo-4-hydroxyacetophenone) .....	02491-38-5
22 .....	15801	Mevinphos .....	07786-34-7
23 .....	39001	Sulfallate (2-chloroallyldiethyldithiocarbamate) .....	00095-06-7
24 .....	84101	Chlorfenvinphos .....	00470-90-6
25 .....	10010	Cyanazine .....	21725-46-2
26 .....	19101	Propachlor .....	01918-16-7
27 .....	30501	MCPA (2-Methyl-4-chlorophenoxyacetic acid) .....	00094-74-6
27 .....	( <sup>1</sup> )	MCPA Salts and Esters .....	( <sup>1</sup> )
28 .....	99901	Ocithilinone .....	26530-20-1
29 .....	67703	Pindone .....	00083-26-1
30 .....	31401	Dichlorprop (2-(2,4-Dichlorophenoxy) propionic acid) .....	00120-36-5
30 .....	( <sup>1</sup> )	Dichlorprop Salts and Esters .....	( <sup>1</sup> )
31 .....	31501	MCPP (2-(2-Methyl-4-chlorophenoxy) propionic acid) .....	00093-65-2
31 .....	( <sup>1</sup> )	MCPP Salts and Esters .....	( <sup>1</sup> )
32 .....	60101	Thiabendazole .....	00148-79-8
33 .....	80815	Belclene 310 (2-(methylthio)-4-(ethylamino)-6-(1,2-dimethylamino)-s-triazine) .....	22936-75-0
34 .....	21201	Cloprop (2-(m-Chlorophenoxy) propionic acid) .....	00101-10-0
34 .....	( <sup>1</sup> )	Cloprop Salts and Esters .....	( <sup>1</sup> )

EPA Census Code	Pesticide Code	Pesticide Name	CAS No.
35 .....	35603	TCMTB (2-(Thiocyanomethylthio) benzothiazole) .....	21564-17-0
36 .....	99001	HAE (2-((Hydroxymethyl)amino) ethanol) .....	34375-28-5
37 .....	6770	Chlorophacinone .....	03691-35-8
38 .....	102401	Landrin-1 (3,4,5-trimethylphenylmethylcarbamate) .....	02686-99-9
39 .....	101701	Pronamide .....	23950-58-5
40 .....	100501	Methiocarb .....	02032-65-7
41 .....	28201	Propanil .....	00709-98-8
42 .....	107801	3-Iodo-2-propynyl butylcarbamate .....	55406-53-6
43 .....	86001	3-(a-Acetyl furfuryl)-4-hydroxy coumarin (Coumafuryl) .....	00117-52-2
43 .....	( <sup>1</sup> )	Coumafuryl Salts and Esters .....	( <sup>1</sup> )
44 .....	37507	DNOC (4,6-dinitro-o-cresol) .....	00534-52-1
45 .....	101101	Metribuzin .....	21087-64-9
46 .....	19401	CPA (4-chlorophenoxyacetic acid) .....	00122-88-3
46 .....	( <sup>1</sup> )	CPA Salts and Esters .....	( <sup>1</sup> )
47 .....	19201	MCPB (4-(2-Methyl-4-chlorophenoxy) butyric acid) .....	00094-81-5
47 .....	( <sup>1</sup> )	MCPB Salts and Esters .....	( <sup>1</sup> )
48 .....	44401	Aminocarb (4-(dimethylamino)-m-tolylmethylcarbamate) .....	02032-59-9
49 .....	84701	Etridiazole .....	02593-15-9
50 .....	55501	Ethoxyquin .....	00091-53-2
51 .....	59804	Quinolol sulfate (8-Quinolol sulfate) .....	00134-31-6
52 .....	103301	Acephate .....	30560-19-1
53 .....	114401	Acifluorfen .....	50594-66-6
53 .....	114402	Acifluorfen Salts and Esters .....	62476-59-9
54 .....	90501	Alachlor .....	15972-60-8
55 .....	98301	Aldicarb .....	00116-06-3
56 .....	69105	Hyamine 3500 (Alkyl* dimethyl benzyl ammonium chloride* (50% C14, 40% C12, 10% C16)) .....	68424-85-1
57 .....	4001	Allethrin (all isomers and allethrin coil) .....	00584-79-2
58 .....	80801	Ametryn .....	00834-12-8
59 .....	106201	Amitraz .....	33089-61-1
60 .....	80803	Atrazine .....	01912-24-9
61 .....	105201	Bendiocarb .....	22781-23-3
62 .....	99101	Benomyl and Carbendazim .....	17804-35-2
63 .....	8901	Benzene Hexachloride .....	00608-73-1
64 .....	9501	Benzyl benzoate .....	00120-51-4
65 .....	10101	Lethane 384 (Beta-Thiocyanethyl esters of mixed fatty acids containing from 10-18 carbons) .....	00301-11-1
66 .....	104301	Bifenox .....	42576-02-3
68 .....	12301	Bromacil .....	00314-40-9
68 .....	12302	Bromacil, lithium .....	53404-19-6
69 .....	35301	Bromoxynil .....	01689-84-5
69 .....	35302	Bromoxynil octanoate .....	01689-99-2
70 .....	112301	Butachlor .....	23184-66-9
70 .....	101401	Giv-gard (beta-Bromo-beta-nitrostyrene) .....	07166-19-0

EPA Census Code	Pesticide Code	Pesticide Name	CAS No.
73 .....	81701	Captafol .....	02425-06-1
74 .....	81301	Captan .....	00133-06-2
75 .....	56801	Carbaryl (Sevin) .....	00063-25-2
76 .....	90601	Carbofuran .....	01563-66-2
77 .....	90602	Carbosulfan .....	55285-14-8
78 .....	29901	Chloramben .....	00133-90-4
78 .....	( <sup>1</sup> )	Chloramben Salts and Esters .....	( <sup>1</sup> )
79 .....	58201	Chlordane .....	00057-74-9
80 .....	27301	Chloroneb .....	02675-77-6
81 .....	81501	Chloropicrin .....	00076-06-2
82 .....	81901	Chlorothalonil .....	01897-45-6
83 .....	25501	Chloroxuron .....	01982-47-4
84 .....	83701	Stirofos .....	00961-11-5
85 .....	59102	Chlorpyrifos methyl .....	05598-13-0
86 .....	59101	Chlorpyrifos .....	02921-88-2
87 .....	14504	Mancozeb .....	08018-01-7
90 .....	109301	Fenvalerate .....	51630-58-1
91 .....	43401	Cycloheximide .....	00066-81-9
92 .....	28901	Dalapon (2,2-dichloropropionic acid) .....	00075-99-0
92 .....	( <sup>1</sup> )	Dalapon Salts and Esters .....	( <sup>1</sup> )
93 .....	27501	Dienochlor .....	02227-17-0
94 .....	57601	Demeton (O,O-Diethyl O-(and S-)(2-ethylthio)ethyl) phosphorothioate) ..	08065-48-3
95 .....	104801	Desmedipham .....	13684-56-5
96 .....	14502	Diammonium ethylenebisdithiocarbamate .....	03566-10-7
97 .....	11301	DBCP (Dibromo-3-chloropropane) .....	00096-12-8
98 .....	29801	Dicamba (3,6-Dichloro-o-anisic acid) .....	01918-00-9
98 .....	( <sup>1</sup> )	Dicamba Salts and Esters .....	( <sup>1</sup> )
99 .....	29601	Dichlone (Phygon) .....	00117-80-6
100 .....	103401	Thiophanate ethyl .....	23564-06-9
101 .....	32101	Perthane (Diethyl diphenyl dichloroethane and related compounds) .....	00072-56-0
102 .....	86501	EXD (Diethyl dithiobis (thionoformate)) .....	00502-55-6
103 .....	57801	Diazinon .....	00333-41-5
104 .....	108201	Diflubenzuron .....	35367-38-5
105 .....	69122	Benzethonium chloride .....	00121-54-0
106 .....	35001	Dimethoate .....	00060-51-5
107 .....	53501	Parathion methyl .....	00298-00-0
108 .....	35201	Dicrotophos .....	00141-66-2
109 .....	58801	Crotoxyphos .....	07700-17-6
110 .....	78701	DCPA (Dimethyl 2,3,5,6-tetrachloroterephthalate) .....	01861-32-1
111 .....	57901	Trichlorofon .....	00052-68-6
112 .....	37505	Dinoseb .....	00088-85-7
113 .....	37801	Dioxathion .....	00078-34-2
114 .....	67701	Diphacinone .....	00082-66-6
115 .....	36601	Diphenamid .....	00957-51-7

