

MEMORANDUM

TO: Falmouth Conservation Commission
FROM: Joe Costa, Executive Director
DATE: January 20, 1998
RE: Reference Information on Pesticides

Below is a list of pesticide used by the Handy Trust on Town-owned bogs for 1995 as reported to the Falmouth Conservation Commission. Also included here is label information, UMass Cranberry Experiment Station recommendations, and data from EPA's pesticide website. I have prepared this summary to better identify pesticide management issues relating to our joint DEP 319 Program grant relating to the remediation of your cranberry bogs.

Please note that pesticides used in previous or subsequent years may be different than those shown. Pesticide labels generally include the statement "It is a violation of Federal law to use this product in a manner inconsistent with its labeling." Application restrictions for some pesticides below were not included because they were not available at the time I prepared this correspondence.

<u>Name</u>	<u>O.Spray Code</u>	<u>Application Method</u>	<u>Use and manufacturer</u>
Roundup	320	Wiping application	Herbicide
Cosoron	300	Ground applied	Herbicide
Terranil	582	Sprinkler System	Fungicide (fairy ring)
Carbamate	540	Sprinkler	Fungicide (for fruit rot)
Sevin 805	222	Sprinkler	Insecticide, Rhone & Poulenc
Sevin XLR	221	Sprinkler	Insecticide, Rhone & Poulenc
Lorsban	180	Sprinkler	Insecticide, DowElanco
Dithane DF	567	Sprinkler	Fungicide (fruit rot), Rohm& Haas
Orthene 75S	270	Sprinkler	Insecticide

“ROUNDUP” PC Code: 103601 CAS REG. NO. 38641-94-0
Common Name: GLYPHOSATE, ISOPROPYLAMINE SALT
Synonyms: GLYCINE, N-(PHOSPHONOMETHYL)-, COMPD. WITH 2-PROPANAMINE (1:1), ISOPROPYLAMINE SALT OF N-(PHOSPHONOMETHYL) GLYCINE, PHOSPHONOMETHYLGLYCINE, ISOPROPYLAMINE SALT
Trade Names: ROUNDUP, CP 70139, GLYCEL, GLIFONOX, RODEO, RONDO, MON 39, MON 139
Scientific Name: ISOPROPYLAMINE GLYPHOSATE (N-(PHOSPHONOMETHYL)GLYCINE)

Use Restrictions: UMass CES: Can only be applied by wiping. Do not apply if rainfall expected within 6 hours. Label information not obtained.

“LORSBAN” 4E PC Code: 059101 CAS REG. NO. 2921-88-2 IRIS Numbers (for CAS #): 0026
Common Name: CHLORPYRIFOS (ANSI)
Synonyms: PYRINDOL, 3,5,6-TRICHLORO-, O-ESTER WITH O,O-DIETHYL PHOSPHOROTHIOATE PHOSPHOROTHIOIC ACID, O,O-DIETHYL O-(3,5,6-TRICHLORO-2-PYRIDYL) ESTER DIETHYL- O-(3,5,6-TRICHLORO-2-PYRIDINYL) PHOSPHOROTHIOATE CHLORPYRIFOS-ETHYL
Trade Names: DURSBAN, LORSBAN, TRICHLORPYRPHOS, DOWCO 179, DURSBANK 6 (059101+069001+063501+067501+057001), SUPER I.Q.A.P.T., ENT 27311, DURSBAN F, DURSBAN 4E, KILLMASTER, OMS 971, BRODAN, ERADEX, DETMOL U.A., PYRINEX, DURSBAN HF
Scientific Name: DIETHYL O-(3,5,6-TRICHLORO-2-PYRIDYL) PHOSPHOROTHIOATE

Use Restrictions: UMass CES: Impound water for 5 days then release gradually. Do not apply more than twice per season. Label: Toxic to birds and wildlife, Extremely toxic to fish. Do not apply directly to water, to areas where surface water is present... Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. Highly toxic to bees. Restricted to 2 applications per year.

“DITHANE” DF PC Code: 014506 CAS REG. NO. 12122-67-7 IRIS Numbers (related by CAS #): 0204
Common Name: ZINEB
Synonym(s): ETHYLENEBIS(DITHIOCARBAMIC ACID), ZINC SALT EBDC, ZINC SALT CARBAMODITHIOIC ACID, 1,2-ETHANEDIYLBIS-, ZINC SALT
Trade Names: LONACOL, DITHANE Z-78
Scientific Name: ZINC ETHYLENEBIS(DITHIOCARBAMATE)

Restrictions on use: Label-Toxic to fish and hazardous to aquatic organisms, do not apply to surface waters or where surface waters are present.

