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Chemicals Identified in Feral and Food Animals; A Data Base

First Annual Report
October 1981

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Volume I

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**CHEMICALS IDENTIFIED IN FERAL AND FOOD ANIMALS,
A DATA BASE**

**First Annual Report, October 1981
Volume I
Records 1-532**

Compiled by

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Information Center Complex
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Oak Ridge, Tennessee 37830
operated by
UNION CARBIDE CORPORATION
for the
DEPARTMENT OF ENERGY
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**This effort was accomplished under the aegis
of the Interagency Collaborative Group on
Environmental Carcinogenesis, National Cancer
Institute, National Institutes of Health,
Chairperson, Dr. Herman F. Kraybill.**

Date Published - December, 1981

**Cindy Stroup, Project Officer
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Washington, D.C. 20460**

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CONTENTS

Acknowledgments	v
Introduction	1
Users' Guide	3
Abbreviations for Analytical Methods	7
References for Data Base	9
References for Physical and Chemical Data	17
Appendix A. Journals Searched	21
Appendix B. Chemicals in Data Base (by CAS Registry Numbers and Preferred Names)	25
Appendix C. Cross-Referenced Chemical Lists	31
1. CAS Preferred Names — Common Names	33
2. Common Names — CAS Preferred Names	38
Appendix D. Animals, Tissues, and Body Fluids in Data Base	63
Indices	67
Author	69
Corporate Author	71
Animal-Tissue	73
Tissue	77
Geography	79
Keyword	81
Directory of Chemicals	83
CAS Preferred Names	85
Formulas	87
Data Base	91

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For his support and valuable advice, the U.S. Environmental Protection Agency project officer expresses special thanks to Dr. Herman F. Kraybill, the National Cancer Institute coproject officer and the chairperson of the Interagency Collaborative Group on Environmental Carcinogenesis (ICGEC). In addition, thanks are due the members of the ICGEC Task Group on Chemicals in Human Tissues.

INTRODUCTION

A comprehensive data base of chemicals identified in feral and food animals has been established under the direction of the Exposure Evaluation Division in the U.S. Environmental Protection Agency's Office of Toxic Substances. This effort has grown out of the concern over continuing reports of toxic chemicals in human tissues and body fluids. Feral populations and food animals are regarded as indicators of environmental contamination and subsequent human body burden.

This data file is a companion to *Chemicals Identified in Human Biological Media, A Data Base*, and follows basically the same format. The data base on human body burden is in its third year of publication. This is the first annual report for the feral and food animal file.

Data were obtained primarily from the open literature through manual searches (retrospective to 1979) of the journals listed in Appendix A. The data base now contains information on 60 different substances. Chemicals are listed by Chemical Abstracts Service (CAS) registry numbers and preferred names in Appendix B. For the user's convenience, cross-referenced chemical lists of CAS preferred and common names are provided in Appendix C. The animals, tissues, and body fluids found to be contaminated by these chemicals are listed in Appendix D.

The data base is published annually in tabular format with indices and chemical listings that allow specific searching. A limited number of custom computer searches of the data base are available in special cases when the published format does not allow for retrieval of needed information.

It should be emphasized that the purpose of the data base is to provide a centralized resource of animal residue data and in no way is intended to obviate the need for the user to ultimately refer to the original literature or data source. It is not the intent of this program to conduct any screening or evaluation of the data.

This data base was established under the aegis of the Interagency Collaborative Group on Environmental Carcinogenesis (ICGEC), National Cancer Institute. Funding is through the National Cancer Institute-Environmental Protection Agency Collaborative Program. The work is

being done by the Oak Ridge National Laboratory's Chemical Effects Information Center, Information Center Complex, through interagency agreements involving the National Cancer Institute, the Environmental Protection Agency, and the Department of Energy. Members of the ICGEC Task Group on Chemicals in Human Tissues provide support to the program's activities. Agencies represented by members of the task group include the Armed Forces Institute of Pathology, the Centers for Disease Control, the Department of Agriculture, the Department of Energy, the Environmental Protection Agency, the Food and Drug Administration, the National Bureau of Standards, the National Cancer Institute, the National Center for Toxicological Research, the National Institute for Environmental Health Sciences, the National Institute for Occupational Safety and Health, and the National Library of Medicine.

Comments by the users of this document are invited. Questions, comments, and requests for additional information about the data base and/or searches thereof should be directed to:

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USERS' GUIDE

The data base will be published annually. The document contains introductory materials, references, appendices, indices, and a chemical directory and animal residue data extracted from the source documents. Data from 65 of the over 300 documents collected to date have been entered in the data base as of October 1981.

When appropriate articles are identified, data are extracted and entered in the data base by chemical, animal, and tissue/body fluid. Each data entry comprises a single record (or line entry) and is assigned a record number. If a particular document deals with more than one animal and/or chemical and/or tissue, there will be multiple records for that document. For example, a study of 5 chemicals in each of 3 tissues in 2 animals has 30 different records (or 30 line entries) in the data base with 30 record numbers. Record numbers are assigned consecutively throughout the entire data base and appear in the upper left corner in the first column for each record.

The data base is in tabular format and arranged alphabetically by CAS preferred chemical name. The sample record below illustrates the format. The chemical, in this case copper, is given along with its CAS registry number, formula, atomic weight, melting point, boiling point, and vapor pressure. The common name of the animal is listed alphabetically below the chemical data, followed by taxonomic names when available.

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628C, 10 mm Hg at 1870 C
Male deer
ODONCOILEUS HEMIONUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
154 Liver		AAS	a) 12 b) 6	a) 19-174 ppm b) 45-227 ppm	a) 61.4:74 ppm b) 97.3:59.6 ppm	a) Adult, 1.5 yr & older b) Fetus, 0.5 yr Captured 1/79 near oil shale tracts before mining initiated. Colorado, Rico Blanco County, Piceance Creek Basin DEER HICK; MULE DEER; BROWN; COPPER; PLYMOUTH; MOUNTAIN; COLORADO; BONES; KIDNEYS; LIVER	Stetler, I.R. 1980 J. Wildlife Diseases 18(2):175-182

Tissues are listed alphabetically in the first column with the record number. In the sample record, the tissue is liver and the record number is 154.

Information in the next five columns - exposure route, analytical method, number of cases, range, and mean - is self-explanatory and is provided when available in the source document. A list of abbreviations used for analytical method is provided on page 7. Exponential values are written as in the following example: 5×10^{-15} is $5 \times 10(E-15)$. All means are arithmetic unless designated geometric. When included, standard error is indicated by S.E. However, values for standard deviations, when given, have no such designations. When only graphically displayed data were available, values have been estimated by the extractor and so indicated in the table under GENERAL INFORMATION.

In the GENERAL INFORMATION column, a variety of information may be included that is pertinent to the range and mean as well as experimental design, geography, health effects, pathology, morphology, and toxicity. In general, supporting information deemed important for understanding the data presented appears in this column.

The REFERENCE column includes author(s), publication date, and source. Complete literature citations are listed alphabetically by author in References for Data Base, page 9.

Because not all details of the research can be included in this publication, keywords, in uppercase, are provided for further insight into important aspects of the source documents. The use of a different chemical as a keyword indicates studies on that chemical were also reported in the same document. For example, CADMIUM may appear as a keyword in a record on mercury when the work includes data on both chemicals. In the same way, a different tissue occurring as a keyword indicates the document also deals with that tissue.

CAS preferred names are from the *Ninth Collective Index*, and, when different, names from both eighth and ninth indices (8 CI, 9 CI) are given. Appendix C provides cross-referenced alphabetical lists of commonly used synonyms paired with the CAS preferred names.

For accessing information in the data base when only the CAS registry number is known, the user should refer to Appendix B, which lists CAS

registry numbers coupled with the preferred names. For help in locating chemicals in the tabular portion of the documents, an alphabetically arranged directory of chemicals by CAS names and record numbers is provided just before the Data Base. The second part of the directory lists formulas alphabetically along with the corresponding CAS preferred names and record numbers. Indices by author, corporate author, animals and tissues, tissue or body fluid, geography, and keywords refer the user to the appropriate record number.

ABBREVIATIONS FOR ANALYTICAL METHODS

AAS	Atomic absorption spectrometry
APDC-MIBK	Ammonium pyrrolidine diethiocarbamate-methylisobutyl ketone extraction
ASV	Anodic stripping voltammetry
CC	Column chromatography
Chem	Chemical methods
Electrochem	Electrochemical methods
EM	Electron microscopy
ES	Emission spectrometry
GC	Gas chromatography
GC-EC	Gas chromatography; electron-capture detection
GC/MF	Gas chromatography coupled with mass fragmentography
GC/MS	Gas chromatography coupled with mass spectrometry
Histochem	Histochemistry
HPLC	High-pressure liquid chromatography
IR	Infrared analysis
ISE	Ion-specific electrode
MAS	Molecular absorption spectrophotometry
MED	Microwave emission detector (ion)
MS	Mass spectrometry
NA	Neutron activation
NMR	Nuclear magnetic resonance
PIXE	Proton induced X-ray emission
RIA	Radioimmunoassay
TLC	Thin-layer chromatography
UV	Ultraviolet analysis
X-ray fluores	X-ray fluorescence
X-ray spectrom	X-ray spectrometry

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American Journal of Veterinary Research
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Cornell Veterinarian
Ecotoxicology and Environmental Safety
Environmental Health Perspectives
Environmental Pollution, Series A (Ecological & Biological)
Environmental Research
Environmental Science and Health, Journal of
Environmental Science and Technology
Fish Diseases, Journal of
Food and Cosmetic Toxicology
International Journal of Environmental Studies
Nature
Nutrition, Journal of

Pesticides Monitoring Journal

Residue Reviews

Science

Science of Food and Agriculture, Journal of

Science of the Total Environment

Toxicology and Applied Pharmacology

Toxicology and Environmental Health, Journal of

Tropical Animal Health and Production

Veterinary Clinical Pathology

Wildlife Diseases, Journal of

Wildlife Society Bulletin

Xenobiotica

- 10005-97-3 Cesium, isotope of mass 137
- 1020-57-3 4,7-Nethanoindan, 1,4,5,6,7,8,8-heptachloro-2,3-epoxy-3a,4,7,7a-tetrahydro- (8 CI); 2,5-Nethano-2H-indeno(1,2-b)oxirene, 2,3,9,5,6,7,7-heptachloro-1a,1b,5,5a,6,6a-hexahydro- (9 CI)
- 11096-82-5 Arcelor 1260
- 11097-69-1 Arcelor 1254
- 110-70-1 Benzene, hexachloro-
- 12676-11-2 Arcelor 1016
- 129-00-0 Pyrene
- 1336-36-3 Nitroaryl, chloro (8 CI); 1,1'-biphenyl, chloro deriva (9 CI)
- 13981-52-7 Polonium, isotope of mass 210
- 13982-61-3 Radon, isotope of mass 226
- 14255-04-0 Lead, isotope of mass 210
- 14269-63-7 Thorium, isotope of mass 230
- 183-50-0 1,3,4-Nethano-2H-cyclobuta (cd) pentalen-2-one, 1,1a,3,3a,4,5,5a,5b,6-dodecachlorooctahydro-
- 176-01-6 Ribenzo-p-dioxin, 2,3,7,8-tetrachloro- (8 CI); Dibenzo(b,e) (1,4)dioxin, 2,3,7,8-tetrachloro- (9 CI)
- 22967-92-6 Mercury(1+), methyl-, ion (8 CI); Mercury(1+), methyl- (9 CI)
- 2305-05-5 1,3,4-Nethano-1H-cyclobuta (cd) pentalen, 1,1a,2,2,3,3a,4,5,5a,5b,6-dodecachlorooctahydro-
- 26000-00-8 4,7-Nethanoindan, 1,2,4,5,6,7,8,8-octachloro-1,2-epoxy-3a,4,7,7a-tetrahydro- (8 CI); 2,5-Nethano-2H-indeno(1,2-b)oxirene, 1a,2,3,4,5,6a,7,7-octachloro-1a,1b,5,5a,6,6a-hexahydro- (9 CI)
- 27577-90-0 Pyrene, methyl-
- 319-04-6 Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5beta,6beta)- (9 CI)
- 330-50-1 Urea, 3-(3,4-dichlorophenyl)-1,1-dimethyl- (8 CI); Urea, N'-(3,4-dichlorophenyl)-N,N-dimethyl- (9 CI)
- 39765-00-5 4,7-Nethano-1H-indene, 1,2,3,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-, (1alpha,2beta,3alpha,3alpha,4beta,7beta,7alpha)-
- 50-29-3 Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis (4-chloro- (9 CI)
- Total 897 (No postings in CHEMLINE).
- 50-32-0 Benzene(a) pyrene
- 5403-71-9 4,7-Nethanoindan, 1alpha,2alpha,4beta,5,6,7beta,8,8-octachloro-3alpha,4,7,7alpha-tetrahydro (8 CI); 4,7-Nethano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-, (1alpha,2alpha,3alpha,4beta,7beta,7alpha)- (9 CI)

5103-73-1	8,7-Methanoindan, 1alpha,2alpha,3alpha,4beta,5,6,7beta,8,8-conachloro-1alpha,3,7,7-trifluoro-tetrahydro- (8 CI); 8,7-Methano-1H-indene, 1,2,3,4,5,6,7,8,8-nonachloro-2,3,3a,4,7,7a-hexahydro- (1alpha,2alpha,3alpha,4alpha,4beta,7alpha- (9 CI)
53-19-0	Ethane, 1,1-dichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)- (8 CI); Benzene, 1-chloro-2-(2,2-dichloro-1-(4-chlorophenyl)ethyl)- (9 CI)
55-38-9	Phosphorothioic acid, O,O-dimethyl O-(4-methylthio)-m-tolyl ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-(methylthio)phenyl) ester (9 CI)
56-55-3	Benzo(a)anthracene
57-08-1	Sulfonilamide, N(1)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)
58-09-9	Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)
63-57-1	1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,9a-octahydro-, endo,exo- (8 CI); 2,7:3,6-Dimethanonaphtha(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1alpha,2beta,2alpha,3beta,6beta,6alpha,7beta,7alpha)- (9 CI)
70-30-8	Phenol, 2,2'-methylenebis(3,4,6-trichloro-
72-54-8	Ethane, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)
72-55-9	Ethylene, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(dichloroethylenidene)bis(4-chloro- (9 CI)
7377-03-9	Octanoxyhydroxamic acid (8 CI); Octanamide, N-hydroxy- (9 CI)
7439-89-6	Iron
7439-92-1	Lead
7439-96-5	Manganese
7439-97-6	Mercury
7439-98-7	Molybdenum
7440-02-0	Nickel
7440-22-8	Silver
7440-38-2	Arsenic
7440-42-8	Boron
7440-43-9	Cadmium
7440-47-3	Chromium
7440-48-4	Cobalt
7440-50-8	Copper
7440-61-1	Uranium
7440-66-6	Zinc

7553-56-2	Iodine
76-84-8	4,7-Methanoindene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 Cl); 4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 Cl)
7782-41-4	Fluorine
7782-49-2	Selenium
9001-35-2	Toraphene
9001-50-9	Creosote
93-86-5	Phenol, pentachloro-
93-76-5	Acetic acid, (2,4,5-trichlorophenoxy)-

30

Acetic acid, (2,4,5-trichlorophenoxy)-

BCF-Bushkille; Forton; Fort U 46; Triloma; Verton 2T; Verton 2-T; 2,4,5-T;
(2,4,5-Trichlorophenoxy)acetic acid

Aroclor 1254

Aroclor 1254; PCB 1254

Aroclor 1016

Aroclor 1016

Aroclor 1260

Aroclor 1260; PCB 1260

Arsonic

Arsonic; Arsonic-75; Arsonic black; Grey arsonic; Metallic arsonic

Benzo(a)anthracene

Benzoanthracene; Benzanthrene; Benzenanthracene; Benzo(a)anthracene; Benzo(b)phenanthrene; Tetraphene;
1,2-Benzoanthracene; 1,2-Benzo(a)anthracene; 1,2-Benzanthrene; 1,2-Benzanthracene; 2,3-Benzophenanthrene

Benzene, hexachloro-

Amia; Anticlar; Bent-cure; Bent-no-cure; Co-op Benz; HCB; Hexachlorobenzene; Jalin's carbon chloride;
No Bent; No Bent Liquid; No Bent 40; No Bent 80; Pentachlorophenyl chloride; Perchlorobenzene; Saucide;
Saucietox

Benzo(a)pyrene

Benzo(a)pyrene; Benzo(4,5-f)chrysene; BP (VAN); 1,6-Benzo(a)pyrene; 1,6-Benzopyrene; 1,6-Benzopyrene
[carcinogen]

Diphenyl, chloro (8 Cl); 1,1'-Diphenyl, chloro decyls (9 Cl)

PCB; Diphenyl, chlorinated; Chlorinated diphenyl

Boron

Boron

Cadmium

Cadmium; C.I. 77180

Cesium, isotope of mass 137

Cesium-137

Chromium

Chromium

Cobalt

C.I. 77320; Cobalt; Cobalt-59

Copper

Allbri Natural Copper; Anco 110; Arved copper; CDA 101; CDA 102; CDA 110; CDA 122; C.I. Pigment Metal 2;
C.I. 77400; CuEP; CuEP; Cu H3; Copper; Copper H 1; Copper powder; PCuP1; E-Cu57; Kufar copper; H1
[copper]; H2 [copper]; H3 [copper]; H4 [copper]; H31; H32; H 1; H 3; H 6; OYEC Cu; Sany copper; 1721 Gold

Creosote

Coal tar creosote; Creosote free coal tar; Creosote oil

Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (alpha,beta,beta,beta,beta,beta)- (9 CI)

alpha-BHC; alpha-Benzene hexachloride; alpha-BHC; alpha-Hexachloran; alpha-Hexachlorane;
alpha-Hexachlorocyclohexane; alpha-Hexachlorocyclohexane; alpha-Lindane;
alpha-1,2,3,4,5,6-Hexachlorocyclohexane; alpha-1,2,3,4,5,6-Hexachlorocyclohexane

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (alpha,beta,beta,beta,beta,beta)- (9 CI)

Alialden; Aflicide; Agrocide; Agrocide III; Agrocide SF; Amimated; Amiesmittel ser; Apaxania;
Aptaria; Aptidal; Arbitex; BHC; Ben-Hex; Benter W; Benzol; BHC; Colanex; Chloromene; Cedeckine; DHC;
Detaol-Ekstrakt; Devocon; Del Granula; Driller-Spezial Aglukon; Entomexan; EST 7,796; Forst-Poren; Gamma
benzene hexachloride; gamma-Benzene hexachloride; gamma-BHC; gamma-BHC; gamma-Hexachloran;
gamma-7-hexachlorane; gamma-Hexachlorobenzene; gamma-Hexachlorocyclohexane; gamma-Lindane; Gasunter;
gamma-1,2,3,4,5,6-Hexachlorocyclohexane; Gexane; HCC; HCCN; HCCN; Hecloex; Heca; Hexachloran;
Hexachlorane; Hexavon; Hexicide; Hexylene; HLI; Kertex; Margaria I 7; Jecotia; Kektoline; Kwell; Leadine;
Lentex; Lidenal; Lindane; Lindator; Lindex; Lindox; Linver; Lotexane; Millel 49; Szyzol;
Neo-Scabicide; Nuron FB; Nuzil; Nuzit-stark; Nuzol-E; Nuzochloran; Omitox; Ovadrik; Ovadrik;
Petracrak; Pflanzol; Quellade; Saag-gaon; Spitz-Rapida; Spruchpflanzol; Streamer; Tap 85; Tri-6; Viton;
1,2,3,4,5,6-Hexachlorocyclohexane; 666

Dibenz-p-dioxin, 2,3,7,8-tetrachloro- (8 CI); Dibenz(D,e)(1,4)dioxin, 2,3,7,8-tetrachloro- (9 CI)

Dioxin [herbicide contaminant]; KCBP; TCBO; 2,3,7,8-Tetrachlorodibenz-p-dioxin;
2,3,7,8-Tetrachlorodibenz-1,4-dioxin; 2,3,7,8-Tetrachlorodibenz-p-dioxin

Ethane, 1,1-dichloro-2-(p-chlorophenyl)-2-(p-chlorophenyl)- (8 CI); Benzene,
1-chloro-2-(2,2-dichloro-1-(p-chlorophenyl)ethyl)- (9 CI)

CE 313; Chloditan; Chlodithane; Lymedron; Nitetan; Nitetane; NCC-30721; o,p'-DDT;
o,p'-Dichlorodiphenyldichloroethane; o,p'-DDE; 2-(2-Chlorophenyl)-2-(p-chlorophenyl)-1,1-dichloroethane;
TDE; Tetrachlorodiphenyl ethane; 1,1-Bis(p-chlorophenyl)-2,2-dichloroethane;
1,1-Bis(p-chlorophenyl)-2,2-dichloroethane; 1,1-Dichloro-2,2-bis(p-chlorophenyl)ethane;
1,1-Dichloro-2,2-bis(p-chlorophenyl)ethane

Ethane, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(p-chloro- (9 CI)

DDT; Dichlorodiphenyl dichloroethane; Dilene; K1700; p,p'-DDT; p,p'-Dichlorodiphenyldichloroethane;
p,p'-Dichlorodiphenyl-2,2-dichloroethylene; p,p'-DDE; Dethane; DDE; Tetrachlorodiphenyl ethane;
1,1-Bis(p-chlorophenyl)-2,2-dichloroethane; 1,1-Bis(p-chlorophenyl)-2,2-dichloroethane;
1,1-Dichloro-2,2-bis(p-chlorophenyl)ethane; 1,1-Dichloro-2,2-bis(p-chlorophenyl)ethane;
2,2-Bis(p-chlorophenyl)-1,1-dichloroethane; o,p'-DDT

Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene,
1,1'-(2,2,2-trichloroethylidene)bis(p-chloro- (9 CI)

Lavero-extra; Agritan; alpha,alpha-Bis(p-chlorophenyl)-beta,beta,beta-trichloroethane; Arkotina; Azotex
E-33; Bosen super; Bovidexol; Chlorophenethane; Chlorophenethane; Chlorophenethane; Citor; Clufenotan;
Clufenotan; DDT; Deoval; Detox; Detoxan; Dostat; Dibovin; Dichlorodiphenyltrichloroethane; Picophane;
Pykol; TBT-1506; Etocon; Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl); Gecafid; Gecol; Iveron;
Sutem; Succiid; Succiid; Parachlorocid; PTE; Pentachlorin; Penticid; p,p'-DDT;
p,p'-Dichlorodiphenyltrichloroethane; Tefidex; Trichlorobis(p-chlorophenyl)ethane; Zordane;
1,1-Bis(p-chlorophenyl)-2,2,2-trichloroethane; 1,1,1-Trichloro-2,2-bis(p-chlorophenyl)ethane;
1,1,1-Trichloro-2,2-bis(p-chlorophenyl)ethane; 2,2-Bis(p-chlorophenyl)-1,1,1-trichloroethane;
o,p'-Dichlorodiphenyltrichloroethane

Ethylene, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(dichloroethenyldene)bis(p-chloro- (9 CI)

DDT; p,p'-DDT; p,p'-Dichlorodiphenyldichloroethylene; 1,1-Dichloro-2,2-bis(p-chlorophenyl)ethylene;
1,1-Dichloro-2,2-bis(p-chlorophenyl)ethylene; 2,2-Bis(p-chlorophenyl)-1,1-dichloroethylene; o,p'-DDT

Fluorine

Fluorine; Fluorine-19

Iodine

Enrol; Iodine; Iodine-127; Iodine ((127)I2); Iodine colloidal; Iodine crystals; Iodine sublimed; Iodex
Superdip; Molecular Iodine

Iron

Arco iron; Ferrovac E; Iron; Loba; SO5A; PZh2N; PZh2N2; PZh3; PZh181; PZh3N; PZh4N; PZh-2; PZh2N1;
PZh-1A3; SUY 9-2

Lead

C.I. Pigment Red 8; C.I. 77575; KS-8; Lead; Lead Flake; Lead 52; S8; S1

Lead, isotope of mass 210

Lead-210; Lead of mass 210; Radius D

Lead-210

Colloidal lead-210; Octaval; Pangarene

Mercury

Mercury; Quicksilver

Mercury(I⁺), methyl-, ion (9 CI); Mercury(II⁺), methyl- (9 CI)

Methylmercury; Methylmercury(I⁺); Methylmercury(II) cation; Methyl mercury ion; Methylmercury ion(I⁺)

Molybdenum

Mo; Molybdenum; TSN

Nickel

C.I. 77775; Nickel; Ni 270; Ni 43037; Ni 0901-5(Marshaw); Nickel NP2; Nickel 270; NP2; Raney alloy; Raney nickel; RCH 55/5

Octanohydroxamic acid (9 CI); Octanamide, N-hydroxy- (9 CI)

Caprylohydroxamic acid; N-Hydroxyoctanamide; Octanolhydroxamic acid; Tasetin

Phenol, pentachloro-

Bovicide 7; EP 30; Fungifen; Grandier Arbezol; Laurotel; Micropro; PCP; Penthlorol; Penta; Pentachlorophenol; Pernaxan; Santophen 20

Phenol, 2,2'-methylenebis(3,4,6-trichloro-

AT 7; C 51; Aclama; Alcedora; Bilevon; Bis(2-hydroxy-3,5,6-trichlorophenyl)methane; Bis(3,5,6-trichloro-2-hydroxyphenyl)methane; B 32; Cotofilm; Distodix; Eroxene; Fesia-sin; Festril; Gasophen; Gasophene; Garam-Medica; Hexablan; Hexachlorofen; Hexachlorophen; Hexachlorophene; Hexafen; Hexophen; Hexosin; Nubac; Noosept V; Phisolex; Bitosept; Septisol; Septofen; Steral; Steraskin; Surgi-Cen; Surofene; Teraseptic; Trichlorophenol; 2,2'-Dihydroxy-3,3',5,5',6,6'-hexachlorodiphenylmethane; 2,2'-Methylenebis(3,4,6-trichlorophenol); 2,2',3,3',5,5'-Hexachloro-6,6'-dihydroxydiphenylmethane; 2,2'-Dihydroxy-3,5,6,3',5',6'-tetrachlorodiphenylmethane

Phosphorothioic acid, O,O-dimethyl O-(4-methylthio)-n-1,1'-ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-(methylthio)phenyl) ester (9 CI)

BAT 2903; Baycid; Bayer 9007; Baytex; EBT 25540; Entex; Fenthion; Lebaycid; Mercaptophos (VAM); NPP (pesticide); NPP (VAM); ONS 2; Phenthion; Quoletox; S 1752; Sulfidophos; Talodex; Tiguvor

Polonium, isotope of mass 210

Polonium-210; Radius F

Pyrene

Benzo(Mef)phenanthrene; Beta-Pyrene

Pyrene, methyl-

Methylpyrene

Radius, isotope of mass 226

Radius-226

Selenium

C.I. 77005; Selenium

Sulfonilamide, *N*[(1)-(4,6-dimethyl-2-pyridinyl)]- (9 CI); Sarcosulfonamide, *N*-methyl-*N*[(1)-(4,6-dimethyl-2-pyridinyl)]- (9 CI)

[illegible]

Isotopes: Thorium-230; Thorium, isotopes; nept-230

72-11 102

[illegible]

WFO-238: Warden I (G20) [M]

Form, 3-(3,4-dichlorophenyl)-1,1-diethyl- (8 CH); Form, 5'--(3,4-dichlorophenyl)-2,2-diethyl- (9 CH)

AP 101; DCMU; Diaxon; DMU (VRS); Dera; Herbatox (VRS); EN 120; Karomox; Karox; Karox Diaxon Herbicide;
K-trox DF; Karox; 1-(3,4-Dichlorophenyl)-2,2'-diethylurea; 8'-(3,4-Dichlorophenyl)-8,8'-diethylurea;
Zelvar Diaxon Weed Killer; 1-(3,4-Dichlorophenyl)-3,3'-diethylurea;
1,1-Bis(ethyl-3-(3,4-Dichlorophenyl)urea); 2-(3,4-Dichlorophenyl)-1,1'-diethylurea

Blue powder: 11ac

1,2,4-Naphtho-1H-cyclobuta (cd) pentaisene, 1, 1a, 2, 2, 3, 3a, 4, 5, 5, 5a, 5b, 6-tetradecalin & coetere

CN-1283; Dochlorane; Dochlorane Fluo; Dochlorane Fluo 515; Dochlorane 4070; Dochlorane 515;
Pederchlorocyclopentadiene 1,3,4-methoxy-2-cylobuta(m)pentalone; 507 25,719; OC 1283);
Doerchlorocyclopentadiene dimer; Dimer; Pederchlorodibenzobutene; Doerchlorocyclopentadiene;
Doerchlorocyclopentadiene [5-2,1,0(2,6),0(3,9)-0(5,8)]decane; 1,3-Cyclopentadiene, 1,2,3,4,5,5-hexamethyl-, dimer

1,3,4-Norborn-2H-cyclobuta (all pentalen-2-one, 1, 1a, 3, 3a, 4, 5, 5a, 5b, 6-decachlorooctahydro-

Chloroacene; Chloroacene; Compound 1109; Dichloroacene;
Dichloroacetylene (2,2,4,4,6,6,8,8,10,10,12,12-dichloro-1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63,65,67,69,71,73,75,77,79,81,83,85,87,89,91,93,95,97,99,101,103,105,107,109,111,113,115,117,119,121,123,125,127,129,131,133,135,137,139,141,143,145,147,149,151,153,155,157,159,161,163,165,167,169,171,173,175,177,179,181,183,185,187,189,191,193,195,197,199,201,203,205,207,209,211,213,215,217,219,221,223,225,227,229,231,233,235,237,239,241,243,245,247,249,251,253,255,257,259,261,263,265,267,269,271,273,275,277,279,281,283,285,287,289,291,293,295,297,299,301,303,305,307,309,311,313,315,317,319,321,323,325,327,329,331,333,335,337,339,341,343,345,347,349,351,353,355,357,359,361,363,365,367,369,371,373,375,377,379,381,383,385,387,389,391,393,395,397,399,401,403,405,407,409,411,413,415,417,419,421,423,425,427,429,431,433,435,437,439,441,443,445,447,449,451,453,455,457,459,461,463,465,467,469,471,473,475,477,479,481,483,485,487,489,491,493,495,497,499,501,503,505,507,509,511,513,515,517,519,521,523,525,527,529,531,533,535,537,539,541,543,545,547,549,551,553,555,557,559,561,563,565,567,569,571,573,575,577,579,581,583,585,587,589,591,593,595,597,599,601,603,605,607,609,611,613,615,617,619,621,623,625,627,629,631,633,635,637,639,641,643,645,647,649,651,653,655,657,659,661,663,665,667,669,671,673,675,677,679,681,683,685,687,689,691,693,695,697,699,701,703,705,707,709,711,713,715,717,719,721,723,725,727,729,731,733,735,737,739,741,743,745,747,749,751,753,755,757,759,761,763,765,767,769,771,773,775,777,779,781,783,785,787,789,791,793,795,797,799,801,803,805,807,809,811,813,815,817,819,821,823,825,827,829,831,833,835,837,839,841,843,845,847,849,851,853,855,857,859,861,863,865,867,869,871,873,875,877,879,881,883,885,887,889,891,893,895,897,899,901,903,905,907,909,911,913,915,917,919,921,923,925,927,929,931,933,935,937,939,941,943,945,947,949,951,953,955,957,959,961,963,965,967,969,971,973,975,977,979,981,983,985,987,989,991,993,995,997,999,1001,1003,1005,1007,1009,1011,1013,1015,1017,1019,1021,1023,1025,1027,1029,1031,1033,1035,1037,1039,1041,1043,1045,1047,1049,1051,1053,1055,1057,1059,1061,1063,1065,1067,1069,1071,1073,1075,1077,1079,1081,1083,1085,1087,1089,1091,1093,1095,1097,1099,1101,1103,1105,1107,1109,1111,1113,1115,1117,1119,1121,1123,1125,1127,1129,1131,1133,1135,1137,1139,1141,1143,1145,1147,1149,1151,1153,1155,1157,1159,1161,1163,1165,1167,1169,1171,1173,1175,1177,1179,1181,1183,1185,1187,1189,1191,1193,1195,1197,1199,1201,1203,1205,1207,1209,1211,1213,1215,1217,1219,1221,1223,1225,1227,1229,1231,1233,1235,1237,1239,1241,1243,1245,1247,1249,1251,1253,1255,1257,1259,1261,1263,1265,1267,1269,1271,1273,1275,1277,1279,1281,1283,1285,1287,1289,1291,1293,1295,1297,1299,1301,1303,1305,1307,1309,1311,1313,1315,1317,1319,1321,1323,1325,1327,1329,1331,1333,1335,1337,1339,1341,1343,1345,1347,1349,1351,1353,1355,1357,1359,1361,1363,1365,1367,1369,1371,1373,1375,1377,1379,1381,1383,1385,1387,1389,1391,1393,1395,1397,1399,1401,1403,1405,1407,1409,1411,1413,1415,1417,1419,1421,1423,1425,1427,1429,1431,1433,1435,1437,1439,1441,1443,1445,1447,1449,1451,1453,1455,1457,1459,1461,1463,1465,1467,1469,1471,1473,1475,1477,1479,1481,1483,1485,1487,1489,1491,1493,1495,1497,1499,1501,1503,1505,1507,1509,1511,1513,1515,1517,1519,1521,1523,1525,1527,1529,1531,1533,1535,1537,1539,1541,1543,1545,1547,1549,1551,1553,1555,1557,1559,1561,1563,1565,1567,1569,1571,1573,1575,1577,1579,1581,1583,1585,1587,1589,1591,1593,1595,1597,1599,1601,1603,1605,1607,1609,1611,1613,1615,1617,1619,1621,1623,1625,1627,1629,1631,1633,1635,1637,1639,1641,1643,1645,1647,1649,1651,1653,1655,1657,1659,1661,1663,1665,1667,1669,1671,1673,1675,1677,1679,1681,1683,1685,1687,1689,1691,1693,1695,1697,1699,1701,1703,1705,1707,1709,1711,1713,1715,1717,1719,1721,1723,1725,1727,1729,1731,1733,1735,1737,1739,1741,1743,1745,1747,1749,1751,1753,1755,1757,1759,1761,1763,1765,1767,1769,1771,1773,1775,1777,1779,1781,1783,1785,1787,1789,1791,1793,1795,1797,1799,1801,1803,1805,1807,1809,1811,1813,1815,1817,1819,1821,1823,1825,1827,1829,1831,183

1,4,5,8-Dioxanocyclohexane, 1,2,3,4,8,8a-hexachloro-4,7-epoxy-1,4,6a,5,6,7,8,8a-octahydro-, en - (S) - (C)
2,7,3,6-Dioxanocyclohexyl(2,3-bis)oxirane, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-,
(1a,6a,2b,2a,3a,6a,7b,7a,9a,9a)-octahydro-, (2b,2a,3a,6a,7b,7a,9a,9a)- (S) (C)

Alaris Epoxide; Alric 55; Compound 497; Diadria; Diadrox; Dielath; Dielcia; Derycon; EBY-6625; EBY; Ellard; Insectlact; Knoch-Albertson; Koth Sub B; Octalox; Red Shield; SP 3617; Terciton