EPA Census Code	Pesticide Code	Pesticide Name	CAS No.
116 .....	38501	Diphenylamine .....	00122-39-4
116 .....	47201	MGK 326 (Dipropyl isocinchomeronate) .....	00113-48-4
118 .....	63301	Nabonate (Disodium cyanodithioimidocarbonate) .....	00138-93-2
119 .....	35505	Diuron .....	00330-54-1
120 .....	44303	Metasol DGH (Dodecylguanidine hydrochloride) .....	13590-97-1
121 .....	44301	Dodine (dodecylquanidine acetate) .....	02439-10-3
122 .....	79401	Endosulfan (Hexachlorohexahydromethano-2,4,3-benzdioxathiepin-3-oxide) .....	00115-29-7
123 .....	38901	Endothall .....	00145-73-3
123 .....	( <sup>1</sup> )	Endothall Salts and Esters .....	( <sup>1</sup> )
124 .....	41601	Endrin .....	00072-20-8
125 .....	113101	Ethalfuralin .....	55283-68-6
126 .....	58401	Ethion .....	00563-12-2
127 .....	41101	Ethoprop .....	13194-48-4
128 .....	100601	Fenamiphos .....	22224-92-6
129 .....	28801	Chlorobenzilate .....	00510-15-6
130 .....	41405	Butylate .....	02008-41-5
131 .....	59901	Famphur .....	00052-85-7
132 .....	206600	Fenarimol .....	60168-88-9
133 .....	53301	Fenthion .....	00055-38-9
134 .....	34801	Ferbam .....	14484-64-1
135 .....	35503	Fluometuron .....	02164-17-2
136 .....	75002	Fluoroacetamide .....	00640-19-7
137 .....	81601	Folpet .....	00133-07-3
138 .....	103601	Glyphosate (N-(Phosphonomethyl) glycine) .....	01071-83-6
138 .....	( <sup>1</sup> )	Glyphosate Salts and Esters .....	( <sup>1</sup> )
139 .....	103602	Glyphosine .....	02439-99-8
140 .....	44801	Heptachlor .....	00076-44-8
141 .....	115601	Cycloprate .....	54460-46-7
142 .....	107201	Hexazinone .....	51235-04-2
143 .....	109401	Isofenphos .....	25311-71-1
144 .....	100201	Isopropalin .....	33820-53-0
145 .....	47601	Propham .....	00122-42-9
146 .....	97401	Karbutilate .....	04849-32-5
147 .....	9001	Lindane .....	00058-89-9
148 .....	35506	Linuron .....	00330-55-2
149 .....	39504	Malachite green (Ammonium(4-(p-(dimethylamino)-alpha-phenylbenzylidene)-2,5-cyclohexadien-1-ylidene)-dimethyl chloride) .....	00569-64-2
150 .....	57701	Malathion .....	00121-75-5
151 .....	14505	Maneb .....	12427-38-2
152 .....	34802	Manganous dimethyldithiocarbamate .....	15339-36-3
153 .....	114001	Mefluidide (N-(2,4-dimethyl-5-((trifluoromethyl) sulfonyl)-amino) phenyl acetamide) .....	53780-34-0
153 .....	( <sup>1</sup> )	Mefluidide Salts and Esters .....	( <sup>1</sup> )

EPA Census Code	Pesticide Code	Pesticide Name	CAS No.
154 .....	101201	Methamidophos .....	10265-92-6
155 .....	100301	Methidathion .....	00950-37-8
156 .....	90301	Methomyl .....	16752-77-5
157 .....	105401	Methoprene .....	40596-69-8
158 .....	34001	Methoxychlor .....	00072-43-5
159 .....	69134	Methylbenzethonium chloride .....	15716-02-6
160 .....	53201	Methylbromide .....	00074-83-9
162 .....	69129	Hyamine 2389 (Methyldodecylbenzyl trimethyl ammonium chloride 80% and methyldodecylxylylene bis (trimethylammoniumchloride) 20%) .....	01399-80-0
163 .....	68102	Methylenebisthiocyanate .....	06317-18-6
164 .....	54101	Quinmethionate .....	02439-01-2
165 .....	108801	Metolachlor .....	51218-45-2
166 .....	44201	Mexacarbate .....	00315-18-4
167 .....	14601	Metiram .....	09006-42-2
168 .....	35502	Monuron TCA .....	00140-41-0
169 .....	35501	Monuron .....	00150-68-5
170 .....	103001	Napropamide .....	15299-99-7
171 .....	80301	Deet .....	00134-62-3
172 .....	14503	Nabam .....	00142-59-6
173 .....	34401	Naled .....	00300-76-5
174 .....	35801	Norea .....	18530-56-8
175 .....	105801	Norflurazon .....	27314-13-2
176 .....	30701	N-1-Naphthalphthalimide .....	05333-99-3
176 .....	30702	Naptalam (N-1-Naphthalphthalamic acid) .....	00132-66-1
176 .....	30703	Naptalam Salts and Esters .....	00132-67-2
177 .....	57001	MGK 264 (N-2-Ethylhexyl bicycloheptene dicarboximide) .....	00136-45-8
178 .....	84301	Benfluralin .....	01861-40-1
179 .....	79501	Sulfotepp .....	03689-24-5
180 .....	79101	Aspon .....	03244-90-4
181 .....	36501	Coumaphos .....	00056-72-4
182 .....	32701	Fensulfothion .....	00115-90-2
183 .....	32501	Disulfoton .....	00298-04-4
184 .....	105901	Fenitrothion .....	00122-14-5
185 .....	59201	Phosmet .....	00732-11-6
186 .....	58001	Azinphos Methyl .....	00086-50-0
187 .....	58702	Oxydemeton methyl .....	00301-12-2
192 .....	( <sup>1</sup> )	Organic-tin pesticides .....	( <sup>1</sup> )
194 .....	104201	Oryzalin .....	19044-88-3
195 .....	103801	Oxamyl .....	23135-22-0
196 .....	111601	Oxyfluorfen .....	42874-03-3
197 .....	111501	Bolstar (Sulprofos) .....	35400-43-2
198 .....	219900	Sulprofos Oxon .....	38527-90-1
199 .....	41801	Santox (O-Ethyl O-(p-nitrophenyl) phenylphosphonothioate) .....	02104-64-5
200 .....	41701	Fonofos .....	00944-22-9