“CARBAMATE” PC Code: 034801 CAS REG. NO. 14484-64-1
Common Name: FERBAM
Synonyms: CARBAMIC ACID, DIMETHYLTHIO-, IRON(3+) SALT
TRIS(DIMETHYLDITHIOCARBAMATO) IRON, FERBAME, CARBAMODITHIOIC ACID,
DIMETHYL-, IRON COMPLEX, IRON, TRIS(DIMETHYLCARBAMODITHIOATO-S,S')-,
(OC-6-11)-
Trade Names: FERMATE, CARBAMATE
Scientific Name: FERRIC DIMETHYLDITHIOCARBAMATE

Use restrictions: Umass CES: Maximum 5 uses per season. Label data not obtained.

CHLOROTHALONIL Products PC Code: 081901 CAS REG. NO. 1897-45-6 IRIS Numbers (by CAS #): 0143
(Includes Terranil)
Common Name: CHLOROTHALONIL
Synonyms: TETRACHLORO-1,3-DICYANOBENZENE, BENZENEDICARBONITRILE,
2,4,5,6-TETRACHLORO- (CA INDEX NAME)
Trade Names: DACONIL 2787, FORTURF, BRAVO, EXOTHERM TERMIL, TUFFCIDE
Scientific Name: TETRACHLOROISOPHTHALONITRILE

Use Restrictions: Umass-“Restricted use”. Permission needed in Zone II public water supplies, maximum 3 applications allowed, 48 hours restricted entry, do not release irrigation water for 3 days. Label:”This product is toxic to fish, aquatic invertebrates, and marine/estuarine organisms. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not apply directly to water, to where areas where surface waters are present, or to intertidal areas below the high water mark....Do not contaminate water when disposing of equipment washers. Do not apply when weather conditions favor drift from treated areas.

“ORTHENE 75S”

PC Code: 103301 CAS REG. NO. 30560-19-1

IRIS Number: 0354

Common Name: ACEPHATE (ANSI)

Synonyms: PHOSPHORAMIDOTHIOIC ACID, N-ACETYL-, O,S-DIMETHYL ESTER
ACETYLPHOSPHORAMIDOTHIOIC ACID, O,S-DIMETHYL ESTER

Trade Names: ORTHENE, ENT-27822, ORTHO 12420, ORTHENE-755, ORTRAN, KITRON, RE 12420,
ASATAF

Scientific Name: DIMETHYL ACETYLPHOSPHORAMIDOTHIOATE

Use Restrictions: UMass CES: only one post bloom spray allowed, twice per season. 24 hour restricted entry. Label information not obtained.

“CASORON” PC Code: 027401 CAS REG. NO. 1194-65-6

Common Name: DICHLOBENIL

Synonym: DCBN

Trade Names: CASORON, PREFIXD, NIA 5996, H 133, DU-SPREX, NOROSAC

Scientific Name: DICHLOROBENZONITRILE

Use Restrictions: Not obtained.

“SEVIN 80S SEVIN XLR”

PC Code: 056801 CAS REG. NO. 63-25-2

IRIS Numbers (related by CAS #):
0019

Common Name: CARBARYL (ANSI)

Synonyms: NAPHTHYLMETHYLCARBAMATE, CARBAMIC ACID, METHYL-, 1-NAPHTHYL ESTER,
METHYLCARBAMATE 1-NAPHTHALENOL, METHYLCARBAMATE 1-NAPHTHOL,
METHYLCARBAMIC ACID, 1-NAPHTHYL ESTER,
METHYL-ALPHA-NAPHTHYLURETHAN

Trade Names: SEVIN, CARBATOX, CARBAMINE, CEKUBARYL, DENAPON, DEVICARB, DICARBAM,
TERCYL, UC-7744, OMS 29, PANAM, SEVIMOL, HEXAVIN, KARBASPRAY, NAC, RAVYON,
SEPTENE, TRICARNAM, CARPOLIN, SAVIT

Scientific Name: NAPHTHYL-N-METHYLCARBAMATE

Use Restrictions: Restricted entry for 12 hours, UMassCES: Spray at night to minimize bee toxicity if there is adjacent flowering upland area. Sevin XLR is formulated to minimize bee toxicity. Label: “This product is extremely toxic to aquatic and estuarine invertebrates. For terrestrial use, do not apply directly to water or where surface water is present, or to intertidal areas below the high water mark. Discharge from rice fields may kill aquatic and estuarine invertebrates. Do not apply when weather conditions favor drift from the treated areas. May kill honeybees in substantial numbers.”