4,7-Methano-10-isdono, 1,2,3,4,5,6,7,8,8-nonachloro-2,3,3a,4,7,7a-benzhydra-,
(1a,1b,2b,3a,3b,4a,5a,6a,7a,8a,8b,9a,9b,10a,10b,11a,11b,12a,12b,13a,13b,14a,14b,15a,15b,16a,16b,17a,17b,18a,18b,19a,19b,20a,20b,21a,21b,22a,22b,23a,23b,24a,24b,25a,25b,26a,26b,27a,27b,28a,28b,29a,29b,30a,30b,31a,31b,32a,32b,33a,33b,34a,34b,35a,35b,36a,36b,37a,37b,38a,38b,39a,39b,40a,40b,41a,41b,42a,42b,43a,43b,44a,44b,45a,45b,46a,46b,47a,47b,48a,48b,49a,49b,50a,50b,51a,51b,52a,52b,53a,53b,54a,54b,55a,55b,56a,56b,57a,57b,58a,58b,59a,59b,60a,60b,61a,61b,62a,62b,63a,63b,64a,64b,65a,65b,66a,66b,67a,67b,68a,68b,69a,69b,70a,70b,71a,71b,72a,72b,73a,73b,74a,74b,75a,75b,76a,76b,77a,77b,78a,78b,79a,79b,80a,80b,81a,81b,82a,82b,83a,83b,84a,84b,85a,85b,86a,86b,87a,87b,88a,88b,89a,89b,90a,90b,91a,91b,92a,92b,93a,93b,94a,94b,95a,95b,96a,96b,97a,97b,98a,98b,99a,99b,100a,100b,101a,101b,102a,102b,103a,103b,104a,104b,105a,105b,106a,106b,107a,107b,108a,108b,109a,109b,110a,110b,111a,111b,112a,112b,113a,113b,114a,114b,115a,115b,116a,116b,117a,117b,118a,118b,119a,119b,120a,120b,121a,121b,122a,122b,123a,123b,124a,124b,125a,125b,126a,126b,127a,127b,128a,128b,129a,129b,130a,130b,131a,131b,132a,132b,133a,133b,134a,134b,135a,135b,136a,136b,137a,137b,138a,138b,139a,139b,140a,140b,141a,141b,142a,142b,143a,143b,144a,144b,145a,145b,146a,146b,147a,147b,148a,148b,149a,149b,150a,150b,151a,151b,152a,152b,153a,153b,154a,154b,155a,155b,156a,156b,157a,157b,158a,158b,159a,159b,160a,160b,161a,161b,162a,162b,163a,163b,164a,164b,165a,165b,166a,166b,167a,167b,168a,168b,169a,169b,170a,170b,171a,171b,172a,172b,173a,173b,174a,174b,175a,175b,176a,176b,177a,177b,178a,178b,179a,179b,180a,180b,181a,181b,182a,182b,183a,183b,184a,184b,185a,185b,186a,186b,187a,187b,188a,188b,189a,189b,190a,190b,191a,191b,192a,192b,193a,193b,194a,194b,195a,195b,196a,196b,197a,197b,198a,198b,199a,199b,200a,200b,201a,201b,202a,202b,203a,203b,204a,204b,205a,205b,206a,206b,207a,207b,208a,208b,209a,209b,210a,210b,211a,211b,212a,212b,213a,213b,214a,214b,215a,215b,216a,216b,217a,217b,218a,218b,219a,219b,220a,220b,221a,221b,222a,222b,223a,223b,224a,224b,225a,225b,226a,226b,227a,227b,228a,228b,229a,229b,230a,230b,231a,231b,232a,232b,233a,233b,234a,234b,235a,235b,236a,236b,237a,237b,238a,238b,239a,239b,240a,240b,241a,241b,242a,242b,243a,243b,244a,244b,245a,245b,246a,246b,247a,247b,248a,248b,249a,249b,250a,250b,251a,251b,252a,252b,253a,253b,254a,254b,255a,255b,256a,256b,257a,257b,258a,258b,259a,259b,260a,260b,261a,261b,262a,262b,263a,263b,264a,264b,265a,265b,266a,266b,267a,267b,268a,268b,269a,269b,270a,270b,271a,271b,272a,272b,273a,273b,274a,274b,275a,275b,276a,276b,277a,277b,278a,278b,279a,279b,280a,280b,281a,281b,282a,282b,283a,283b,284a,284b,285a,285b,286a,286b,287a,287b,288a,288b,289a,289b,290a,290b,291a,291b,292a,292b,293a,293b,294a,294b,295a,295b,296a,296b,297a,297b,298a,298b,299a,299b,300a,300b,301a,301b,302a,302b,303a,303b,304a,304b,305a,305b,306a,306b,307a,307b,308a,308b,309a,309b,310a,310b,311a,311b,312a,312b,313a,313b,314a,314b,315a,315b,316a,316b,317a,317b,318a,318b,319a,319b,320a,320b,321a,321b,322a,322b,323a,323b,324a,324b,325a,325b,326a,326b,327a,327b,328a,328b,329a,329b,330a,330b,331a,331b,332a,332b,333a,333b,334a,334b,335a,335b,336a,336b,337a,337b,338a,338b,339a,339b,340a,340b,341a,341b,342a,342b,343a,343b,344a,344b,345a,345b,346a,346b,347a,347b,348a,348b,349a,349b,350a,350b,351a,351b,352a,352b,353a,353b,354a,354b,355a,355b,356a,356b,357a,357b,358a,358b,359a,359b,360a,360b,361a,361b,362a,362b,363a,363b,364a,364b,365a,365b,366a,366b,367a,367b,368a,368b,369a,369b,370a,370b,371a,371b,372a,372b,373a,373b,374a,374b,375a,375b,376a,376b,377a,377b,378a,378b,379a,379b,380a,380b,381a,381b,382a,382b,383a,383b,384a,384b,385a,385b,386a,386b,387a,387b,388a,388b,389a,389b,390a,390b,391a,391b,392a,392b,393a,393b,394a,394b,395a,395b,396a,396b,397a,397b,398a,398b,399a,399b,400a,400b,401a,401b,402a,402b,403a,403b,404a,404b,405a,405b,406a,406b,407a,407b,408a,408b,409a,409b,410a,410b,411a,411b,412a,412b,413a,413b,414a,414b,415a,415b,416a,416b,417a,417b,418a,418b,419a,419b,420a,420b,421a,421b,422a,422b,423a,423b,424a,424b,425a,425b,426a,426b,427a,4

Example - No such log

4,7-Dichlorindan, 1,2,4,5,6,7,8-octachloro-1,2-epoxy-3a,4,7,7a-tetrahydro- (8 Cl);
2,5-Dithian-2H-isomer(1,2-oxirane, 1a,2,3,4,5,6a,7,7-octachloro-1a,1b,3,5a,6,6a-hexahydro- (8 Cl))

Oxychlor **oxolin**; **Oxychlor** **oxolin**; **Oxychlor** **oxolin**

4,7-Ethanoindan, 1,4,5,6,7,8,9-heptachloro-2,3-epoxy-3a,4,7,7a-tetrahydro- (B CI);
 2,5-Ethano-2H-indene(1,2-b)oxiran, 2,3,4,5,6,7,7-heptachloro-1a,1b,5,5a,6,6a-hexahydro- (B CI)

EST 25,584; Epoxyheptachlor; ECI; Heptachlor epoxide; Velsicol 53-CS-17

4,7-Ethanoindan, 1alpha,2alpha,3alpha,4beta,5,6,7beta,8,9-nonachloro-3alpha,4,7,7-alpha-tetrahydro- (B CI);
 4,7-Ethano-1H-indene, 1,2,3,4,5,6,7,8,9-nonachloro-2,3,3a,4,7,7a-hexahydro-(1alpha,2alpha,3alpha,3alpha,4beta,7alpha)- (B CI)

cis-Nonachlor; Nonachlor, cis

4,7-Ethanoindan, 1alpha,2alpha,4beta,5,6,7beta,8,9-octachloro-3alpha,4,7,7alpha-tetrahydro (B CI);
 4,7-Ethano-1H-indene, 1,2,3,4,5,6,7,8,9-octachloro-2,3,3a,4,7,7a-hexahydro-(1alpha,2alpha,3alpha,4beta,7beta,7alpha)- (B CI)

alpha-Chlorides; alpha-Chlorides; Chlorides, cis-; cis-Chlorides; cis-Chlorides

4,7-Ethanoindane, 1,4,5,6,7,8,9-heptachloro-3a,4,7,7a-tetrahydro- (B CI); 4,7-Ethano-1H-indene,
 1,4,5,6,7,8,9-heptachloro-3a,4,7,7a-tetrahydro- (B CI)

Ashepta; Asheptene; E 2274; EST 15,952; GPH; Hepta; Heptachlor; Heptachlorene; Heptachlor; Velsicol 104;
 3-Chlorochlorides

(2,4,5-Trichlorophenoxy)acetic acid
Acetic acid, (2,4,5-trichlorophenoxy)-

A-502

Sulfonilamide, N-(N-(3,4,6-dimethyl-2-pyridinyl)- (8 CI); Benzenesulfonamide,
N-(N-(3,4,6-dimethyl-2-pyridinyl)- (9 CI)

Alkyls

4,7-Dithianolindane, 1,4,5,6,7,8,9-heptachloro-2a,4,7,7a-tetrahydro- (8 CI); 4,7-Dithianolindane,
1,4,5,6,7,8,9-heptachloro-2a,4,7,7a-tetrahydro- (9 CI)

Alkyls

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-,
(alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Amides

Urethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Diamine,
1,1'-[2,2,2-trichloroethylenediyl]bis(p-chloro)- (9 CI)

Alkyls

Phenol, 2,2'-methylenebis(3,4,6-trichloro-

Alkyls

Urea, 1-[3,4-dichlorophenyl]-1,1'-dimethyl- (8 CI); Urea, N'-[3,4-dichlorophenyl]-N,N'-dimethyl- (9 CI)

Alkyls

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-,
(alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Alkyls

Urethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Diamine,
1,1'-[2,2,2-trichloroethylenediyl]bis(p-chloro)- (9 CI)

Alkyls

4,7-Dithianolindane, 1,4,5,6,7,8,9-heptachloro-2a,4,7,7a-tetrahydro- (8 CI); 4,7-Dithianolindane,
1,4,5,6,7,8,9-heptachloro-2a,4,7,7a-tetrahydro- (9 CI)

Alkyls

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-,
(alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Alkyls

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-,
(alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Alkyls

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-,
(alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Alkyls

1,4,5,8-DM-1-mono-naphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,8a,5,6,7,8,8a-octahydro-, endo,exo-
(8 CI); 2'-bis(mono-naphthyl(2,3-bis)oxirane, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-,
(alpha,2alpha,3beta,4beta,6alpha,7beta,7alpha)- (9 CI)

Alkyls

Copper

Alkyls

Tetraphene

Alkyls

Phenol, 2,2'-methylenebis(3,4,6-trichloro-

Alkyls

Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-,
(alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Alkyls

Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-,
(alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Alkyls

4,7-Dithianolindane, 1alpha,2alpha,3beta,5,6,7beta,8,9-octachloro-2alpha,4,7,7alpha-tetrahydro- (8 CI);
4,7-Dithianolindane, 1,2,4,5,6,7,8,9-octachloro-2,3,3a,4,7,7a-hexahydro-,
(1alpha,2alpha,3alpha,4beta,7beta,7alpha)- (9 CI)

Alkyls

4,7-Dithianolindane, 1alpha,2alpha,3beta,5,6,7beta,8,9-octachloro-2alpha,4,7,7alpha-tetrahydro- (8 CI);
4,7-Dithianolindane, 1,2,4,5,6,7,8,9-octachloro-2,3,3a,4,7,7a-hexahydro-,
(1alpha,2alpha,3alpha,4beta,7beta,7alpha)- (9 CI)

Alkyls

Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-,
(alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Alkyls

Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-,
(alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

alpha-Benzochlorane

Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (alpha,2alpha,3beta,4alpha,5beta,6beta)- (9 CI)

alpha-Benzochlorocyclohexane

Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (alpha,2alpha,3beta,4alpha,5beta,6beta)- (9 CI)

alpha-Benzochlorocyclohexane

Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (alpha,2alpha,3beta,4alpha,5beta,6beta)- (9 CI)

alpha-Endane

Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (alpha,2alpha,3beta,4alpha,5beta,6beta)- (9 CI)

alpha-1,2,3,4,5,6-Hexachlorocyclohexane

Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (alpha,2alpha,3beta,4alpha,5beta,6beta)- (9 CI)

alpha-1,2,3,4,5,6-Hexachlorocyclohexane

Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (alpha,2alpha,3beta,4alpha,5beta,6beta)- (9 CI)

alpha, alpha-bis(p-chlorophenyl)-beta, beta, beta-trichloroethane

Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(p-chloro- (9 CI)

Alvie 55

1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,9,9a,5,6,7,8,8a-octahydro-, endo, exo- (8 CI); 1,7:3,6-Dimethanonaphth(2,3-b)oxirane, 3,4,5,8,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (alpha,2beta,3alpha,3beta,4beta,5alpha,5beta,7alpha,7beta)- (9 CI)

Asotin

Benzene, hexachloro-

Asinonitrol neri

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Asipentol

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Asac 1:0

Copper

Asaton

Toraphene

Aticuria

Benzene, hexachloro-

Aperasia

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Aptiria

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Aplidal

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Asbitor

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Asqueto

Silver

Achetico

Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(p-chloro- (9 CI)

Asco Iron

Iron

Asochlor 1260

Asochlor 1260

Asochlor 1016

Asochlor 1016

Asochlor 1250

Asochlor 1250

Asocis

Asocis

Arsenic black
Arsenic

Arsenic-75
Arsenic

Arwood copper
Copper

AT 7
Phenol, 2,2'-methylenbis(3,4,6-trichloro-

Azelastatin
Sulfamylasido, 8(W)-(4,6-dimethyl-2-pyridinyl)-(8 CI); Benzocoumarone, 4-oxo-8-(4,6-dimethyl-2-pyridinyl)-(9 CI)

Astex 8-33
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)-(8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro-(9 CI)

S 32
Phenol, 2,2'-methylenbis(3,4,6-trichloro-

DAY 29993
Phosphorothioic acid, 0,0-dimethyl 0-(4-methylthio)-p-tolyl ester (8 CI); Phosphorothioic acid, 0,0-dimethyl 0-(3-methyl-4-(methylthio)phenyl) ester (9 CI)

Daycid
Phosphorothioic acid, 0,0-dimethyl 0-(4-methylthio)-p-tolyl ester (8 CI); Phosphorothioic acid, 0,0-dimethyl 0-(3-methyl-4-(methylthio)phenyl) ester (9 CI)

Daycor 9907
Phosphorothioic acid, 0,0-dimethyl 0-(4-methylthio)-p-tolyl ester (8 CI); Phosphorothioic acid, 0,0-dimethyl 0-(3-methyl-4-(methylthio)phenyl) ester (9 CI)

Daycor
Phosphorothioic acid, 0,0-dimethyl 0-(4-methylthio)-p-tolyl ester (8 CI); Phosphorothioic acid, 0,0-dimethyl 0-(3-methyl-4-(methylthio)phenyl) ester (9 CI)

DBB
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

DCF-Bushkiller
Acetic acid, (2,4,5-trichlorophenoxy)-

Den-Ber
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Denox 10
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Denz (a) pyrene
Denzo (a) pyrene

Denzanthracene
Denz (a) anthracene

Denzanthrene
Denz (a) anthracene

Denzo (a) anthracene
Denz (a) anthracene

Denzo (b) phenanthrene
Denz (a) anthracene

Denzo (d,e,f) chrysene
Denzo (a) pyrene

Denzo (def) phenanthrene
Pyrene

Denzanthracene
Denz (a) anthracene

Denzo-Pyrene
Pyrene

Denol
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

DEC
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Siloxen
 Phenol, 2,2'-methylenabis(3,4,6-trichloro-
 biphenyl, chlorinated
 Biphenyl, chlor- (8 CI); 1,1'-biphenyl, chloro deriva (9 CI)
 Bis(2-hydroxy-3,5,6-trichlorophenyl) methane
 Phenol, 2,2'-methylenabis(3,4,6-trichloro-
 bis(3,5,6-trichloro-2-hydroxyphenyl) methane
 Phenol, 2,2'-methylenabis(3,4,6-trichloro-
 blue powder
 Zinc
 Boron
 Boron
 Jcanu supra
 Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene,
 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)
 Jovidermol
 Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene,
 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)
 BP (VAN)
 Benzene(a) pyrene
 Bent-cure
 Benzene, hexachloro-
 Bent-no-cure
 Benzene, hexachloro-
 C.I. Pigment Metal 2
 Copper
 C.I. Pigment Metal 4
 Lead
 C.I. 77180
 Cadmium
 C.I. 77320
 Cobalt
 C.I. 77430
 Copper
 C.I. 77575
 Lead
 C.I. 77775
 Nickel
 C.I. 77805
 Selenium
 C.I. 77820
 Silver
 Cadmium
 Cadmium
 Casphochlor
 Toxaphene
 Casphochlor
 Toxaphene
 Coprylohydroxamic acid
 Octanohydroxamic acid (8 CI); Octanamide, N-hydroxy- (9 CI)
 C8 313
 Ethane, 1,1-dichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)- (8 CI); Benzene,
 1-chloro-2-(2,2-dichloro-1-(4-chlorophenyl)ethyl)- (9 CI)
 CDA 101
 Copper
 CDA 102
 Copper
 CDA 110
 Copper
 CDA 122
 Copper

Celane

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Cesium-137

Cesium, isotope of mass 137

C5-1203

1,3,4-tetraeno-1H-cyclobuta (cd) pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

Chloditan

Ethane, 1,1-dichloro-2-(p-chlorophenyl)-2-(p-chlorophenyl)- (8 CI); Benzene, 1-chloro-2-(2,2-dichloro-1-(p-chlorophenyl)ethyl)- (9 CI)

Chlodithane

Ethane, 1,1-dichloro-2-(p-chlorophenyl)-2-(p-chlorophenyl)- (8 CI); Benzene, 1-chloro-2-(2,2-dichloro-1-(p-chlorophenyl)ethyl)- (9 CI)

Chlordan, cis-

4,7-methanoindan, 1alpha,2alpha,4beta,5,6,7beta,8,8-octachloro-3alpha,4,7,7aalpha-tetrahydro (8 CI); 4,7-methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-, (1alpha,2alpha,3alpha,4beta,7beta,7aalpha)- (9 CI)

Chlordecone

1,3,4-tetraeno-2H-cyclobuta (cd) pentalen-2-one, 1,1a,2,3a,4,5,5,5a,5b,6-decachlorooctahydro-

Chlorosene

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Chlorinated camphene

Camphene

Chlorinated diphenyl

Diphenyl, chloro (8 CI); 1,1'-Diphenyl, chloro derivs (9 CI)

Chlorophenothane

Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(p-chloro- (9 CI)

Chlorophenothan

Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(p-chloro- (9 CI)

Chlorphenotex

Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(p-chloro- (9 CI)

Chromium

Chromium

Cis-Chlordan

4,7-methanoindan, 1alpha,2alpha,4beta,5,6,7beta,8,8-octachloro-3alpha,4,7,7aalpha-tetrahydro (8 CI); 4,7-methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-, (1alpha,2alpha,3alpha,4beta,7beta,7aalpha)- (9 CI)

Cis-Chlordane

4,7-methanoindan, 1alpha,2alpha,4beta,5,6,7beta,8,8-octachloro-3alpha,4,7,7aalpha-tetrahydro (8 CI); 4,7-methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-, (1alpha,2alpha,3alpha,4beta,7beta,7aalpha)- (9 CI)

Cis-Nonachlor

4,7-methanoindan, 1alpha,2alpha,3alpha,4beta,5,6,7beta,8,8-nonachloro-3alpha,4,7,7aalpha-tetrahydro- (8 CI); 4,7-methano-1H-indene, 1,2,3,4,5,6,7,8,8-nonachloro-2,3,3a,4,7,7a-hexahydro- (1alpha,2alpha,3alpha,3alpha,4beta,7aalpha)- (9 CI)

Citor

Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(p-chloro- (9 CI)

Ciofenotax

Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(p-chloro- (9 CI)

Ciofenotane

Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(p-chloro- (9 CI)

Clordecone

1,3,4-tetraeno-2H-cyclobuta (cd) pentalen-2-one, 1,1a,2,3a,4,5,5,5a,5b,6-decachlorooctahydro-

Co-op Hexa

Benzene, hexachloro-

Coal tar cresote

Cresote

Cobalt

Cobalt

Cobalt-59
Cobalt

Codexine

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Colloidal manganese
Manganese

Compound 1189

1,3,8-Metheno-2H-cyclobuta(cd)pentalen-2-one, 1,1a,3,3a,4,5,5a,5b,6-Decachlorooctahydro-

Compound 897

1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-, endo,exo- (8 CI); 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1alpha,2beta,2alpha,3beta,6beta,6alpha,7beta,7alpha)- (9 CI)

Copper

Copper

Copper # 1

Copper

Copper powder

Copper

Cotofils

Phenol, 2,2'-ethylenebis(3,4,6-trichloro-

Cresomethazine

Sulfanilamide, N(1)-(4,6-dimethyl-2-pyridinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyridinyl)- (9 CI)

Creosote from coal tar

Creosote

Creosote oil

Creosote

Cu 73

Copper

CuEP

Copper

CuEPP

Copper

Cutaval

Manganese

DDE

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

DCH3

Urea, 3-(3,4-dichlorophenyl)-1,1-dimethyl- (8 CI); Urea, N'-(3,4-dichlorophenyl)-N,N-dimethyl- (9 CI)

DCEP1

Copper

DD3

Ethane, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylenylidene)bis(4-chloro- (9 CI)

DD2

Ethylene, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(dichloroethylenylidene)bis(4-chloro- (9 CI)

DD1

Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylenylidene)bis(4-chloro- (9 CI)

Decachloroketone

1,3,8-Metheno-2H-cyclobuta(cd)pentalen-2-one, 1,1a,3,3a,4,5,5a,5b,6-Decachlorooctahydro-

Decachlorooctahydro-1,3,8-metheno-2H-cyclobuta(cd)pentalen-2-one

1,3,8-Metheno-2H-cyclobuta(cd)pentalen-2-one, 1,1a,3,3a,4,5,5a,5b,6-Decachlorooctahydro-

Decachloropentacyclo(5.2.1.0(2,6).0(3,9).0(5),(8))decas-4-one

1,3,8-Metheno-2H-cyclobuta(cd)pentalen-2-one, 1,1a,3,3a,4,5,5a,5b,6-Decachlorooctahydro-

Dechlorane

1,3,8-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5a,5b,6-dodecachlorooctahydro-

Dechlorane Plus

1,3,8-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5a,5b,6-dodecachlorooctahydro-

- Dechlorane Plus 515**
1,3,8-Hetheno-1H-cyclobuta (cd)pentalene, 1,1a,2,2,3,3a,4,5,5a,5b,6-dodecachlorooctahydro-
- Dechlorane 4070**
1,3,8-Hetheno-1H-cyclobuta (cd)pentalene, 1,1a,2,2,3,3a,4,5,5a,5b,6-dodecachlorooctahydro-
- Dechlorane 515**
1,3,8-Hetheno-1H-cyclobuta (cd)pentalene, 1,1a,2,2,3,3a,4,5,5a,5b,6-dodecachlorooctahydro-
- Deval**
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)
- Detol-Extrakt**
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)
- Detox**
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)
- Detoxan**
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)
- Devoran**
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)
- Diazil**
Sulfanilamide, N(1)-(4,6-dimethyl-2-pyridinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyridinyl)- (9 CI)
- Diazil [the sulfanilamide]**
Sulfanilamide, N(1)-(4,6-dimethyl-2-pyridinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyridinyl)- (9 CI)
- Diazyl**
Sulfanilamide, N(1)-(4,6-dimethyl-2-pyridinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyridinyl)- (9 CI)
- Dibovin**
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)
- Dichlorodiphenyl dichloroethane**
Ethane, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)
- Dichlorodiphenyltrichloroethane**
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)
- Dicophane**
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)
- Dieldrex**
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-, endo,exo- (8 CI); 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1alpha,2beta,2alpha,3beta,6beta,6alpha,7beta,7alpha)- (9 CI)
- Dieldrin**
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-, endo,exo- (8 CI); 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1alpha,2beta,2alpha,3beta,6beta,6alpha,7beta,7alpha)- (9 CI)
- Dielath**
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-, endo,exo- (8 CI); 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1alpha,2beta,2alpha,3beta,6beta,6alpha,7beta,7alpha)- (9 CI)
- Dilene**
Ethane, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)
- Diozathine**
Sulfanilamide, N(1)-(4,6-dimethyl-2-pyridinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyridinyl)- (9 CI)
- Diorin [herbicide contaminant]**
Dibenzo-p-diorin, 2,3,7,8-tetrachloro- (8 CI); Dibenzo(b,e)(1,4)dioxin, 2,3,7,8-tetrachloro- (9 CI)
- Distodin**
Phenol, 2,2'-methylenabis(3,4,6-trichloro-
- Diuron**
Urea, 3-(3,4-dichlorophenyl)-1,1-dimethyl- (8 CI); Urea, N'-(3,4-dichlorophenyl)-N,N-dimethyl- (9 CI)

- DHS (VAV)**
Urea, 3-(3,4-dichlorophenyl)-1,1-dimethyl- (8 CI); Urea, N³-(3,4-dichlorophenyl)-N,N-dimethyl- (9 CI)
- Dolat**
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)
- Dolacchlorooctahydro-1,3,4-metheno-2H-cyclobuta (cd) pentalene**
1,3,4-metheno-1H-cyclobuta (cd) pentalene, 1,1a,2,2,3,3a,4,5,5a,5b,6-dodecachlorooctahydro-
- Dol Granule**
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)
- Dorytor**
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-, endo,exo- (8 CI); 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1alpha,2beta,2alpha,3beta,6beta,6alpha,7beta,7alpha)- (9 CI)
- Dovicide 7**
Phenol, pentachloro-
- Drillitor-Spezial Aglukon**
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)
- Duran**
Urea, 3-(3,4-dichlorophenyl)-1,1-dimethyl- (8 CI); Urea, N³-(3,4-dichlorophenyl)-N,N-dimethyl- (9 CI)
- Dykol**
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)
- E 331a**
4,7-Methanoindene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI)
- E-Cu57**
Copper
- EHT 15,152**
4,7-Methanoindene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI)
- EHT 25,584**
4,7-Methanoindane, 1,4,5,6,7,8,8-heptachloro-2,3-epoxy-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-2H-indeno(1,2-b)oxirene, 2,3,4,5,6,7,7-heptachloro-1a,1b,5,5a,6,6a-hexahydro- (9 CI)
- EHT 25,719**
1,3,4-Methano-1H-cyclobuta (cd) pentalene, 1,1a,2,2,3,3a,4,5,5a,5b,6-dodecachlorooctahydro-
- EHT 25540**
Phosphorothioic acid, O,O-dimethyl O-(4-methylthio)-p-tolyl ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-(methylthio)phenyl) ester (9 CI)
- EHT 7,796**
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)
- EHT-1506**
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)
- EHT-16225**
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-, endo,exo- (8 CI); 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1alpha,2beta,2alpha,3beta,6beta,6alpha,7beta,7alpha)- (9 CI)
- EHT-16391**
1,3,4-Methano-2H-cyclobuta (cd) pentalen-2-one, 1,1a,1,3a,4,5,5a,5b,6-decachlorooctahydro-
- Enter**
Phosphorothioic acid, O,O-dimethyl O-(4-methylthio)-p-tolyl ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-(methylthio)phenyl) ester (9 CI)
- Etonoxan**
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)
- E05A**
Iron
- EP 30**
Phenol, pentachloro-
- Epoxyheptachlor**
4,7-Methanoindane, 1,4,5,6,7,8,8-heptachloro-2,3-epoxy-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-2H-indeno(1,2-b)oxirene, 2,3,4,5,6,7,7-heptachloro-1a,1b,5,5a,6,6a-hexahydro- (9 CI)

Ethanol
Ethylene

Estimate
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene,
1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Estimate
Toxaphene

Ethane, 1,1,1-trichloro-2,2-bis(4-chlorophenyl)
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene,
1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Exofene
Phenol, 2,2'-methylenebis(3,4,6-trichloro-

Exanthion
Phosphorothioic acid, O,O-dimethyl O-(4-methylthio)-n-tolyl ester (8 CI); Phosphorothioic acid,
O,O-dimethyl O-(3-methyl-4-(methylthio)phenyl) ester (5 CI)

Ferrovac E
Iron

Festis-sin
Phenol, 2,2'-methylenebis(3,4,6-trichloro-

Fluorine
Fluorine

Fluorine-19
Fluorine

Forst U 46
Acetic acid, (2,4,5-trichlorophenoxy)-

Forst-Benzen
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-,
(1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Portex
Acetic acid, (2,4,5-trichlorophenoxy)-

Postril
Phenol, 2,2'-methylenebis(3,4,6-trichloro-

Pungifen
Phenol, pentachloro-

11
Phenol, 2,2'-methylenebis(3,4,6-trichloro-

gamma-Benzene hexachloride
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-,
(1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

gamma-Benzene hexachloride
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-,
(1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

gamma-BHC
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-,
(1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

gamma-BCH
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-,
(1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

gamma-Hexachloran
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-,
(1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

gamma-Hexachlorane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-,
(1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

gamma-Hexachlorobenzene
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-,
(1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

gamma-Hexachlorocyclohexane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-,
(1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

gamma-Lindane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-,
(1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

gamma-1,2,3,4,5,6-homochlorocyclohexane

Cyclohexane, 1,2,3,4,5,6-homochloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-homochloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Zanator

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Zanophen

Phenol, 2,2'-methylenobis(3,4,6-trichloro-

Zanophene

Phenol, 2,2'-methylenobis(3,4,6-trichloro-

ZC 1809

1,3,4-Methano-2H-cyclobuta (cd)pentale-2-one, 1,1a,3,3a,4,5,5a,5b,6-dodecachlorooctahydro-

ZC 1203

1,3,4-Methano-1H-cyclobuta (cd)pentaleone, 1,1a,2,2,3,3a,4,5,5a,5b,6-dodecachlorooctahydro-

Zeniphene

Tenaphene

Cercus-Medica

Phenol, 2,2'-methylenobis(3,4,6-trichloro-

Gesafid

Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Zesarel

Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Zezane

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Zrth

4,7-Methanoindane, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI)

Grey arsenic

Arsenic

Grandier Arbezol

Phenol, pentachloro-

ZCB

Benzene, hexachloro-

ZCC

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

ZCCB

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

ZCS

4,7-Methanoindane, 1,4,5,6,7,8,8-heptachloro-2,3-epoxy-3a,4,7,7a-tetrahydro- (8 CI); 2,5-Methano-2H-indene(1,2-b)oxirane, 2,3,4,5,6,7,7-heptachloro-1a,1b,5,5a,6,6a-hexahydro- (9 CI)

ZCN

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Zecletox

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

ZEOB

1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-, endo,exo- (8 CI); 2,7:3,6-Dimethanonaphth(2,3-b)oxirane, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1alpha,2beta,2alpha,3beta,6beta,6alpha,7beta,7alpha)- (9 CI)

Zepta

4,7-Methanoindane, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI)

Heptachlor

4,7-Methanoindane, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI)

Heptachlor epoxide

4,7-Methanoindane, 1,4,5,6,7,8,8-heptachloro-2,3-epoxy-3a,4,7,7a-tetrahydro- (8 CI); 2,5-Methano-2H-indene(1,2-b)oxirane, 2,3,4,5,6,7,7-heptachloro-1a,1b,5,5a,6,6a-hexahydro- (9 CI)

Heptachlorane

4,7-Dethaneindene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Dethane-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI)

Isobutox (VAM)

Urea, 3-(3,4-dichlorophenyl)-1,1-dimethyl- (8 CI); Urea, N'-(3,4-dichlorophenyl)-2,2-diethyl- (9 CI)

Tercales 3956

Tozaphene

Hexa

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Hexahls

Phenol, 2,2'-methylenobis(3,4,6-trichloro-

Hexachloran

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Hexachlorane

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Hexachlorobenzene

Benzene, hexachloro-

Hexachlorocyclopentadiene dimer

1,3,4-Methano-1H-cyclobuta(4d)pentadiene, 1,1a,2,2,3,3a,4,5,5a,5b,6-dodecachlorooctahydro-

Hexachlorofen

Phenol, 2,2'-methylenobis(3,4,6-trichloro-

Hexachlorophen

Phenol, 2,2'-methylenobis(3,4,6-trichloro-

Hexachlorophene

Phenol, 2,2'-methylenobis(3,4,6-trichloro-

Hexafen

Phenol, 2,2'-methylenobis(3,4,6-trichloro-

Hexavoca

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Hexicide

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Hexophene

Phenol, 2,2'-methylenobis(3,4,6-trichloro-

Hexosma

Phenol, 2,2'-methylenobis(3,4,6-trichloro-

Hexyclan

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

HGI

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Hortex

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Hungaria I 7

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

HV 920

Urea, 3-(3,4-dichlorophenyl)-1,1-dimethyl- (8 CI); Urea, N'-(3,4-dichlorophenyl)-N,N-diethyl- (9 CI)

Iloxol

1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-, endo,exo- (8 CI); 2,7:3,6-Dimethanonaphth(2,3-b)oxirane, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1alpha,2beta,2alpha,3beta,6beta,6alpha,7beta,7alpha)- (9 CI)

Insectack

1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-, endo,exo- (8 CI); 2,7:3,6-Dimethanonaphth(2,3-b)oxirane, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1alpha,2beta,2alpha,3beta,6beta,6alpha,7beta,7alpha)- (9 CI)

Iodine

Iodine

Iodine ((127) I2)

Iodine

Iodine colloidal

Iodine

Iodine crystals

Iodine

Iodine sublimed

Iodine

Iodine-127

Iodine

Ionium

Thorium, isotope of mass 230

Ioson Superdip

Iodine

Iron

Iron

Iveran

Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Jacutin

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Julia's carbon chloride

Benzene, hexachloro-

Kafal copper

Copper

Kasfochlor

Toxaphene

Kerasox

Urea, 3-(3,4-dichlorophenyl)-1,1-dimethyl- (8 CI); Urea, N'-(3,4-dichlorophenyl)-N,N-dimethyl- (9 CI)

Kersox

Urea, 3-(3,4-dichlorophenyl)-1,1-dimethyl- (8 CI); Urea, N'-(3,4-dichlorophenyl)-N,N-dimethyl- (9 CI)

Kersox Diuron Herbicide

Urea, 3-(3,4-dichlorophenyl)-1,1-dimethyl- (8 CI); Urea, N'-(3,4-dichlorophenyl)-N,N-dimethyl- (9 CI)

Kersox D7

Urea, 3-(3,4-dichlorophenyl)-1,1-dimethyl- (8 CI); Urea, N'-(3,4-dichlorophenyl)-N,N-dimethyl- (9 CI)

Kelasetazine

Sulfanilamide, N(1)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)

Kepone

1,3,4-Ethene-2H-cyclobuta(cd)pentalen-2-one, 1,1a,3,3a,4,5,5a,5b,6-decachlorooctahydro-

Koketine

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Kosbi-Albertan

1,8:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-, endo,exo- (8 CI); 2,1:3,6-Dimethanonaphth(2,3-b)oxirane, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1alpha,2beta,3alpha,3beta,6beta,6alpha,7beta,7alpha)- (9 CI)

KS-4

Lead

Kuall

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

L 3

Silver

Laurtel

Phenol, pentachloro-

Lead

Lead

Lead Fluke

Lead

Lead of mass 210

Lead, isotope of mass 210

Lead 52
Lead

Lead-210
Lead, isotope of mass 210

Lebaycid
Phosphorothioic acid, O,O-dimethyl O-(4-methylthio-3-tolyl ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-(methylthio)phenyl) ester (9 CI)

Lendine
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Lentox
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Lidenal
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Lindane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Lindator
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Linder
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Lindor
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Listor
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Livur
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Liropro
Phenol, pentachloro-

Loba
Iron

Lorexane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Lysedron
Ethane, 1,1-dichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)- (8 CI); Benzene, 1-chloro-2-(2,2-dichloro-1-(o-chlorophenyl)ethyl)- (9 CI)

M 1
Copper

M 3
Copper

M 4
Copper

M 555
Toxaphene

Manganese
Manganese

Merser
Urea, 3-(3,4-dichlorophenyl)-1,1-dimethyl- (8 CI); Urea, N'-(3,4-dichlorophenyl)-N,N-dimethyl- (9 CI)

MchVL
Molybdenum

Mefanal
Sulfacilamide, N(1)-(4,6-dimethyl-2-pyridinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyridinyl)- (9 CI)

Melipax
Toxaphene

Terminology (TIS)

Phosphorothioic acid, O,O-dimethyl O-(4-methylthio)-p-tolyl ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-(methylthio)phenyl) ester (9 CI)

Tetrazol

Mercury

Tetrazol

1,3,4-tetrazo-1H-cyclobuta(c,d)pentalein-2-one, 1,1a,3,3a,4,5,5a,5b,6-dodecachlorooctahydro-

Tetrazol

Sulfonamide, N-(4-(4,6-dimethyl-2-pyrimidinyl))- (8 CI); Benzene-sulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)

Tetrazol

Mercury

Tetrazol

Methyl mercury ion, Mercury(II), methyl-, ion (9 CI); Mercury(II), methyl- (9 CI)

Tetrazol

Mercury(II), methyl-, ion (8 CI); Mercury(II), methyl- (9 CI)

Tetrazol

Mercury(II), methyl-, ion (8 CI); Mercury(II), methyl- (9 CI)

Tetrazol

Mercury(II), methyl-, ion (8 CI); Mercury(II), methyl- (9 CI)

Tetrazol

Mercury(II), methyl-, ion (8 CI); Mercury(II), methyl- (9 CI)

Tetrazol

Pyrene, methyl-

Tetrazol

Ethane, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

Tetrazol

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Tetrazol

1,3,4-tetrazo-1H-cyclobuta(c,d)pentalein, 1,1a,2,2,3,3a,4,5,5a,5b,6-dodecachlorooctahydro-

Tetrazol

Ethane, 1,1-dichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)- (8 CI); Benzene, 1-chloro-2-(2,2-dichloro-1-(4-chlorophenyl)ethyl)- (9 CI)

Tetrazol

Ethane, 1,1-dichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)- (8 CI); Benzene, 1-chloro-2-(2,2-dichloro-1-(4-chlorophenyl)ethyl)- (9 CI)