EPA Census Code	Pesticide Code	Pesticide Name	CAS No.
201 .....	47802	Propoxur (o-Isopropylphenylmethylcarbamate) .....	00114-26-1
202 .....	57501	Parathion .....	00056-38-2
203 .....	108501	Pendimethalin .....	40487-42-1
204 .....	56502	Pentachloronitrobenzene .....	00082-68-8
205 .....	63001	Pentachlorophenol .....	00087-86-5
206 .....	63003	Pentachlorophenol Salts and Esters .....	00131-52-2
207 .....	108001	Perfluidone .....	37924-13-3
208 .....	109701	Permethrin .....	52645-53-1
209 .....	98701	Phenmedipham .....	13684-63-4
210 .....	64501	Phenothiazine .....	00092-84-2
211 .....	64103	Phenylphenol .....	00090-43-7
212 .....	57201	Phorate .....	00298-02-2
213 .....	97701	Phosalone .....	02310-17-0
214 .....	18201	Phosphamidon .....	13171-21-6
215 .....	5101	Picloram .....	01918-02-1
215 .....	5104	Picloram Salts and Esters .....	02545-60-0
216 .....	67501	Piperonyl butoxide .....	00051-03-6
217 .....	69183	PBED (Busan 77) (Poly (oxyethylene (dimethylimino) ethylene (dimethylimino) ethylene dichloride) .....	31512-74-0
218 .....	34803	Busan 85 (Potassium dimethyldithiocarbamate) .....	00128-03-0
219 .....	102901	Busan 40 (Potassium N-hydroxymethyl-N-methyldithiocarbamate) .....	51026-28-9
220 .....	39002	KN Methyl (Potassium N-methyldithiocarbamate) .....	00137-41-7
221 .....	101301	Metasol J26 (Potassium N-(alpha-(nitroethyl) benzyl)-ethylenediamine) ..	53404-62-9
222 .....	111401	Profenofos .....	41198-08-7
223 .....	80804	Prometon .....	01610-18-0
224 .....	80805	Prometryn .....	07287-19-6
225 .....	97601	Propargite .....	02312-35-8
226 .....	80808	Propazine .....	00139-40-2
227 .....	77702	Propionic acid .....	00079-09-4
228 .....	119301	Propamocarb and Propamocarb HCL .....	24579-73-5
229 .....	69004	Pyrethrin coils .....	00121-21-1
230 .....	69001	Pyrethrin I .....	
231 .....	69002	Pyrethrum (other than pyrethrins) .....	08003-34-7
232 .....	69006	Pyrethrin II .....	00121-29-9
233 .....	97801	Resmethrin .....	10453-86-8
234 .....	58301	Ronnel .....	00299-84-3
235 .....	71003	Rotenone .....	00083-79-4
236 .....	74801	DEF (S,S,S-Tributyl phosphorotriothioate) .....	00078-48-8
237 .....	35509	Siduron .....	01982-49-6
238 .....	82501	Silvex (2-(2,4,5-Trichlorophenoxypropionic acid)) .....	00093-72-1
238 .....	( <sup>1</sup> )	Silvex Salts and Esters .....	( <sup>1</sup> )
239 .....	80807	Simazine .....	00122-34-9
240 .....	103901	Bentazon .....	25057-89-0
241 .....	34804	Carbam-S (Sodium dimethyldithiocarbanate) .....	00128-04-1

EPA Census Code	Pesticide Code	Pesticide Name	CAS No.
242 .....	75003	Sodium monofluoroacetate .....	00062-74-8
243 .....	39003	Vapam (Sodium methyldithiocarbamate) .....	00137-42-8
244 .....	57101	Sulfoxide .....	00120-62-7
245 .....	41301	Cycloate .....	01134-23-2
246 .....	41401	EPTC (S-Ethyl dipropylthiocarbamate) .....	00759-94-4
247 .....	41402	Molinate .....	02212-67-1
248 .....	41403	Pebulate .....	01114-71-2
249 .....	41404	Vernolate .....	01929-77-7
250 .....	35604	HPTMS (S-(2-Hydroxypropyl) thiomethanesulfonate) .....	29803-57-4
251 .....	9801	Bensulide .....	00741-58-2
252 .....	105501	Tebuthiuron .....	34014-18-1
253 .....	59001	Temephos .....	03383-96-8
254 .....	12701	Terbacil .....	05902-51-2
255 .....	105001	Terbufos .....	13071-79-9
256 .....	80814	Terbutylazine .....	05915-41-3
257 .....	80813	Terbutryn .....	00886-50-0
258 .....	63004	Tetrachlorophenol .....	25167-83-3
258 .....	63007	Tetrachlorophenol Salts and Esters .....	( <sup>1</sup> )
259 .....	35602	Dazomet .....	00533-74-4
260 .....	102001	Thiophanate methyl .....	23564-05-8
261 .....	79801	Thiram .....	00137-26-8
262 .....	80501	Toxaphene .....	08001-35-2
263 .....	74901	Morphos (Tributyl phosphorotri thioate) .....	00150-50-5
264 .....	36101	Trifluralin .....	01582-09-8
265 .....	86002	Warfarin (3-(a-Acetylbenzyl)-4-hydroxycoumarin) .....	00081-81-2
265 .....	( <sup>1</sup> )	Warfarin Salts and Esters .....	( <sup>1</sup> )
266 .....	51705	Zinc MBT (Zinc 2-mercaptobenzothiazolate) .....	00155-04-4
267 .....	14506	Zineb .....	12122-67-7
268 .....	34805	Ziram .....	00137-30-4
269 .....	78802	S-(2,3,3-trichloroallyl) diisopropyl-thiocarbamate .....	02303-17-5
270 .....	69005	Phenothrin .....	26002-80-2
271 .....	69003	Tetramethrin .....	07696-12-0
272 .....	18301	Chloropropham .....	00101-21-3

<sup>1</sup>Multiple compounds for active ingredient.