Tetrazol

Iodine

Tetrazol

Silylene

Tetrazol

1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-, endo,exo- (8 CI); 2,7:3,6-Dimethanonaphth(2,3-b)oxirane, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1alpha,2beta,2alpha,3beta,6beta,6alpha,7beta,7alpha)- (9 CI)

Tetrazol

Phosphorothioic acid, C,O-dimethyl O-(4-methylthio)-p-tolyl ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-(methylthio)phenyl) ester (9 CI)

Tetrazol

Phosphorothioic acid, O,O-dimethyl O-(4-methylthio)-p-tolyl ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-(methylthio)phenyl) ester (9 CI)

Tetrazol

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Tetrazol

Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Tetrazol

Copper

Tetrazol

Copper

Tetrazol

Copper

835

Copper

931

Copper

94 { copper }

Copper

1 (U)-(4,6-dimethyl-2-pyrimidinyl)sulfanilamide

Sulfanilamide, S(U)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, o-amino-S-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)

1 (U)-(4,6-dimethyl-2-pyrimidinyl)sulfanilamide

Sulfanilamide, S(U)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, o-amino-S-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)

S-(3,4-dichlorophenyl)-S',S'-dimethylurea

Urea, S-(3,4-dichlorophenyl)-S',S'-dimethyl- (8 CI); Urea, S'-(3,4-dichlorophenyl)-S,S'-dimethyl- (5 CI)

S-(4,6-dimethyl-2-pyrimidinyl)sulfanilamide

Sulfanilamide, S(U)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, o-amino-S-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)

S-Hydroxyoctanamide

Octanethioformic acid (8 CI); Octanamide, S-hydroxy- (9 CI)

S'-(3,4-dichlorophenyl)-S,S'-dimethylurea

Urea, S-(3,4-dichlorophenyl)-S',S'-dimethyl- (8 CI); Urea, S'-(3,4-dichlorophenyl)-S,S'-dimethyl- (9 CI)

Tahac

Phenol, 2,2'-methylenobis(3,4,6-trichloro-

Tearline

Sulfanilamide, S(U)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, o-amino-S-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)

Tearline

Sulfanilamide, S(U)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, o-amino-S-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)

Tee-Scabicide

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Teeclid

Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(p-chloro- (9 CI)

Teeclidol

Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(p-chloro- (9 CI)

Teecept Y

Phenol, 2,2'-methylenobis(3,4,6-trichloro-

Teece FD

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Teezit

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Teezit-start

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Teezol-2

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Ti 0901-S(Harnav)

Nickel

Ti 270

Nickel

Ti 42037

Nickel

Nickel

Nickel

Nickel 872

Nickel

Nickel 270

Nickel

Vinclozolin

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Vc 3000

Benzene, hexachloro-

Vc 3000 Liquid

Benzene, hexachloro-

Vc 3000 00

Benzene, hexachloro-

Vc 3000 00

Benzene, hexachloro-

Vinclozolin, cis

8,7-Methanocyclohexane, 1alpha,2alpha,3alpha,4beta,5,6,7beta,8,8-dioxachloro-3alpha,4,7,7-tetrahydro- (8 CI); 8,7-Methano-1H-indene, 1,2,3,4,5,6,7,8-octachloro-2,3,3a,4,7,7a-hexahydro- (1alpha,2alpha,3alpha,4beta,5alpha,6beta,7alpha,8)- (9 CI)

VPS

Nickel

VSC-30721

Ethane, 1,1-dichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)- (8 CI); Benzene, 1-chloro-2-(2,2-dichloro-1-(o-chlorophenyl)ethyl)- (9 CI)

V, P'-300

Ethane, 1,1-dichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)- (8 CI); Benzene, 1-chloro-2-(2,2-dichloro-1-(o-chlorophenyl)ethyl)- (9 CI)

V, P'-Dichlorodiphenylidichloroethane

Ethane, 1,1-dichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)- (8 CI); Benzene, 1-chloro-2-(2,2-dichloro-1-(o-chlorophenyl)ethyl)- (9 CI)

V, P'-DDE

Ethane, 1,1-dichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)- (8 CI); Benzene, 1-chloro-2-(2,2-dichloro-1-(o-chlorophenyl)ethyl)- (9 CI)

Octachlor epoxide

8,7-Methanocyclohexane, 1,2,3,4,5,6,7,8-octachloro-1,2-epoxy-3a,4,7,7a-tetrahydro- (8 CI); 2,5-Methano-2H-indeno(1,2-b)oxirane, 1a,2,3,4,5,6a,7,7-octachloro-1a,1b,5,5a,6,6a-hexahydro- (9 CI)

Octalox

1,8:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-, endo,exo- (8 CI); 2,7:3,6-Dimethanonaphth(2,3-b)oxirane, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1alpha,2beta,3alpha,4beta,5beta,6alpha,7beta,8alpha)- (9 CI)

Octanolhydroxamic acid

Octanohydroxamic acid (8 CI); Octanamide, N-hydroxy- (9 CI)

OFBC Ca

Copper

Omitox

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

ONS 2

Phosphorothioic acid, O,O-dimethyl O-(o-methylthio)-o-tolyl ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(p-methyl-o-methylthio)phenyl ester (9 CI)

Ovadziak

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Ovadziak

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Oxychloride

8,7-Methanocyclohexane, 1,2,3,4,5,6,7,8-octachloro-1,2-epoxy-3a,4,7,7a-tetrahydro- (8 CI); 2,5-Methano-2H-indeno(1,2-b)oxirane, 1a,2,3,4,5,6a,7,7-octachloro-1a,1b,5,5a,6,6a-hexahydro- (9 CI)

Oxychloride

8,7-Methanocyclohexane, 1,2,3,4,5,6,7,8-octachloro-1,2-epoxy-3a,4,7,7a-tetrahydro- (8 CI); 2,5-Methano-2H-indeno(1,2-b)oxirane, 1a,2,3,4,5,6a,7,7-octachloro-1a,1b,5,5a,6,6a-hexahydro- (9 CI)

P, P'-DDE

Ethane, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(o-chloro- (9 CI)

P, P'-DDE

Ethylene, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(dichloroethylidene)bis(o-chloro- (9 CI)

P, P'-DDT

Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(o-chloro- (9 CI)

- p,p'-Dichlorodiphenyl-2,2-dichloroethylene**
Ethane, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethyldiene)bis(4-chloro- (9 CI)
- p,p'-Dichlorodiphenyldichloroethane**
Ethane, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethyldiene)bis(4-chloro- (9 CI)
- p,p'-Dichlorodiphenyltrichloroethylene**
Ethylene, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(dichloroethenyldiene)bis(4-chloro- (9 CI)
- p,p'-Dichlorodiphenyltrichloroethane**
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethyldiene)bis(4-chloro- (9 CI)
- p,p'-TDE**
Ethane, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethyldiene)bis(4-chloro- (9 CI)
- Parachlorocidam**
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethyldiene)bis(4-chloro- (9 CI)
- Paramez**
Sulfanilamide, 8(7)-(4,6-dimethyl-2-pyridinyl)- (8 CI); Benzene-sulfonamide, 4-amino-8-(4,6-dimethyl-2-pyridinyl)- (9 CI)
- PCB**
Biphenyl, chloro (8 CI); 1,1'-Biphenyl, chloro decive (9 CI)
- PCB 1254**
Aroclor 1254
- PCB 1260**
Aroclor 1260
- PCMX**
Toxaphene
- PCP**
Phenol, pentachloro-
- PEB**
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethyldiene)bis(4-chloro- (9 CI)
- Pedroclak**
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)
- Pentchlorol**
Phenol, pentachloro-
- Pentphone**
Toxaphene
- Penta**
Phenol, pentachloro-
- Pentachloria**
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethyldiene)bis(4-chloro- (9 CI)
- Pentachlorophenol**
Phenol, pentachloro-
- Pentachlorophenyl chloride**
Benzene, hexachloro-
- Pentichloro**
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethyldiene)bis(4-chloro- (9 CI)
- Pentchlorobenzene**
Benzene, hexachloro-
- Pentchlorodibenzene**
1,3,4-dithiane-1H-cyclobuta (cd) pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-
- Pentchloropentacyclo[5.2.1.0(2,6).0(3,9).0(5,8)]decane**
1,3,4-dithiane-1H-cyclobuta (cd) pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-
- Pentchloropentacyclodecane**
1,3,4-dithiane-1H-cyclobuta (cd) pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-
- Permeon**
Phenol, pentachloro-

Pflanzol

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Phenoxide

To Phenol

Phenotol

Toxaphene

Phenylol

Phosphorothioic acid, O,O-dimethyl O-(4-methylthio)-n-ethyl ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-(methylthio)phenyl) ester (9 CI)

Phisomex

Phenol, 2,2'-methylenebis(1,4,6-trichloro-

Piroesia

Sulfanilamide, N(1)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, o-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)

Polonium-210

Polonium, isotope of mass 210

Polychlorocyclopentadiene

Toxaphene

P2b-1H3

Iron

P2b-2

Iron

P2b1H1

Iron

P2b2H

Iron

P2b2H1

Iron

P2b2H2

Iron

P2b3

Iron

P2b3H

Iron

P2b4

Iron

Queletoz

Phosphorothioic acid, O,O-dimethyl O-(4-methylthio)-n-ethyl ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-(methylthio)phenyl) ester (9 CI)

Quellada

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Quicksilver

Mercury

Radium B

Lead, isotope of mass 210

Radium F

Polonium, isotope of mass 210

Radium-226

Radium, isotope of mass 226

Raney alloy

Nickel

Raney copper

Copper

Raney nickel

Nickel

SCN 55/5

Nickel

Red Shield

1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-, endo,exo- (8 CI); 2,7:1,6-Dimethanonaphth(2,3-b)azirone, 1,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1alpha,2beta,2alpha,3beta,6beta,6alpha,7beta,7alpha)- (9 CI)

Shedachlor

0,7-Detachloridene, 1,0,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 0,7-Detane-12-ylene, 1,4,5,6,7,8,9-heptachloro-3a,4,7,7a-tetrahydro- (9 CI)

Rhothane

Ethane, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylenes) bis(0-chloro- (9 CI)

Ritosept

Phenol, 2,2'-methylenbis(3,4,6-trichloro-

S 1752

Phosphorothioic acid, 0,0-dimethyl 0-(0-methylthio)-o-tolyl ester (8 CI); Phosphorothioic acid, 0,0-dimethyl 0-(3-methyl-0-(methylthio)phenyl) ester (9 CI)

S-Sex

Sulfanilamide, N(1)-(0,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(0,6-dimethyl-2-pyrimidinyl)- (9 CI)

Sang-guana

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Sasocide

Benzene, hexachloro-

Santophen 20

Phenol, pentachloro-

SB 3417

1,0:5,8-Bisothronaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-, endo,exo- (8 CI); 2,7:3,6-Bisothronaphth(2,3-b)-xirane, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1alpha,2beta,2alpha,3beta,6beta,6alpha,7beta,7alpha)- (9 CI)

Selenius

Selenius

Septisol

Phenol, 2,2'-methylenbis(3,4,6-trichloro-

Septofen

Phenol, 2,2'-methylenbis(3,4,6-trichloro-

Shell Silver

Silver

Silflake 135

Silver

Silver

Silver

Silver ston

Silver

Silver metal

Silver

Suiclotox

Benzene, hexachloro-

Synbolot

Sulfanilamide, N(1)-(0,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(0,6-dimethyl-2-pyrimidinyl)- (9 CI)

Spritz-Sapidin

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Sprechpflanzel

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Sr 999

Silver

Steral

Phenol, 2,2'-methylenbis(3,4,6-trichloro-

Sterastin

Phenol, 2,2'-methylenbis(3,4,6-trichloro-

Stroanex

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Strobano 7

Toxaphene

Sulfadiazotriazine

Sulfanilamide, N(1)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)

Sulfadiazosin

Sulfanilamide, N(1)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)

Sulfadiazoxine

Sulfanilamide, N(1)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)

Sulfadimethyldiazine

Sulfanilamide, N(1)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)

Sulfadimethylpyrimidine

Sulfanilamide, N(1)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)

Sulfadimorin

Sulfanilamide, N(1)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)

Sulfadimorine

Sulfanilamide, N(1)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)

Sulfadinidin

Sulfanilamide, N(1)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)

Sulfadinidine

Sulfanilamide, N(1)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)

Sulfadine

Sulfanilamide, N(1)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)

Sulfamethazine

Sulfanilamide, N(1)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)

Sulfamethiazine

Sulfanilamide, N(1)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)

Sulfamoxazine

Sulfanilamide, N(1)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)

Sulfidophos

Phosphorothioic acid, O,O-dimethyl O-(4-methylthio)-p-tolyl ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-(methylthio)phenyl) ester (9 CI)

Sulfir

Sulfanilamide, N(1)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)

Sulfidiazosin

Sulfanilamide, N(1)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)

Sulfidiazoxine

Sulfanilamide, N(1)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)

Sulmet

Sulfanilamide, N(1)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)

Sulphedimethylpyrimidine

Sulfanilamide, N(1)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)

Sulphedimidine

Sulfanilamide, N(1)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)

Sulphonmethazine

Sulfanilamide, N(1)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)

Sulphonmethazine

Sulfanilamide, N(1)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)

- Sulphanotethione**
Sulfanilamide, 5(1)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)
- Sulphanidine**
Sulfanilamide, 5(1)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)
- Sulphadiazine**
Sulfanilamide, 5(1)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)
- Supracetyl**
Sulfanilamide, 5(1)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)
- Suproetyl**
Sulfanilamide, 5(1)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)
- Surgi-Con**
Phenol, 2,2'-methylenobis(3,4,6-trichloro-
- Surofene**
Phenol, 2,2'-methylenobis(3,4,6-trichloro-
- SVI B-2**
Iron
- Synthetic 3956**
Toxaphene
- S9**
Lead
- S1**
Lead
- Tafidex**
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)
- Taloder**
Phosphorothioic acid, O,O-dimethyl O-(4-methylthio)-n-allyl ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-(methylthio)phenyl) ester (9 CI)
- Tap 85**
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)
- Tanella**
Octanohydroxamic acid (8 CI); Octanamide, N-hydroxy- (9 CI)
- TCDD**
Dibenzo-p-dioxin, 2,3,7,8-tetrachloro- (8 CI); Dibenzo(b,e)(1,4)dioxin, 2,3,7,8-tetrachloro- (9 CI)
- TCDF**
Dibenzo-p-dioxin, 2,3,7,8-tetrachloro- (8 CI); Dibenzo(b,e)(1,4)dioxin, 2,3,7,8-tetrachloro- (9 CI)
- TDE**
Ethane, 1,1-dichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)- (8 CI); Benzene, 1-chloro-2-(2,2-dichloro-1-(o-chlorophenyl)ethyl)- (9 CI)
Ethane, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)
- Telvar Diuron Weed Killer**
Urea, 3-(3,4-dichlorophenyl)-1,1-dimethyl- (8 CI); Urea, N'-(3,4-dichlorophenyl)-N,N-dimethyl- (9 CI)
- Terasceptic**
Phenol, 2,2'-methylenobis(3,4,6-trichloro-
- Tersitor**
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,6a,5,6,7,8,8a-octahydro-, endo,exo- (8 CI); 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1alpha,2beta,2alpha,3beta,6beta,6alpha,7beta,7alpha)- (9 CI)
- Tetrachlorodiphenyl ethane**
Ethane, 1,1-dichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)- (8 CI); Benzene, 1-chloro-2-(2,2-dichloro-1-(o-chlorophenyl)ethyl)- (9 CI)
Ethane, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)
- Tetraphene**
Benz(a)anthracene
- Thorium-230**
Thorium, isotope of mass 230

Thorium, isotope mass-230
Thorium, isotope of mass 230

Pigwax

Phosphorothioic acid, O,O-dimethyl O-(4-methylthio-m-tolyl ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-(methylthio)phenyl ester (9 CI)

DDT

Total DDT (No postings in CHEMLIST).

Toxakil

Toxaphene

Toxaphen

Toxaphene

Toxyphen

Toxaphene

trans-Nonachlor

8,7-Methano-1H-indene, 1,2,3,4,5,6,7,8,8-nonachloro-2,3,3a,4,7,7a-hexahydro-, (1alpha,2beta,3alpha,3alpha,6beta,7beta,7alpha)-

Tri-6

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Trichlorobis(4'-chlorophenyl)ethane

Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Trichlorophene

Phenol, 2,2'-methylenebis(3,4,6-trichloro-

Trioxon

Acetic acid, (2,4,5-trichlorophenoxy)-

TsH

Silylbenzene

Uranium I (238U)

Uranium

Uranium-238

Uranium

V 9

Silver

Veliscol 104

8,7-Methanoindane, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 8,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI)

Veliscol 53-CS-17

8,7-Methanoindane, 1,4,5,6,7,8,8-heptachloro-2,3-epoxy-3a,4,7,7a-tetrahydro- (8 CI); 2,5-Methano-2H-indene(1,2-b)oxirane, 2,3,4,5,6,7,7-heptachloro-1a,1b,5,5a,6,6a-hexahydro- (9 CI)

Vertolan

Sulfanilamide, N(1)-(4,6-dimethyl-2-pyridinyl)- (8 CI); Benzenesulfonamide, o-amino-N-(4,6-dimethyl-2-pyridinyl)- (9 CI)

Vertolin

Sulfanilamide, N(1)-(4,6-dimethyl-2-pyridinyl)- (8 CI); Benzenesulfonamide, o-amino-N-(4,6-dimethyl-2-pyridinyl)- (9 CI)

Verton 2-T

Acetic acid, (2,4,5-trichlorophenoxy)-

Verton 2T

Acetic acid, (2,4,5-trichlorophenoxy)-

Viton

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Zedane

Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Zinc

Zinc

1-(3,4-Dichlorophenyl)-3,3-dimethylurea

Urea, 3-(3,4-dichlorophenyl)-1,1-dimethyl- (8 CI); Urea, N'-(3,4-dichlorophenyl)-N,N-dimethyl- (9 CI)

1,1-Bis(p-chlorophenyl)-2,2-dichloroethane

Ethane, 1,1-dichloro-2-(p-chlorophenyl)-2-(p-chlorophenyl)- (8 CI); Benzene, 1-chloro-2-(2,2-dichloro-1-(p-chlorophenyl)ethyl)- (9 CI)

- Ethane, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI))
- 1,1-bis(p-chlorophenyl)-2,2,2-trichloroethane
 Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI))
- 1,1-bis(4-chlorophenyl)-2,2-dichloroethane
 Ethane, 1,1-dichloro-2-(4-chlorophenyl)-2-(p-chlorophenyl)- (8 CI); Benzene, 1-chloro-2-(2,2-dichloro-1-(4-chlorophenyl)ethyl)- (9 CI)
- Ethane, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI))
- 1,1-bis(4-chlorophenyl)-2,2-bis(p-chlorophenyl)ethane
 Ethane, 1,1-dichloro-2-(4-chlorophenyl)-2-(p-chlorophenyl)- (8 CI); Benzene, 1-chloro-2-(2,2-dichloro-1-(4-chlorophenyl)ethyl)- (9 CI)
- Ethane, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI))
- 1,1-bis(4-chlorophenyl)-2,2-bis(p-chlorophenyl)ethylene
 Ethylene, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(dichloroethenyliene)bis(4-chloro- (9 CI))
- 1,1-bis(4-chlorophenyl)-2,2-bis(p-chlorophenyl)ethane
 Ethane, 1,1-dichloro-2-(4-chlorophenyl)-2-(p-chlorophenyl)- (8 CI); Benzene, 1-chloro-2-(2,2-dichloro-1-(4-chlorophenyl)ethyl)- (9 CI)
- Ethane, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI))
- 1,1-bis(4-chlorophenyl)-2,2-di(p-chlorophenyl)ethylene
 Ethylene, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(dichloroethenyliene)bis(4-chloro- (9 CI))
- 1,1-bis(4-chlorophenyl)-3-(3,4-dichlorophenyl)urea
 Urea, 3-(3,4-dichlorophenyl)-1,1-dimethyl- (8 CI); Urea, 3'-(3,4-dichlorophenyl)-N,N-dimethyl- (9 CI)
- 1,1,1-Trichloro-2,2-bis(p-chlorophenyl)ethane
 Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI))
- 1,1,1-Trichloro-2,2-bis(4,4'-dichlorodiphenyl)ethane
 Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI))
- 1,2-Benz(a)anthracene
 Benz(a)anthracene
- 1,2-Benzanthracene
 Benz(a)anthracene
- 1,2-Benzanthrene
 Benz(a)anthracene
- 1,2-Benzanthracene
 Benz(a)anthracene
- 1,2,3,4,5,6-Hexachlorocyclohexane
 Cyclohexane, 1,2,3,4,5,6-hexachloro-, gasaa- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)
- 1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-, dimer
 1,3,4-Metheno-1H-cyclobeta(cdelta)pentalone, 1,1a,2,2,3,3a,4,5,5a,5b,6-dodecachlorooctahydro-
- 1721 Gold
 Copper
- 2-(p-Aminobenzenesulfonamido)-4,6-dimethylpyrimidine
 Sulfanilamide, N(1)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)
- 2-(2-Chlorophenyl)-2-(4-chlorophenyl)-1,1-dichloroethane
 Ethane, 1,1-dichloro-2-(4-chlorophenyl)-2-(p-chlorophenyl)- (8 CI); Benzene, 1-chloro-2-(2,2-dichloro-1-(4-chlorophenyl)ethyl)- (9 CI)
- 2-Sulfanilamido-4,6-dimethylpyrimidine
 Sulfanilamide, N(1)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)
- 2,2-bis(p-chlorophenyl)-1,1,1-trichloroethane
 Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI))
- 2,2-bis(4-chlorophenyl)-1,1-dichloroethane
 Ethane, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI))

- 2,2-Bis(4-chlorophenyl)-1,1-dichloroethylene
Ethylene, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(dichloroethylenediene)bis(4-chloro- (9 CI)
- 2,2'-Dihydroxy-3,3',5,5',6,6'-hexachlorodiphenylmethane
Phenol, 2,2'-methylenedi(3,4,6-trichloro-
- 2,2'-Dihydroxy-3,5,6,3',5',6'-tetrachlorodiphenylmethane
Phenol, 2,2'-methylenedi(3,4,6-trichloro-
- 2,2'-Methylenedi(3,4,6-trichlorophenol)
Phenol, 2,2'-methylenedi(3,4,6-trichloro-
- 2,2',3,3',5,5'-Hexachloro-6,6'-dihydroxydiphenylmethane
Phenol, 2,2'-methylenedi(3,4,6-trichloro-
- 2,3-Benzophenanthrene
Benz(a)anthracene
- 2,3,7,8-Tetrachlorodibenzo-p-dioxin
Dibenzo-p-dioxin, 2,3,7,8-tetrachloro- (8 CI); Dibenzo(b,e)(1,4)dioxin, 2,3,7,8-tetrachloro- (9 CI)
- 2,3,7,8-Tetrachlorodibenzo-1,4-dioxin
Dibenzo-p-dioxin, 2,3,7,8-tetrachloro- (8 CI); Dibenzo(b,e)(1,4)dioxin, 2,3,7,8-tetrachloro- (9 CI)
- 2,4,5-T
Acetic acid, (2,4,5-trichlorophenoxy)-
- 3-(3,4-Dichlorophenyl)-1,1-dimethylurea
Urea, 3-(3,4-dichlorophenyl)-1,1-dimethyl- (8 CI); Urea, N'-(3,4-dichlorophenyl)-N,N-diethyl- (9 CI)
- 3-Chlorochlorodene
4,7-Methanoindene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI)
- 3,6-Benz(a)pyrene
Benzo(a)pyrene
- 3,6-Benzopyrene
Benzo(a)pyrene
- 3,6-Benzopyrene [carcinogen]
Benzo(a)pyrene
- 4,4'-DDO
Ethane, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylenediene)bis(4-chloro- (9 CI)
- 4,4'-DDE
Ethylene, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(dichloroethylenediene)bis(4-chloro- (9 CI)
- 4,4'-Dichlorodiphenyltrichloroethane
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylenediene)bis(4-chloro- (9 CI)
- 4,6-Dimethyl-2-sulfanilamidopyrimidine
Sulfanilamide, N(1)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzene-sulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI)
- 666
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

ANIMALS

Antelope, pronghorn	Duck, mallard	Salmon, coho
Bass, black sea	Earthworm	Scallop, sea
Bass, largemouth	Eider, common	Scup
Bat, big brown	Fish	Seal
Bat, little brown	Flounder, summer	Shad, American
Beaver	Gannet, Norwegian	Sharwater, sooty
Bluefish	Grebe, western	Sheep
Bluegill	Grouse, ruffed	Shrew
Booby, Peruvian	Gull, great black-backed	Shrimp, freshwater
Bullhead, black	Gull, herring	Snake
Bullhead, brown	Hake, red	Snake, garter
Burbot	Hare	Snake, water
Butterfish	Lobster	Spot
Carp	Magpie	Squirrel, gray
Catfish, channel	Mink	Swan, mute
Cattle	Monkey	Swine
Chicken	Mouse	Tern, Inca
Chubsucker, Greek	Mouse, deer	Toad
Clam, surf	Mouse, field	Trout
Coot, American	Mouse, white-footed	Trout, brook
Cormorant, Guanay	Mullet	Trout, lake
Cormorant, red-legged	Otter	Trout, rainbow
Crab	Oyster	Tuna
Crappie	Perch, yellow	Tuna, albacore
Crappie, black	Pike, northern	Tuna, skipjack
Crayfish	Porpoise, harbor	Tuna, yellowfin
Croaker	Pumpkin seed	Turtle, box
Crocodile, American	Quahog	Turtle, slider
Crow	Rabbit, cottontail	Vole, meadow
Deer, mule	Rabbit, swamp	Vulture, king
Deer, whitetail	Raccoon	

TISSUES AND BODY FLUIDS

Abdomen	Gonads
Adipose	Green gland
Adrenal gland	Gut
Bile	Hair
Blood	Heart
Blood, cells	Hepatopancreas
Blood, plasma	Intestine
Blood, serum	Kidney
Blood, whole	Liver
Body	Lung
Body, whole	Muscle
Bone	Nerve
Brain	Pancreas
Cecum	Pituitary
Claws	Salivary gland
Digestive gland	Skin
Eggs	Spleen
Feathers	Stomach
Fetal	Thorax
Gills	Thyroid gland
Gizzard	Urine

APPENDIX D

Animals, Tissues, and Body Fluids in Data Base

INDICES

Author, page 69

Corporate Author, page 71

Animal-Tissue, page 73

Tissue, page 77

Geography, page 79

Keyword, page 81

68

ASTROZ INDEX

- Addison, S.F. 182-196
 Anderson, R.V. 67, 68, 82, 88, 126, 127, 186, 188, 232, 233, 252, 261, 461, 462, 476, 490
 Andrews, J.W. 128-131
 Auerbeile, A.H. 235, 239, 244
 Bache, C.A. 90-96, 481-487
 Baxter, J.C. 69, 70, 72, 75, 77, 78, 82, 133, 134, 136, 139, 141, 142, 144, 236, 237, 240, 245, 248, 249, 251, 292, 293, 295, 297-300, 464, 465, 467, 470, 472, 473, 475
 Bigler, J.J. 173, 331
 Blue, J.L. 26, 165-167, 270-272
 Boyne, J.V. 159, 223
 Brewik, E.H. 51, 208, 315
 Brown, E.A. 27-32, 43-45, 408-419
 Jugglaai, S.S. 255-257, 308, 309, 314
 Bell, L.S. 279-222
 Bunt, W. 241, 246, 277, 278, 406, 407
 Bush, E. 54
 Cappon, C.J. 331, 305-307, 325, 326, 344-347, 355, 356, 425-428, 430, 431
 Carnahan, J. 285, 293, 304, 339
 Carver, E.A. 509-510
 Castelli, M.G. 177-182
 Chahal, K.S. 457, 458
 Chao, C.L. 100-118
 Cichy, R.F. 62
 Clark, D.B., Jr. 228-31, 259, 260, 262, 273, 274
 Coggia, J.L. 85, 155, 258, 381, 433, 479
 Colquhoun, J.F. 12-15
 Comertie, E. 444-448
 Coon, W.C. 33, 50, 52, 53, 192, 197, 199, 203, 210, 211, 449, 450, 498, 516, 522, 526, 527, 531, 532
 Cox, J.A. 285, 290, 304, 339
 Custer, T.B. 5, 6
 Darrov, D.C. 182-196
 Davis, A.H. 119, 331
 Davis, R.A. 159, 223
 Dean, H.J. 12-15
 Decker, R.A. 275, 276
 Dietrich, T.J. 85, 155, 258, 381, 433, 479
 DiMuzio, J. 285, 290, 304, 339
 Dooley, A.L. 22, 24, 25, 73, 76, 75, 132, 137, 140, 143, 238, 242, 247, 250, 359, 361, 363, 364, 373, 375, 377, 378, 426-422, 441-443, 453-456, 463, 468, 471, 474
 Dowler, J.V. 219-222
 Deiker, J.C. 34-36, 55-57, 169-174, 183-185, 193-195, 199-201, 212-214, 517-519
 Edelstein, E.H. 162
 Edwards, W.C. 22, 24, 25, 73, 76, 75, 132, 137, 140, 143, 238, 242, 247, 250, 359, 361, 363, 364, 373, 375, 377, 378, 426-422, 441-443, 453-456, 463, 468, 471, 474
 Elfvig, D.C. 90-96, 481-487
 Evans, E.L. 147-150
 Fanelli, B. 177-182
 Fierente, B. 51, 208, 315
 Flanjak, J. 21, 23, 71, 74, 120-123, 135, 138, 238, 243, 281, 282, 294, 296, 360, 36, 374, 376, 423, 424, 466, 469
 Fleming, V.J., III 444-446
 Fox, J.D. 219-222
 Frank, L. 286-289, 317-320, 322-324, 340-343, 344-354
 Furr, A.K. 90-96, 481-487
 Garattini, G. 177-182
 Garcia, J.D. 1-4
 Gerlach, H.L. 235, 239, 244
 Giles, E.C. 430-456
 Gochfiell, B. 291, 302, 303, 327, 332
 Goldstein, E.H. 67, 68, 82, 88, 126, 127, 146, 160, 232, 233, 252, 261, 441, 462, 476, 480
 Greichus, Y.A. 397-400
 Greig, E.A. 81, 87, 89, 145, 158, 161, 336-338, 432, 434, 435
 Griffith, F.O., Jr. 509-514
 Gutenmann, W.E. 90-96, 481-487
 Hall, R.J. 45, 59, 60, 186, 196, 202, 215, 216, 329, 330, 497, 515, 520, 521, 523-525, 528-530
 Heman, D.W. 235, 239, 244
 Hanson, J. 405
 Haschek, W.H. 90-96, 481-487
 Haseltine, S.D. 59, 66, 215, 216, 329, 330, 520, 523, 524
 Hatch, E.C. 26, 165-167, 270-272
 Hawkins, W.E. 97-103
 Heath, G.E. 436-440
 Hefron, C.L. 90-96, 481-487
 Heinz, G.W. 5, 6, 59, 60, 215, 216, 329, 330, 520, 523, 524
 Hentzer, P.W. 219-222
 Hillebrand, V.T.J. 34-36, 55-57, 169-174, 183-185, 193-195, 199-201, 212-214, 517-519
 Hoff, G.L. 119, 331
 Holcomb, C.H. 505-508
 Hora, E.E. 47
 Howell, J. 405
 Hunsinger, E.W. 490-496
 Hunt, E.E. 143, 164, 224, 225, 263-269, 444, 449
 Jacobson, E.C. 436-440
 Jain, A.V. 26, 165-167, 270-272
 Jenkins, J.H. 111, 331
 Jensen, S. 54, 96, 315
 Johnson, D.D. 397-400
 Johnson, D.E. 69, 76, 72, 75, 77, 78, 80, 133, 134, 136, 139, 141, 142, 144, 236, 237, 240, 245, 248, 249, 251, 292, 293, 295, 297-300, 464, 465, 467, 470, 472, 473, 475
 Kaiser, T.Z. 49, 186, 196, 204, 457, 515, 521, 525, 528-530
 Kalra, S.K. 457, 458
 Kawashima, Y. 401-404
 Kleinholz, E.W. 69, 70, 72, 75, 77, 78, 80, 133, 134, 136, 139, 141, 142, 144, 236, 237, 240, 245, 248, 249, 251, 292, 293, 295, 297-300, 464, 465, 467, 470, 472, 473, 475
 Kilstrom, J.E. 54, 86, 316
 Kis, J.S. 58
 Kolbe, Z. 33, 50, 52, 53, 192, 197, 198, 203, 210, 211, 449, 450, 498, 516, 522, 526, 527, 531, 532
 Kozuka, H. 401-404
 Kracke, W. 241, 246, 277, 278, 406, 407
 Krynsky, A.J. 59, 60, 215, 216, 329, 330, 520, 523, 524
 Krzyanek, J. 334-334
 Krometh, H. 51, 208, 315
 Lee, H.Y. 21, 23, 71, 74, 120-123, 135, 138, 238, 243, 281, 282, 294, 296, 360, 362, 374, 376, 423, 424, 466, 469
 Libel, G.W. 397-400
 Lindvall, H. 7, 8, 10, 11, 16, 17, 19, 20, 187, 188, 190, 191, 205, 206, 208, 209
 Lindvall, H.L. 9, 18, 189, 207
 Lisk, D.J. 90-96, 481-487
 Low, J.B. 7-11, 16-20, 187-191, 205-209

A-Z INDEX

- MacCrimmon, W. 286-289, 317-323,
322-324, 340-343, 348-354
- MacKaffey, E.A. 26, 165-167, 270-
272
- Marcelli, G.F. 177-182
- Matteson, F.A. 46, 61
- Mathews, T.D. 159, 223
- McChesney, J.L. 235, 239, 244
- McCoy, J. 285, 290, 304, 339
- McDermid, R.W. 275, 276
- McLese, D.B. 168
- Meister, J. 285, 290, 304, 339
- Metcalf, C.D. 168
- Milleret, E.J. 175, 176, 451, 452
- Minchev, C.D. 490-496
- Miyasaka, T. 401-404
- Mout, L.E. 175, 176, 451, 452
- VanShover, F.P. 65, 66, 63, 84,
124, 125, 151, 153, 226, 227,
253, 254, 279, 280, 283, 284,
357, 358, 365, 367, 371, 372,
379, 380, 459, 460, 477, 478
- Murak, T. 129-131
- Musial, C.J. 46, 61
- Nelson, H.A. 48
- Neuman, D.R. 65, 66, 83, 84, 124,
125, 151, 153, 226, 227, 253,
254, 279, 280, 283, 284, 357,
358, 359, 367, 371, 372, 379,
380, 459, 460, 477, 478
- Nimi, A.J. 37-39
- Noseda, A. 177-182
- O'Shea, T.J. 444-448
- Oderwald, E.G. 85, 155, 258, 381,
433, 479
- Oehme, F.W. 175, 176, 451, 452
- Ohlaira, C. 401-404
- Olsson, W. 54, 86, 316
- Orberg, J. 54, 86, 316
- Osheim, D.L. 48
- Pancirov, E.J. 27-32, 40-45, 408-
419
- Parker, W.S. 505-508
- Parkinson, T.F. 90-96, 481-487
- Parvaneh, V. 310-313, 333
- Pastel, H. 58
- Patty, P.C. 49, 186, 196, 202,
497, 515, 521, 525, 528-530
- Pittman, K.A. 499-504
- Prideaux, J.W. 275, 276
- Proctor, B.G. 104-118
- Reid, J.T. 96-96, 481-487
- Rhodes, W.J. 1-3
- Robertson, W.S., Jr. 49, 186, 196,
202, 477, 515, 521, 525, 528-530
- Rock, P.F. 48
- Sammelson, G. 436-440
- Sarphie, T.D. 97-103
- Scanlon, P.F. 47, 155, 258, 381,
433, 479
- Shewalter, D.E. 436-440
- Simmons, D.F. 159, 223
- Simons, F.A. 12-15
- Simpson, V.L. 153, 164, 224, 225,
243-249, 462, 469
- Skea, J.C. 1-15
- Snalley, R.E. 26, 165-167, 270-272
- Smith, J.C. 301, 305-307, 325,
326, 344-347, 355, 356, 425-428,
430, 431
- Smith, R.G., Jr. 128-131
- Spagnoli, J.J. 12-15
- Spankler, E. 69, 70, 72, 75, 77,
78, 80, 133, 134, 136, 139, 141,
142, 144, 236, 237, 240, 245,
246, 249, 271, 292, 293, 295,
297-300, 464, 465, 467, 470, 472,
473, 475
- Speyer, H.E. 321, 429
- Stein, V.B. 499-504
- Stettler, L.H. 63, 64, 152, 154,
156, 157, 217, 218, 366, 368-370
- Stoewand, G.S. 90-96, 481-487
- Suckcharoen, S. 328
- Suda, J. 286-289, 317-320, 322-
324, 340-343, 348-354
- Szabo, S.C. 33, 50, 52, 53, 192,
197, 198, 203, 210, 211, 449,
450, 498, 516, 522, 526, 527,
531, 532
- Tate, L.G. 97-103
- Telford, J.W. 90-96, 481-487
- Traffas, V. 175, 176, 451, 452
- Urhe, J.F. 40, 61, 104-118
- Vannucchi, C. 255-257, 308, 309,
314
- Veith, G.D. 12-15
- Vinikour, W.S. 67, 68, 82, 88,
126, 127, 146, 160, 232, 233,
252, 261, 461, 462, 476, 480
- Vard, G.H. 69, 70, 72, 75, 77, 78,
80, 133, 134, 136, 139, 141, 142,
144, 236, 237, 240, 245, 246,
249, 251, 292, 293, 295, 297-300,
464, 465, 467, 470, 472, 473, 475
- Weaver, C.H. 62
- Whipple, D.H. 436-440
- Wiseman, R.J. 44, 51
- Wren, C. 286-289, 317-320, 322-
324, 340-343, 348-354
- Eszolek, P.C. 90-96, 481-487
- Zabik, E.E. 62

CORRESPONDING AUTHOR INDEX

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- Colorado State University, College of Veterinary Medicine and Biomedical Sciences, Department of Pathology, Diagnostic Laboratory, Fort Collins, CO 80523 235, 239, 244
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- Istituto di Ricerche Farmacologiche "Mario Negri", Via Eritrea 62, 20157 Milan, Italy 177-182
- Kansas State University, Comparative Toxicology Laboratories, Manhattan, KS 66506 175, 176, 451, 452
- Kansas State University, Veterinary Diagnostic Laboratory, Manhattan, KS 66506 175, 176, 451, 452
- Kerr-McGee Nuclear Corporation, Kerr-McGee Center, Oklaoma City, OK 73125 22, 24, 25, 73, 76, 79, 132, 137, 140, 143, 234, 242, 247, 250, 359, 361, 363, 364, 373, 375, 377, 378, 420-422, 441-443, 453-456, 463, 468, 471, 474
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- Marine Resources Research Institute, P.O. Box 12559, Charleston, SC 29412 159, 223
- Metro-Denver Sewage Disposal District No. 1, Denver, CO 69, 70, 72, 75, 77, 78, 80, 133, 134, 136, 139, 141, 142, 144, 236, 237, 240, 245, 248, 249, 251, 292, 293, 295, 297-300, 464, 465, 467, 470, 472, 473, 475
- Siam University, Institute of Environmental Sciences, Oxford, OH 43046 147-150
- Michigan State University, Department of Food Science and Human Nutrition, East Lansing, MI 48824 62
- Minnesota Pollution Control Agency, Division of Water Quality, Roseville, MN 55113 47
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- Mississippi University for Women, Departments of Physical Sciences and Biological Sciences, Columbus, MS 39701 505-508
- Montana State University, Montana Agricultural Experiment Station, Reclamation Group, Bozeman, MT 59717 65, 66, 83, 84, 124, 125, 151, 153, 226, 227, 252, 254, 279, 280, 283, 284, 357, 358, 365, 367, 371, 372, 379, 380, 459, 460, 477, 478
- National Marine Fisheries Service, Northeast Fisheries Center, Milford Laboratory, Milford, CT 06460 81, 87, 89, 145, 150, 161, 334-338, 432, 434, 435
- National Park Service, South Florida Research Center, Everglades National Park, Homestead, FL 33030 49, 186, 196, 202, 497, 515, 521, 525, 528-530

COMPOSITE AUTHOR INDEX

- National Swedish Environment Protection Board, Special Analytical Laboratory, S-106 05 Stockholm, Sweden 54, 86, 316
- National Veterinary Investigation Laboratory, Maiduguri, Nigeria 162
- National Veterinary Services Laboratories, Pathobiology Laboratory, Toxicology Section, P.O. Box 844, Ames, IA 50010 48
- Netherlands Institute for Sea Research, P.O. Box 59 den Burg, Texel, Netherlands 34-36, 55-57, 169-174, 183-5, 193-195, 199-201, 212-214, 517-519
- New York State Agricultural Experiment Station, Department of Food Science, Ithaca, NY 14856 90-96, 451-457
- New York State Department of Environmental Conservation, Bureau of Environmental Protection, Albany, NY 12233 12-15
- New York State Department of Environmental Conservation, Field Toxicant Research Unit, Rome, NY 13440 12-15
- New York State Department of Health, Division of Laboratories and Research, Albany, NY 12201 58
- Noranda Research Centre, Process Technology Department, Pointe Claire, Quebec H5R 1G5, Canada 321, 429
- Norwegian Veterinary College, Oslo 4, Norway 51, 204, 315
- Oklahoma State University, Oklahoma Animal Disease Diagnostic Laboratory, Stillwater, OK 74078 22, 24, 25, 73, 76, 79, 132, 137, 143, 143, 234, 242, 247, 250, 359, 361, 363, 364, 373, 375, 377, 378, 420-422, 441-443, 453-456, 463, 468, 471, 474
- Ontario Ministry of Agriculture and Food, Provincial Pesticide Residue Testing Laboratory, Guelph, Ontario N1G 2R1, Canada 286-289, 317-320, 322-324, 340-343, 348-354
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- Swedish Museum of Natural History, S-106 05 Stockholm, Sweden 54, 86, 316
- Swedish University of Agricultural Sciences, Department of Animal Physiology S-750 07 Uppsala, Sweden 54, 86, 316
- Texas Tech University, Department of Range and Wildlife Management, Lubbock, TX 79409 1-4
- Toyama Medical and Pharmaceutical University, Faculty of Pharmaceutical Sciences, 2630 Sugitani, Toyama, Japan 401-404
- Tuskegee Institute, Division of Plant Science, Tuskegee, AL 36188 457, 458
- U.S. Environmental Protection Agency, 6201 Congdon Blvd., Duluth, MN 55804 17-15
- U.S. Fish and Wildlife Service, Patuxent Wildlife Research Center, Laurel, MD 20311 5, 6, 33, 49, 50, 52, 53, 59, 60, 186, 192, 194-198, 202, 203, 210, 211, 215, 216, 228-231, 259, 260, 262, 273, 274, 329, 330, 444-450, 497, 498, 515, 516, 520-532
- University of Georgia, College of Agriculture, Coastal Plain Station, Savannah, GA 31406 128-131
- University of Georgia, College of Veterinary Medicine, Diagnostic Assistance Laboratory, Athens, GA 30602 26, 165-167, 276-272
- University of Georgia, School of Forest Resources, Athens, GA 30602 115, 331
- University of Guelph, Department of Zoology, Guelph, Ontario N1G 2W1, Canada 286-289, 317-320, 322-324, 340-343, 348-354
- University of Helsinki, Department of Environmental Science, SF-00710, Helsinki 71, Finland 328
- University of Kentucky, Department of Animal Science, Lexington, KY 40546 219-222
- University of Pisa, Institute of General Pathology and Pathologic Anatomy, Veterinary Medicine, via delle Piagge, 2, Pisa, Italy 255-257, 308, 309, 310
- University of Rochester Medical Center, Environmental Health Sciences Center and Department of Pharmacology and Toxicology, Rochester, NY 14642 301, 305-307, 325, 326, 344-347, 355, 356, 425-428, 430, 431
- University of South Alabama, Departments of Anatomy and Biology, Mobile, AL 36688 97-103
- University of Tehran, Department of Food Hygiene, P.O. Box 3262, Tehran, Iran 310-313, 311
- University of Tromsø, 9003 Tromsø, Norway 51, 204, 315
- Utah State University, Utah Cooperative Wildlife Research Unit, Logan, UT 84322 7-11, 16-20, 187-191, 205-209
- Virginia Commission of Game and Inland Fisheries, Eagle Rock, VA 24085 85, 155, 256, 381, 433, 479
- Virginia Polytechnic Institute and State University, Department of Fisheries and Wildlife Sciences and Department of Forestry, Blacksburg, VA 24061 85, 155, 258, 381, 433, 479
- Virginia Polytechnic Institute and State University, Office of Occupational Health and Safety and Reactor Laboratory, Blacksburg, VA 24061 90-96, 481-487
- Western Illinois University, Department of Biological Sciences, Macomb, IL 61455 67, 63, 82, 84, 126, 127, 146, 160, 232, 233, 252, 261, 461, 462, 476, 480

Mammals - Continued

Manchurian, golden
 Skull 45, 104, 126, 179,
 197, 198, 200

Liver 45, 125, 129, 200, 150,
 202, 203

Bone, black
 Body, whole 17, 40, 400, 410

Bone, longhorn
 Skull 201, 139

Bat, big brown
 Body, whole 120

Fetal 129

Bat, little brown
 Body, whole 120

Fetal 129

Beaver
 Intestine 104, 100

Kidney 207, 101

Liver 200, 102

Muscle 200, 103

Bluefish
 Muscle 109

Bluegill
 Body, whole 67, 126, 232, 461
 Muscle 190

Booby, Peruvian
 Feathers 101

Bullhead, black
 Body, whole 60, 127, 233, 462

Bullhead, brown
 Body, whole 12

Burbot
 Liver 46

Butterfish
 Body, whole 28, 41, 409, 415

Carp
 Muscle 47

Catfish, channel
 Blood, cells 120

Blood, plasma 129

Liver 130

Muscle 131

Cattle
 Adipose 48, 401

Blood 112, 230, 350, 373,
 402, 453, 457

Blood, serum 219, 463

Blood, whole 235

Bone 69, 133, 236, 292, 464

Brain 70, 130, 237, 293, 465

Kidney 21, 22, 71-73, 120,
 122, 135-137, 238-242, 277,
 281, 294, 295, 360, 361,
 374, 375, 400, 420, 423,
 401, 450, 466-468

Liver 23, 24, 70-76, 121,
 123, 130-140, 230, 243-247,

Liver 100, 101, 102, 103,
 104, 105, 106, 107, 108,
 109, 110, 111, 112, 113, 114,
 115-117

Lung 77, 101, 102, 103, 104

Muscle 25, 70, 71, 102, 103,
 221, 200, 250, 290, 300,
 370, 400, 422, 443, 450,
 473, 474

Spleen 80, 100, 257, 300, 475

Thyroid gland 222

Urine 450

Chicken
 Eggs 101, 100, 425

Chubmacker, Great
 Body, whole 13

Clam, surf
 Body, whole 61, 105, 432

Coat, American
 Adipose 1

Gizzard 2

Liver 3

Muscle 4

Cormorant, Gray
 Feathers 102

Cormorant, red-legged
 Feathers 103

Crab
 Muscle 110

Crappie
 Muscle 100

Crappie, black
 Body, whole 82, 106, 242, 476

Crayfish
 Abdomen 107
 Body, whole 100

Brain 490

Claws 109

Digestive gland 491

Gills 492

Green gland 493

Intestine 494

Muscle 495

Nerve 496

Thorax 150

Croaker
 Muscle 111

Crocodile, American
 Eggs 49, 106, 196, 202, 497,
 515, 521, 525, 530-530

Crow
 Muscle 400

Deer, male
 Bone 63, 217

Kidney 83, 151, 152, 203,
 203, 365, 366, 379, 477

Deer, female
 Bone 63, 217

Deer, spotted
 Bone 63, 217

Liver 100, 100, 100

Muscle 100, 100, 100

Deer, spotted
 Body 1

Body, whole 100

Eggs 6

Muscle 100

Deer, spotted
 Body, whole 177

Deer, spotted
 Eggs 10, 203

Fish
 Kidney 200, 100

Liver 200, 100

Muscle 200, 100-100

Flounder, summer
 Body, whole 20, 42, 470, 476

Gannet, Norwegian
 Eggs 51, 200, 315

Groose, western
 Adipose 7, 16, 167, 205

Blood 8, 17, 100, 206

Eggs 9, 10, 10, 19, 20, 100,
 207, 208

Muscle 11, 20, 191, 200

Groose, ruffed
 Feathers 85, 155, 250, 301,
 433, 479

Gull, great black-backed
 Eggs 33, 52, 192, 193, 210,
 409, 490, 516, 526, 531, 532

Gull, herring
 Eggs 53, 190, 211, 450, 522,
 527

Hake, red
 Body, whole 30, 43, 471, 477

Hare
 Liver 170

Lobster
 Hepatopancreas 160

Magpie
 Gizzard 405

Mink
 Adipose 34

Kidney 86

Muscle 316

Monkey
 Adipose 400

Blood, plasma 100

Liver 101

Mouse
 Adipose 102

Mammals - Fishes Index

Manx, pinnua 503
Liver 504
Manx, deer
Bone 64, 218
Kidney 156, 369
Liver 157, 370
Manx, field
Body, whole 179
Manx, white-footed
Body, whole 259
Fetal 260
Mallet
Muscle 512
Otter
Intestine 317, 398
Kidney 318, 399
Liver 319, 350
Muscle 320, 351
Oyster
Body, whole 87, 150, 159,
 223, 434
Parrot, yellow
Body, whole 10, 88, 160, 261,
 400
Pike, northern
Muscle 321, 429
Porpoise, harbor
Adipose 34, 55, 169, 172,
 183, 193, 199, 212, 517
Kidney 35, 56, 170, 173, 180,
 194, 200, 213, 518
Liver 36, 57, 171, 174, 185,
 195, 201, 210, 519
Pumpkin seed
Body, whole 15
Quack
Body, whole 89, 161, 435
Rabbit, cottontail
Muscle 407
Rabbit, swamp
Muscle 448
Sacaton
Kidney 322, 352
Liver 323, 353
Muscle 324, 354
Salmon, coho
Body, whole 37
Scallop, sea
Body, whole 31, 84, 412, 418
Scup
Body, whole 32, 45, 413, 419
Seal
Liver 325, 355, 430
Muscle 326, 356, 431
Shad, American
Muscle 58

Shrew, mealy
Feathers 327
Shrew
Blood, plasma 162
Bone 90, 401
Brain 91, 402
Heart 92, 403
Kidney 93, 404
Liver 94, 405
Muscle 95, 406
Spleen 96, 407
Shrew, short-tailed
Body, whole 262
Shrimp, freshwater
Body, whole 328
Sucker
Adipose 100
Liver 101
Sucker, water
Body, whole 59, 215, 329,
 520, 523
Sucker, water
Body, whole 60, 216, 330, 524
Spot
Brain 97
Gills 98
Gut 99
Heart 100
Kidney 101
Liver 102
Muscle 103, 513
Squirrel, gray
Hair 331
Muscle 119
Seal, white
Adrenal gland 263
Blood 264
Bone 265
Brain 266
Kidney 163, 224, 267, 400
Liver 164, 225, 268, 409
Spleen 269
Swine
Adipose 436
Adrenal gland 104
Bile 105
Blood 270, 397
Blood, plasma 165, 437
Blood, serum 175, 451
Brain 106, 176, 452

Heart 107
Intestine 108
Kidney 109, 166, 271, 398,
 430
Liver 26, 110, 167, 272, 399,
 439
Lung 111
Muscle 112, 400, 440
Pancreas 113
Pituitary 114
Salivary gland 115
Spleen 116
Stomach 117
Thyroid gland 118
Tuna, blue
Feathers 332
Toad
Body, whole 182
Troat
Muscle 510
Troat, brook
Adipose 302
Bile 301
Blood, plasma 304
Brain 305
Cecum 306
Gills 307
Gonads 308
Heart 309
Intestine 310
Kidney 311
Liver 312
Muscle 313
Skin 314
Spleen 315
Stomach 316
Troat, lake
Adipose 61
Body, whole 38
Muscle 62
Troat, rainbow
Body, whole 39
Tuna
Muscle 333
Tuna, albacore
Muscle 334
Tuna, skipjack
Liver 335
Muscle 336
Tuna, yellowfin
Liver 337

ANIMAL-TISSUE INDEX

Muscle 130

Turtle, box
Eggs 505

Liver 506

Turtle, slider
Eggs 507

Liver 508

Vole, meadow
Body, whole 273

Fetal 274

Volturn, king
Kidney 275

Liver 276

GEOGRAPHY INDEX

- Alabama, Wheeler National Wildlife Refuge 644-648
- Atlantic Ocean (R) 335-338
- Atlantic Ocean, Baltimore Canyon 27-32, 40-45, 488-499
- Australia, New South Wales 21, 23, 71, 74, 120-123, 135, 138, 230, 243, 281, 282, 294, 296, 360, 362, 370, 376, 423, 424, 446, 469
- Canada, Alberta 405
- Canada, Labrador, Churchill Falls 46, 61
- Canada, ProCamberian Shield, Ontario Muskoka District 286-289, 317-320, 322-324, 340-343, 348-354
- Canada, Quebec (N), Inuit Eskimo Community 325, 326, 355, 356, 430, 431
- Canada, Quebec (NW), Lake Dufault 321, 429
- Canada, Quebec (SE), Lake Duparquet 321, 429
- Chesapeake Bay 509-511, 513, 514
- Colorado, Rio Blanco County, Piceance Creek Basin 63, 64, 152, 154, 157, 217, 218, 366, 368-370
- Florida, Everglades National Park 49, 186, 196, 202, 497, 515, 521, 525, 528-530
- Florida, Jacksonville 119, 331
- Georgia (N) 26, 145-147, 270-272
- Germany, Eifel area 261, 286, 277, 278, 406, 407
- Hawaii 335, 336
- Humboldt Current, Peru 291, 302, 303, 327, 332
- Illinois (S), Jackson and Union Counties, Cedar Lake Reservoir 285, 290, 300, 339
- Illinois, Fox River 67, 68, 82, 88, 126, 127, 146, 160, 232, 233, 252, 261, 461, 462, 476, 480
- Indian Ocean 334
- Italy, Savona 178-182
- Italy, Tuscan coasts 255-257, 300, 309, 314
- Kansas 48
- Lake Michigan, Pilot Island 60, 216, 330, 524
- Lake Michigan, Spider Island 59, 215, 329, 520, 523
- Lake Ontario 37-39
- Maine, Appledore Island 33, 52, 53, 192, 197, 198, 210, 211, 409, 450, 498, 516, 522, 526, 531, 532
- Maine, Bangs Island 50, 203
- Maryland, Prince Georges County, Laurel 220-221, 259, 260, 262, 273, 274
- Michigan, Great Lakes 62
- Mississippi River 47
- Mississippi, Lowndes County 505-508
- Montana, Northern Great Plains 65, 66, 83, 84, 124, 125, 151, 153, 226, 227, 253, 254, 279, 280, 283, 284, 357, 358, 365, 367, 371, 372, 379, 380, 459, 460, 477, 478
- Netherlands, Texel 34-36, 55-57, 169-170, 183-185, 193-195, 199-201, 212-214, 517-519
- New York State (N) 305-307, 345-347, 424-428
- New York, Hudson River 12-15, 58
- New York, Syracuse 90-96, 481-487
- Nigeria, Margaba 162
- Norway, Vardøfjell 51, 204, 315
- Ohio, Bolly, Indian Creek 107-150
- Pacific Ocean (N), Oregon 334
- Pacific Ocean (S), Ecuador-Peru 334
- Persian Gulf 310-313, 333
- South Carolina, coast 159, 223
- Texas, White River Lake 1-4
- Thailand 320
- United Kingdom, River Trent 163, 164, 224, 225, 263-269, 488, 489
- Utah, Bear River Migratory Bird Refuge 7-11, 16-20, 187-191, 205-209
- Virginia (SW) 85, 155, 258, 381, 433, 479
- Virginia, Fisherman Island 53, 211, 450, 522, 527
- Virginia, James River 509-511, 513, 514

EXTENDED INDEX

- ADULTS 5, 6, 86, 61, 95, 147-150, 155, 164, 228-231, 235, 239, 240, 253-253, 262, 273, 276, 301-395, 411, 479, 492-496, 505-508
- AFRICA 162
- AGE 113, 339
- AIR POLLUTION 228-231, 259, 260, 262, 273, 276
- ALABAMA 97-107, 464-469, 457, 458
- AMERICAN ARID ALDS 392-396
- ANIMAL FEED 50-96, 481-427
- ANTHOPE 65, 66, 83, 84, 120, 125, 151, 153, 226, 227, 253, 254, 275, 293, 293, 284, 357, 358, 365, 377, 371, 372, 379, 380, 459, 460, 477, 478
- ATLANTIC OCEAN 27-32, 43-45, 134-138, 438-439
- AUSTRALIA 21, 23, 74, 74, 120-123, 135, 138, 230, 243, 241, 242, 293, 296, 360, 362, 370, 376, 423, 424, 456, 469
- ATMOSPHERE 228-231, 259, 260, 262, 273, 276
- AUTOMOTIVE 93-96, 104-118, 175, 176, 235, 235, 244, 275, 276, 397-400, 495, 451, 452, 481-487
- BATS 229-231, 259, 260, 262, 273, 276
- BEAVERS 164-289, 317-320, 322-324, 347-347, 349-354
- BIOACCUMULATION 1-20, 21, 20-62, 45-73, 75, 73, 75-84, 86-119, 124-134, 136, 137, 139-151, 153, 154-161, 163-170, 183-216, 219-237, 239-242, 244-257, 259-280, 283-293, 295, 297-309, 313-332, 334-359, 361, 363-365, 367, 371-373, 375, 377-380, 382-422, 425-432, 434-456, 459-465, 467, 468, 470-474, 480-496, 505-532
- BIOINDICATORS 54, 167-150
- CANADA 37-39, 46, 61, 104-118, 165, 296-269, 305-307, 317-326, 340-343, 345-356, 342-356, 405, 426-431
- CARP 47
- CATTLE 21-25, 48, 49-50, 120-123, 132-144, 219-222, 234-251, 277, 278, 281, 282, 292-300, 359-364, 373-378, 401-404, 406, 407, 420-424, 431-443, 451-454, 463-475
- CHICK 302-396
- CHICKENS 301, 344, 425
- CHLORINATED HYDROCARBONS 175, 176, 451, 452
- CHLORINE ORGANIC COMPOUNDS 1-8, 9, 10, 33-36, 49, 50, 52, 53, 55-57, 59, 60, 169-174, 177-186, 189, 192-201, 207, 210-216, 329, 330, 397-400, 409, 450, 457, 490-512
- COLORADO 63, 54, 69, 70, 72, 75, 77, 78, 80, 133, 134, 136, 139, 141, 142, 144, 152, 154, 156, 157, 217, 218, 235-237, 239, 240, 244, 245, 248, 249, 251, 292,
- COLORADO 293, 295, 297-300, 366, 368-370, 366, 465, 467, 470, 472, 473, 475
- COMPARATIVE EVALUATIONS 61, 87, 99, 145, 154, 161, 241, 246, 277, 278, 305-307, 325, 326, 345-347, 355, 356, 406, 437, 426-428, 430-432, 434, 435
- CONNECTICUT 61, 87, 49, 145, 156, 161, 432, 434, 435
- COSTS 1-8
- CRAYFISH 147-150, 492-496
- CROCOKILES 45, 104, 196, 202, 497, 515, 521, 525, 524-530
- DECONTAMINATIONS 505-514
- DEER 65, 66, 33, 40, 120, 125, 151, 153, 226, 227, 253, 254, 279, 280, 283, 284, 305-307, 325, 326, 345-347, 355-358, 365, 367, 371, 372, 379, 380, 426-428, 430, 431, 455, 460, 477, 478
- DEER HIDE 63, 64, 152, 154, 156, 157, 217, 218, 366, 368-370
- DIETS 128-131
- DRUGS 434-440
- EGGFS 5, 6
- EARTHQUAKES 177-182
- EGGS 26, 165-167, 270-272, 457, 458
- FETUS 34-36, 55-57, 169-174, 193-195, 193-195, 199-201, 212-214, 228-231, 259, 266, 262, 273, 274, 417-513
- FISHES 12-15, 47-52, 37-46, 54, 61, 62, 67, 68, 82, 88, 97-103, 126-131, 146, 160, 232, 233, 252, 255-257, 261, 304-310, 321, 333-336, 342-356, 404-419, 429, 461, 462, 476, 480, 505-514
- FLORIDA 45, 115, 186, 196, 202, 331, 497, 515, 521, 525, 524-530
- FOOD ADDITIVES 26, 165-167, 270-272
- FOOD CONTAMINATION 62
- FUNGICIDES 301, 344, 425
- GABBETS 51, 204, 315
- GEORGIA 26, 124-131, 165-167, 270-272
- GERMANY 241, 246, 277, 278, 406, 407
- HARES 177-182
- HEPATOPANCREAS 168
- HERBICIDES 1-8, 177-182, 457, 458
- ILLINOIS 67, 68, 82, 88, 126, 127, 146, 160, 232, 233, 252, 261, 285, 290, 304, 339, 461, 462, 476, 480
- INDIAN OCEAN 330-334
- INDUSTRIAL ACCIDENTS 177-182
- INDUSTRIAL POLLUTION 302-396, 404-
- INDUSTRIAL POLLUTION 418
- INSECTICIDES 175, 176, 451, 452
- IRAN 310-313, 333
- IRADIATION 62
- ITALY 177-182, 255-257, 300, 309, 314
- JAPAN 401-404
- JUVENILES 5, 6, 95, 90-96, 155, 235, 239, 244, 258, 341, 397-400, 433, 479, 481-487
- KANSAS 48, 175, 176, 451, 452
- KENTUCKY 219-222
- KIDNEY DISEASES 97-103, 162
- LACTATIONS 401-404
- LAND POLLUTION 444-448
- LEAD ORGANIC COMPOUNDS 235, 239, 244
- LEAD POISONING 163, 164, 220, 225, 235, 239, 244, 263-269, 275, 276, 498, 499
- LIVER DISEASES 162
- LOBSTERS 166
- MAINE 33, 50, 52, 53, 192, 197, 196, 203, 210, 211, 449, 450, 458, 516, 522, 526, 527, 531, 532
- MARYLAND 5, 6, 49, 59, 60, 186, 196, 202, 215, 216, 228-231, 259, 260, 262, 273, 274, 329, 330, 436-440, 497, 515, 523, 521, 523-525, 524-530
- MEASUREMENT METHODS 499-504, 509-514
- MERCURY: INORGANIC COMPOUNDS 301, 344, 425
- MERCURY ORGANIC COMPOUNDS 285-290, 301, 304, 317-320, 322-324, 339-340, 348-354, 425
- METABOLITES 457, 458
- METAL POISONING 26, 97-103, 162, 165-167, 270-272
- METALS 65-68, 82-84, 84, 124-127, 146-151, 153, 160, 226, 227, 232, 233, 252-254, 261, 279, 280, 283, 264, 357, 358, 365, 367, 371, 372, 379, 383, 459-462, 476-478, 480
- MICHIGAN 62
- MILK 54, 86, 316
- MINNESOTA 47
- MISSISSIPPI 490-496, 505-508
- MOLUSKS 81, 87, 89, 145, 158, 161, 432, 434, 435
- MONTANA 65, 66, 83, 84, 124, 125, 151, 153, 226, 227, 253, 254, 279, 280, 283, 284, 357, 358, 365, 367, 371, 372, 379, 380, 459, 460, 477, 478

KEYWORD INDEX

- WILE DEER 63, 64, 152, 154, 156, 157, 217, 218, 346, 368-370
- NERVOUS SYSTEM DISEASES 175, 176, 451, 452
- NETHERLANDS 34-36, 55-57, 169-174, 183-195, 193-195, 199-201, 212-214, 517-519
- NEUROMUSCULAR DISEASES 235, 239, 244, 490-496
- NEW JERSEY 27-32, 43-45, 408-419
- NEW YORK 12-15, 58, 90-96, 301, 305-307, 325, 326, 344-347, 355, 356, 425-428, 430, 431, 481-487, 499-504
- NORWAY 51, 204, 315
- OHIO 147-150
- OKLAHOMA 22, 24, 25, 73, 76, 79, 132, 137, 140, 143, 234, 242, 247, 250, 359, 361, 363, 364, 373, 375, 377, 378, 420-422, 441-443, 453-456, 463, 468, 471, 474
- ORGANOPHOSPHATES 405
- OTTERS 286-289, 317-320, 322-324, 340-343, 348-354
- OYSTERS 159, 223
- PACIFIC OCEAN 334-338
- PERU 291, 302, 303, 327, 332
- PESTICIDE RESIDUES 5-11, 16-20, 33-36, 46, 48, 50, 52, 53, 55-57, 59-61, 169-174, 183-185, 187-195, 197-211, 203, 205-216, 329, 330, 431-405, 444-450, 490-496, 498, 505-514, 516-520, 522-524, 526, 527, 531, 532
- PESTICIDES 499-504
- PIGS 104-118, 175, 176, 397-400, 451, 452
- POLYCHLORINATED BIPHENYLS 5-20, 33, 45-54, 58-62, 86, 186-192, 194-198, 202-211, 215, 216, 315, 316, 329, 330, 449, 450, 497, 498, 515, 516, 520-532
- POLYNUCLEAR AROMATIC HYDROCARBONS 27-32, 40-45, 408-419
- POSSPOISE 34-36, 55-57, 169-174, 183-185, 193-195, 199-201, 212-214, 517-519
- POWER PLANTS 46, 61
- RABBITS 444-449
- RACCOONS 286-289, 317-320, 322-324, 340-343, 348-354
- RADIOISOTOPES 119, 331
- RADIONUCLIDES 241, 246, 277, 278, 406, 407
- REPTILES 49, 186, 196, 202, 497, 505-508, 515, 521, 525, 528-530
- RODENTS 228-231, 259, 260, 262, 273, 274
- SALIVARY GLAND 104-118
- SHEEP 90-96, 162, 481-487
- SHERMS 228-231, 259, 260, 262, 273, 274
- SHRIMP 328
- SLOTTGES 69, 70, 72, 75, 77, 78, 80, 90-96, 133, 134, 136, 139, 141, 142, 144, 236, 237, 240, 245, 248, 249, 251, 292, 293, 295, 297-300, 464, 465, 467, 470, 472, 473, 475, 481-487
- SHARKS 59, 60, 177-182, 215, 216, 325, 330, 520, 523, 524
- SOUTH CAROLINA 159, 223
- SOUTH DAKOTA 397-400
- SQUIRRELS 119, 331
- STEEL 48
- SULFONAMIDES 436-440
- SWANS 163, 164, 224, 225, 263-269, 488, 489
- SWEDEN 54, 86, 316
- SWINE 26, 165-167, 270-272, 436-440
- TEXAS 1-4
- THAILAND 328
- TCADS 177-182
- TRACE ELEMENTS 81, 87, 89, 145, 158, 161, 432, 434, 435
- TURTLES 505-508
- UNITED KINGDOM 163, 164, 224, 225, 263-269, 488, 489
- URBAN AREAS 119, 331
- UTAH 7-11, 16-20, 187-191, 205-209
- VIRGINIA 33, 50, 52, 53, 85, 155, 192, 197, 198, 203, 210, 211, 258, 381, 433, 449, 450, 479, 498, 509-514, 516, 522, 526, 527, 531, 532
- VOLES 228-231, 259, 260, 262, 273, 274
- WATER POLLUTION 1-4, 12-15, 27-32, 34-46, 49, 55-58, 61, 62, 67, 68, 82, 88, 97-103, 126, 127, 146, 159, 160, 169-174, 183-186, 193-196, 199-202, 212-214, 223, 232, 233, 252, 255-257, 261, 285, 290, 291, 302-304, 308-314, 321, 327, 328, 332-339, 382-396, 408-419, 429, 444-448, 461, 462, 476, 480, 497, 509-515, 517-519, 521, 525, 528-530
- WISCONSIN 275, 276

DIRECTORY OF CHEMICALS

1. CAS Preferred Names, page 85
2. Formulas, page 87

DICTIONARY - CAS PREPARED NAME.