**Table 2**  
**Organic Pesticide Active Ingredient Effluent Limitations**  
**BAT AND PSES**

Pesticide	kg/kg (lb/1,000 lb) Pounds of pollutant per 1000 lbs. product		Notes
	Daily maximum may not exceed	Monthly average may not exceed	
2,4-D .....	1.97 x 10 <sup>-3</sup>	6.40 x 10 <sup>-4</sup>	
2,4-D Salts and Esters .....	( <sup>1</sup> )	( <sup>1</sup> )	
2,4-DB Salts and Esters .....	( <sup>1</sup> )	( <sup>1</sup> )	
Acephate .....	6.39 x 10 <sup>-4</sup>	1.97 x 10 <sup>-4</sup>	
Acifluorfen .....	2.45	9.30 x 10 <sup>-1</sup>	
Alachlor .....	5.19 x 10 <sup>-3</sup>	1.54 x 10 <sup>-3</sup>	
Aldicarb .....	7.23 x 10 <sup>-4</sup>	3.12 x 10 <sup>-4</sup>	
Ametryn .....	7.72 x 10 <sup>-3</sup>	2.53 x 10 <sup>-3</sup>	
Atrazine .....	5.12 x 10 <sup>-3</sup>	1.72 x 10 <sup>-3</sup>	
Azinphos Methyl .....	2.74 x 10 <sup>-2</sup>	1.41 x 10 <sup>-2</sup>	
Benfluralin .....	3.22 x 10 <sup>-4</sup>	1.09 x 10 <sup>-4</sup>	1
Benomyl and Carbendazim .....	3.50 x 10 <sup>-2</sup>	8.94 x 10 <sup>-3</sup>	2
Bolstar .....	1.69 x 10 <sup>-2</sup>	8.72 x 10 <sup>-3</sup>	
Bromacil .....	3.83 x 10 <sup>-1</sup>	1.16 x 10 <sup>-1</sup>	
Bromacil, lithium .....	( <sup>1</sup> )	( <sup>1</sup> )	
Bromoxynil .....	3.95 x 10 <sup>-3</sup>	1.27 x 10 <sup>-3</sup>	
Bromoxynil octanoate .....	3.95 x 10 <sup>-3</sup>	1.27 x 10 <sup>-3</sup>	
Busan 40 (Potassium N-hydroxymethyl-N-methyldithiocarbamate) .....	5.74 x 10 <sup>-3</sup>	1.87 x 10 <sup>-3</sup>	
Busan 85 (Potassium dimethyldithiocarbamate) .....	5.74 x 10 <sup>-3</sup>	1.87 x 10 <sup>-3</sup>	
Butachlor .....	5.19 x 10 <sup>-3</sup>	1.54 x 10 <sup>-3</sup>	
Captafol .....	4.24 x 10 <sup>-6</sup>	1.31 x 10 <sup>-6</sup>	
Carbam-S (Sodium dimethyldithiocarbamate) .....	5.74 x 10 <sup>-3</sup>	1.87 x 10 <sup>-3</sup>	
Carbaryl .....	1.60 x 10 <sup>-3</sup>	7.30 x 10 <sup>-4</sup>	
Carbofuran .....	1.18 x 10 <sup>-4</sup>	2.80 x 10 <sup>-5</sup>	
Chloroneb .....	8.16 x 10 <sup>-2</sup>	3.31 x 10 <sup>-2</sup>	
Chlorothalonil .....	1.51 x 10 <sup>-3</sup>	4.57 x 10 <sup>-4</sup>	
Chlorpyrifos .....	8.25 x 10 <sup>-4</sup>	2.43 x 10 <sup>-4</sup>	
Cyanazine .....	1.03 x 10 <sup>-2</sup>	3.33 x 10 <sup>-3</sup>	
Dazomet .....	5.74 x 10 <sup>-3</sup>	1.87 x 10 <sup>-3</sup>	
DCPA .....	7.79 x 10 <sup>-2</sup>	2.64 x 10 <sup>-2</sup>	
DEF (S,S,S-Tributyl phosphorotriothioate) .....	1.15 x 10 <sup>-2</sup>	5.58 x 10 <sup>-3</sup>	
Diazinon .....	2.82 x 10 <sup>-3</sup>	1.12 x 10 <sup>-3</sup>	
Dichlorprop Salts and Esters .....	( <sup>1</sup> )	( <sup>1</sup> )	
Dichlorvos .....	9.60 x 10 <sup>-5</sup>	2.95 x 10 <sup>-5</sup>	
Dinoseb .....	4.73	1.43	
Dioxathion .....	3.40 x 10 <sup>-2</sup>	1.29 x 10 <sup>-2</sup>	
Disulfoton .....	7.33 x 10 <sup>-3</sup>	3.79 x 10 <sup>-3</sup>	

Pesticide	kg/kkg (lb/1,000 lb)		Notes
	Daily maximum may not exceed	Pounds of pollutant per 1000 lbs. product	
Diuron .....	$3.15 \times 10^{-2}$	$1.40 \times 10^{-2}$	
Endothall Salts and Esters .....	( <sup>1</sup> )	( <sup>1</sup> )	
Endrin .....	$2.20 \times 10^{-2}$	$5.10 \times 10^{-3}$	
Ethalfuralin .....	$3.22 \times 10^{-4}$	$1.09 \times 10^{-4}$	1
Ethion .....	$5.51 \times 10^{-3}$	$1.57 \times 10^{-3}$	
Fenarimol .....	$1.02 \times 10^{-1}$	$3.61 \times 10^{-2}$	
Fensulfothion .....	$1.48 \times 10^{-2}$	$7.64 \times 10^{-3}$	
Fenthion .....	$1.83 \times 10^{-2}$	$9.45 \times 10^{-3}$	
Fenvalerate .....	$5.40 \times 10^{-3}$	$2.08 \times 10^{-3}$	
Heptachlor .....	$8.80 \times 10^{-3}$	$2.90 \times 10^{-3}$	
Isopropalin .....	$7.06 \times 10^{-3}$	$2.49 \times 10^{-3}$	1
KN Methyl (Potassium N-methyldithiocarbamate) .....	$5.74 \times 10^{-3}$	$1.87 \times 10^{-3}$	
Linuron .....	$2.69 \times 10^{-3}$	$1.94 \times 10^{-3}$	
Malathion .....	$2.35 \times 10^{-4}$	$9.55 \times 10^{-5}$	
MCPA Salts and Esters .....	( <sup>1</sup> )	( <sup>1</sup> )	
MCPP Salts and Esters .....	( <sup>1</sup> )	( <sup>1</sup> )	
Merphos .....	$1.15 \times 10^{-2}$	$5.58 \times 10^{-3}$	
Methamidophos .....	$1.46 \times 10^{-2}$	$7.53 \times 10^{-2}$	
Methomyl .....	$3.82 \times 10^{-3}$	$1.76 \times 10^{-3}$	
Methoxychlor .....	$3.23 \times 10^{-3}$	$1.31 \times 10^{-3}$	
Metribuzin .....	$1.36 \times 10^{-2}$	$7.04 \times 10^{-3}$	
Mevinphos .....	$1.44 \times 10^{-4}$	$5.10 \times 10^{-5}$	
Nabam .....	$5.74 \times 10^{-3}$	$1.87 \times 10^{-3}$	
Nabonate .....	$5.74 \times 10^{-3}$	$1.87 \times 10^{-3}$	
Naled .....	( <sup>1</sup> )	( <sup>1</sup> )	
Norflurazon .....	$7.20 \times 10^{-4}$	$3.10 \times 10^{-4}$	
Organotin pesticides .....	$1.72 \times 10^{-2}$	$7.42 \times 10^{-3}$	3
Parathion .....	$7.72 \times 10^{-4}$	$3.43 \times 10^{-4}$	
Parathion methyl .....	$7.72 \times 10^{-4}$	$3.43 \times 10^{-4}$	
PCNB .....	$5.75 \times 10^{-4}$	$1.90 \times 10^{-4}$	
Pendimethalin .....	$1.17 \times 10^{-2}$	$3.62 \times 10^{-3}$	
Pernetgrub .....	$2.32 \times 10^{-3}$	$6.06 \times 10^{-5}$	
Phorate .....	$3.12 \times 10^{-4}$	$9.37 \times 10^{-5}$	
Phosmet .....	( <sup>1</sup> )	( <sup>1</sup> )	4
Prometon .....	$7.72 \times 10^{-3}$	$2.53 \times 10^{-3}$	
Prometryn .....	$7.72 \times 10^{-3}$	$2.53 \times 10^{-3}$	
Pronamide .....	$6.64 \times 10^{-4}$	$2.01 \times 10^{-4}$	
Propachlor .....	$5.19 \times 10^{-3}$	$1.54 \times 10^{-3}$	
Propanil .....	$1.06 \times 10^{-3}$	$4.84 \times 10^{-4}$	
Propazine .....	$7.72 \times 10^{-3}$	$2.53 \times 10^{-3}$	