Acetic acid, (2,4,5-trichlorophenyl)-	
Aroclor 1254	5
Aroclor 1016	12
Aroclor 1260	15
Arsenic	21
Benz(a)anthracene	27
Benzene, hexachloro-	33
Benzofluorene	40
Biphenyl, chloro (8 CI); 1,1'-Biphenyl, chloro Series (9 CI)	46
Boron	63
Cedricin	85
Cesium, isotope of mass 137	119
Chromite	120
Cobalt	122
Copper	124
Croconite	168
Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (alpha,beta,beta',alpha',beta',beta')- (9 CI)	169
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (alpha,beta,beta',alpha',beta',beta')- (9 CI)	175
Dibenzop-dioxin, 2,3,7,8-tetrachloro- (8 CI); Dibenzob(a,e)(1,4)dioxin, 2,3,7,8-tetrachloro- (9 CI)	177
Duane, 1,1-dichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)- (8 CI); Benzene, 1-chloro-2-(2,2-dichloro-1-(o-chlorophenyl)ethyl)- (9 CI)	183
Duane, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)	186
Duane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)	196
Duane, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(dichloroethylidene)bis(4-chloro- (9 CI)	202
Fluorine	217
Iodine	219
Iron	223
Lead	226
Lead, isotope of mass 210	227
Macropene	279
Mercury	285
Mercury(II), methyl-, ion (8 CI); Mercury(II), methyl-, (9 CI)	339
Molybdenum	357
Nickel	371
Octanoylthioic acid (8 CI); Octanamide, 2-hydroxy- (9 CI)	382
Phenol, pentachloro-	397
Phenol, 2,2'-methylenebis(3,4,6-trichloro-	401
Phosphorothioic acid, O,O-dimethyl O-(4-methylthio)-o-tolyl ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-methylthio)phenyl ester (9 CI)	405
Polonium, isotope of mass 210	406
Pyrene	408
Pyrene, methyl-	414
Radium, isotope of mass 226	420

DISCREET - CAS NUMBER INDEX

Selenium 425

Silver 439

Sulfonamide, N-[4,6-dimethyl-2-pyridinyl]- (8 CI); Sulfonamide, 4-amino-2-(4,6-dimethyl-2-pyridinyl)- (9 CI) 436

Thorium, isotope of mass 230 441

Total DDT (No postings in CHEM) 444

Tungsten 449

Vanadium 453

Wax, 3-(3,4-dichlorophenyl)-1,1-dimethyl- (8 CI); Wax, 3'-(3,4-dichlorophenyl)-3,3'-dimethyl- (9 CI) 451

Zinc 459

1,3,4-Methano-18-cyclohexylpentalen-1,18,2,2,5,5a,4,5,5a,5b,6-octachlorooctahydro- 491

1,3,4-Methano-2H-pyridine-2-one, 1,1a,3,3a,4,5,5a,5b,6-octachlorooctahydro- 500

1,4,5,6-Methanocyclopentadiene, 1,1',3,4,5,6,7,8-octachloro-2,2'-spiro-1,4,4a,5,5a,6,7,8a-octahydro-, with one (8 CI); 2,2',3,6'-octachloro-2,2'-spiro-1,4,4a,5,5a,6,7,8a-octahydro-1a,2,3a,5,6,6a,7,8a-octahydro- (1a,2a,3a,5a,6a,7a,8a,8a'-octachloro-1a,2,3a,5,6,6a,7,8a-octahydro- (9 CI) 504

1,7-Methano-1,1'-indene, 1,2,3,4,5,6,7,8-octachloro-2,3,3a,4,7,7a-benzohydro- (1a,2a,3a,5a,6a,7a,8a,8a'-octachloro-1a,2,3a,5,6,6a,7,8a-octahydro- (9 CI) 501

1,7-Methanotoluenes, 1,2,3,4,5,6,7,8-octachloro-2,3,3a,4,7,7a-benzohydro- (8 CI); 2,5-Methano-2H-indene(1,2-bis)-one, 1a,2,3,4,5,6a,7,7a-octachloro-1a,2a,3a,5,6,6a,7,8a-octahydro- (9 CI) 505

4,7-Methanotoluenes, 1,4,5,6,7,8-octachloro-2,3,3a,4,7,7a-benzohydro- (8 CI); 2,5-Methano-2H-indene(1,2-bis)-one, 1a,2,3,4,5,6a,7,7a-octachloro-1a,2a,3a,5,6,6a,7,8a-octahydro- (9 CI) 508

4,7-Methanotoluenes, 1a,2a,3a,5a,6a,7a,8a-octachloro-2,3,3a,4,7,7a-benzohydro- (1a,2a,3a,5a,6a,7a,8a,8a'-octachloro-1a,2,3a,5,6,6a,7,8a-octahydro- (9 CI) 509

1,7-Methanotoluenes, 1a,2a,3a,5a,6a,7a,8a-octachloro-2,3,3a,4,7,7a-benzohydro- (1a,2a,3a,5a,6a,7a,8a,8a'-octachloro-1a,2,3a,5,6,6a,7,8a-octahydro- (9 CI) 510

4,7-Methanotoluenes, 1,4,5,6,7,8-octachloro-2,3,3a,4,7,7a-benzohydro- (8 CI); 4,7-Methano-2H-indene, 1,4,5,6,7,8-octachloro-2,3,3a,4,7,7a-benzohydro- (9 CI) 512

DISSOLVED - FORMULAS

Ag Silver 432

As Arsenic 21

B Boron 63

C-23-Eg Mercury(II+), methyl-, 1x (9 CI); Mercury(II+), methyl-, (9 CI) 359

Ca Calcium 65

Co Cobalt 122

Cr Chromium 120

Cs Cesium, isotope of mass 137 119

Cu Copper 128

C10-C110-0 1,3,4-Methano-2H-cyclobuta[cd]pentadiene-2-one, 1,1a,3,3a,4,5,5a,5b,6-dimethyl-2-oxy- 509

C10-C112 1,3,4-Methano-1H-cyclobuta[cd]pentadiene, 1,1a,2,2,3,3a,4,5,5a,5b,6-dimethyl-2-oxy- 490

C10-E15-G3-P-22 Phosphorothioic acid, 0,0-dimethyl O-(4-methylthio)-s-tolyl ester (8 CI); Phosphorothioic acid, 0,0-dimethyl O-(3-methyl-4-methylthio)phenyl ester (9 CI) 405

C10-E4-C15-0 4,7-Methanoindene, 1,2,4,5,6,7,8-octachloro-1,2-epoxy-3a,4,7,7a-tetrahydro- (8 CI); 2,5-Methano-2H-indene/1,2-bisoxirane, 1a,2,3,4,5,6a,7,7-octachloro-1a,1b,5,5a,6,6a-hexahydro- (9 CI) 525

C10-E5-C17 4,7-Methanoindene, 1,4,5,6,7,8,9-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 1,4,5,6,7,8,9-heptachloro-3a,4,7,7a-tetrahydro- (9 CI) 512

C10-E5-C17-0 4,7-Methanoindene, 1,4,5,6,7,8,9-heptachloro-2,3-epoxy-3a,4,7,7a-tetrahydro- (8 CI); 2,5-Methano-2H-indene/1,2-bisoxirane, 2,3,4,5,6,7,8-heptachloro-1a,1b,5,5a,6,6a-hexahydro- (9 CI) 528

C10-E5-C19 4,7-Methano-1H-indene, 1,2,3,4,5,6,7,8-octachloro-2,3,3a,4,7,7a-hexahydro- (1alpha,2beta,3alpha,4beta,5alpha,6beta,7alpha,8beta)- 521
4,7-Methanoindene, 1alpha,2alpha,3alpha,4beta,5,6,7beta,8,8-octachloro-3alpha,4,7,7-alpha-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 1,2,3,4,5,6,7,8-octachloro-2,3,3a,4,7,7a-hexahydro- (1alpha,2alpha,3alpha,4beta,5alpha,6beta,7alpha,8beta)- (9 CI) 529

C10-E5-C19 4,7-Methanoindene, 1alpha,2alpha,4beta,5,6,7beta,8,8-octachloro-3alpha,4,7,7-alpha-tetrahydro (8 CI); 4,7-Methano-1H-indene, 1,2,3,4,5,6,7,8-octachloro-2,3,3a,4,7,7a-hexahydro- (1alpha,2alpha,3alpha,4beta,5alpha,6beta,7alpha,8beta)- (9 CI) 530

C10-E14-E4-02-0 Difenilicarbide, 3,3'-(4,6-dimethyl-2-pyridinyl)- (8 CI); Benzenesulfonyl chloride, 4-amino-3-(4,6-dimethyl-2-pyridinyl)- (9 CI) 436

C12-E4-C14-02 Dibenzo-p-dioxin, 2,3,7,8-tetrachloro- (8 CI); Dibenzo(b,e)(1,4)dioxin, 2,3,7,8-tetrachloro- (9 CI) 177

C12-E8-C16-0 1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-, endo,exo- (8 CI); 2,7:3,6-Dimethanonaphth[2,3-b]oxirane, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1alpha,2beta,2alpha,3beta,4beta,5alpha,6beta,7alpha)- (9 CI) 515

C13-E6-C16-02 Phenol, 2,2'-methylenebis[3,4,6-trichloro- 401

C14-E10-C14 Ethane, 1,1-dichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)- (8 CI); Benzene, 1-chloro-2-(2,2-dichloro-1-(4-chlorophenyl)ethyl)- (9 CI) 133

Ethane, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI) 146

C14-E8-C14 Ethylene, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(dichloroethylidene)bis(4-chloro- (9 CI) 202

DIRECTORY - FORMULAS

C14-B9-C15

Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI) 196

Total DDT (No postings in CHEMLINE). 444

C16-E10

Pyrene 408

C17-E12

Pyrene, methyl- 414

C18-E12

Benzo(a)anthracene 27

C20-E12

Benzo(a)pyrene 40

C6-C16

Benzene, hexachloro- 33

C6-B-C15-C

Phenol, pentachloro- 397

C6-B6-C16

Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5beta,6beta)- (9 CI) 159

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI) 175

C8-E17-E-02

Octanohydroxamic acid (8 CI); Octanamide, N-hydroxy- (9 CI) 382

C8-B5-C13-C5

Acetic acid, (2,4,5-trichlorophenoxy)- 1

C9-E10-C12-E2-0

Urea, 3-(3,4-dichlorophenyl)-1,1-dimethyl- (8 CI); Urea, N'-(3,4-dichlorophenyl)-N,N-dimethyl- (9 CI) 457

EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Aroclor 1254 5

Aroclor 1016 12

Aroclor 1260 16

Biphenyl, chloro (8 CI); 1,1'-Biphenyl, chloro derivs (9 CI) 46

Creosote 168

Toluene 449

F

Fluorine 217

Fe

Iron 223

Hg

Mercury 285

I

Iodine 219

Mn

Manganese 279

Mo

Molybdenum 357

Ni

Nickel 371

Pb

Lead 226

Lead, isotopes of mass 210 277

Po

Polonium, isotopes of mass 210 406

Ra

Radium, isotopes of mass 226 420

Se

Selenium 423

DIRECTORY - FORMULAS

Th Thorium, isotope of mass 230 441

U Uranium 453

Zn Zinc 499

DATA BASE

acetic acid, (2,4,5-trichlorophenoxy)-
93-76-5
C8-H5-Cl3-O3
MW 255.44, BP 153 C (crystals from benzene)
East, American
DELICIA AMERICANA

TISSUE	EXPOSURE POSTS	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
1 Adipose		GC	12	5.0-30.0 ppb	21.0 ppb	Collected 8/76 - 12/76 in reservoir receiving runoff from watershed on which 1093 ha were treated with 0.56 kg/ha, 6/76. Texas, White River Lake CCOTS; DITZARD; HERBICIDES; WATER POLLUTION; CHLORINE ORGANIC COMPOUNDS; TEXAS; ADIPOSE TISSUE; LIVER; MUSCLES; BIOACCUMULATION	Garcia, J.D. Rhodes, R.J. 1979 Bulletin of Environmental Contamination and Toxicology 23:231-235
2 Gizzard		GC	5	4.0-41.0 ppb	18.0 ppb	Collected 8/76 - 12/76 in reservoir receiving runoff from watershed on which 1093 ha were treated with 0.56 kg/ha, 6/76 Significantly higher residues in 11/76 Texas, White River Lake CCOTS; DITZARD; HERBICIDES; WATER POLLUTION; CHLORINE ORGANIC COMPOUNDS; TEXAS; ADIPOSE TISSUE; LIVER; MUSCLES; BIOACCUMULATION	Garcia, J.D. Rhodes, R.J. 1979 Bulletin of Environmental Contamination and Toxicology 23:231-235
3 Liver		GC	5	2.0-118.0 ppb	39.0 ppb	Collected 8/76 - 12/76 in reservoir receiving runoff from watershed on which 1093 ha were treated with 0.56 kg/ha, 6/76 Significantly higher residues in 8/76 ($P < 0.05$) Texas, White River Lake CCOTS; DITZARD; HERBICIDES; WATER POLLUTION; CHLORINE ORGANIC COMPOUNDS; TEXAS; ADIPOSE TISSUE; LIVER; MUSCLES; BIOACCUMULATION	Garcia, J.D. Rhodes, R.J. 1979 Bulletin of Environmental Contamination and Toxicology 23:231-235
4 Muscle		GC	14	0.0-1338 ppb	199.0 ppb	Collected 8/76 - 12/76 in reservoir receiving runoff from watershed on which 1093 ha were treated with 0.56 kg/ha, 6/76 Significantly higher residues in 10/76 and 11/76 ($P < 0.05$) Texas, White River Lake CCOTS; DITZARD; HERBICIDES; WATER POLLUTION; CHLORINE ORGANIC COMPOUNDS; TEXAS; ADIPOSE TISSUE; LIVER; MUSCLES; BIOACCUMULATION	Garcia, J.D. Rhodes, R.J. 1979 Bulletin of Environmental Contamination and Toxicology 23:231-235

Archlor 1254
11037-69-1
EFFECT COMPOSITION UNKNOWN OR UNDETERMINED
Tech, Ballard
ANAS PLATYRHYNCHOS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	ORIGINAL INFORMATION	REFERENCE
5 Body	Ingestion	GC	a) 5 b) 10 c) 5 d) 10 e) 2 f) 3 g) 10	a) Not given b) Not given c) Not given d) Not given e) Not applicable f) Not given g) Not given	a) 0.13 ± or - 0.01 ppm b) 64.2 ± or - 4.0 ppm c) 0.09 ± or - 0.01 ppm d) 55.3 ± or - 1.9 ppm e) Not detected f) 0.06 ± or - 0.01 ppm g) 29.5 ± or - 1.4 ppm Vet wt	a) Controls, drakes b) Drakes, 25 ppm diet c) Controls, hens d) Hens, 25 ppm diet e) Ducklings hatched by control hens f) Ducklings hatched by control hens g) Ducklings hatched by hens, 25 ppm diet 9 se old game-farm birds on 25 ppm or standard diet for at least 1 mo before egg-laying. 3 wk old ducklings hatched from 3rd egg of each clutch, on 25 ppm or standard diet Venters, bills, feet, wingtips and gastrointestinal tracts removed. No detrimental effects on reproductivity or nest attentiveness FISHES; BUCKS; HENS; JUVENILES; ICITCLOXIMATISD SIPHUNTILS; BIOACCUMULATION; PESTICIDE RESISTANCE; FOOT; SANITIZED; ADULTS	Custer, T.V. Moins, G.H. 1980 Environmental Pollution (Series A) 21:313-318
6 Eggs	Ingestion	GC	a) 4 b) 1 c) 4	a) Not given b) Not applicable c) Not given	a) 1.19 ppm b) Not detected c) 23.3 ± or - 1.0 ppm Vet wt	a) Hatched by control hens b) Hatched by control hens c) Hatched by hens on 25 ppm diet 3rd eggs from clutches hatched by 9 se old game-farm birds fed a 25 ppm or standard diet for at least 1 mo before egg-laying. No detrimental effects on reproductivity or nest attentiveness. FISHES; BUCKS; HENS; JUVENILES; ICITCLOXIMATISD SIPHUNTILS; BIOACCUMULATION; PESTICIDE RESISTANCE; FOOT; SANITIZED; ADULTS	Custer, T.V. Moins, G.H. 1980 Environmental Pollution (Series A) 21:313-318

Archlor 1254
11037-69-1
EFFECT COMPOSITION UNKNOWN OR UNDETERMINED
Grebe, western
ARCHICPROBOS OCCIDENTALIS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	ORIGINAL INFORMATION	REFERENCE
7 Adipose		GC	18	<1-84.0 ppm vet wt	16.7 ppm vet wt	Visceral fat Higher levels in birds with sparse or no visceral fat Collected 1973-74. Utah, Bear River Migratory Bird Refuge FISHES; BUCKS; ADIPOSE TISSUE; BLOOD; MUSCLES; UVID; BIOACCUMULATION; PESTICIDE RESISTANCE; BOD; BOD; ICITCLOXIMATISD SIPHUNTILS	Lindvall, R. Lew, J.B. 1979 Bulletin of Environmental Contamination and Toxicology 22:754-760

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TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	ORIGINAL INFORMATION	REFERENCE
8 Blood		GC	16	Not detected-1.1 ppm wet wt	<1 ppm wet wt	Collected 1973-74. Utah, Bear River Migratory Bird Refuge EYES; EGGS; ADIPOSE TISSUE; BLOOD; MUSCLES; UTER; BIOACCUMULATION; PESTICIDE RESIDUES; DDD; DDE; POLYCHLORINATED BIPHENYLS	Lindvall, N. L., J. B. 1979 Bulletin of Environmental Contamination and Toxicology 22:754-760
9 Eggs		GC	40	<1-3.8 ppm wet wt	<1 ppm wet wt	Average shell thickness index 1.898 ± 0.018 vs. 2.38 decrease from pre-DDT use period Collected 1973-74. Utah, Bear River Migratory Bird Refuge No detectable effects on reproduction. EGGS; BIRDS; UTER; CHLORINE ORGANIC COMPOUNDS; DDT; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES	Lindvall, N. L., J. B. 1980 Pesticides Monitoring Journal 14(3):106-111
10 Eggs		GC	40	<1-3.8 ppm wet wt	<1 ppm wet wt	Whole eggs Collected 1973-74. Utah, Bear River Migratory Bird Refuge EYES; EGGS; ADIPOSE TISSUE; BLOOD; MUSCLES; UTER; BIOACCUMULATION; PESTICIDE RESIDUES; DDD; DDE; POLYCHLORINATED BIPHENYLS	Lindvall, N. L., J. B. 1979 Bulletin of Environmental Contamination and Toxicology 22:754-760
11 Muscle		GC	24	Not detected-17.6 ppm wet wt	3.5 ppm wet wt	Front muscle Higher levels in birds with sparse or no visceral fat Collected 1973-74. Utah, Bear River Migratory Bird Refuge EYES; EGGS; ADIPOSE TISSUE; BLOOD; MUSCLES; UTER; BIOACCUMULATION; PESTICIDE RESIDUES; DDD; DDE; POLYCHLORINATED BIPHENYLS	Lindvall, N. L., J. B. 1979 Bulletin of Environmental Contamination and Toxicology 22:754-760

Brook 1016
12678-11-2
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Sillhead, Brown
ICTALURUS NEBULOSUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
12 Body, whole			a) 5 b) 5	a) Not given b) Not given	a) 3.0 ug/g b) 2.0 ug/g	a) Fish mean wt 80 g, mean length 18.0 cm, 3.8% lipid b) Fish mean wt 76 g, mean length 19.1 cm, 1.9% lipid Whole fish composite samples Fish transferred from Oriskany Lake, New York to the Hudson River and placed in live cages for 14 days c 0.02 ug/g brooklet before exposure to Hudson River water. New York, Hudson River BIOACCUMULATION; WATER POLLUTION; FISHES; POLYCHLORINATED BIPHENYLS; NEW YORK; PCB	Shea, J.C. Sincin, M.A. Dean, H.J. Colquhoun, J.R. Spagnoli, J.J. Veith, G.D. 1979 Bulletin of Environmental Contamination and Toxicology 22:333-336

Brook 1016
12678-11-2
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Chabauchoy, Creek
BILATZON OSLICUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
13 Body, whole			2	Not given	2.2 ug/g	Fishes transferred from Oriskany Lake, New York to the Hudson River and placed in live cages for 14 days Whole fish composite samples. Fish mean wt 295 g, mean length 27.4 cm, 7.0% lipid c 0.02 ug/g brooklet before exposure to Hudson River water. New York, Hudson River BIOACCUMULATION; WATER POLLUTION; FISHES; POLYCHLORINATED BIPHENYLS; NEW YORK; PCB	Shea, J.C. Sincin, M.A. Dean, H.J. Colquhoun, J.R. Spagnoli, J.J. Veith, G.D. 1979 Bulletin of Environmental Contamination and Toxicology 22:333-336

Brook 1016
12678-11-2
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Perch, yellow
PERCA FLAVESCENS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
14 Body, whole			3	Not given	1.0 ug/g	Fishes transferred from Oriskany Lake, New York to the Hudson River and placed in live cages for 14 days Whole fish composite samples. Fish mean wt 187 g, mean length 24.9 cm, 2.8% lipid c 0.02 ug/g brooklet before exposure to Hudson River water. New York, Hudson River BIOACCUMULATION; WATER POLLUTION; FISHES; POLYCHLORINATED BIPHENYLS; NEW YORK; PCB	Shea, J.C. Sincin, M.A. Dean, H.J. Colquhoun, J.R. Spagnoli, J.J. Veith, G.D. 1979 Bulletin of Environmental Contamination and Toxicology 22:333-336

Areclor 1016
12674-11-2
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Pupfish seed
LEPOCIS GIBBOSUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
15 Body, whole			2	Not given	2.5 ug/g	Fishes transferred from Orbeu Lake, New York to the Hudson River and placed in live cages for 14 days. Whole fish composite samples. Fish mean wt 125 g, mean length 17.8 cm, 2.3% lipid. < 0.02 ug/g Areclor before exposure to Hudson River water. New York, Hudson River BIOACCUMULATION; WATER POLLUTION; FISHES; POLYCHLORINATED BIPHENYLS; NEW YORK; 1977	Shen, J.C.; Simolin, N.A.; Dean, R.J.; Colquhoun, J.B.; Spagnoli, J.J.; Veith, G.B. 1979 Bulletin of Environmental Contamination and Toxicology 22:332-334

Areclor 1260
14096-82-5
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Grebe, Western
ARCTOPHOBUS OCCIDENTALIS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
16 adipose		GC	10	<1-147.1 ppm wet wt	22.4 ppm wet wt	Visceral fat Higher levels in birds with sparse or no visceral fat Collected 1973-74. Utah, Bear River Migratory Bird Refuge BIRDS; EGGS; ADIPOSE TISSUE; BLOOD; MUSCLES; UTERI; BIOACCUMULATION; PESTICIDE RESIDUES; DDT; DDE; POLYCHLORINATED BIPHENYLS	Lindvall, R.; Lew, J.B. 1979 Bulletin of Environmental Contamination and Toxicology 22:754-760
17 Blood		GC	16	Not detected-1.6 ppm wet wt	<1 ppm wet wt	Collected 1973-74. Utah, Bear River Migratory Bird Refuge BIRDS; EGGS; ADIPOSE TISSUE; BLOOD; MUSCLES; UTERI; BIOACCUMULATION; PESTICIDE RESIDUES; DDT; DDE; POLYCHLORINATED BIPHENYLS	Lindvall, R.; Lew, J.B. 1979 Bulletin of Environmental Contamination and Toxicology 22:754-760
18 Eggs		GC	40	<1-5.4 ppm wet wt	<1 ppm wet wt	Average shell thickness index = .008 ± 0.015 cm. 3.3% decrease from pre-DDT use period Collected 1973-74. Utah, Bear River Migratory Bird Refuge No detectable effects on reproduction. EGGS; BIRDS; UTERI; CHLORINE ORGANIC COMPOUNDS; DDE; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES	Lindvall, R.L.; Lew, J.B. 1980 Pesticides Monitoring Journal 10(3):108-111

(SEE PAGE)

Acceler 1260
13096-81-5
EFFECT COMPOSITION UNKNOWN OR UNDETERMINED
Scots, venters
BISCHNOPOBOS OCCIDENTALIS

(CONTINUED)

TESTER	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	PAUSE	REAP	SUBSTANTIAL INFORMATION	REFERENCE
19 Eggs		GC	40	<1-5.6 ppm vol vt	<1 ppm vol vt	Eggs Collected 1973-74. Utah, Bear River Migratory Bird Refuge PHEB; BODS; ADIPONE TISSUE; BLOOD; MUSCLES; UTER; BIOACCUMULATION; PHTHICIDE RESIDUES; BOD; BOD; COTYCHLOINATED BIPHENYLS	Lindvall, R. Lew, J.D. 1979 Bulletin of Environmental Contamination and Toxicology 22:760-760
20 Hemato		GC	24	Not detected-17.6 ppm vol vt	1.0 ppm vol vt	Breast muscle Higher levels in birds with sperms or no visceral fat Collected 1973-74. Utah, Bear River Migratory Bird Refuge PHEB; BODS; ADIPONE TISSUE; BLOOD; MUSCLES; UTER; BIOACCUMULATION; PHTHICIDE RESIDUES; BOD; BOD; COTYCHLOINATED BIPHENYLS	Lindvall, R. Lew, J.D. 1979 Bulletin of Environmental Contamination and Toxicology 22:760-760

Atomic
7040-30-2
As
At 70, 3216, BP 613 C at 28 atm, BP 613 C (molecular), 77 1 as Hg at 300 C, 10 as Hg at 600 C
Cattle
SCS up.

98

TESTER	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	PAUSE	REAP	SUBSTANTIAL INFORMATION	REFERENCE
21 Kidney		AAS	190	Not detected-0.10 ppm vol vt	0.010 ± or - 0.021 ppm vol vt	Samples from 8 widely separated regions. Significant differences between regions and within the same region. Australia, New South Wales CATTLE; ARSENIC; CADMIUM; CHROMIUM; COPPER; LEAD; MANGANESE; MOLYBDENUM; NICKEL; SILICON; ZINC; AUSTRALIAN; KIDNEY; 1979	Flanah, J. Lew, N.Y. 1979 Journal of the Science of Food and Agriculture 30:403-407
22 Kidney	Ingestion	AAS	a) 4 b) 4	a) Not given b) Not given	a) < 0.02 ppm b) 0.04 ppm Not vt	a) Pastures fertilized with treated effluents b) Controls Grass 6 on on plots treated with effluents (100 lb N/acre) or conventional fertilizer (100 lb N/acre). Applied 5/79 and 7/79 Black, white-faced calves, mean post-test vt 337 lb, mean post-test vt 445 lb. No pathological changes CATTLE; BAPTINATE; CADMIUM 33F; MANGANESE 33F; ARSENIC; CADMIUM; COPPER; LEAD; MOLYBDENUM; NICKEL; SILICON; ZINC; BIOACCUMULATION; CHROMIUM; BLOOD; BLOOD SPERM; KIDNEY; LIVER; MUSCLES	Edwards, H.C. Dolan, S.L. 1980 Toxicology and Human Toxicology 22(5):309-311

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Amesbury
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TEST	DIPOLOID DOSE	ANALYTICAL METHOD	NUMBER OF CLIPS	TIME	RESULTS	ADDITIONAL INFORMATION	REFERENCE
22 Liver		ALS	100	< 0.01-0.05 ppm wet wt	0.01 or - 0.015 ppm wet wt	<p>samples from 6 widely separated regions. Significant differences between regions and within the same region.</p> <p>Australia, New South Wales</p> <p>CATTLE; ARSENIC; CADMIUM; COPPER; COBALT; CHROMIUM; IRON; MANGANESE; MERCURY; MOLYBDENUM; NICKEL; SILICON; ZINC; BIOACCUMULATION; LIVER</p>	Plonick, J. 1979 Journal of the Science of Food and Agriculture 28:1503-1507
24 Liver	Ingestion	ALS	a) 4 b) 4	a) Not given b) Not given	a) < 0.02 ppm b) 0.06 ppm wet wt	<p>a) Pasture fertilized with treated effluent</p> <p>b) Controls</p> <p>cattle 6 mo on plots treated with effluent (100 lb N/acre) or concentrate (100 lb N/acre) 1/79</p> <p>Plot: white-faced calves, mean post-test wt 337 lb, mean post-test wt 445 lb.</p> <p>No pathological changes</p> <p>CATTLE; RADIUM; RADIUM 226; RADIUM 230; ARSENIC; CADMIUM; COBALT; CHROMIUM; IRON; MANGANESE; NICKEL; SILICON; ZINC; BIOACCUMULATION; LIVER; MUSCLES</p>	Edwards, V.C. 1980 Veterinary and Human Toxicology 22(5):309-311
25 Muscle	Ingestion	ALS	a) 4 b) 4	a) Not given b) Not given	a) < 0.02 ppm b) 0.10 ppm wet wt	<p>a) Pasture fertilized with treated effluent</p> <p>b) Controls</p> <p>cattle 6 mo on plots treated with effluent (100 lb N/acre) or concentrate (100 lb N/acre) 1/79</p> <p>Plot: white-faced calves, mean post-test wt 337 lb, mean post-test wt 445 lb.</p> <p>No pathological changes</p> <p>CATTLE; RADIUM; RADIUM 226; RADIUM 230; ARSENIC; CADMIUM; COBALT; CHROMIUM; IRON; MANGANESE; NICKEL; SILICON; ZINC; BIOACCUMULATION; LIVER; MUSCLES</p>	Edwards, V.C. 1980 Veterinary and Human Toxicology 22(5):309-311

Arsonic
7440-39-2

At 74.9216, W 817 C at 24 atm, BP 613 C (sublimed), VP 1 mm Hg at 180 C, 10 mm Hg at 440 C
S-luc
SCS sp.

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
26 Liver	Ingestion		1	Not applicable	0.02 ppm wet wt	<p>1100 group of growing Yorkshire crossbreeds (wt 35-55 kg) fed improperly repackaged feed containing 700 ppm CuSO₄ as growth promoter. Estimated death losses, 400 of 2000 pigs during 10.5 mo.</p> <p>Georgia (8)</p> <p>Chronic Cu toxicosis manifested as Fe deficiency anemia, anorexia, weight loss, edema, weakness, pallor.</p> <p>Discolored liver, hepatic centrilobular necrosis, ulcers of gastric cardia, pale mucosae, watery blood, reddened bone marrow, splenic myeloid metaplasia.</p> <p>SWINE; GEORGIA; METAL POISONING; SICOD; BLOOD PLASMA; PC'S; KIDNEYS; LIVER; ARSENIC; COPPER; LEAD; BIOACCUMULATION; FOOD ADDITIVES</p>	<p>Hatch, R.C. Blum, J.L. Whaffey, E.A. Jain, A.V. Snalley, R.E. 1979 Journal of the American Veterinary Medical Association 174(6):616-619</p>

1002(a)anthracene
56-55-3
C18-H12
BP 229.2, MP 160 C, BP 400 C
black, black sea
CENTROPHETUS STRICTA

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
27 Eels, whole		GC OV		Not given	< 1 ppm wet wt	<p>(dry wt/wet wt = 0.2)</p> <p>Composite sample of several organisms collected in oil drilling area, depth 57 m</p> <p>Atlantic Ocean, Baltimore Canyon</p> <p>ATLANTIC OCEAN; POLYNUCLEAR AROMATIC HYDROCARBONS; NEW JERSEY; BODY; BIOACCUMULATION; WATER POLLUTION; FISHES</p>	<p>Pross, R.A. Pancirov, R.J. 1979 Environmental Science and Technology 13(7):878-879</p>

Benz(a)anthracene
 56-55-1
 CM-812
 BU 229.2, BP 160 C, BP 400 C
 Eel, fish
 PARALICHTHES TRIACANTHUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	YEAR	GENERAL INFORMATION	REFERENCE
29 Body, whole		GC UV		Not given	< 20 ppb wet wt	177 wt/wet wt = 0.29 Composite sample of several organisms collected in oil drilling area, depth 35 m Atlantic Ocean, Baltimore Canyon ATLANTIC OCEAN; POLYNUCLEAR AROMATIC HYDROCARBONS; NEW JERSEY; PCB; BIOACCUMULATION; WATER POLLUTION; FISHES	Brown, B.A. Pandey, R.J. 1979 Environmental Science and Technology 13(7):676-679

Benz(a)anthracene
 56-55-1
 CM-812
 BU 229.2, BP 160 C, BP 400 C
 Flounder, summer
 PARALICHTHES DENTATUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	YEAR	GENERAL INFORMATION	REFERENCE
29 Body, whole		GC UV		Not given	< 1 ppb wet wt	177 wt/wet wt = 0.21 Composite sample of several organisms collected in oil drilling area, depth 102 m Atlantic Ocean, Baltimore Canyon ATLANTIC OCEAN; POLYNUCLEAR AROMATIC HYDROCARBONS; NEW JERSEY; BODY; BIOACCUMULATION; FISHES; WATER POLLUTION	Brown, B.A. Pandey, R.J. 1979 Environmental Science and Technology 13(7):676-679

Benz(a)anthracene
 56-55-1
 CM-812
 BU 229.2, BP 160 C, BP 400 C
 Hake, red
 MICROPTERUS CRASS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	YEAR	GENERAL INFORMATION	REFERENCE
30 Body, whole		GC UV		Not given	0.1 ppb wet wt	composite sample of several organisms collected in oil drilling area, depth 78 m Atlantic Ocean, Baltimore Canyon ATLANTIC OCEAN; POLYNUCLEAR AROMATIC HYDROCARBONS; NEW JERSEY; BODY; BIOACCUMULATION; WATER POLLUTION; FISHES	Brown, B.A. Pandey, R.J. 1979 Environmental Science and Technology 13(7):676-679

Benz(a)anthracene
 SC-55-3
 CM-812
 BU 228.2, SP 160 C, BP 400 C
 Scallop, sea
 PLACOPRIN MAGELLANICUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	DOSE	REMARK	GENERAL INFORMATION	REFERENCE
31 Body, whole		GC UV		Not given	1.1 ppb wet wt	Composite sample of several organisms Collected in oil drilling area, depth 78 m Atlantic Ocean, Baltimore Canyon ATLANTIC OCEAN; POLYNUCLEAR AROMATIC HYDROCARBONS; NEW JERSEY; BOYT; BIOACCUMULATION; WATER POLLUTION; FISHES	Brown, R.A. Sancirov, R.J. 1979 Environmental Science and Technology 13(7):878-879

Benz(a)anthracene
 SC-55-3
 CM-812
 BU 228.2, SP 160 C, BP 400 C
 Scallop
 PLACOPRIN MAGELLANICUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	DOSE	REMARK	GENERAL INFORMATION	REFERENCE
32 Body, whole		GC UV		Not given	< 1 ppb wet wt	Dry wt/wet wt = 0.26 Composite sample of several organisms Collected in oil drilling area, depth 78 m Atlantic Ocean, Baltimore Canyon ATLANTIC OCEAN; POLYNUCLEAR AROMATIC HYDROCARBONS; NEW JERSEY; BOYT; BIOACCUMULATION; WATER POLLUTION; FISHES	Brown, R.A. Sancirov, R.J. 1979 Environmental Science and Technology 13(7):878-879

Heptachlor, hexachloro-
 108-74-1
 CC-CL5
 BU 244.00, SP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C
 Gull, great black-backed
 LARUS MARINUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	DOSE	REMARK	GENERAL INFORMATION	REFERENCE
33 Eggs		GC	28	0.0-2.9 ppb wet wt	0.01 + or - 0.04 ppb wet wt	Hatchling index 1.71-2.11, shell thickness 0.39-0.47 mm, shell wt 7.31-9.09 g, lipid content 4.0-9.6% Collected 5/77 Maine, Appledore Island FISHES; MARINE; EGGS; CHLORINE ORGANIC COMPOUNDS; GULF; DDT; DDE; Dieldrin; CHLOROCYCLOPENTANE; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; VIRGILIA	Szaro, V.C. Coon, V.C. Kolbe, E. 1979 Bulletin of Environmental Contamination and Toxicology 22:394-399

Exposure, hexachloro-

118-76-1

C6-C16

SV 284.80, BP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Perpore, harbor

SECOGSA PROCOSA

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
34 Adipose	Placental	GC/MS	1	Not applicable	0.1 ug/g wet wt	In extractable lipids. Subcutaneous fat lipid content 0.6% Value for fetus (length 40 cm) of leached harbor porpoise in poor condition Netherlands, Tuzel PCB/PCB; ADIPOSE TISSUE; KIDNEY; LIVER; NETHERLANDS; PESTIC; BIOACCUMULATION; PESTICIDE RESIDUES; WATER POLLUTION; CHLORINE ORGANIC COMPOUNDS; ETC; DDT; DDE; DIELDIN; SEPTACHLOROCYCLOHEXANE; LINDANE	Deinker, J.C. Hillebrand, N.T.J. 1979 Bulletin of Environmental Contamination and Toxicology 23:728-732
35 Kidney	Placental	GC/MS	1	Not applicable	0.7 ug/g wet wt	In extractable lipids. Kidney lipid content 1.5% Value for fetus (30 cm length) of leached harbor porpoise in poor condition Netherlands, Tuzel PCB/PCB; ADIPOSE TISSUE; KIDNEY; LIVER; NETHERLANDS; PESTIC; BIOACCUMULATION; PESTICIDE RESIDUES; WATER POLLUTION; CHLORINE ORGANIC COMPOUNDS; ETC; DDT; DDE; DIELDIN; SEPTACHLOROCYCLOHEXANE; LINDANE	Deinker, J.C. Hillebrand, N.T.J. 1979 Bulletin of Environmental Contamination and Toxicology 23:728-732
36 Liver	Placental	GC/MS	1	Not applicable	1.3 ug/g wet wt	In extractable lipids. Liver lipid content 21% Value for fetus (20 length) of leached harbor porpoise in poor condition Netherlands, Tuzel PCB/PCB; ADIPOSE TISSUE; KIDNEY; LIVER; NETHERLANDS; PESTIC; BIOACCUMULATION; PESTICIDE RESIDUES; WATER POLLUTION; CHLORINE ORGANIC COMPOUNDS; ETC; DDT; DDE; DIELDIN; SEPTACHLOROCYCLOHEXANE; LINDANE	Deinker, J.C. Hillebrand, N.T.J. 1979 Bulletin of Environmental Contamination and Toxicology 23:728-732

Exposure, hexachloro-

118-76-1

C6-C16

SV 284.80, BP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Salmon, coho

CHCOBRYCHOS KISUTCH

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
37 Body, whole		GC	20	16-50 ng/g	36 ± or - 9 ng/g	Significant increase in PCB levels with body wt Average wt 3.56 kg, estimated ages 3-4 yr. Lake Ontario CANADA; BIOACCUMULATION; WATER POLLUTION; SEPTACHLOROCYCLOHEXANE; PESTIC	Wiel, A.J. 1979 Bulletin of Environmental Contamination and Toxicology 23:20-24

Benzo(a) hexachloro-

138-74-1

C6-C16

SP 284.90, BP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Trout, lake

SALVELINUS NEMATOCUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
39 Body, whole		GC	14	40-120 ng/g	40 ± or - 23 ng/g	Significant increase in HCB levels with body wt. Significant increase of 1 body fat with wt average wt 1.02 kg, estimated ages 1-5 yr. Lake Ontario CANADA; BIOACCUMULATION; WATER POLLUTION; HEXACHLOROBENZENE; FISHES	Hind, A.J. 1979 Bulletin of Environmental Contamination and Toxicology 23:20-24

Benzo(a) hexachloro-

138-74-1

C6-C16

SP 284.90, BP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Trout, rainbow

Salmo gairdneri

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
39 Body, whole		GC	15	30-125 ng/g	62 ± or - 24 ng/g	Significant increase in HCB levels with body wt average wt 2.32 kg, estimated ages 3-7 yr. Lake Ontario CANADA; BIOACCUMULATION; WATER POLLUTION; HEXACHLOROBENZENE; FISHES	Hind, A.J. 1979 Bulletin of Environmental Contamination and Toxicology 23:20-24

Benzo(a) pyrene-

50-32-8

C20-H12

BP 252.3, BP 179 C, BP 372 C at 10 mm Hg

Fish, black sea

Centropristis striata

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
40 Body, whole		GC UV		Not given	< 1 ppb wet wt	dry wt/wet wt = 0.23 Composite sample of several organisms collected in oil drilling area, depth 77 m Atlantic Ocean, Baltimore Canyon ATLANTIC OCEAN; POLYNUCLEAR AROMATIC HYDROCARBONS; NEW JERSEY; BODY; BIOACCUMULATION; WATER POLLUTION; FISHES	Brown, B.A. Pascioret, R.J. 1979 Environmental Science and Technology 13(7):878-879

Benzo(a)pyrene
50-32-8
C20-H12
NM 252.3, BP 179 C, BP 372 C at 10 mm Hg
Butterfish
PARALICHTHYS OBSTETUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
a1 Body, whole		GC UV		Not given	< 5 ppb wet wt	dry wt/wet wt = 0.29 Composite sample of several organisms collected in oil drilling area, depth 19 m Atlantic Ocean, Baltimore Canyon ATLANTIC OCEAN; POLYNUCLEAR AROMATIC HYDROCARBONS; NEW JERSEY; PCB;, BIOACCUMULATION; WATER POLLUTION; FISHES	Brown, R.A. Pandelov, R.J. 1979 Environmental Science and Technology 13(7):678-679

Benzo(a)pyrene
50-32-8
C20-H12
NM 252.3, BP 179 C, BP 372 C at 10 mm Hg
Flounder, summer
PARALICHTHYS OBSTETUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
a2 Body, whole		GC UV		Not given	< 1 ppb wet wt	dry wt/wet wt = 0.21 Composite sample of several organisms collected in oil drilling area, depth 162 m Atlantic Ocean, Baltimore Canyon ATLANTIC OCEAN; POLYNUCLEAR AROMATIC HYDROCARBONS; NEW JERSEY; PCB; BIOACCUMULATION; WATER POLLUTION; FISHES	Brown, R.A. Pandelov, R.J. 1979 Environmental Science and Technology 13(7):678-679

Benzo(a)pyrene
50-32-8
C20-H12
NM 252.3, BP 179 C, BP 372 C at 10 mm Hg
Bake, red
SCOPHYRUS CRASS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
a3 Body, whole		GC UV		Not given	< 11 ppb wet wt	Composite sample of several organisms collected in oil drilling area, depth 78 m Atlantic Ocean, Baltimore Canyon ATLANTIC OCEAN; POLYNUCLEAR AROMATIC HYDROCARBONS; NEW JERSEY; PCB; BIOACCUMULATION; WATER POLLUTION; FISHES	Brown, R.A. Pandelov, R.J. 1979 Environmental Science and Technology 13(7):678-679

Benzo(a)pyrene
50-32-8
C20-H12
BP 252.3, MP 179 C, BP 372 C at 10 mm Hg
Scallop, sea
BACOPESKIN MAGILLIANTOS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	REAR	GENERAL INFORMATION	REFERENCE
88 Body, whole		GC UV		Not given	< 1 ppb wet wt	Composite sample of several organisms collected in oil drilling area, depth 70 m Atlantic Ocean, Baltimore Canyon ATLANTIC OCEAN; POLYNUCLEAR AROMATIC HYDROCARBONS; NEW JERSEY; BODY; BIOACCUMULATION; WATER POLLUTION; FISHES	Brown, B.A. Pancirov, R.J. 1979 Environmental Science and Technology 13(7):676-679

Benzo(a)pyrene
50-32-8
C20-H12
BP 252.3, MP 179 C, BP 372 C at 10 mm Hg
Scup
BIBBOTO185 CHEYSONPS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	REAR	GENERAL INFORMATION	REFERENCE
85 Body, whole		GC UV		Not given	< 1 ppb wet wt	dry wt/wet wt = 0.26 Composite sample of several organisms collected in oil drilling area, depth 66 m Atlantic Ocean, Baltimore Canyon ATLANTIC OCEAN; POLYNUCLEAR AROMATIC HYDROCARBONS; NEW JERSEY; BODY; BIOACCUMULATION; WATER POLLUTION; FISHES	Brown, B.A. Pancirov, R.J. 1979 Environmental Science and Technology 13(7):676-679

Biphenyl, chloro (8 CI)
1,1'-biphenyl, chloro deriva (9 CI)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Ba-hot
LC1A LOT4

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	REAR	GENERAL INFORMATION	REFERENCE
86 Liver		GC/MS	a) 9 b) 22	a) 1.2-35.4 ug/g b) 0.04-1.11 ug/g Wet wt	a) 17.1 ug/g b) 0.51 ug/g Wet wt	a) Iron Churchill Falls power plant outfall b) From 6 sites in reservoir and lake area above power plant Summer '77 Canada, Labrador, Churchill Falls FISHES PLANTS; CANADA; ADULTS; ADIPOSE TISSUE; LIVER; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION	Hedial, C.J. Otha, J.P. Wiseham, R.J. Matheson, B.A. 1979 Bulletin of Environmental Contamination and Toxicology 23:256-261

Biphenyl, chloro (8 CI)
 1,1'-Biphenyl, chloro deriva (9 CI)
 1336-36-3
 EXACT COMPOSITION UNKNOWN OR UNDETERMINED
 Carp
 CYPRINUS CARPIO

TEST NO.	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
87 Sausage			115	a) 0.03-3.68 ug/kg b) 0.03-6.94 ug/kg c) 0.08-11.31 ug/kg d) 0.0-11.83 ug/kg e) 0.0-3.65 ug/kg f) 0.06-10.6 ug/kg	a) 0.80 ug/kg b) 2.3 ug/kg c) 3.7 ug/kg d) 0.39 ug/kg e) 1.5 ug/kg f) 3.3 ug/kg	a) wt 0.0-3.5 lb, with skin b) wt 3.5-5.0 lb, with skin c) wt >5.0 lb, with skin d) wt 0.0-3.5 lb, without skin e) wt 3.5-5.0 lb, without skin f) wt >5.0 lb, without skin Composite fillet samples of each size class. Mississippi River CASP; POLYCHLORINATED BIPHENYLS; SIGACCUMLATION; MUSCLES; MINNESOTA	Horn, H.Z. 1981 Bulletin of Environmental Contamination and Toxicology 26:344-348

Biphenyl, chloro (8 CI)
 1,1'-Biphenyl, chloro deriva (9 CI)
 1336-36-3
 EXACT COMPOSITION UNKNOWN OR UNDETERMINED
 Cattle
 BCS sp.

TEST NO.	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
48 Adipose	Oral	GC	113	70-2200 ppm	470 ppm	Tailhead fat biopsies of feedlot steers. Exposed to Aroclor 1260 in transformer oil used as backrubber for about 3 wks. Kansas CATTLE; STEERS; KANSAS; ADIPOSE TISSUE; SIGACCUMLATION; PESTICIDE RESIDUES; POLYCHLORINATED BIPHENYLS	Ross, F.F. Cohnen, D.L. Volsen, H.L. 1981 Bulletin of Environmental Contamination and Toxicology 26:483-488

Biphenyl, chloro (8 CI)
 1,1'-Biphenyl, chloro deriva (9 CI)
 1336-36-3
 EXACT COMPOSITION UNKNOWN OR UNDETERMINED
 Crocodile, American
 CROCODYLUS ACUTUS

TEST NO.	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
49 Eggs		GC-EC	a) 3 b) 3 c) 3 d) 5 e) 1 f) 2 g) 3 h) 3	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given	a) 0.86 ppm b) 0.39 ppm c) 0.20 ppm d) 0.69 ppm e) 0.14 ppm f) 1.4 ppm g) 0.11 ppm h) 0.33 ppm Not vt	6 clutches, significantly different (p < 0.05) Shells, sediments removed. Mean shell thickness 0.49 mm Florida, Everglades National Park EGGS; CROCODILES; REPTILES; FLORIDA; WETLAND; CHLORINE ORGANIC COMPOUNDS; PCB; PCP; DDT; DIBENZO; HEPTACHLOR EPOXIDE; OXYCHLORANE; POLYCHLORINATED BIPHENYLS; SIGACCUMLATION; WATER POLLUTION	Hall, R.J. Kulser, T.E. Robertson, V.D., Jr. Patty, F.C. 1979 Bulletin of Environmental Contamination and Toxicology 23:87-90

Diphenyl, chloro (8 CI)
 1,1'-Diphenyl, chloro series (9 CI)
 1336-36-3
 EXACT COMPOSITION UNKNOWN OR UNDETERMINED
 Rider, Canada

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
50 Eggs		GC	30	0.38-4.30 ppm wet wt	1.40 ± or - 1.08 ppm wet wt	Intelligence Index 1.94-2.38, shell thickness 0.37-0.50 mm, shell wt 7.16-9.99 g, lipid content 13.07-18.03%, Collected 5/77. Haine, Bangs Island INDEX; HAIN; HONE; CHLORINE ORGANIC COMPOUNDS; DDT; DDE; DDT; DIELDIN; CYCHLORANE; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; VIRGINIA	Swaro, R.C. Coen, R.C. Kolbe, E. 1979 Bulletin of Environmental Contamination and Toxicology 22:394-399

Diphenyl, chloro (8 CI)
 1,1'-Diphenyl, chloro series (9 CI)
 1336-36-3
 EXACT COMPOSITION UNKNOWN OR UNDETERMINED
 Gannet, Norwegian
 8005 SARINUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
51 Eggs		GC	a) 10 b) 11	a) 2.1-17 ppm b) 1.8-7.4 ppm wet wt	a) 7.7 ± or - 4.6 ppm b) 3.5 ± or - 1.7 ppm wet wt	a) 1972 b) 1976 Significant decrease in 4 yr period (740.01) No major industries in vicinity of Gannet. Norway, Nordfjelle INDEX; GANNETS; DDT; MERCURY; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; NORWAY; 1968	Piccolito, N. Kroneth, B. Bovik, E.H. 1980 Bulletin of Environmental Contamination and Toxicology 24:142-144

Diphenyl, chloro (8 CI)
 1,1'-Diphenyl, chloro series (9 CI)
 1336-36-3
 EXACT COMPOSITION UNKNOWN OR UNDETERMINED
 Gull, great black-backed
 1805 SARINUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
52 Eggs		GC	28	0.0-130.00 ppm wet wt	30.94 ± or - 22.3 ppm wet wt	Intelligence Index 1.71-2.11, shell thickness 0.39-0.47 mm, shell wt 7.21-9.09 g, lipid content 6.0-9.6%, Collected 5/77. Haine, Appleton Island INDEX; HAIN; HONE; CHLORINE ORGANIC COMPOUNDS; DDT; DDE; DDT; DIELDIN; CYCHLORANE; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; VIRGINIA	Swaro, R.C. Coen, R.C. Kolbe, E. 1979 Bulletin of Environmental Contamination and Toxicology 22:394-399

Biphenyl, chloro (8 CI)
1,1'-Biphenyl, chloro deriva (9 CI)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Gill, herling
LINGS ARGENTATUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
53 Eggs		GC	a) 30 b) 28	a) 0.00-32.00 ppm b) 0.13-16.70 ppm Net wt	a) 7.76 ± or - 8.68 ppm b) 9.06 ± or - 3.59 ppm Net wt	a) Batcliffe index 1.53-1.98, shell thickness 0.30-0.47 mm, shell wt 5.07-7.49 g, lipid content 4.10-10.30% b) Batcliffe index 1.63-2.11, shell thickness 0.33-0.46 mm, shell wt 4.88-7.64 g, lipid content 4.2-9.74 collected 5/77. Paine, Appleboro Island Virginia, Fisherman Island LINGS; NITRO; EGGS; CHLORINE ORGANIC COMPOUNDS; PCB; DDT; DIELDRIN; CYCLOCHLORANE; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; VIRGINIA	Stear, R.C. Coen, H.C. Kelbe, E. 1979 Bulletin of Environmental Contamination and Toxicology 23:394-399

Biphenyl, chloro (8 CI)
1,1'-Biphenyl, chloro deriva (9 CI)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Fish
SUSTELA VISCO

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
54 Adipose	Ingestion	SA	a) 12 b) 11	a) Not given b) Not given	a) 14 ± or - 1.9 ug/g b) 310 ± or - 25 ug/g	a) Controls on standard feed containing 0.05 ppm PCB b) Animals fed daily doses of 3300 ug (11 ppm) PCB for 66 days In extractable fat Animals killed 1 wk after parturition, age 1 yr LINGS; CADMIUM; MERCURY; POLYCHLORINATED BIPHENYLS; SURFEN; ALIPHATIC TISSUE; KIDNEYS; MUSCLES; BIOACCUMULATION	Olsson, H. Kihlstrom, J.E. Jensen, S. Oberg, J. 1979 Ablis 8(1):25

Biphenyl, chloro (8 CI)
1,1'-Biphenyl, chloro deriva (9 CI)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Seiropoia, harbor
SPONCINA SPONCINA

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
55 Adipose	Placental	GC/MS	1	Not applicable	54 ug/g wet wt	In extractable lipids. Subcutaneous fat lipid content 0.64 Value for fetus (length 20 cm) of beached harbor porpoise in poor condition Netherlands, Texel PCB; ADIPOSE TISSUE; KIDNEYS; LIVER; METABOLISM; FETUS; BIOACCUMULATION; PESTICIDE RESIDUES; WATER POLLUTION; CHLORINE ORGANIC COMPOUNDS; PCB; DDT; DIELDRIN; NITROCHLOROPOLYCHLORANE; LINDANE	Quinker, J.C. Millebrand, H.T.J. 1979 Bulletin of Environmental Contamination and Toxicology 23:724-732

(NEXT PAGE)

Biphenyl, chloro (8 CI)
 1,1'-biphenyl, chloro deriva (9 CI)
 1336-36-3
 EXACT COMPOSITION UNKNOWN OR UNDETERMINED
 Ecopoise, Harbor
 BOCOSHA PHOCOSHA

(CONTINUED)

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
56 Kidney	Placental	GC/MS	1	Not applicable	34 ug/g wet wt	In extractable lipids. Kidney lipid content 1.5% Value for fetus (length 20 cm) of beached harbor porpoise in poor condition Netherlands, Texel ECOPOISE; ADIPOSE TISSUE; KIDNEYS; LIVER; NETHERLANDS; FETUS; BIOACCUMULATION; PESTICIDE RESIDUES; WATER POLLUTION; CHLORINE ORGANIC COMPOUNDS; PCB; DDE; DDT; DIELDRIN; HEPTACHLOROCYCLOXYMETHANE; LINDANE	Duisker, J.C. Hillebrand, H.T.J. 1979 Bulletin of Environmental Contamination and Toxicology 23:728-732
57 Liver	Placental	GC/MS	1	Not applicable	50 ug/g wet wt	In extractable lipids. Liver lipid content 21% Value for fetus (length 20 cm) of beached harbor porpoise in poor condition Netherlands, Texel ECOPOISE; ADIPOSE TISSUE; KIDNEYS; LIVER; NETHERLANDS; FETUS; BIOACCUMULATION; PESTICIDE RESIDUES; WATER POLLUTION; CHLORINE ORGANIC COMPOUNDS; PCB; DDE; DDT; DIELDRIN; HEPTACHLOROCYCLOXYMETHANE; LINDANE	Duisker, J.C. Hillebrand, H.T.J. 1979 Bulletin of Environmental Contamination and Toxicology 23:728-732

110

Biphenyl, chloro (8 CI)
 1,1'-biphenyl, chloro deriva (9 CI)
 1336-36-3
 EXACT COMPOSITION UNKNOWN OR UNDETERMINED
 Shad, American
 ALOSA SAPIDISSIMA

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
58 Muscle		GC-EC	a) 20 b) 32	a) 0.9-11.7 ug/g b) 1.9-19.0 ug/g wet wt	a) 2.0 ± or - 1.0 ug/g b) 6.1 ± or - 2.7 ug/g wet wt	a) Tappan Sea, 27 ml from river mouth. Mean length 47.9 cm b)oughkeepsie, 75 ml from river mouth. Mean length 52.9 cm Collected spring '77. New York, Hudson River NEW YORK; MUSCLES; BIOACCUMULATION; BIOINDICATORS; FISHES; WATER POLLUTION; POLYCHLORINATED BIPHENYLS	Pantel, N. Bush, S. Van, J.S. 1980 Pesticides Monitoring Journal 14(1):11-22

Biphenyl, chloro (8 CI)
 1,1'-Biphenyl, chloro deriva (9 CI)
 1336-36-3
 EXACT COMPOSITION UNKNOWN OR UNDETERMINED
 Snake, garter
 TRANSCHLORIS SERIALS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
59 Body, whole			6	1.3-5.8 ppm wet wt	2.9 ppm wet wt	Snout-vent length 646-752 mm, lipid content 3.2-9.04. Nestling birds in stomachs of 3 snakes contained 0.85-1.3 ppm. Lake Michigan, Spider Island SHAKES; BARTLAND; BODY; BIOACCUMULATIVES; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; DDE; DIELDRIN; MERCURY; POLYCHLORINATED BIPHENYLS	Heins, G.H. Hawelting, S.D. Hall, R.J. Kryzhanov, A.J. 1980 Bulletin of Environmental Contamination and Toxicology 25:738-743

Biphenyl, chloro (8 CI)
 1,1'-Biphenyl, chloro deriva (9 CI)
 1336-36-3
 EXACT COMPOSITION UNKNOWN OR UNDETERMINED
 Snake, water
 BIODOLIA SERIALS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
60 Body, whole			1	Not applicable	4.3 ppm wet wt	Snout-vent length 855 mm, 6.24 lipid content Lake Michigan, Pilot Island SHAKES; BARTLAND; BODY; BIOACCUMULATIVES; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; DDE; DIELDRIN; MERCURY; POLYCHLORINATED BIPHENYLS	Heins, G.H. Hawelting, S.D. Hall, R.J. Kryzhanov, A.J. 1980 Bulletin of Environmental Contamination and Toxicology 25:738-743

Biphenyl, chloro (8 CI)
 1,1'-Biphenyl, chloro deriva (9 CI)
 1336-36-3
 EXACT COMPOSITION UNKNOWN OR UNDETERMINED
 Trout, lake
 SALVELINUS SERIALS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
61 Adipose		GC/MS	8	0.37-0.69 ug/g wet wt	0.50 ug/g wet wt	Resentary fat Collected summer '77 in reservoir and lake area above Churchill Falls power plant. Canada, Labrador, Churchill Falls FOUR PLANTS; CANADA; ADULTS; ADIPOSE TISSUE; LIVES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATIVES; PESTICIDE RESIDUES; WATER POLLUTION	Musiel, C.J. Dike, J.P. Niesen, R.J. Nathanson, R.L. 1979 Bulletin of Environmental Contamination and Toxicology 23:256-261

(CONT PAGE)

Biphenyl, Chloro (8 CI)
 1,1'-Biphenyl, Chloro Derivs (9 CI)
 1336-36-3
 EXACT COMPOSITION UNKNOWN OR UNDETERMINED
 Trout, lake
 CALVELLUS BASATCUM

(CONTINUED)

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	REMARKS	ORIGINAL INFORMATION	REFERENCE
42 Muscle		GC	a) 10 b) 10 c) 10	a) Not given b) Not given c) Not given	a) 140 ± or - 70 ug b) 90 ± or - 40 ug c) 80 ± or - 30 ug	a) Saw b) Irradiated with Co 60 source, 1000 kilorads (30% PCB loss) c) Irradiated and broiled to internal temperature of 75 C (43% PCB loss) fillet Fish wt 0.8-1.2 kg, length 45-52 cm Michigan, Great Lakes BIOACCUMULATION; FISHES; FOOD CONTAMINATION; IRRADIATION; VARIOUS ISOLATION; POLYCHLORINATED BIPHENYLS; MICHIGAN	Cichy, B.F. Eakin, H.H. Hawser, C.S. 1979 Bulletin of Environmental Contamination and Toxicology 23:607-612

ECR-6
 7440-02-0
 1
 AIR 10.01, HP 2200 C (approx), BP 2550 C, VP 1.56E10(E-5) atm at 2100 C, 1 ug/kg at 2600 C, 10 ug/kg at 3030 C
 Deer, male
 CROCOTYLUS HIRIENSIS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	REMARKS	ORIGINAL INFORMATION	REFERENCE
43 Bone		Colorimetry	a) 12 b) 6	a) 0.8-1.8 ppm b) 1.2-3.6 ppm Dry wt	a) 1.2 ± or - 0.3 ppm b) 1.2 ± or - 3.6 ppm Dry wt	a) Adults (1.5 yr and older) b) Fawns (0.5 yr) Metamorphosis Significant difference in levels between age groups (P<0.05) Captured 1/79 near oil shale waste before mining initiated. Colorado, Rio Blanco County, Piceance Creek Basin FISH RICH; RARE BIRD; BROWN; COPPER; JUVENILE; POLYCHLORINATED; FISH; FISHES; LIVER	Stotler, L.H. 1980 Journal of Wildlife Diseases 16(2):175-182

ECR-6
 7440-02-0
 1
 AIR 10.01, HP 2200 C (approx), BP 2550 C, VP 1.56E10(E-5) atm at 2100 C, 1 ug/kg at 2600 C, 10 ug/kg at 3030 C
 Moose, deer
 STOMATOCUS BACILLATUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	REMARKS	ORIGINAL INFORMATION	REFERENCE
44 Bone		Colorimetry	a) 45 b) 45 c) 45	a) Not given b) Not given c) Not given	a) 4 ± or - 2 ppm b) 4 ± or - 2 ppm c) 4 ± or - 3 ppm Dry wt	a) Pinyon-juniper habitat b) Mountain shrub habitat c) Big sagebrush habitat Captured 1/79 near oil shale waste before mining initiated Shale skeleton Colorado, Rio Blanco County, Piceance Creek Basin FISH RICH; RARE BIRD; BROWN; COPPER; JUVENILE; POLYCHLORINATED; FISH; FISHES; LIVER	Stotler, L.H. 1980 Journal of Wildlife Diseases 16(2):175-182

Cadmium
7440-43-9

Cd

AM 112.40, BP 121 C, BP 765 C, VP 1 mg Hg at 390 C, 10 mg Hg at 406 C

Antelope, Pennsylvania
ANTHROCAURA ASSURICATA

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	SEX	AGE	GENERAL INFORMATION	REFERENCE
65 Kidney		AAS	21	Not given	1.27 ± or = 1.06 mg/g dry wt	Age < 10-85 mo, assumed healthy. Trend of accumulation with age (196,10). Vegetation analysis indicated prairie area free from gross pollution. Montana, Northern Great Plains TSS: ANTIMONY; MONTANA; KIDNEY; LIVER; BIOACCUMULATION; CADMIUM; CCPES; LEAD; MANGANESE; NITRATES; POLYBROMINE; NICKEL; ZINC	Rundhever, F.F. Benson, D.B. 1979 Bulletin of Environmental Contamination and Toxicology 22:427-432
66 Liver		AAS	20	Not given	0.10 ± or = 0.15 mg/g dry wt	Age < 10-85 mo Antelope assumed to be healthy Vegetation analysis indicated prairie area free from gross pollution. Montana, Northern Great Plains TSS: ANTIMONY; MONTANA; KIDNEY; LIVER; BIOACCUMULATION; CADMIUM; CCPES; LEAD; MANGANESE; NITRATES; POLYBROMINE; NICKEL; ZINC	Rundhever, F.F. Benson, D.B. 1979 Bulletin of Environmental Contamination and Toxicology 22:427-432

Cadmium
7440-43-9

Cd

AM 112.40, BP 121 C, BP 765 C, VP 1 mg Hg at 390 C, 10 mg Hg at 406 C

Bluegill
LÉCHES MACACCHIONS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	SEX	AGE	GENERAL INFORMATION	REFERENCE
67 Body, whole		AAS	61	Not given	0.2 mg/g	Fishes, mean length 95 mm, mean dry wt 16.40 g, collected downstream of flood control weir at Altoona. No major industrial effluents, metal input mainly from sewage treatment plants and recreational boating. Concentration increases with increasing fish wt. Illinois, Pe. River ILLINOIS; BODY; BIOACCUMULATION; FISHES; WATER POLLUTION; CADMIUM; CCPES; LEAD; NITRATES; ZINC	Vinikour, W.S. Goldstein, B.N. Anderson, R.V. 1980 Bulletin of Environmental Contamination and Toxicology 24:727-734

Codex
 7400-43-9
 Cd
 At 112.00, 100 321 C, 100 745 C, 100 1 on 10 at 394 C, 10 on 10 at 406 C
 Fullhead, black
 FCTALGUS 11111

1137-1	EXPOSURE SOURCE	ANALYTICAL METHOD	NUMBER OF CASES	DIAGNOSIS	REMARKS	GENERAL INFORMATION	REFERENCE
64 Body, whole		AAS	10	Not given	0.3 ug/g	<p>Fishes, mean length 172 mm, mean dry wt 81.39 g, collected downstream of flood control weir at Algonquin. No major industrial effluents, total input mainly from sewage treatment plants and recreational boating.</p> <p>Illinois, Fox River</p> <p>ILLINOIS; BODY; BIOACCUMULATION; FISHES; WATER POLLUTION; CADMIUM; COPPER; LEAD; METALS; ZINC</p>	<p>Vinikour, W.E. Goldstein, H.H. Andersen, H.V. 1980 Bulletin of Environmental Contamination and Toxicology 24:727-734</p>

Codex
 7400-43-9
 Cd
 At 112.00, 100 321 C, 100 745 C, 100 1 on 10 at 394 C, 10 on 10 at 406 C
 Cattle
 BCS up.

1137-2	EXPOSURE SOURCE	ANALYTICAL METHOD	NUMBER OF CASES	DIAGNOSIS	REMARKS	GENERAL INFORMATION	REFERENCE
65 Bone	Ingestion	AAS	a) 3 b) 3	a) Not given b) Not given	<p>a) 0.02 ± or - 0.002 ppm b) < 0.01 ppm Dry wt</p>	<p>a) Control diet b) Diet of 12% high Cd sewage sludge, 100 days Hereford yearlings, mean wt 336 kg. Slaughtered at 460 kg mean live wt.</p> <p>CATTLE; SLUDGES; COLORADO; BONES; BRAIN; KIDNEYS; LIVER; LUNGS; MUSCLES; SPLEEN; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MERCURY</p>	<p>Johnson, B.E. Kienholz, H.V. Baxter, J.C. Spangler, H. Ward, G.H. 1981 Journal of Animal Science 52(1):108-114</p>
70 Brain	Ingestion	AAS	a) 3 b) 3	a) Not given b) Not given	<p>a) < 0.01 ppm b) < 0.013 ppm Dry wt</p>	<p>a) Control diet b) Diet of 12% high Cd sewage sludge, 100 days Hereford yearlings, mean wt 336 kg. Slaughtered at 460 kg mean live wt.</p> <p>CATTLE; SLUDGES; COLORADO; BONES; BRAIN; KIDNEYS; LIVER; LUNGS; MUSCLES; SPLEEN; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MERCURY</p>	<p>Johnson, B.E. Kienholz, H.V. Baxter, J.C. Spangler, H. Ward, G.H. 1981 Journal of Animal Science 52(1):108-114</p>
71 Kidney		AAS	190	0.02-10.7 ppm wet wt	<p>0.43 ± or - 1.07 ppm wet wt</p>	<p>Samples from 8 widely separated regions. Significant differences between regions and within the same region.</p> <p>Australia, New South Wales</p> <p>CATTLE; ARSENIC; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; MANGANESE; MERCURY; MOLYBDENUM; NICKEL; SILICON; ZINC; AUSTRALIA; KIDNEYS; LIVER</p>	<p>Flanahan, J. Lee, H.V. 1979 Journal of the Science of Food and Agriculture 30:503-507</p>

(NEXT PAGE)

Continued
7-60-13-9
C-8
S18 112-40, 40 121 C, 30 145 C, 10 140 C, 10 140 C, 10 140 C
C-8
C-8
C-8

(CONTINUED)

TEST	EXPOSURE DATA	ANALYTICAL METHOD	NUMBER OF CASES	DOSE	HAZ	OTHER INFORMATION	REFERENCE
72 Liver	Injection	MS	a) 2 b) 2	a) Not given b) Not given	a) 1.19 ± 0.10 ppm b) 11.55 ± 0.10 ppm dry wt	a) Control diet b) Diet of 12% high CD average sludge, 100 days Significant increase (p < 0.1) in sludge-fed steers slaughtered at 400 kg mean live wt. slaughtered at 400 kg mean live wt. CATTLE; ALABAMA; COLORADO; IOWA; ILLINOIS; KENTUCKY; LOUISIANA; MISSISSIPPI; MINNESOTA; MONTANA; NEBRASKA; NEW YORK; NORTH CAROLINA; OHIO; OREGON; PENNSYLVANIA; RHODE ISLAND; SOUTH CAROLINA; Tennessee; TEXAS; VIRGINIA; WISCONSIN; WASHINGTON; WEST VIRGINIA; YUCCA	Johnson, B.D. Hickman, E.D. Harter, J.C. Spangler, E. Ward, G.H. 1951 Journal of Animal Science 52(1):106-110
73 Liver	Injection	MS	a) 2 b) 2	a) Not given b) Not given	a) 1.25 ppm wet wt b) 0.00 ppm wet wt	a) Pastures fertilized with treated sludge b) Control Sludge & no on diets treated with sludge (100 lb/acre) or commercial fertilizer (100 lb /acre). Applied 1/79 and 7/79 black, white-faced calves, mean live-weight at 337 lb, mean post-test at 447 lb. No pathological changes CATTLE; ALABAMA; ARIZONA; ARKANSAS; CALIFORNIA; COLORADO; CONNECTICUT; DELAWARE; FLORIDA; GEORGIA; ILLINOIS; INDIANA; IOWA; KANSAS; KENTUCKY; LOUISIANA; MAINE; MARYLAND; MASSACHUSETTS; MICHIGAN; MINNESOTA; MISSISSIPPI; MISSOURI; MONTANA; NEBRASKA; NEVADA; NEW HAMPSHIRE; NEW JERSEY; NEW YORK; NORTH CAROLINA; NORTH DAKOTA; OHIO; OKLAHOMA; OREGON; PENNSYLVANIA; RHODE ISLAND; SOUTH CAROLINA; Tennessee; TEXAS; VIRGINIA; WISCONSIN; WASHINGTON; WEST VIRGINIA; YUCCA	Edwards, R.C. Boyle, A.L. 1950 Veterinary and Human Toxicology 22(6):308-311
74 Liver	Injection	MS	100	< 0.005-0.00 ppm wet wt	0.05 ± 0.10 ppm wet wt	Sludge fed & widely separated regions. Significant differences between regions and within the same region. Australia, New South Wales CATTLE; ALABAMA; ARIZONA; ARKANSAS; CALIFORNIA; COLORADO; CONNECTICUT; DELAWARE; FLORIDA; GEORGIA; ILLINOIS; INDIANA; IOWA; KANSAS; KENTUCKY; LOUISIANA; MAINE; MARYLAND; MASSACHUSETTS; MICHIGAN; MINNESOTA; MISSISSIPPI; MISSOURI; MONTANA; NEBRASKA; NEVADA; NEW HAMPSHIRE; NEW JERSEY; NEW YORK; NORTH CAROLINA; NORTH DAKOTA; OHIO; OKLAHOMA; OREGON; PENNSYLVANIA; RHODE ISLAND; SOUTH CAROLINA; Tennessee; TEXAS; VIRGINIA; WISCONSIN; WASHINGTON; WEST VIRGINIA; YUCCA	Flanigan, J. Boyle, A.L. 1976 Journal of the Science of Food and Agriculture 20:503-507
75 Liver	Injection	MS	a) 2 b) 2	a) Not given b) Not given	a) 0.10 ± 0.10 ppm b) 2.92 ± 0.10 ppm dry wt	a) Control diet b) Diet of 12% high CD average sludge, 100 days Significant increase (p < 0.1) in sludge-fed steers slaughtered at 400 kg mean live wt. slaughtered at 400 kg mean live wt. CATTLE; ALABAMA; COLORADO; IOWA; ILLINOIS; KENTUCKY; LOUISIANA; MISSISSIPPI; MINNESOTA; MONTANA; NEBRASKA; NEW YORK; NORTH CAROLINA; OHIO; OREGON; PENNSYLVANIA; RHODE ISLAND; SOUTH CAROLINA; Tennessee; TEXAS; VIRGINIA; WISCONSIN; WASHINGTON; WEST VIRGINIA; YUCCA	Johnson, B.D. Hickman, E.D. Harter, J.C. Spangler, E. Ward, G.H. 1951 Journal of Animal Science 52(1):106-110

(CONTINUED)

Codex
7040-43-9
Cd
270 912.40, BP 321 C, BP 765 C, VP 1 an Hg at 394 C, 10 an Hg at 406 C
Cattle
203 up.

(CONTINUED)

ISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	DIAGNOSIS	NEAR	GENERAL INFORMATION	REFERENCE
76 Liver	Ingestion	AAS	a) 4 b) 4	a) Not given b) Not given	a) 0.23 ppm b) 0.25 ppm Wet wt	a) Pastures fertilized with treated raffinate b) Controls Grazing 6 we on plots treated with raffinate (100 lb N/acre) or commercial fertilizer (100 lb N/acre). Applied 5/79 and 7/79 Black, white-faced calves, mean pre-test wt 337 lb, mean post-test wt 445 lb. No pathological changes CATTLE: HEPATINATE; RADIUM 226; THORIUM 230; ARSENIC; CADMIUM; COPPER; LEAD; POLYBROMINE; NICKEL; VANADIUM; ZINC; BIOACCUMULATION; GLANDS; BLOOD; BLOOD SERUM; KIDNEYS; LIVER; MUSCLES	Edwards, U.C. Dooley, A.L. 1980 Veterinary and Human Toxicology 22(5):309-311
77 Lung	Ingestion	AAS	a) 3 b) 3	a) Not given b) Not given	a) 0.05 + or - 0.1 ppm b) 0.40 + or - 0.05 ppm Dry wt	a) Control diet b) Diet of 12% high Cd sewage sludge, 104 days Significant increase ($P < 0.1$) in sludge-fed steers Hereford yearlings, mean wt 336 kg. Slaughtered at 460 kg mean live wt. CATTLE: SLUDGES; COLORADO; POWERS; RAIN; KIDNEYS; LIVER; LUNGS; MUSCLES; SPLEEN; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MERCURY	Johnson, B.E. Kienholz, E.W. Baxter, J.C. Spangler, E. Ward, G.H. 1981 Journal of Animal Science 52(1):100-110
78 Spleen	Ingestion	AAS	a) 3 b) 3	a) Not given b) Not given	a) < 0.01 ppm b) 0.03 + or - 0.01 ppm Dry wt	a) Control diet b) Diet of 12% high Cd sewage sludge, 104 days Hereford yearlings, mean wt 334 kg. Slaughtered at 460 kg mean live wt. CATTLE: SLUDGES; COLORADO; POWERS; RAIN; KIDNEYS; LIVER; LUNGS; MUSCLES; SPLEEN; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MERCURY	Johnson, B.E. Kienholz, E.W. Baxter, J.C. Spangler, E. Ward, G.H. 1981 Journal of Animal Science 52(1):100-110
79 Spleen	Ingestion	AAS	a) 4 b) 4	a) Not given b) Not given	a) 0.06 ppm b) 0.08 ppm Wet wt	a) Pastures fertilized with treated raffinate b) Controls Grazing 6 we on plots treated with raffinate (100 lb N/acre) or commercial fertilizer (100 lb N/acre). Applied 5/79 and 7/79 Black, white-faced calves, mean pre-test wt 337 lb, mean post-test wt 445 lb. No pathological changes CATTLE: HEPATINATE; RADIUM 226; THORIUM 230; ARSENIC; CADMIUM; COPPER; LEAD; POLYBROMINE; NICKEL; VANADIUM; ZINC; BIOACCUMULATION; GLANDS; BLOOD; BLOOD SERUM; KIDNEYS; LIVER; MUSCLES	Edwards, U.C. Dooley, A.L. 1980 Veterinary and Human Toxicology 22(5):309-311

(NEXT PAGE)

Cadmium
7400-43-9
Cd
500 112.00, 50 321 C, 50 743 C, 10 1 mg at 394 C, 10 mg at 406 C
Cattle
500 mg.