Pesticide	kg/kkg (lb/1,000 lb) Pounds of pollutant per 1000 lbs. product		Notes
	Daily maximum may not exceed	Monthly average may not exceed	
Pyrethrin I and Pyrethrin II .....	1.24 x 10 <sup>-2</sup>	3.33 x 10 <sup>-3</sup>	
Simazine .....	7.72 x 10 <sup>-3</sup>	2.53 x 10 <sup>-3</sup>	
Stirofos .....	4.10 x 10 <sup>-3</sup>	1.35 x 10 <sup>-3</sup>	
TCMTB .....	3.89 x 10 <sup>-3</sup>	1.05 x 10 <sup>-3</sup>	
Tebuthiuron .....	9.78 x 10 <sup>-2</sup>	3.40 x 10 <sup>-2</sup>	
Terbacil .....	3.83 x 10 <sup>-1</sup>	1.16 x 10 <sup>-1</sup>	
Terbufos .....	4.92 x 10 <sup>-4</sup>	1.26 x 10 <sup>-4</sup>	
Terbutylazine .....	7.72 x 10 <sup>-3</sup>	2.53 x 10 <sup>-3</sup>	
Terbutryn .....	7.72 x 10 <sup>-3</sup>	2.53 x 10 <sup>-3</sup>	
Toxaphene .....	1.02 x 10 <sup>-2</sup>	3.71 x 10 <sup>-3</sup>	
Triadimefon .....	6.52 x 10 <sup>-2</sup>	3.41 x 10 <sup>-2</sup>	
Trifluralin .....	3.22 x 10 <sup>-4</sup>	1.09 x 10 <sup>-4</sup>	1
Vapam (Sodium methyldithiocarbamate) .....	5.74 x 10 <sup>-3</sup>	1.87 x 10 <sup>-3</sup>	
Ziram (Zinc dimethyldithiocarbanate) .....	5.74 x 10 <sup>-3</sup>	1.87 x 10 <sup>-3</sup>	

<sup>1</sup>No discharge of process wastewater pollutants.

Notes:

- 1 Monitor and report as total Trifluralin.
- 2 Pounds of product include Benomyl and any Carbendazim production not converted to Benomyl.
- 3 Monitor and report as total tin.
- 4 Applies to purification by recrystallization portion of the process.

**Table 3**  
**Organic Pesticide Active Ingredient Effluent Limitations**  
**NSPS and PSNS**

Pesticide	kg/kkg (lb/1,000 lb) Pounds of pollutant per 1000 lbs. product		
	Daily maximum may not exceed	Monthly average may not exceed	Notes
2,4-D .....	1.42 x 10 <sup>-3</sup>	4.61 x 10 <sup>-4</sup>	
2,4-D Salts and Esters .....	( <sup>1</sup> )	( <sup>1</sup> )	
2,4-DB Salts and Esters .....	( <sup>1</sup> )	( <sup>1</sup> )	
Acephate .....	6.39 x 10 <sup>-4</sup>	1.97 x 10 <sup>-4</sup>	
Acifluorfen .....	1.77	6.69 x 10 <sup>-1</sup>	
Alachlor .....	3.74 x 10 <sup>-3</sup>	1.11 x 10 <sup>-3</sup>	
Aldicarb .....	5.21 x 10 <sup>-4</sup>	2.25 x 10 <sup>-4</sup>	
Ametryn .....	5.56 x 10 <sup>-3</sup>	1.82 x 10 <sup>-3</sup>	
Atrazine .....	3.69 x 10 <sup>-3</sup>	1.24 x 10 <sup>-3</sup>	
Benfluralin .....	3.22 x 10 <sup>-4</sup>	1.09 x 10 <sup>-4</sup>	1
Benomyl and Carbendazom .....	2.52 x 10 <sup>-2</sup>	6.44 x 10 <sup>-3</sup>	2
Bolstar .....	1.22 x 10 <sup>-2</sup>	6.28 x 10 <sup>-3</sup>	
Bromacil .....	2.76 x 10 <sup>-1</sup>	8.36 x 10 <sup>-2</sup>	
Bromacil, lithium .....	( <sup>1</sup> )	( <sup>1</sup> )	
Bromoxynil .....	2.84 x 10 <sup>-3</sup>	9.14 x 10 <sup>-4</sup>	
Bromoxynil Octanoate .....	2.84 x 10 <sup>-3</sup>	9.14 x 10 <sup>-4</sup>	
Busan 40 (Potassium N-hydroxymethyl-N-methyldithiocarbamate) .....	4.14 x 10 <sup>-3</sup>	1.35 x 10 <sup>-3</sup>	
Busan 85 (Potassium dimethyldithiocarbamate) .....	4.14 x 10 <sup>-3</sup>	1.35 x 10 <sup>-3</sup>	
Butachlor .....	3.74 x 10 <sup>-3</sup>	1.11 x 10 <sup>-3</sup>	
Captafol .....	4.24 x 10 <sup>-6</sup>	1.31 x 10 <sup>-6</sup>	
Carbam-S (Sodium dimethyldithiocarbanate) .....	4.14 x 10 <sup>-3</sup>	1.35 x 10 <sup>-3</sup>	
Carbaryl .....	1.18 x 10 <sup>-3</sup>	5.24 x 10 <sup>-4</sup>	
Carbofuran .....	1.18 x 10 <sup>-4</sup>	2.80 x 10 <sup>-5</sup>	
Chloroneb .....	5.87 x 10 <sup>-2</sup>	2.39 x 10 <sup>-2</sup>	
Chlorothalonil .....	1.09 x 10 <sup>-3</sup>	3.29 x 10 <sup>-4</sup>	
Chlorpyrifos .....	5.94 x 10 <sup>-4</sup>	1.75 x 10 <sup>-4</sup>	
Cyanazine .....	7.42 x 10 <sup>-3</sup>	2.40 x 10 <sup>-3</sup>	
Dazomet .....	4.14 x 10 <sup>-3</sup>	1.35 x 10 <sup>-3</sup>	
DCPA .....	5.61 x 10 <sup>-2</sup>	1.90 x 10 <sup>-2</sup>	
DEF (S,S,S-Tributyl phosphorotrithioate) .....	1.15 x 10 <sup>-2</sup>	5.58 x 10 <sup>-3</sup>	
Diazinon .....	2.05 x 10 <sup>-3</sup>	8.13 x 10 <sup>-4</sup>	
Dichlorprop Salts and Esters .....	( <sup>1</sup> )	( <sup>1</sup> )	
Dichlorvos .....	6.88 x 10 <sup>-5</sup>	2.13 x 10 <sup>-5</sup>	
Dinoseb .....	3.41	1.03	
Dioxathion .....	2.54 x 10 <sup>-2</sup>	9.31 x 10 <sup>-3</sup>	
Disulfoton .....	5.28 x 10 <sup>-3</sup>	2.72 x 10 <sup>-3</sup>	
Diuron .....	2.27 x 10 <sup>-2</sup>	1.01 x 10 <sup>-2</sup>	