(CONTINUED)

TESTER	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	DIET	HAIR	GENERAL INFORMATION	REFERENCE
00 Spleen	Ingestion	AAS	a) 3 b) 3	a) Not given b) Not given	a) 0.02 ± or - 0 ppm b) 0.03 ± or - 0.03 ppm Dry wt	a) Control diet b) Diet of 12% high Cd sewage sludge, 104 days Significant increase ($P < 0.1$) in sludge-fed steers Berford yearlings, mean wt 336 kg. Slaughtered at 406 kg mean live wt. CATTLE; SLUDGES; COLICAP; BONES; BRAIN; LUNGS; LIVER; LUNGS; BONES; SPLEEN; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MERCURY	Johnson, P.R. Nichols, E.V. Baxter, J.C. Spangler, H. Card, G.B. 1981 Journal of Animal Science 52(1):108-110

Cadmium
7400-43-9
Cd
500 112.00, 50 321 C, 50 743 C, 10 1 mg at 394 C, 10 mg at 406 C
Cattle, 500 mg
SEVERAL SOLIDIFICATION

TESTER	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	DIET	HAIR	GENERAL INFORMATION	REFERENCE
01 Body, whole			a) 10 b) 10 c) 10 d) 10 e) 10 f) 10 g) 10 h) 10 i) 10	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given	a) 0.23 ± or - 0.07 ppm b) 0.32 ± or - 0.11 ppm c) 0.50 ± or - 0.16 ppm d) 0.25 ± or - 0.09 ppm e) 0.44 ± or - 0.14 ppm f) 0.93 ± or - 0.30 ppm g) 0.17 ± or - 0.05 ppm h) 0.22 ± or - 0.10 ppm i) 0.19 ± or - 0.09 ppm	a) 15 d, 10 ppm b) 30 d, 10 ppm c) 45 d, 10 ppm d) 15 d, 20 ppm e) 30 d, 20 ppm f) 45 d, 20 ppm g) Controls, 15 d h) Controls, 30 d i) Controls, 45 d Cd-seawater solutions, a)-f) Controls, in seawater Shells removed before analysis BILLOWS; CADMIUM; COPPER; SILVER; TRACE ELEMENTS; BIOACCUMULATION; TEST; COMPARATIVE EVALUATION; Cadmium	Graig, D.A. 1972 Bulletin of Environmental Contamination and Toxicology 32:603-607

C4
 A4 112.00, BP 321 C, BP 743 C, VP 1 on Hq at 394 C, 10 on Hq at 406 C
 Crippin, Black
 700223 810000C414703

TEST NO	STATEMENT NO	ANALYTICAL METHOD	NUMBER OF CASES	STATUS	DATE	GENERAL INFORMATION	REFERENCE
62 Body whole		AA3	26	Not given	6.2 10/9	<p>Fishes, mean length 109 mm, mean dry wt 10.69 g, collected downstream of flood control weir at Alpena. No major industrial effluents, actual input mainly from sewage treatment plants and recreational boating. No concentration change with increasing fish wt.</p> <p>Illinois, Fox River</p> <p>ILLINOIS; DATE; BIOACCUMULATION; FISHES; WATER POLLUTION; CASIMIR; COTYD; LUNA; METALS; TIME</p>	<p>Vinikour, W.S. Goldstein, E.H. Anderson, R.V. 1980 Bulletin of Environmental Contamination and Toxicology 24:727-734</p>

112.40, BP 321 C, BP 745 C, VP 1 on Hg at 390 C, 10 on Hg at 406 C
 Foot, only
 GPOC11103 00010003

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	STATUS	MLD	GENERAL INFORMATION	REFERENCE
03 Kidney		AA3	24	Not given	2.70 ± or - 3.00 ug/g dry wt	Age < 10-25 mo, assumed healthy. Significant increase with age (0-0.001). Vegetation analysis indicates pristine area free from gross pollution. Montana, Northern Great Plains SITE; APTZLOVE; MONTANA; EIGHTYS; LIVER; BIOACCUMULATION; CADMIUM; COPPER; IRON; NICKEL; URINALS; POLYBROMINE; SODIUM; SUC	Hamstover, F.F. Bosman, D.B. 1979 Bulletin of Environmental Contamination and Toxicology 22:627-632
04 Liver		AA3	20	Not given	0.31 ± or - 0.33 ug/g dry wt	Age < 10-25 mo, assumed healthy. Vegetation analysis indicates pristine area free from gross pollution. Montana, Northern Great Plains SITE; APTZLOVE; MONTANA; EIGHTYS; LIVER; BIOACCUMULATION; CADMIUM; COPPER; IRON; NICKEL; URINALS; POLYBROMINE; SODIUM; SUC	Hamstover, F.F. Bosman, D.B. 1979 Bulletin of Environmental Contamination and Toxicology 22:627-632

SEXES	REPRODUCTION	PHYSICAL	NUMBER	SEXES	DATE	REMARKS	REFERENCE
		STATUS	OF CLUST				
65 Feathers		645	130	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 1.2 + or - 1.2 10/9 b) 0.04 + or - 0.01 10/9 c) 1.1 + or - 1.0 10/9 d) 0.02 + or - 0.01 10/9 e) 0.05 + or - 0.01 10/9 f) 2.0 + or - 1.2 10/9 dry wt	a) 77 adults b) 13 juveniles c) 80 males d) 42 females e) 81 birds, 1977-78 harvest f) 87 birds, 1978-79 harvest Size and sex of feathers Birds shot by hunters in remote forest area. Virginia (80) BIRDS: FEATHERS; JUVENILES; CADDIS; CCPSH; L&S; STEEL; SILVER; SUG; VIRGINIA; ADULTS	Seashore, P.F. McGraw, H.G. Dietrich, T.J. Coppin, J.L. 1960 Bulletin of Environmental Contamination and Toxicology 25:247-249

115504	11550401 60478	ANATOMICAL METHOD	NUMBER OF CASES	115505	115510	ORIGINAL INFORMATION	REMARKS
60 Kidney	Regulation	24	a) 12 b) 11	a) Not given b) Not given	a) 260 + 11 = 20 mg/% b) 010 + 01 = 70 mg/%	a) Controls on standard food containing 0.75 ppm PCB b) Animals fed daily doses of 3300 ug of pure PCB for 60 days Animals killed 1 wk after parturition, age 1 7/8 Lesions indicate syndrome of C0 and PCB HUG; CLOSTRID; BRUCINUS; ISCHEMIZED HEPATITIS; ERYTHRO; ARTERIO THROM; KIDNEY; MUSCLES; EMBOLUSULATION	Olsson, B. Kihlstrom, J.H. Jansson, S. Olsson, J. 1979 Amib 9(1):25

Codalun
 7400-43-9
 Cd
 112.00, BP 321 C, BP 765 C, VP 1 mg Hg at 390 C, 10 mg Hg at 406 C
 Gunbag
 80CTICA ISLANDICA

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	SOURCE	HAIR	GENERAL INFORMATION	REFERENCE
89 Body, whole			a) 10 b) 10 c) 10 d) 10 e) 10 f) 10 g) 10 h) 10 i) 10	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given	a) 0.31 ± or - 0.07 ppb b) 0.37 ± or - 0.06 ppb c) 0.55 ± or - 0.20 ppb d) 0.36 ± or - 0.15 ppb e) 0.37 ± or - 0.11 ppb f) 0.72 ± or - 0.21 ppb g) 0.25 ± or - 0.10 ppb h) 0.27 ± or - 0.09 ppb i) 0.31 ± or - 0.15 ppb	a) 15 d, 10 ppb b) 29 d, 10 ppb c) 43 d, 10 ppb d) 15 d, 20 ppb e) 29 d, 20 ppb f) 43 d, 20 ppb g) Controls, 15 d h) Controls, 29 d i) Controls, 43 d Cd-concentrator solutions, a)-d) Controls, in seawater Shells removed before analysis ZINC; CHLORINE; COPPER; SILVER; TRAC; ILLUMINATED; BIOACCUMULATION; PCST; COMPARATIVE EVALUATIONS; CONNECTICUT	Greig, R.A. 1979 Bulletin of Environmental Contamination and Toxicology 22:603-607

Codalun
 7400-43-9
 Cd
 112.00, BP 321 C, BP 765 C, VP 1 mg Hg at 390 C, 10 mg Hg at 406 C
 Sheep
 CV19 sp.

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	SOURCE	HAIR	GENERAL INFORMATION	REFERENCE
90 Bone	Ingestion	ASV	a) 5 b) 5	a) Not given b) Not given	a) 3.02 ± or - 0.002 ppb b) 0.01 ± or - 0.001 ppb Dry wt	a) Animals fed sludge-grown crop b) Animals fed control crop lambs fed silage grown on soil amended with 200 dry metric tons/hectare of municipal sewage sludge for 270 days New York, Syracuse Liver cell degeneration in sheep fed sludge-grown corn silage IRRSP; JUVENILES; SLUDGES; ANIMAL FEED; BIOACCUMULATION; CHLORINE; ZINC; COPPER; BRASS; HEART; KIDNEYS; LIVER; MUSCLES; SPLEEN; NEW YORK; AUTOPSIES	Hoffer, C.L. Reid, J.T. Elving, B.C. Steverson, G.S. Hasebek, V.H. Telford, J.H. Parr, A.K. Parkinson, T.F. Froese, C.A. Guttenberg, V.H. Venzolek, P.C. Link, D.J. 1980 Journal of Agricultural and Food Chemistry 28:50-61
91 Brain	Ingestion	ASV	a) 5 b) 5	a) Not given b) Not given	a) 0.02 ± or - 0.00 ppb b) 0.01 ± or - 0.00 ppb Dry wt	a) Animals fed sludge-grown crop b) Animals fed control crop lambs fed silage grown on soil amended with 200 dry metric tons/hectare of municipal sewage sludge for 270 days New York, Syracuse Liver cell degeneration in sheep fed sludge-grown corn silage IRRSP; JUVENILES; SLUDGES; ANIMAL FEED; BIOACCUMULATION; CHLORINE; ZINC; COPPER; BRASS; HEART; KIDNEYS; LIVER; MUSCLES; SPLEEN; NEW YORK; AUTOPSIES	Hoffer, C.L. Reid, J.T. Elving, B.C. Steverson, G.S. Hasebek, V.H. Telford, J.H. Parr, A.K. Parkinson, T.F. Froese, C.A. Guttenberg, V.H. Venzolek, P.C. Link, D.J. 1980 Journal of Agricultural and Food Chemistry 28:50-61

(8887 PAGE)

418 112.00, MP 321 C, BP 765 C, VP 1 mm Hg at 350 C, 10 mm Hg at 486 C

(continued)

TISSUE	BLOODFLOW METHOD	ANALYTICAL METHOD	NUMBER OF CASES	UNIT	DATA	DETAILED SUMMARY	AUTHOR
92 Heart	Injection	ASV	a) 9 b) 5	a) Not given b) Not given	a) 0.63 ± or - 0.00 ppm b) 0.61 ± or - 0.00 ppm Dry wt	a) Animals fed sledge-green crop b) Animals fed control crop Animals fed sledge green grown on soil treated with 250 dry metric tons/hectare of municipal sewage sludge for 274 days New York, Syracuse Liver cell degeneration in sheep fed sledge-green over allage HARRIS; JAVARIS; SIMONS; ALLEN; PETER; HOGGARDSON; CLARK; LIND; BUCKLE; SPENCE; NEW YORK, 1960-1968	Hoffman, C.L. Roid, J.A. Kilving, S.C. Stewart, G.B. Hambley, S.H. Telford, J.D. Parr, A.D. Bucke, C.A. Wentham, F.C. Lind, R.J. 1969 Journal of Agricultural and Food Chemistry 20:150-51
93 Kidney	Injection	ASV	a) 9 b) 5	a) Not given b) Not given	a) 10.5 ± or - 1.0 ppm b) 5.4 ± or - 0.8 ppm Dry wt	a) Animals fed sledge-green crop b) Animals fed control crop Animals fed sledge green grown on soil seeded with 250 dry metric tons/hectare of municipal sewage sludge for 274 days New York, Syracuse Liver cell degeneration in sheep fed sledge-green over allage HARRIS; JAVARIS; SIMONS; ALLEN; PETER; HOGGARDSON; CLARK; LIND; BUCKLE; SPENCE; NEW YORK, 1960-1968	Hoffman, C.L. Roid, J.A. Kilving, S.C. Stewart, G.B. Hambley, S.H. Telford, J.D. Parr, A.D. Bucke, C.A. Wentham, F.C. Lind, R.J. 1969 Journal of Agricultural and Food Chemistry 20:150-51
94 Liver	Injection	ASV	a) 9 b) 5	a) Not given b) Not given	a) 5.0 ± or - 0.2 ppm b) 1.2 ± or - 0.2 ppm Dry wt	a) Animals fed sledge-green crop b) Animals fed control crop Animals fed sledge green grown on soil seeded with 250 dry metric tons/hectare of municipal sewage sludge for 274 days New York, Syracuse Liver cell degeneration in sheep fed sledge-green over allage HARRIS; JAVARIS; SIMONS; ALLEN; PETER; HOGGARDSON; CLARK; LIND; BUCKLE; SPENCE; NEW YORK, 1960-1968	Hoffman, C.L. Roid, J.A. Kilving, S.C. Stewart, G.B. Hambley, S.H. Telford, J.D. Parr, A.D. Bucke, C.A. Wentham, F.C. Lind, R.J. 1969 Journal of Agricultural and Food Chemistry 20:150-51

UNIT 2

Codex
 7000-03-9
 Cd
 At 112.00, BP 121 C, BP 765 C, VP 1 on Bq at 390 C, 10 on Bq at 406 C
 Sheep
 CVIS sp.

(CONTINUED)

ISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	SAMPLES	DOSE	GENERAL INFORMATION	REFERENCE
95 Muscle	Ingestion	ASV	14	a) Not given b) Not given c) Not given d) Not given	a) 0.01 • or - 0.002 ppm b) 0.01 • or - 0.001 ppm c) 0.004 • or - 0.001 ppm d) 0.005 • or - 0.001 ppm Dry wt	a) Animals fed sludge-grown crop, 9 samples (sheep) b) Animals fed sludge-grown crop, 9 samples (sheep) c) Animals fed control crop, 5 samples (sheep) d) Animals fed control crop, 5 samples (sheep) Lambs fed silage grown on soil amended with 200 dry metric tons/hectare of municipal sewage sludge for 270 days New York, Syracuse Liver cell degeneration in sheep fed sludge-grown corn silage SHEEP; JUVENILES; SLUDGES; ANIMAL FEED; BIOACCUMULATION; CADMIUM; SINC; SCURV; SHAD; SHART; KIDNEY; LIVER; MUSCLES; SPLEEN; NEW YORK; AUTOPSY	Haffner, C.L. Reid, J. Elving, D.C. Steensand, G.S. Hasebaki, T.H. Telford, J.H. Furr, A.H. Parkinson, T.P. Sachs, C.A. Guttenberg, W.H. Vaselek, P.C. Link, D.J. 1960 Journal of Agricultural and Food Chemistry 20:50-61
96 Spleen	Ingestion	ASV	a) 9 b) 5	a) Not given b) Not given	a) 0.23 • or - 0.02 ppm b) 0.04 • or - 0.00 ppm Dry wt	a) Animals fed sludge-grown crop b) Animals fed control crop Lambs fed silage grown on soil amended with 200 dry metric tons/hectare of municipal sewage sludge for 270 days New York, Syracuse Liver cell degeneration in sheep fed sludge-grown corn silage SHEEP; JUVENILES; SLUDGES; ANIMAL FEED; BIOACCUMULATION; CADMIUM; SINC; SCURV; SHAD; SHART; KIDNEY; LIVER; MUSCLES; SPLEEN; NEW YORK; AUTOPSY	Haffner, C.L. Reid, J. Elving, D.C. Steensand, G.S. Hasebaki, T.H. Telford, J.H. Furr, A.H. Parkinson, T.P. Sachs, C.A. Guttenberg, W.H. Vaselek, P.C. Link, D.J. 1960 Journal of Agricultural and Food Chemistry 20:50-61

COBOL
7400-43-9
C4
410 112.00, BP 321 C, BP 743 C, VP 1 00 Hg at 394 C, 10 00 Hg at 403 C
Spot
1110STONES IANTHOS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	ADAMS	ADAM	CRITICAL INFORMATION	REFERENCE
97 Brain		AA3	a) 4 b) 4 c) 3 d) 5 e) 6 f) 8	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 1.02 ± or - 0.33 ug/g b) 2.04 ± or - 0.83 ug/g c) 1.16 ± or - 0.23 ug/g d) 1.08 ± or - 0.18 ug/g e) 0.91 ± or - 0.19 ug/g f) 0.65 ± or - 0.11 ug/g Dry wt	a) At 1 ppm 1) At 1 ppm c) At 10 ppm d) At 15 ppm e) At 25 ppm 1) In distilled water (controls) 48 hr exposures Fish length 12 ± or - 2.2 cm Disorientation, erratic swimming, lethargy, trailing of mucus from anus. Development of opaque corrosion in some fishes at 10-25 ppm. Severe damage to proximal tubule cells of kidney at 10-25 ppm. GILLS; BRAIN; HEART; INTENTIONS; KIDNEYS; LIVER; MUSCLES; ALABAMA; TUBERY DISEASES; MENTAL POISONING; HYDROACCUMULATION; WATER POLLUTION; FISHES; CADMIUM	Hawkins, H.S. Tate, L.G. Sarphie, T.G. 1980 Journal of Toxicology and Environmental Health 6:283-295
98 Gills		AA3	a) 4 b) 4 c) 3 d) 5 e) 6 f) 8	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 3.03 ± or - 0.93 ug/g b) 8.56 ± or - 4.30 ug/g c) 4.50 ± or - 1.50 ug/g d) 7.53 ± or - 2.70 ug/g e) 10.57 ± or - 3.68 ug/g f) 1.54 ± or - 0.50 ug/g Dry wt	a) At 1 ppm 1) At 1 ppm c) At 10 ppm d) At 15 ppm e) At 25 ppm 1) In distilled water (controls) 48 hr exposures Fish length 12 ± or - 2.2 cm Disorientation, erratic swimming, lethargy, trailing of mucus from anus. Development of opaque corrosion in some fishes at 10-25 ppm. Severe damage to proximal tubule cells of kidney at 10-25 ppm. GILLS; BRAIN; HEART; INTENTIONS; KIDNEYS; LIVER; MUSCLES; ALABAMA; TUBERY DISEASES; MENTAL POISONING; HYDROACCUMULATION; WATER POLLUTION; FISHES; CADMIUM	Hawkins, H.S. Tate, L.G. Sarphie, T.G. 1980 Journal of Toxicology and Environmental Health 6:283-295
99 Gut		AA3	a) 4 b) 4 c) 3 d) 5 e) 6 f) 8	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 4.11 ± or - 1.70 ug/g b) 8.28 ± or - 1.31 ug/g c) 45.07 ± or - 14.10 ug/g d) 52.20 ± or - 14.30 ug/g e) 20.54 ± or - 2.90 ug/g f) 1.54 ± or - 0.23 ug/g Dry wt	a) At 1 ppm b) At 5 ppm c) At 10 ppm d) At 15 ppm e) At 25 ppm 1) In distilled water (controls) 48 hr exposures Fish length 12 ± or - 2.2 cm Disorientation, erratic swimming, lethargy, trailing of mucus from anus. Development of opaque corrosion in some fishes at 10-25 ppm. Severe damage to proximal tubule cells of kidney at 10-25 ppm. GILLS; BRAIN; HEART; INTENTIONS; KIDNEYS; LIVER; MUSCLES; ALABAMA; TUBERY DISEASES; MENTAL POISONING; HYDROACCUMULATION; WATER POLLUTION; FISHES; CADMIUM	Hawkins, H.S. Tate, L.G. Sarphie, T.G. 1980 Journal of Toxicology and Environmental Health 6:283-295

Codexion
7440-43-9
Cd
pH 112.00, BP 321 C, BP 765 C, VP 1 as Bq at 394 C, 10 as Bq at 406 C
Spot
LIZOSTOMUS XANTHURUS

(CONTINUED)

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	SAMPLE	MEAN	GENERAL INFORMATION	REFERENCE
100 Heart		AAS	a) 4 b) 4 c) 3 d) 5 e) 6 f) 8	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 2.89 ± or - 0.33 ug/g b) 3.64 ± or - 1.16 ug/g c) 17.72 ± or - 6.54 ug/g d) 28.29 ± or - 7.90 ug/g e) 32.34 ± or - 7.89 ug/g f) 3.00 ± or - 0.45 ug/g Dry wt	a) At 1 ppm b) At 5 ppm c) At 10 ppm d) At 15 ppm e) At 25 ppm f) In distilled water (controls) 48 hr exposure Fish length 12 ± or - 2.2 cm Disorientation, erratic swimming, lethargy, trailing of anus from anus. Development of opaque corness in some fishes at 10-25 ppm. Severe damage to proximal tubule cells of kidney at 10-25 ppm. GILLS; SPRAIN; HEART; INTESTINES; KIDNEYS; LIVER; MUSCLES; ALABAMA; RIBBON DISEASES; METAL POISONING; BIOACCUMULATION; WATER POLLUTION; FISHES; CADMIUM	Hawkins, V.E. Tate, L.D. Sarphie, T.G. 1980 Journal of Toxicology and Environmental Health 6:263-295
101 Kidney		AAS	a) 4 b) 4 c) 3 d) 5 e) 6 f) 8	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 3.70 ± or - 0.30 ug/g b) 15.49 ± or - 4.69 ug/g c) 12.35 ± or - 4.65 ug/g d) 23.02 ± or - 6.95 ug/g e) 30.18 ± or - 8.20 ug/g f) 0.70 ± or - 0.14 ug/g Dry wt	a) At 1 ppm b) At 5 ppm c) At 10 ppm d) At 15 ppm e) At 25 ppm f) In distilled water (controls) 48 hr exposure Fish length 12 ± or - 2.2 cm Disorientation, erratic swimming, lethargy, trailing of anus from anus. Development of opaque corness in some fishes at 10-25 ppm. Severe damage to proximal tubule cells of kidney at 10-25 ppm. GILLS; SPRAIN; HEART; INTESTINES; KIDNEYS; LIVER; MUSCLES; ALABAMA; RIBBON DISEASES; METAL POISONING; BIOACCUMULATION; WATER POLLUTION; FISHES; CADMIUM	Hawkins, V.E. Tate, L.D. Sarphie, T.G. 1980 Journal of Toxicology and Environmental Health 6:263-295
102 Liver		AAS	a) 4 b) 4 c) 3 d) 5 e) 6 f) 8	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 8.04 ± or - 2.79 ug/g b) 11.10 ± or - 1.70 ug/g c) 22.72 ± or - 10.70 ug/g d) 30.88 ± or - 9.99 ug/g e) 166.35 ± or - 83.90 ug/g f) 1.25 ± or - 0.38 ug/g Dry wt	a) At 1 ppm b) At 5 ppm c) At 10 ppm d) At 15 ppm e) At 25 ppm f) In distilled water (controls) 48 hr exposure Fish length 12 ± or - 2.2 cm Disorientation, erratic swimming, lethargy, trailing of anus from anus. Development of opaque corness in some fishes at 10-25 ppm. Severe damage to proximal tubule cells of kidney at 10-25 ppm. GILLS; SPRAIN; HEART; INTESTINES; KIDNEYS; LIVER; MUSCLES; ALABAMA; RIBBON DISEASES; METAL POISONING; BIOACCUMULATION; WATER POLLUTION; FISHES; CADMIUM	Hawkins, V.E. Tate, L.D. Sarphie, T.G. 1980 Journal of Toxicology and Environmental Health 6:263-295

(NEXT PAGE)

Codman
7440-83-9
CD
At 112.40, BP 321 C, BP 765 C, VP 1 at Hg at 394 C, 10 at Hg at 486 C
Spot
LEIOTOMUS XANTHURUS

(CONTINUED)

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	DOSE	MEAN	GENERAL INFORMATION	REFERENCE
103 Muscle		AAS	a) 4 b) 4 c) 3 d) 5 e) 6 f) -	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 2.84 ± or - 1.91 ug/g b) 2.43 ± or - 0.45 ug/g c) 0.64 ± or - 0.04 ug/g d) 1.00 ± or - 0.44 ug/g e) 0.75 ± or - 0.43 ug/g f) 0.77 ± or - 0.22 ug/g Dry wt	a) At 1 ppm b) At 5 ppm c) At 10 ppm d) At 15 ppm e) At 25 ppm f) In distilled water (controls) 48 hr exposure Fish length 12 ± or - 2 cm Incoordination, erratic swimming, lethargy, trailing of anus from anus. Development of opaque corneas in some fishes at 10-25 ppm. Severe damage to proximal tubule cells of kidney at 10-25 ppm. GILLS; BRAIN; LIVER; TESTES; KIDNEYS; LIVER; MUSCLE; ALA- BUMIN; BILIRUBIN; METAL ACCUMULATION; WATER POLLUTION; FISHES; CADMIUM	Hawkins, W.E. Tate, L.G. Searles, T.O. 1980 Journal of Toxicology and Environmental Health 6:283-295

Codman
7440-83-9
CD
At 112.40, BP 321 C, BP 765 C, VP 1 at Hg at 394 C, 10 at Hg at 486 C
Swine
385 sp.

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	DOSE	MEAN	GENERAL INFORMATION	REFERENCE
104 Adrenal gland	Injection	AAS	3	13.0-20.8 ug/g wet wt	17.25 ug/g wet wt	Castrated pigs 0.2 mg CdCl ₂ /kg body wt, in 5L/wk for 12 wk. Initial wt 21.0 kg, estimated wt after 12 wk 86.9 kg. FISH; SALIVARY GLAND; ADRENAL GLANDS; GILL; BRAIN; HEART; TESTES; KIDNEYS; LIVER; LUNG; MUSCLE; PANCREAS; PITUITARY GLAND; SPLEEN; STOMACH; THYROID GLAND; CANADA; AUTOPSIES; CADMIUM; BIOACCUMULATION	Uthe, J.F. Proctor, B.G. Chen, C.L. 1979 Journal of Environmental Science and Health A14(2):111-115
105 Spleen	Injection	AAS	3	0.02-0.12 ug/g wet wt	0.06 ug/g wet wt	Castrated pigs 0.2 mg CdCl ₂ /kg body wt, in 5L/wk for 12 wk. Initial wt 21.0 kg, estimated wt after 12 wk 86.9 kg. FISH; SALIVARY GLAND; ADRENAL GLANDS; GILL; BRAIN; HEART; TESTES; KIDNEYS; LIVER; LUNG; MUSCLE; PANCREAS; PITUITARY GLAND; SPLEEN; STOMACH; THYROID GLAND; CANADA; AUTOPSIES; CADMIUM; BIOACCUMULATION	Uthe, J.F. Proctor, B.G. Chen, C.L. 1979 Journal of Environmental Science and Health A14(2):111-115
106 Brain	Injection	AAS	3	0.01-0.39 ug/g wet wt	0.24 ug/g wet wt	Castrated pigs 0.2 mg CdCl ₂ /kg body wt, in 5L/wk for 12 wk. Initial wt 21.0 kg, estimated wt after 12 wk 86.9 kg. FISH; SALIVARY GLAND; ADRENAL GLANDS; GILL; BRAIN; HEART; TESTES; KIDNEYS; LIVER; LUNG; MUSCLE; PANCREAS; PITUITARY GLAND; SPLEEN; STOMACH; THYROID GLAND; CANADA; AUTOPSIES; CADMIUM; BIOACCUMULATION	Uthe, J.F. Proctor, B.G. Chen, C.L. 1979 Journal of Environmental Science and Health A14(2):111-115

(END PAGE)

Codex
7000-03-9
C4
AQ 112.00, BP 321 C, BP 765 C, VP 1 00 kg at 300 C, 10 00 kg at 400 C
Solos
503 op.

(CONTINUED)

ISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	ORIGINAL INFORMATION	REFERENCE
107 Heart	Injection	AAS	3	1.50-34.57 ug/g wet wt	2.50 ug/g wet wt	Concentrated pig 0.2 mg CdCl ₂ /kg body wt, IN 52/wh for 12 wh. Initial wt 21.0 kg, estimated wt after 12 wh 86.9 kg. TIS; SALIVARY GLAND; ADRENAL GLANDS; TIS; SPAIN; HEART; INTESTINES; KIDNEY; LIVER; LUNG; MUSCLE; PANCREAS; PITUITARY GLAND; SPLEEN; STOMACH; THYROID GLAND; CANADA; AUTOPSY; CADMIUM; BIOACCUMULATION	5, J.P. Proctor, B.G. Chow, C.L. 1979 Journal of Environmental Science and Health A14(2):111-115
108 Intestine	Injection	AAS	3	a) 0.02-1.0 ug/g b) 3.56-4.56 ug/g c) 0.06-4.87 ug/g d) 0.23-5.57 ug/g e) 3.03-4.70 ug/g f) 1.09-3.16 ug/g wet wt	a) 0.13 ug/g b) 3.90 ug/g c) 4.75 ug/g d) 5.70 ug/g e) 4.21 ug/g f) 2.71 ug/g wet wt	a) Duodenum b) Colon c) Ileum d) Jejunum e) Cecum f) Cecum Concentrated pig 0.2 mg CdCl ₂ /kg, IN body wt 52/wh for 12 wh. Initial wt 21.0 kg, estimated wt after 12 wh 86.9 kg. TIS; SALIVARY GLAND; ADRENAL GLANDS; TIS; SPAIN; HEART; INTESTINES; KIDNEY; LIVER; LUNG; MUSCLE; PANCREAS; PITUITARY GLAND; SPLEEN; STOMACH; THYROID GLAND; CANADA; AUTOPSY; CADMIUM; BIOACCUMULATION	Utho, J.P. Proctor, B.G. Chow, C.L. 1979 Journal of Environmental Science and Health A14(2):111-115
109 Kidney	Injection	AAS	3	122-270 ug/g wet wt	171 ug/g wet wt	Concentrated pig 0.2 mg CdCl ₂ /kg body wt, IN 52/wh for 12 wh. Initial wt 21.0 kg, estimated wt after 12 wh 86.9 kg. TIS; SALIVARY GLAND; ADRENAL GLANDS; TIS; SPAIN; HEART; INTESTINES; KIDNEY; LIVER; LUNG; MUSCLE; PANCREAS; PITUITARY GLAND; SPLEEN; STOMACH; THYROID GLAND; CANADA; AUTOPSY; CADMIUM; BIOACCUMULATION	Utho, J.P. Proctor, B.G. Chow, C.L. 1979 Journal of Environmental Science and Health A14(2):111-115
110 Liver	Injection	AAS	3	204-228 ug/g wet wt	216 ug/g wet wt	Concentrated pig 0.2 mg CdCl ₂ /kg body wt, IN 52/wh for 12 wh. Initial wt 21.0 kg, estimated wt after 12 wh 86.9 kg. TIS; SALIVARY GLAND; ADRENAL GLANDS; TIS; SPAIN; HEART; INTESTINES; KIDNEY; LIVER; LUNG; MUSCLE; PANCREAS; PITUITARY GLAND; SPLEEN; STOMACH; THYROID GLAND; CANADA; AUTOPSY; CADMIUM; BIOACCUMULATION	Utho, J.P. Proctor, B.G. Chow, C.L. 1979 Journal of Environmental Science and Health A14(2):111-115
111 Lung	Injection	AAS	3	0.90-10.60 ug/g wet wt	11.11 ug/g wet wt	Concentrated pig 0.2 mg CdCl ₂ /kg body wt, IN 52/wh for 12 wh. Initial wt 21.0 kg, estimated wt after 12 wh 86.9 kg. TIS; SALIVARY GLAND; ADRENAL GLANDS; TIS; SPAIN; HEART; INTESTINES; KIDNEY; LIVER; LUNG; MUSCLE; PANCREAS; PITUITARY GLAND; SPLEEN; STOMACH; THYROID GLAND; CANADA; AUTOPSY; CADMIUM; BIOACCUMULATION	Utho, J.P. Proctor, B.G. Chow, C.L. 1979 Journal of Environmental Science and Health A14(2):111-115

(CONT. PAGE)

Codexion
7400-41-9
Cd
At 112.40, BP 321 C, BP 765 C, VP 1 mg Hg at 394 C, 10 mg Hg at 486 C
Sulphur
503 sp.

(CONTINUED)

TESTS	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CLASSES	RESULTS	REMARKS	ORIGINAL INFORMATION	REFERENCE
112 Muscle	Injection	AAS	3	a) 0.65-1.59 ug/g b) 0.43-2.44 ug/g Wet wt	a) 1.08 ug/g b) 1.45 ug/g Wet wt	a) Skeletal muscle b) Skeletal muscle, injection site Castrated pigs 0.2 mg CdCl ₂ /kg body wt, 18 hr for 12 wk. Initial wt 21.0 kg, estimated wt after 12 wk 86.9 kg. TIS; SALIVARY GLAND; ADRENAL GLANDS; TIE; BRAIN; HEART; INTESTINES; KIDNEYS; LIVER; LUNGS; MUSCLES; PANCREAS; PITUITARY GLAND; SPLEEN; STOMACH; THYROID GLANDS; CANADA; AUTOPSIES; CADAVER; BIOACCUMULATION	Uthe, J.P. Proctor, B.G. Chen, C.L. 1979 Journal of Environmental Science and Health A14(2):111-115
113 Pancreas	Injection	AAS	3	76.7-89.9 ug/g wet wt	82.7 ug/g wet wt	Castrated pigs 0.2 mg CdCl ₂ /kg body wt, 18 hr for 12 wk. Initial wt 21.0 kg, estimated wt after 12 wk 86.9 kg. TIS; SALIVARY GLAND; ADRENAL GLANDS; TIE; BRAIN; HEART; INTESTINES; KIDNEYS; LIVER; LUNGS; MUSCLES; PANCREAS; PITUITARY GLAND; SPLEEN; STOMACH; THYROID GLANDS; CANADA; AUTOPSIES; CADAVER; BIOACCUMULATION	Uthe, J.P. Proctor, B.G. Chen, C.L. 1979 Journal of Environmental Science and Health A14(2):111-115
114 Pituitary	Injection	AAS	3	7.7-10.9 ug/g wet wt	8.8 ug/g wet wt	Castrated pigs 0.2 mg CdCl ₂ /kg body wt, 18 hr for 12 wk. Initial wt 21.0 kg, estimated wt after 12 wk 86.9 kg. TIS; SALIVARY GLAND; ADRENAL GLANDS; TIE; BRAIN; HEART; INTESTINES; KIDNEYS; LIVER; LUNGS; MUSCLES; PANCREAS; PITUITARY GLAND; SPLEEN; STOMACH; THYROID GLANDS; CANADA; AUTOPSIES; CADAVER; BIOACCUMULATION	Uthe, J.P. Proctor, B.G. Chen, C.L. 1979 Journal of Environmental Science and Health A14(2):111-115
115 Salivary gland	Injection	AAS	3	10.82-15.8 ug/g wet wt	13.61 ug/g wet wt	Castrated pigs 0.2 mg CdCl ₂ /kg body wt, 18 hr for 12 wk. Initial wt 21.0 kg, estimated wt after 12 wk 86.9 kg. TIS; SALIVARY GLAND; ADRENAL GLANDS; TIE; BRAIN; HEART; INTESTINES; KIDNEYS; LIVER; LUNGS; MUSCLES; PANCREAS; PITUITARY GLAND; SPLEEN; STOMACH; THYROID GLANDS; CANADA; AUTOPSIES; CADAVER; BIOACCUMULATION	Uthe, J.P. Proctor, B.G. Chen, C.L. 1979 Journal of Environmental Science and Health A14(2):111-115
116 Spleen	Injection	AAS	3	16.48-20.7 ug/g wet wt	18.11 wet wt	Castrated pigs 0.2 mg CdCl ₂ /kg body wt, 18 hr for 12 wk. Initial wt 21.0 kg, estimated wt after 12 wk 86.9 kg. TIS; SALIVARY GLAND; ADRENAL GLANDS; TIE; BRAIN; HEART; INTESTINES; KIDNEYS; LIVER; LUNGS; MUSCLES; PANCREAS; PITUITARY GLAND; SPLEEN; STOMACH; THYROID GLANDS; CANADA; AUTOPSIES; CADAVER; BIOACCUMULATION	Uthe, J.P. Proctor, B.G. Chen, C.L. 1979 Journal of Environmental Science and Health A14(2):111-115

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Cadmium
7440-43-9

Ca
At 112.00, BP 321 C, BP 765 C, VP 1 mg Hg at 394 C, 10 mg Hg at 466 C
Sulfur
SUS mp.

(CONTINUED)

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
117 Stomach	Injection	AAS	3	7.04-10.18 ug/g wet wt	8.31 ug/g wet wt	Constrated pigs 0.2 mg CdCl ₂ /kg body wt, IN 5L/wh for 12 wk. Initial wt 21.0 kg, estimated wt after 12 wk 86.9 kg. TIS: SALIVARY GLAND; ADRENAL GLANDS; TIS: BRAIN; HEART; INTESTINES; TIS: LIVER; LUNGS; MUSCLES; TIS: PANCREAS; PITUITARY GLAND; SPLEEN; TIS: STOMACH; THYROID GLAND; CANADA; TIS: AUTOPHAG; CADMIUM; BIOACCUMULATION	Utho, J.F. Proctor, B.G. Chen, C.L. 1979 Journal of Environmental Science and Health A16(2):111-115
118 Thyroid gland	Injection	AAS	3	1.10-6.31 ug/g wet wt	4.10 ug/g wet wt	Constrated pigs 0.2 mg CdCl ₂ /kg body wt, IN 5L/wh for 12 wk. Initial wt 21.0 kg, estimated wt after 12 wk 86.9 kg. TIS: SALIVARY GLAND; ADRENAL GLANDS; TIS: BRAIN; HEART; INTESTINES; TIS: LIVER; LUNGS; MUSCLES; TIS: PANCREAS; PITUITARY GLAND; SPLEEN; TIS: STOMACH; THYROID GLAND; CANADA; TIS: AUTOPHAG; CADMIUM; BIOACCUMULATION	Utho, J.F. Proctor, B.G. Chen, C.L. 1979 Journal of Environmental Science and Health A16(2):111-115

Cesium, isotope of mass 137
10043-97-3

Ca
At 137, BP 20.5 C, BP 705 C, VP 1 mg Hg at 279 C, 10 mg Hg at 373 C
Squirrel, grey
SCIURUS CAROLINENSIS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
119 Suncle		Radioactivity	a) 11 b) 17 c) 18 d) 18 e) 18 f) 6 g) 4 h) 20 i) 18 j) 8	a) 480-4,700 pCi/kg b) 250-29,000 pCi/kg c) 590-20,000 pCi/kg d) 300-20,000 pCi/kg e) 250-7,400 pCi/kg f) 4,200-29,000 pCi/kg g) 1,200-1,900 pCi/kg h) 590-20,000 pCi/kg i) 250-29,000 pCi/kg j) 780-12,000 pCi/kg Vet wt	a) 2,200 ± or - 400 pCi/kg b) 5,000 ± or - 1,700 pCi/kg c) 4,400 ± or - 1,300 pCi/kg d) 4,200 ± or - 1,300 pCi/kg e) 3,500 ± or - 500 pCi/kg f) 11,000 ± or - 4,000 pCi/kg g) 2,900 ± or - 1,100 pCi/kg h) 4,200 ± or - 1,200 pCi/kg i) 4,700 ± or - 1,600 pCi/kg j) 3,500 ± or - 1,300 pCi/kg Vet wt	a) low income stratus b) middle income stratus c) high income stratus d) Residential area e) Park f) School g) Cemetery h) Age 1 yr i) Age 2 yr j) Age 2 yr or older Animals captured from 36 urban sites in 1974 Significantly lower values in low-income areas, parks, cemeteries than in school areas. Florida, Jacksonville SCURIBS; BIOACCUMULATION; RADIOISOTOPES; URBAN AREAS; CESIUM; MUSCLES; HAIR; MUSCLES; FLORIDA; AGE	Jenkins, J.H. Davis, L.H. Bijler, V.J. Hoff, G.L. 1980 Bulletin of Environmental Contamination and Toxicology 25:321-324

Chromia
7400-80-3

Cc
At 51.996, BP 1900 C, BP 2602 C, VP 1 on Hg at 1616 C, 10 on Hg at 1840 C
Cattle
RCS app.