Pesticide	kg/kkg (lb/1,000 lb) Pounds of pollutant per 1000 lbs. product		
	Daily maximum may not exceed	Monthly average may not exceed	Notes
Endothall Salts and Esters .....	( <sup>1</sup> )	( <sup>1</sup> )	
Endrin .....	1.57 x 10 <sup>-2</sup>	3.69 x 10 <sup>-3</sup>	
Ethalfluralin .....	3.22 x 10 <sup>-4</sup>	1.09 x 10 <sup>-4</sup>	1
Ethion .....	3.97 x 10 <sup>-3</sup>	1.33 x 10 <sup>-3</sup>	
Fenarimol .....	1.02 x 10 <sup>-1</sup>	3.61 x 10 <sup>-2</sup>	
Fensulfothion .....	1.06 x 10 <sup>-2</sup>	5.50 x 10 <sup>-3</sup>	
Fenthion .....	1.32 x 10 <sup>-2</sup>	6.79 x 10 <sup>-3</sup>	
Fenvalerate .....	3.91 x 10 <sup>-3</sup>	1.50 x 10 <sup>-3</sup>	
Guthion .....	1.97 x 10 <sup>-2</sup>	1.02 x 10 <sup>-2</sup>	
Heptachlor .....	6.31 x 10 <sup>-3</sup>	2.06 x 10 <sup>-3</sup>	
Isopropalin .....	5.07 x 10 <sup>-3</sup>	1.82 x 10 <sup>-3</sup>	
KN Methyl (Potassium N-methyldithiocarbamate) ....	4.14 x 10 <sup>-3</sup>	1.35 x 10 <sup>-3</sup>	
Linuron .....	1.94 x 10 <sup>-3</sup>	1.40 x 10 <sup>-3</sup>	
Malathion .....	1.69 x 10 <sup>-4</sup>	6.88 x 10 <sup>-5</sup>	
MCPA Salts and Esters .....	( <sup>1</sup> )	( <sup>1</sup> )	
MCPP Salts and Esters .....	( <sup>1</sup> )	( <sup>1</sup> )	
Merphos .....	1.15 x 10 <sup>-2</sup>	5.58 x 10 <sup>-3</sup>	
Methamidophos .....	1.05 x 10 <sup>-2</sup>	5.42 x 10 <sup>-3</sup>	
Methomyl .....	2.75 x 10 <sup>-2</sup>	1.27 x 10 <sup>-3</sup>	
Methoxychlor .....	2.34 x 10 <sup>-3</sup>	9.25 x 10 <sup>-4</sup>	
Metribuzin .....	9.80 x 10 <sup>-3</sup>	5.06 x 10 <sup>-3</sup>	
Mevinphos .....	1.03 x 10 <sup>-4</sup>	3.69 x 10 <sup>-5</sup>	
Nabam .....	4.14 x 10 <sup>-3</sup>	1.35 x 10 <sup>-3</sup>	
Nabonate .....	4.14 x 10 <sup>-3</sup>	1.35 x 10 <sup>-3</sup>	
Naled .....	( <sup>1</sup> )	( <sup>1</sup> )	
Norflurazon .....	7.20 x 10 <sup>-4</sup>	3.10 x 10 <sup>-4</sup>	
Organotin pesticides .....	1.25 x 10 <sup>-2</sup>	5.36 x 10 <sup>-3</sup>	3
Parathion Ethyl .....	5.56 x 10 <sup>-4</sup>	2.45 x 10 <sup>-4</sup>	
Parathion Methyl .....	5.56 x 10 <sup>-4</sup>	2.45 x 10 <sup>-4</sup>	
PCNB .....	4.16 x 10 <sup>-4</sup>	1.38 x 10 <sup>-4</sup>	
Pendimethalin .....	1.17 x 10 <sup>-2</sup>	3.62 x 10 <sup>-3</sup>	
Permethrin .....	1.68 x 10 <sup>-4</sup>	4.39 x 10 <sup>-5</sup>	
Phorate .....	3.12 x 10 <sup>-4</sup>	9.37 x 10 <sup>-5</sup>	
Phosmet .....	( <sup>1</sup> )	( <sup>1</sup> )	4
Prometon .....	5.56 x 10 <sup>-3</sup>	1.82 x 10 <sup>-3</sup>	
Prometryn .....	5.56 x 10 <sup>-3</sup>	1.82 x 10 <sup>-3</sup>	
Pronamide .....	4.78 x 10 <sup>-4</sup>	1.45 x 10 <sup>-4</sup>	
Propachlor .....	3.74 x 10 <sup>-3</sup>	1.11 x 10 <sup>-3</sup>	
Propanil .....	7.63 x 10 <sup>-4</sup>	3.48 x 10 <sup>-4</sup>	
Propazine .....	5.56 x 10 <sup>-3</sup>	1.82 x 10 <sup>-3</sup>	

Pesticide	kg/kkg (lb/1,000 lb) Pounds of pollutant per 1000 lbs. product		
	Daily maximum may not exceed	Monthly average may not exceed	Notes
Pyrethrin I and Pyrethrin II .....	8.91 x 10 <sup>-3</sup>	2.40 x 10 <sup>-3</sup>	
Simazine .....	5.89 x 10 <sup>-3</sup>	1.91 x 10 <sup>-3</sup>	
Stirofos .....	2.95 x 10 <sup>-3</sup>	9.72 x 10 <sup>-4</sup>	
TCMTB .....	2.80 x 10 <sup>-9</sup>	7.54 x 10 <sup>-4</sup>	
Tebuthiuron .....	9.78 x 10 <sup>-2</sup>	3.41 x 10 <sup>-2</sup>	
Terbacil .....	2.76 x 10 <sup>-1</sup>	8.36 x 10 <sup>-2</sup>	
Terbufos .....	4.92 x 10 <sup>-4</sup>	1.26 x 10 <sup>-4</sup>	
Terbutylazine .....	5.56 x 10 <sup>-3</sup>	1.82 x 10 <sup>-3</sup>	
Terbutryn .....	5.56 x 10 <sup>-3</sup>	1.82 x 10 <sup>-3</sup>	
Toxaphene .....	7.35 x 10 <sup>-3</sup>	2.67 x 10 <sup>-3</sup>	
Triadimefon .....	4.69 x 10 <sup>-2</sup>	2.46 x 10 <sup>-2</sup>	
Trifluralin .....	3.22 x 10 <sup>-4</sup>	1.09 x 10 <sup>-4</sup>	1
Vapam (Sodium methyldithiocarbamate) .....	4.14 x 10 <sup>-3</sup>	1.35 x 10 <sup>-3</sup>	
Ziram (Zinc dimethyldithiocarbanate) .....	4.14 x 10 <sup>-3</sup>	1.35 x 10 <sup>-3</sup>	

<sup>1</sup>No discharge of process wastewater pollutants.

Notes:

1 Monitor and report as total Trifluralin.

2 Pounds of product include Benomyl and any Carbendazim production not converted to Benomyl.

3 Monitor and report as total tin.

4 Applies to purification by recrystallization portion of the process.

**Table 4**  
**BAT and NSPS effluent Limitations for Priority Pollutants For Direct Discharge**  
**Point Sources That Use End-of-Pipe Biological Treatment**

Pollutant	(Micrograms per liter ( $\mu\text{g/l}$ ))	
	Daily maximum may not exceed	Monthly average may not exceed
1,1-Dichloroethylene . . . . .	25	16
1,1,1-Trichloroethane . . . . .	54	21
1,2-Dichloroethane . . . . .	211	68
1,2-Dichloropropane . . . . .	230	153
1,2-Dichlorobenzene . . . . .	163	77
1,2-trans-Dichloroethylene . . . . .	54	21
1,3-Dichloropropene . . . . .	44	29
1,4-Dichlorobenzene . . . . .	28	15
2-chlorophenol . . . . .	98	31
2,4-Dichlorophenol . . . . .	112	39
2,4-Dimethylphenol . . . . .	36	18
Benzene . . . . .	136	37
Bromodichloromethane . . . . .	380	142
Bromomethane . . . . .	380	142
Chlorobenzene . . . . .	28	15
Chloromethane . . . . .	190	86
Cyanide (Total) . . . . .	640	220
Dibromochloromethane . . . . .	794	196
Dichloromethane . . . . .	89	40
Ethylbenzene . . . . .	108	32
Lead (Total) . . . . .	690	320
Naphthalene . . . . .	59	22
Phenol . . . . .	26	15
Tetrachloroethylene . . . . .	56	22
Tetrachloromethane . . . . .	38	18
Toluene . . . . .	80	26
Tribromomethane . . . . .	794	196
Trichloromethane . . . . .	46	21

**Table 5**  
**BAT and NSPS Effluent Limitations for Priority Pollutants For Direct Discharge**  
**Point Sources That Do Not Use End-of-Pipe Biological Treatment**

Pollutant	(Micrograms per liter ( $\mu\text{g/l}$ ))	
	Daily maximum may not exceed	Monthly average may not exceed
1,1-Dichloroethylene .....	60	22
1,1,1-Trichloroethane .....	59	22
1,2-trans-Dichloroethylene .....	66	25
1,2-Dichlorobenzene .....	794	196
1,2-Dichloropropane .....	794	196
1,2-Dichloroethane .....	574	180
1,3-Dichloropropene .....	794	196
1,4-Dichlorobenzene .....	380	142
2,4-Dimethylphenol .....	47	19
Benzene .....	134	57
Bromodichloromethane .....	380	142
Bromomethane .....	380	142
Chlorobenzene .....	380	142
Chloromethane .....	295	110
Cyanide (Total) .....	640	220
Dibromochloromethane .....	794	196
Dichloromethane .....	170	36
Ethylbenzene .....	380	142
Lead (Total) .....	690	320
Naphthalene .....	47	19
Phenol .....	47	19
Tetrachloroethylene .....	164	52
Tetrachloromethane .....	380	142
Toluene .....	74	28
Tribromomethane .....	794	196
Trichloromethane .....	325	111

**Table 6**  
**PSES and PSNS For Priority Pollutants**

Pollutant	(Micrograms per liter ( $\mu\text{g/l}$ ))	
	Daily maximum may not exceed	Monthly average may not exceed
1,1-Dichloroethylene .....	60	22
1,1,1-Trichloroethane .....	59	22
1,2-trans-Dichloroethylene .....	66	25
1,2-Dichlorobenzene .....	794	196
1,2-Dichloropropane .....	794	196
1,2-Dichloroethane .....	574	180
1,3-Dichloropropene .....	794	196
1,4-Dichlorobenzene .....	380	142
Benzene .....	134	57
Bromodichloromethane .....	380	142
Bromomethane .....	380	142
Chlorobenzene .....	380	142
Chloromethane .....	295	110
Cyanide (Total) .....	640	220
Dibromochloromethane .....	794	196
Dichloromethane .....	170	36
Ethylbenzene .....	380	142
Lead (Total) .....	690	320
Naphthalene .....	47	19
Tetrachloroethylene .....	164	52
Tetrachloromethane .....	380	142
Toluene .....	74	28
Tribromomethane .....	794	196
Trichloromethane .....	325	111

**Table 7**  
**Test Methods For Pesticide Active Ingredients**

EPA Survey Code	Pesticide Name	CAS. No.	EPA Analytical Method No.(s)
8	Triadimefon	43121-43-3	507/633/525.1/1656
12	Dichlorvos	00062-73-7	1657/507/622/525.1
16	2,4-D; 2,4-D Salts and Esters (2,4-Dichlorophenoxyacetic acid)	00094-75-7	1658/515.1/615/515.2/555
17	2,4-DB; 2,4-DB Salts and Esters (2,4-Dichlorophenoxybutyric acid)	00094-82-6	1658/515.1/615/515.2/555
22	Mevinphos	07786-34-7	1657/507/622/525.1
25	Cyanazine	21725-46-2	629/507
26	Propachlor	01918-16-7	1656/508/608.1/525.1
27	MCPA; MCPA Salts and Esters (2-Methyl-4-chlorophenoxy-acetic acid)	0094-74-6	1658/615/555
30	Dichlorprop; Dichlorprop Salts and Esters (2-(2,4-Dichlorophenoxy) propionic acid)	00120-36-5	1658/515.1/615/515.2/555
31	MCPP; MCPP Salts and Esters (2-(2-Methyl-4-chlorophenoxy) propionic acid)	00093-65-2	1658/615/555
35	TCMTB (2-(Thiocyanomethylthio) benzothiazole)	21564-17-0	637
39	Pronamide	23950-58-5	525.1/507/633.1
41	Propanil	00709-98-8	632.1/1656
45	Metribuzin	21087-64-9	507/633/525.1/1656
52	Acephate	30560-19-1	1656/1657
53	Acifluorfen	50594-66-6	515.1/515.2/555
54	Alachlor	15972-60-8	505/507/645/525.1/1656
55	Aldicarb	00116-06-3	531.1
58	Ametryn	00834-12-8	507/619/525.1
60	Atrazine	01912-24-9	505/507/619/525.1/1656
62	Benomyl	17804-35-2	631
68	Bromacil; Bromacil Salts and Esters	00314-40-9	507/633/525.1/1656
69	Bromoxynil	01689-84-5	1625/1661
69	Bromoxynil octanoate	01689-99-2	1656
70	Butachlor	23184-66-9	507/645/525.1/1656
73	Captafol	02425-06-1	1656
75	Carbaryl (Sevin)	00063-25-2	531.1/632/553
76	Carbofuran	01563-66-2	531.1/632
80	Chloroneb	02675-77-6	1656/508/608.1/525.1
82	Chlorothalonil	01897-45-6	508/608.2/525.1/1656
84	Stirofos	00961-11-5	1657/507/622/525.1

EPA Survey Code	Pesticide Name	CAS. No.	EPA Analytical Method No.(s)
86	Chlorpyrifos	02921-88-2	1657/508/622
90	Fenvalerate	51630-58-1	1660
103	Diazinon	00333-41-5	1657/507/614/622/525.1
107	Parathion methyl	00298-00-0	1657/614/622
110	DCPA (Dimethyl 2,3,5,6-tetrachloroterephthalate)	01861-32-1	508/608.2/525.1/515.1 515.2/1656
112	Dinoseb	00088-85-7	1658/515.1/615/515.2/555
113	Dioxathion	00078-34-2	657/614.1
118	Nabonate (Disodium cyanodithiomidocarbonate)	00138-93-2	630.1
119	Diuron	00330-54-1	632/553
123	Endothall	00145-73-3	548/548.1
124	Endrin	00072-20-8	1656/505/508/608/617/525.1
125	Ethalfluralin	55283-68-6	<sup>1</sup> 1656/ <sup>1</sup> 627
126	Ethion	00563-12-2	1657/614/614.1
127	Ethoprop	13194-48-4	1657/507/622/525.1
132	Fenarimol	60168-88-9	507/633.1/525.1/1656
133	Fenthion	00055-38-9	1657/622
138	Glyphosate (N-(Phosphonomethyl) glycine)	01071-83-6	547
140	Heptachlor	00076-44-8	1656/505/508/608/617/525.1
144	Isopropalin	33820-53-0	1656/627
148	Linuron	00330-55-2	553/632
150	Malathion	00121-75-5	1657/614
154	Methamidophos	10265-92-6	1657
156	Methomyl	16752-77-5	531.1/632
158	Methoxychlor	00072-43-5	1656/505/508/608.2/617/525.1
172	Nabam	00142-59-6	630/630.1
173	Naled	00300-76-5	1657/622
175	Norflurazon	27314-13-2	507/645/525.1/1656
178	Benfluralin	01861-40-1	<sup>1</sup> 1656/ <sup>1</sup> 627
182	Fensulfothion	00115-90-2	1657/622
183	Disulfoton	00298-04-4	1657/507/614/622/525.1
185	Phosmet	00732-11-6	1657/622.1
186	Azinphos Methyl	00086-50-0	1657/614/622
192	Organic-tin pesticides	12379-54-3	Ind-01/200.7/200.9
197	Bolstar	35400-43-2	1657/622
203	Parathion	00056-38-2	1657/614

EPA Survey Code	Pesticide Name	CAS. No.	EPA Analytical Method No.(s)
204	Pendimethalin	40487-42-1	1656
205	Pentachloronitrobenzene	00082-68-8	1656/608.1/617
206	Pentachlorophenol	00087-86-5	625/1625/515.2/555 515.1/525.1
208	Permethrin	52645-53-1	608.2/508/525.1/1656/1660
212	Phorate	00298-02-2	1657/622
218	Busan 85 (Potassium dimethyldithiocarbamate)	00128-03-0	630/630.1
219	Busan 40 (Potassium N-hydroxy-methyl-N-methyldithiocarbamate)	51026-28-9	630/630.1
220	KN Methyl (Potassium N-methyldithiocarbamate)	00137-41-7	630/630.1
223	Prometon	01610-18-0	507/619/525.1
224	Prometryn	07287-19-6	507/619/525.1
226	Propazine	00139-40-2	507/619/525.1/1656
230	Pyrethrin I	00121-21-1	1660
232	Pyrethrin II	00121-29-9	1660
236	DEF (S,S,S-Tributylphosphorotrithioate)	00078-48-8	1657
239	Simazine	00122-34-9	505/507/619/525.1/1656
241	Carbam-S (Sodium dimethyldithiocarbamate)	00128-04-1	630/630.1
243	Vapam (Sodium methyldithiocarbamate)	00137-42-8	630/630.1
252	Tebuthiuron	34014-18-1	507/525.1
254	Terbacil	05902-51-2	507/633/525.1/1656
255	Terbufos	13071-79-9	1657/507/614.1/525.1
256	Terbutylazine	05915-41-3	619/1656
257	Terbutryn	00886-50-0	507/619/525.1
259	Dazomet	00533-74-4	630/630.1/1659
262	Toxaphene	08001-35-2	1656/505/508/608/617/525.1
263	Merphos (Tributyl phosphorotrithioate)	00150-50-5	1657/507/525.1/622
264	Trifluralin	01582-09-8	1656/508/617/627/525.1
268	Ziram (Zinc dimethyldithiocarbamate)	00137-30-4	630/630.1

<sup>1</sup>Monitor and report as total Trifluralin.

**Note:** The Wisconsin administrative code corresponds to the code of federal regulations according to the following table:

State Code	Code of Federal Regulations
s. NR 205.03	40 CFR 401.11
s. NR 205.04	40 CFR 401.11
ch. NR 211	40 CFR Part 403
s. NR 211.03	40 CFR 403.3
s. NR 211.13	40 CFR 403.7
s. NR 215.03	40 CFR Part 423, Appendix A
ch. NR 219	40 CFR Part 136
ch. NR 233	40 CFR Part 455