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	ORIGINAL INFORMATION	REFERENCE
120 Kidney		AAS	190	Not detected-0.22 ppm wet wt	0.03 ± or - 0.04 ppm wet wt	Samples from 8 widely separated regions. Significant differences between regions and within the same region. Australia, New South Wales CATTLE; ARSENIC; CADMIUM; CHROMIUM; COBALT; COPPER; IRON; MANGANESE; MERCURY; MOLYBDENUM; NICKEL; SILICON; ZINC; AUSTRALIA; KIDNEYS; LIVER	Planjak, J. Lee, H.T. 1979 Journal of the Science of Food and Agriculture 30:503-507
121 Liver		AAS	190	< 0.02-1.0 ppm wet wt	0.05 ± or - 0.12 ppm wet wt	Samples from 8 widely separated regions. Significant differences between regions and within the same region. Australia, New South Wales CATTLE; ARSENIC; CADMIUM; CHROMIUM; COBALT; COPPER; IRON; MANGANESE; MERCURY; MOLYBDENUM; NICKEL; SILICON; ZINC; AUSTRALIA; KIDNEYS; LIVER	Planjak, J. Lee, H.T. 1979 Journal of the Science of Food and Agriculture 30:503-507

Cobalt
7400-80-4

Cc
At 58.532, BP 1893 C, BP 3400 C, VP 1 on Hg at 1910 C
Cattle
RCS app.

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	ORIGINAL INFORMATION	REFERENCE
122 Kidney		AAS	190	Not detected-0.25 ppm wet wt	0.03 ± or - 0.03 ppm wet wt	Samples from 8 widely separated regions. Significant differences between regions and within the same region. Australia, New South Wales CATTLE; ARSENIC; CADMIUM; CHROMIUM; COBALT; COPPER; IRON; MANGANESE; MERCURY; MOLYBDENUM; NICKEL; SILICON; ZINC; AUSTRALIA; KIDNEYS; LIVER	Planjak, J. Lee, H.T. 1979 Journal of the Science of Food and Agriculture 30:503-507
123 Liver		AAS	190	< 0.03-0.45 ppm wet wt	0.07 ± or - 0.05 ppm wet wt	Samples from 8 widely separated regions. Significant differences between regions and within the same region. Australia, New South Wales CATTLE; ARSENIC; CADMIUM; CHROMIUM; COBALT; COPPER; IRON; MANGANESE; MERCURY; MOLYBDENUM; NICKEL; SILICON; ZINC; AUSTRALIA; KIDNEYS; LIVER	Planjak, J. Lee, H.T. 1979 Journal of the Science of Food and Agriculture 30:503-507

Copper
7040-50-8
Cu
At 63.546, BP 1083 C, BP 2595 C, VP 1 mm Hg at 1620 C, 10 mm Hg at 1870 C
Antelope, pronghorn
ANTilocapra americana

ISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
124 Kidney		AAS	21	Not given	13.3 ± or - 2.8 ug/g dry wt	Ages < 10-85 mo, assumed healthy. Vegetation analysis indicates prairie area free from gross pollution. Montana, Northern Great Plains LIVER; ANTELOPE; MONTANA; KIDNEY; LIVER; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MANGANESE; METALS; POLYBROMINE; SICKLE; ZINC	Reunhofer, F.F. Hansen, D.B. 1979 Bulletin of Environmental Contamination and Toxicology 22:827-832
125 Liver		AAS	20	Not given	26.9 ± or - 12.8 ug/g dry wt	Ages < 10-85 mo, assumed healthy. Vegetation analysis indicates prairie area free from gross pollution. Montana, Northern Great Plains LIVER; ANTELOPE; MONTANA; KIDNEY; LIVER; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MANGANESE; METALS; POLYBROMINE; SICKLE; ZINC	Reunhofer, F.F. Hansen, D.B. 1979 Bulletin of Environmental Contamination and Toxicology 22:827-832

Copper
7040-50-8
Cu
At 63.546, BP 1083 C, BP 2595 C, VP 1 mm Hg at 1620 C, 10 mm Hg at 1870 C
Bluegill
Lepomis macrochirus

ISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
126 Body, whole		AAS	61	Not given	16.5 ug/g	Fishes, mean length 95 mm, mean dry wt 16.40 g, collected downstream of flood control weir at Algonquin. No major industrial effluents, metal input mainly from sewage treatment plants and recreational boating. Illinois, Fox River ILLINOIS; BODY; BIOACCUMULATION; FISHES; WATER POLLUTION; CADMIUM; COPPER; LEAD; METALS; ZINC	Vielhour, V.S. Goldstein, B.H. Anderson, B.V. 1980 Bulletin of Environmental Contamination and Toxicology 24:727-734

CCPPE
7440-50-8

Cu
At 62.546, BP 1043 C, BP 2595 C, VP 1 an Hg at 1628 C, 10 an Hg at 1870 C
Tollwood, black
ICTALURUS NEIAS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	SAMPLE	RESULTS	ORIGINAL INFORMATION	REFERENCE
127 Body, whole		AAS	10	Not given	15.8 ug/g	Fishes, mean length 172 mm, mean dry wt 41.59 g, collected downstream of flood control weir at Altonquin. No major industrial effluents, metal input mainly from sewage treatment plants and recreational boating. Illinois, Fox River ILLINOIS; BODY; BIOACCUMULATION; FISHES; WATER POLLUTION; CADMIUM; CCPPE; LEAD; METALS; ZINC	Vinikour, U.S. Goldstein, E.H. Anderson, E.V. 1980 Bulletin of Environmental Contamination and Toxicology 24:727-734

CCPPE
7440-50-8

Cu
At 62.546, BP 1043 C, BP 2595 C, VP 1 an Hg at 1628 C, 10 an Hg at 1870 C
Catfish, channel
ICTALURUS PUNCTATUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	SAMPLE	RESULTS	ORIGINAL INFORMATION	REFERENCE
128 Blood, cells	Ingestion		9	a) Not given b) Not given	a) 0.37 ± or - 0.04 ug/g b) 0.41 ± or - 0.09 ug/g Dry wt	a) Unsupplemented diet b) Diet with 32 ug supplemental Cu/kg for 16 wk Erythrocytes Initial mean wt 14.5 ± or - 1.4 g Finished growth and food conversion, reduced hematocrit levels and erythrocyte counts, slight anemia. GIBBERIA; BLOOD PLASMA; ERYTHROCYTES; LIVER; MUSCLE; BIOACCUMULATION; FISHES; FISHES	Hurai, T. Andrews, J.V. Smith, E.G., Jr. 1981 Aquaculture 22:353-357
129 Blood, plasma	Ingestion		9	a) Not given b) Not given	a) 0.50 ± or - 0.17 ug/ml b) 0.62 ± or - 0.23 ug/ml	a) Unsupplemented diet b) Diet with 32 ug supplemental Cu/kg for 16 wk Initial mean wt 14.5 ± or - 1.4 g Finished growth and food conversion, reduced hematocrit levels and erythrocyte counts, slight anemia. GIBBERIA; BLOOD PLASMA; ERYTHROCYTES; LIVER; MUSCLE; BIOACCUMULATION; FISHES; FISHES	Hurai, T. Andrews, J.V. Smith, E.G., Jr. 1981 Aquaculture 22:353-357
130 Liver	Ingestion		9	a) Not given b) Not given	a) 5.0 ± or - 1.0 ug/g b) 6.2 ± or - 1.2 ug/g Dry wt	a) Unsupplemented diet b) Diet with 32 ug supplemental Cu/kg for 16 wk Initial mean wt 14.5 ± or - 1.4 g Finished growth and food conversion, reduced hematocrit levels and erythrocyte counts, slight anemia. GIBBERIA; BLOOD PLASMA; ERYTHROCYTES; LIVER; MUSCLE; BIOACCUMULATION; FISHES; FISHES	Hurai, T. Andrews, J.V. Smith, E.G., Jr. 1981 Aquaculture 22:353-357

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(continued)

ISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	SUBSTRATE OR CLASS	RANGE	UNIT	TESTING INFORMATION	REFERENCE
131 Herdle	Ingestion		9	a) Not given b) Not given	a) 1.8 + or - 0.2 g/g b) 1.5 + or - 0.2 g/g dry wt	a) Unsupplemented diet b) Diet with 32 mg supplemental Cu/kg for 16 wk Initial mean at 10.5 + or - 1.0 g Unchanged growth and feed conversion, reduced hemoglobin levels and erythrocyte counts, slight anemia. SPONTANEOUS BLEED DISORDER; ERYTHROCYTOSIS; LIVER DYSPLASIA; HEMOCULLENATION; LIVER PNEUMONIA	Herdle, T. Address, J.H. Smith, R.O., Jr. 1981 Aquaculture 23:333-357

304655
7004-50-0

1000 C. BP 2395 C. VP 1 ON HQ AT 1620 C. 10 ON HQ AT 1870 C
 CATTLE
 MCS MA.

TESTS	DIETARY ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	DIET	MEAN	LABORATORY INFORMATION	REFERENCE
132 Blood	Ingestion	AAS	20	a) 0.160-0.920 ppm b) 0.708-1.272 ppm c) 0.155-0.460 ppm d) 0.618-1.316 ppm	a) 0.605 ppm b) 1.021 ppm c) 0.301 ppm d) 0.991 ppm	1) Pastures fertilized with treated fertilizer, post-test 2) Pastures fertilized with treated fertilizer, post-test 3) Control's, post-test 4) Control's, post-test 5) Grazing - on plots treated with fertilizer (100 lb N/acre) or commercial fertilizer (100 lb N/acre). Applied 5/79 and 7/79 6) Grazing - on plots treated with fertilizer, post-test at 237 lb, mean post-test at 165 lb. No pathological changes CASTLE; RADIUM; RADIUM 226; THORIUM 230; AMERIC; CARBON; COPPER; LEAD; POLYBROMINE; NICKEL; THALLIUM; ZINC; BIOACCUMULATION; CHLORINE; BLOOD; BLOOD SERUM; BILIRUBIN; LIVER; MUSCLES	Edwards, R.C. Mealy, A.L. 1980 Veterinary and Human Toxicology 22(5):308-311
133 Bone	Ingestion	AAS	a) 3 b) 3	a) Not given b) Not given	a) 0.37 ± or - 0.6 ppm b) 1.48 ± or - 1.16 ppm dry wt	1) Control diet 2) Diet of 12% high cd sewage sludge, 100 days 3) Diet of 12% high cd sewage sludge, 100 days 4) Diet of 12% high cd sewage sludge, 100 days 5) Diet of 12% high cd sewage sludge, 100 days 6) Diet of 12% high cd sewage sludge, 100 days 7) Diet of 12% high cd sewage sludge, 100 days 8) Diet of 12% high cd sewage sludge, 100 days 9) Diet of 12% high cd sewage sludge, 100 days 10) Diet of 12% high cd sewage sludge, 100 days 11) Diet of 12% high cd sewage sludge, 100 days 12) Diet of 12% high cd sewage sludge, 100 days 13) Diet of 12% high cd sewage sludge, 100 days 14) Diet of 12% high cd sewage sludge, 100 days 15) Diet of 12% high cd sewage sludge, 100 days 16) Diet of 12% high cd sewage sludge, 100 days 17) Diet of 12% high cd sewage sludge, 100 days 18) Diet of 12% high cd sewage sludge, 100 days 19) Diet of 12% high cd sewage sludge, 100 days 20) Diet of 12% 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(UNIT 8)

CCPDOC
7040-30-0
C
RTO 63.546, BP 7043 C, BP 2595 C, BP 1 on Rg at 1620 C, 10 on Rg at 1670 C
Cattle
BC3 sp.

(CONTINUED)

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	SALES	MEAN	GENERAL INFORMATION	REFERENCE
135 Kidney		AAS	190	1.00-9.2 ppm wet wt	3.90 ± or - 0.90 ppm wet wt	<p>Sample from 8 widely separated regions. Significant differences between regions and within the same region.</p> <p>Australia, New South Wales</p> <p>CATTLE; ARSENIC; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; MANGANESE; MERCURY; MOLYBDENUM; NICKEL; SILICON; ZINC; AUSTRALIA; KIDNEYS; LIVER</p>	Plantak, J. Lee, N.Y. 1979 Journal of the Science of Food and Agriculture 30:503-507
136 Kidney	Ingestion	AAS	a) 6 b) 6	a) Not given b) Not given	a) 23 ± or - 0.5 ppm b) 21 ± or - 0.04 ppm Dry wt	<p>a) Control diet b) Diet of 12% high Cd sewage sludge, 106 days Boreford yearlings, mean wt 336 kg. Slaughtered at 460 kg mean live wt.</p> <p>CATTLE; SLUDGES; COLORADO; BONES; IRON; KIDNEYS; LIVER; LUNGS; MUSCLES; SPLEEN; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MERCURY</p>	Johnson, D.S. Kienholz, E.V. Baxter, J.C. Spangler, N. Ward, G.H. 1981 Journal of Animal Science 52(1):100-114
137 Kidney	Ingestion	AAS	a) 4 b) 4	a) Not given b) Not given	a) 9.52 ppm b) 5.14 ppm Wet wt	<p>a) Pastures fertilized with treated effluents b) Controls Grazing 6 he on plots treated with effluents (100 lb N/acre) or commercial fertilizer (100 lb N/acre). Applied 5/79 and 7/79 Black, white-faced calves, mean pre-test wt 337 lb, mean post-test wt 465 lb.</p> <p>No pathological changes</p> <p>CATTLE; RAPPINATE; RADION 224; THORIUM 230; ARSENIC; CADMIUM; COPPER; LEAD; MOLYBDENUM; NICKEL; URANIUM; ZINC; BIOACCUMULATION; CHROMIUM; SILICON; BLOOD SERUM; KIDNEYS; LIVER; MUSCLES</p>	Edwards, V.C. Doolley, A.L. 1980 Veterinary and Human Toxicology 22(5):309-311
138 Liver		AAS	190	0.01-82.0 ppm wet wt	15.0 ± or - 15.6 ppm wet wt	<p>Sample from 8 widely separated regions. Significant differences between regions and within the same region.</p> <p>Australia, New South Wales</p> <p>CATTLE; ARSENIC; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; MANGANESE; MERCURY; MOLYBDENUM; NICKEL; SILICON; ZINC; AUSTRALIA; KIDNEYS; LIVER</p>	Plantak, J. Lee, N.Y. 1979 Journal of the Science of Food and Agriculture 30:503-507
139 Liver	Ingestion	AAS	a) 6 b) 6	a) Not given b) Not given	a) 12.7 ± or - 27 ppm b) 11 ± or - 32 ppm Dry wt	<p>a) Control diet b) Diet of 12% high Cd sewage sludge, 106 days Boreford yearlings, mean wt 336 kg. Slaughtered at 460 kg mean live wt.</p> <p>CATTLE; SLUDGES; COLORADO; BONES; IRON; KIDNEYS; LIVER; LUNGS; MUSCLES; SPLEEN; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MERCURY</p>	Johnson, D.S. Kienholz, E.V. Baxter, J.C. Spangler, N. Ward, G.H. 1981 Journal of Animal Science 52(1):100-114

(NEXT PAGE)

Copper
7440-50-8
Cu
Ats 43.544, BP 1063 C, BP 2395 C, VP 1 aa Bq at 1628 C, 10 aa Bq at 1670 C
Cattle
EC3 sp.

(CONTINUED)

715302	21203622 20721	ANALYTICAL METHOD	NUMBER OF CASES	DIAGNOSIS	RESULTS	GENERAL INFORMATION	REFERENCE
140 Liver	Ingestion	AAS	a) 4 b) 4	a) Not given b) Not given	a) 27.17 ppm b) 35.35 ppm Net wt	a) Pastures fertilized with treated raffinate b) Controls Dressing 6 we on plots treated with raffinate (100 lb N/acre) or commercial fertilizer (100 lb N/acre). Applied 5/79 and 7/79 Black, white-faced calves, mean pre-test wt 317 lb, mean post-test wt 465 lb. No pathological changes CATTLE: RAFFINATE; RADIUM 224; THORIUM 230; ARSENIC; CADMIUM; COPIER; LEAD; MOLYBDENUM; NICKEL; SILICON; SINC; BIOACCUMULATION; CHLORINE; BLOOD; BLOOD SERUM; KIDNEY; LIVER; MUSCLE	Edwards, W.C. Dooley, A.L. 1980 Veterinary and Human Toxicology 22(5):309-311
141 Lung	Ingestion	AAS	a) 3 b) 3	a) Not , ven b) Not given	a) 7.1 ± or - 0.2 ppm b) 7.1 ± or - 0.4 ppm Dry wt	a) Control diet b) Diet of 12% high Cd sewage sludge, 104 days Hereford yearlings, mean wt 336 kg, slaughtered at 460 kg mean live wt. CATTLE: SLUDGE; COLCHADO; BONES; BLOOD; KIDNEY; LIVER; LUNG; MUSCLE; SPLEEN; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MERCURY	Johnson, D.E. Kienholz, E.V. Baxter, J.C. Spangler, E. Ward, G.H. 1981 Journal of Animal Science 52(1):108-114
142 Spleen	Ingestion	AAS	a) 3 b) 3	a) Not given b) Not given	a) 3.6 ± or - 0.43 ppm b) 3.2 ± or - 0.18 ppm Dry wt	a) Control diet b) Diet of 12% high Cd sewage sludge, 104 days Hereford yearlings, mean wt 336 kg, slaughtered at 460 kg mean live wt. CATTLE: SLUDGE; COLCHADO; BONES; BLOOD; KIDNEY; LIVER; LUNG; MUSCLE; SPLEEN; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MERCURY	Johnson, D.E. Kienholz, E.V. Baxter, J.C. Spangler, E. Ward, G.H. 1981 Journal of Animal Science 52(1):108-114
143 Spleen	Ingestion	AAS	a) 4 b) 4	a) Not given b) Not given	a) 5.07 ppm b) 3.62 ppm Net wt	a) Pastures fertilized with treated raffinate b) Controls Dressing 6 we on plots treated with raffinate (100 lb N/acre) or commercial fertilizer (100 lb N/acre). Applied 5/79 and 7/79 Black, white-faced calves, mean pre-test wt 337 lb, mean post-test wt 465 lb. No pathological changes CATTLE: RAFFINATE; RADIUM 224; THORIUM 230; ARSENIC; CADMIUM; COPIER; LEAD; MOLYBDENUM; NICKEL; SILICON; SINC; BIOACCUMULATION; CHLORINE; BLOOD; BLOOD SERUM; KIDNEY; LIVER; MUSCLE	Edwards, W.C. Dooley, A.L. 1980 Veterinary and Human Toxicology 22(5):309-311

(NEXT PAGE)

Copper
7440-50-8
Cu
At 63.546, BP 1083 C, BP 2595 C, VP 1 mg Hg at 1628 C, 10 mg Hg at 1870 C
Cattle
PCS sp.

(CONTINUED)

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
144 Spleen	Ingestion	AAS	a) 3 b) 3	a) Not given b) Not given	a) 4.4 ± or - 0.14 ppb b) 4.6 ± or - 0.20 ppb Dry wt	a) Control diet b) Diet of 12% high Cd sewage sludge, 106 days Hereford yearlings, mean wt 336 kg. Slaughtered at 460 kg mean live wt. CATTLE; SLUDGES; COLORADO; POWERS; BRAIN; KIDNEYS; LIVER; LUNGS; MUSCLES; SPLEEN; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MERCURY	Johnson, D.E. Rienholt, E.G. Baxter, J.C. Spangler, E. Vard, G.H. 1981 Journal of Animal Science 52(1):108-114

Copper
7440-50-8
Cu
At 63.546, BP 1083 C, BP 2595 C, VP 1 mg Hg at 1628 C, 10 mg Hg at 1870 C
Clam, surf
S. SULA SOLIDISSIMA

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
145 Body, whole			a) 10 b) 10 c) 10 d) 10 e) 10 f) 10 g) 10 h) 10 i) 10	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given	a) 1.8 ± or - 0.43 ppb b) 2.7 ± or - 1.18 ppb c) 3.2 ± or - 0.71 ppb d) 2.9 ± or - 1.17 ppb e) 3.8 ± or - 0.94 ppb f) 6.9 ± or - 2.38 ppb g) 1.1 ± or - 0.28 ppb h) 0.7 ± or - 0.32 ppb i) 1.1 ± or - 0.34 ppb	a) 15 d, 10 ppb b) 25 d, 10 ppb c) 43 d, 10 ppb d) 15 d, 20 ppb e) 25 d, 20 ppb f) 43 d, 20 ppb g) Controls, 15 d h) Controls, 25 d i) Controls, 43 d Cu-seawater solutions, a)-f) Controls, in seawater Shells removed before analysis MUSCLES; CADMIUM; COPPER; SILVER; TRACE ELEMENTS; BIOACCUMULATION; ECOT; COMPARATIVE EVALUATIONS; CONNECTICUT	Graig, E.J. 1979 Bulletin of Environmental Contamination and Toxicology 23:1-14

Copper
7440-50-8
Cu
At 63.546, BP 1083 C, BP 2595 C, VP 1 mg Hg at 1628 C, 10 mg Hg at 1870 C
Crappie, black
POMOXIS NIGROMACULATUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
146 Body, whole		AAS	26	Not given	27.5 ug/g	Fishes, mean length 109 mm, mean dry wt 18.89 g, collected downstream of flood control weir at Alton, Ill. No major industrial effluents, metal input mainly from sewage treatment plants and recreational boating. Hg concentration change with increasing fish wt. Illinois, Fox River ILLINOIS; BOLT; BIOACCUMULATION; FISHES; WATER POLLUTION; CADMIUM; COPPER; LEAD; METALS; MERCURY	Vinikour, W.S. Goldstein, E.S. Anderson, E.V. 1980 Bulletin of Environmental Contamination and Toxicology 24:727-734

Copper
7040-36-8
Cu
At 63.546, BP 1083 C, DP 2597 C, VP 1 mg Hg at 1628 C, 10 mg Hg at 1870 C
Crayfish
CISCOBCTBS BSBTICUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	DOSES	HEAL	GENERAL INFORMATION	REFERENCE
147 Abdomen		AAS	a) 4 b) 4 c) 4 d) 4 e) 4 f) 4	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 85 ppm b) 120 ppm c) 130 ppm d) 160 ppm e) 210 ppm f) 260 ppm	a) At 0 ppm b) At 0.1 ppm c) At 0.5 ppm d) At 1.0 ppm e) At 2.0 ppm f) At 3.0 ppm 96 hr exposure levels Adults, acclimated to 25 C in pond water for 24 hr before exposure. Ohio, Reilly, Indian Creek CRAYFISH; BICACCUMULATION; BIOINDICATORS; METALS; COPPER; OHIO; RESULTS; BODY	Evans, H.L. 1980 Bulletin of Environmental Contamination and Toxicology 24:916-920
148 Body, whole		AAS	66	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 120 ppm b) 130 ppm c) 170 ppm d) 180 ppm e) 220 ppm f) 250 ppm	a) At 0 ppm b) At 0.1 ppm c) At 0.5 ppm d) At 1.0 ppm e) At 2.0 ppm f) At 3.0 ppm 96 hr exposure levels Adults, acclimated to 25 C in pond water for 24 hr before exposure. Ohio, Reilly, Indian Creek CRAYFISH; BICACCUMULATION; BIOINDICATORS; METALS; COPPER; OHIO; RESULTS; BODY	Evans, H.L. 1980 Bulletin of Environmental Contamination and Toxicology 24:916-920
149 Claws		AAS	a) 4 b) 4 c) 4 d) 4 e) 4 f) 4	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 77 ppm b) 89 ppm c) 120 ppm d) 120 ppm e) 150 ppm f) 170 ppm	a) At 0 ppm b) At 0.1 ppm c) At 0.5 ppm d) At 1.0 ppm e) At 2.0 ppm f) At 3.0 ppm 96 hr exposure levels Adults, acclimated to 25 C in pond water for 24 hr before exposure. Ohio, Reilly, Indian Creek CRAYFISH; BICACCUMULATION; BIOINDICATORS; METALS; COPPER; OHIO; RESULTS; BODY	Evans, H.L. 1980 Bulletin of Environmental Contamination and Toxicology 24:916-920
150 Thorax		AAS	a) 4 b) 4 c) 4 d) 4 e) 4 f) 4	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 180 ppm b) 210 ppm c) 250 ppm d) 280 ppm e) 300 ppm f) 350 ppm	a) At 0 ppm b) At 0.1 ppm c) At 0.5 ppm d) At 1.0 ppm e) At 2.0 ppm f) At 3.0 ppm 96 hr exposure levels Adults, acclimated to 25 C in pond water for 24 hr before exposure. Ohio, Reilly, Indian Creek CRAYFISH; BICACCUMULATION; BIOINDICATORS; METALS; COPPER; OHIO; RESULTS; BODY	Evans, H.L. 1980 Bulletin of Environmental Contamination and Toxicology 24:916-920

Copper
7440-50-6
Cu
AIR 63.54%, BP 1043 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C
Toxic, acute
COCOA11003 BENIGNEUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	DIAGN	RES	ORIGINAL INFORMATION	REFERENCE
151 Kidney		AAS	24	Not given	29.5 ± or - 16.4 ug/g dry wt	Specs < 10-85 mo, assumed healthy. Vegetation analysis indicates irrigation area free from gross pollution. Montana, Northern Great Plains LEAD; ANTIMONY; MONTANA; KIDNEY; LIVER; BIOACCUMULATION; CADMIUM; COPPER; IRON; MANGANESE; NICKEL; SCANDIUM; SILICON; ZINC	Hanbaker, P.F. Houston, D.S. 1979 Bulletin of Environmental Contamination and Toxicology 22:827-832
152 Kidney		AAS	a) 12 b) 6	a) 15-65 ppm b) 23-32 ppm dry wt	a) 28.6 ± or - 15.0 ppm b) 26.5 ± or - 4.0 ppm dry wt	a) Adults (1.5 yr and older) b) Juven (0.5 yr) Captured 1/79 near oil shale tracts before mining initiated. Colorado, Rio Blanco County, Piceance Creek Basin LEAD NICK; NICKEL; BORON; COPPER; FIBER; MONTANA; COLORADO; IRON; MANGANESE; LIVER	Statler, L.H. 1980 Journal of Wildlife Diseases 16(2):175-182
153 Liver		AAS	29	Not given	46.3 ± or - 29.1 ug/g dry wt	Specs < 10-85 mo, assumed healthy. Vegetation analysis indicates irrigation area free from gross pollution. Montana, Northern Great Plains LEAD; ANTIMONY; MONTANA; KIDNEY; LIVER; BIOACCUMULATION; CADMIUM; COPPER; IRON; MANGANESE; NICKEL; SCANDIUM; SILICON; ZINC	Hanbaker, P.F. Houston, D.S. 1979 Bulletin of Environmental Contamination and Toxicology 22:827-832
154 Liver		AAS	a) 12 b) 6	a) 19-114 ppm b) 45-227 ppm dry wt	a) 61.4 ± or - 34.0 ppm b) 97.3 ± or - 59.6 ppm dry wt	a) Adults (1.5 yr and older) b) Juven (0.5 yr) Captured 1/79 near oil shale tracts before mining initiated. Colorado, Rio Blanco County, Piceance Creek Basin LEAD NICK; NICKEL; BORON; COPPER; FIBER; MONTANA; COLORADO; IRON; MANGANESE; LIVER	Statler, L.H. 1980 Journal of Wildlife Diseases 16(2):175-182

Copper
7440-50-8

LA

ATB 63.546, BP 1043 C, BP 2595 C, VP 1 mg Hg at 1628 C, 10 mg Hg at 1670 C

Crowns, raised
PCB435A 08081105

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
155 Feathers		AAS	130	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 4.0 ± or - 0.2 ug/g b) 4.4 ± or - 0.4 ug/g c) 4.4 ± or - 0.3 ug/g d) 3.6 ± or - 0.2 ug/g e) 3.9 ± or - 0.2 ug/g f) 4.6 ± or - 0.4 ug/g Dry wt	a) 77 adults b) 53 juveniles c) 88 males d) 42 females e) 82 birds, 1977-78 harvest f) 47 birds, 1978-79 harvest Wing and tail feathers Birds shot by hunters in remote forest area. Virginia (50) BIRDS; FEATHERS; JUVENILES; CADMIUM; COPPER; LEAD; NICKEL; SILVER; ZINC; VIRGINIA; ADULTS	Seaton, F.V. Oderwald, R.G. Bietrich, T.J. Coggia, J.L. 1980 Bulletin of Environmental Contamination and Toxicology 25:947-949

Copper
7440-50-8

LA

ATB 63.546, BP 1043 C, BP 2595 C, VP 1 mg Hg at 1628 C, 10 mg Hg at 1670 C

Brown, deer
FIBCHYSC35 HABICULATOS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
156 Kidney		AAS	a) 45 b) 45 c) 45	a) 18-37 ppm b) 18-26 ppm c) 21-27 ppm Dry wt	a) 22.0 ± or - 4.4 ppm b) 22.7 ± or - 2.3 ppm c) 22.6 ± or - 2.1 ppm Dry wt	a) Pinyon-juniper habitat b) Mountain shrub habitat c) Big sagebrush habitat Captured 6/78 near oil shale tracts before mining initiated Organ of choice for baseline sampling. LEAD RICH; NICKEL RICH; BORON; COPPER; FIBCHYSC35; HABICULATOS; COLORADO; BROWN; KIDNEYS; LIVER	Stetler, L.H. 1980 Journal of Wildlife Diseases 16(2):175-182
157 Liver		AAS	a) 45 b) 45 c) 45	a) 19-29 ppm b) 20-622 ppm c) 18-249 ppm Dry wt	a) 23.3 ± or - 2.4 ppm b) 75.4 ± or - 146.9 ppm c) 40.1 ± or - 56.0 ppm Dry wt	a) Pinyon-juniper habitat b) Mountain shrub habitat c) Big sagebrush habitat Captured 6/78 near oil shale tracts before mining initiated. Colorado, Rio Blanco County, Piceance Creek Basin LEAD RICH; NICKEL RICH; BORON; COPPER; FIBCHYSC35; HABICULATOS; COLORADO; BROWN; KIDNEYS; LIVER	Stetler, L.H. 1980 Journal of Wildlife Diseases 16(2):175-182

Copper
7440-50-8
Cu
Atm 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C
Cystal

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	REAS	GENERAL INFORMATION	REFERENCE
158 Body, whole			a) 10 b) 10 c) 10 d) 10 e) 10 f) 10 g) 10 h) 10 i) 10	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given	a) 60.9 + or - 23.1 ppb b) 67.2 + or - 14.8 ppb c) 84.3 + or - 23.0 ppb d) 67.0 + or - 20.9 ppb e) 87.7 + or - 25.7 ppb f) 117.7 + or 20.5 ppb g) 60.3 + or - 13.2 ppb h) 58.1 + or - 21.7 ppb i) 69.5 + or - 27.5 ppb	a) 15 d, 10 ppb b) 29 d, 10 ppb c) 43 d, 10 ppb d) 15 d, 20 ppb e) 29 d, 20 ppb f) 43 d, 20 ppb g) Controls, 15 d h) Controls, 25 d i) Controls, 43 d Cu-monomer solutions, a)-f) Controls, in seawater Shells removed before analysis SCLERUS; CADMIUM; COPPER; SILVER; TRACE ELEMENTS; BIOACCUMULATION; BCOV; COMPARATIVE EVALUATIONS; CONDUCTIVITY	Greig, R.A. 1979 Bulletin of Environmental Contamination and Toxicology 22:643-647
159 Body, whole			a) 11.1-46.3 ug/g b) 9.6-42.9 ug/g c) 13.7-246.0 ug/g d) 72.6-199.2 ug/g e) 4.8-37.8 ug/g f) 9.9-28.6 ug/g g) 5.1-14.4 ug/g h) 2.7-17.6 ug/g i) 8.9-36.2 ug/g j) 16.1-47.0 ug/g k) 1.5-7.9 ug/g Dry wt	a) 22.7 + or - 11.5 ug/g b) 25.4 + or - 10.7 ug/g c) 106.0 + or - 61.9 ug/g d) 119.7 + or 43.1 ug/g e) 17.9 + or - 11.3 ug/g f) 16.8 + or - 6.7 ug/g g) 10.4 + or - 3.7 ug/g h) 16.3 + or - 15.4 ug/g i) 21.2 + or - 18.2 ug/g j) 29.9 + or - 18.7 ug/g k) 4.9 + or - 3.2 ug/g Dry wt	a) Wando River, South, 7 samples b) Wando River, site 6, 6 samples c) Wando River, site 8, 34 samples d) Wando River, site 10, 8 samples e) Charleston Harbor, 10 samples f) North Winy Creek, 6 samples g) North Santee Bay, 6 samples h) Fishing Creek, 4 samples i) St. Helena Sound, 4 samples j) Ashley River, 4 samples k) Little Bay, 3 samples Significantly higher levels in Wando River oysters than in others. Shipyard possible Cu source 2 or 7 oysters/sample. Mean sample = 12.26 g. South Carolina, coast CYSTERS; SOUTH CAROLINA; BODY; COPPER; IRON; BIOACCUMULATION; WATER ILLUSTRATION	Mathews, T.D. Boyer, J.V. Davis, R.A. Simmons, D.H. 1979 Journal of Environmental Science and Health 17(8):683-694	

Copper
7440-50-8
Cu
Atm 63.546, BP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C
Porch, yellow
228CA PLATINUM

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	REAS	GENERAL INFORMATION	REFERENCE
160 Body, whole		AAS	40	Not given	20 ug/g	Fishes, mean length 104 mm, mean dry wt 11.22 g, collected downstream of fixed control weir at Altonville. No major industrial effluents, metal input mainly from sewage treatment plants and recreational boating. No concentration change with increasing fish wt. Illinois, Fox River ILLINOIS; BODY; BIOACCUMULATION; FISHES; WATER POLLUTION; CADMIUM; COPPER; LEAD; METALS; SMC	Vinikour, V.E. Goldstein, R.H. Anderson, R.V. 1966 Bulletin of Environmental Contamination and Toxicology 24:727-734

Copper
7440-50-8
Cu
Atm 63.546, BP 1003 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C
Cushion
ARCTICA ISLANDICA

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	SOURCE	UNIT	ORIGINAL INFORMATION	REFERENCE
161 body, whole			a) 10 b) 10 c) 10 d) 10 e) 10 f) 10 g) 10 h) 10 i) 10	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given	a) 3.0 ± or - 0.06 ppb b) 2.9 ± or - 1.13 ppb c) 2.1 ± or - 0.35 ppb d) 3.2 ± or - 1.04 ppb e) 3.7 ± or - 1.21 ppb f) 4.2 ± or - 1.34 ppb g) 2.8 ± or - 1.39 ppb h) 2.3 ± or - 0.84 ppb i) 1.9 ± or - 0.68 ppb	a) 15 d, 10 ppb b) 20 d, 10 ppb c) 43 d, 10 ppb d) 15 d, 20 ppb e) 20 d, 20 ppb f) 43 d, 20 ppb g) Controls, 15 d h) Controls, 20 d i) Controls, 43 d Cu-seawater solutions, a)-f) Controls, in seawater Shells removed before analysis SCALUSKES; CASHIUM; COPPER; SILVER; TRACE ELEMENTS; BIOACCUMULATION; ECCT; COMPARATIVE EVALUATIONS; CONNECTICUT	Dreig, R.A. 1979 Bulletin of Environmental Contamination and Toxicology 22:603-607

Copper
7440-50-8
Cu
Atm 63.546, BP 1003 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C
Sheep
CVIS sp.

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	SOURCE	UNIT	ORIGINAL INFORMATION	REFERENCE
162 blood, plasma		AAS	9	22.02-76.3 umol/l	41.6 umol/l	From sick sheep on Nigerian government farm where chronic Cu poisoning had occurred Serum levels 9.4-18.6 umol/l Nigeria, Nargaba Jaundice, edema ears, anemia Congested liver, kidney lesions. Massive hemosiderin in kidneys, spleen and lymph nodes. FIDNEY DISEASES; LIVER DISEASES; METAL POISONING; COPPER; AFRICA; SHEEP	Bdelestein, R.A. 1980 Tropical Animal Health and Production 12:49-74

Copper
7440-50-8
Cu
At 43.546, MP 1083 C, BP 2795 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C
Swan, note
CROSS OLCB

113388	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	1. AGE	2. SEX	GENERAL INFORMATION	REFERENCE
163 Kidney	Ingestion	AAS	a) 10 b) 11	a) 8-190 ug/g b) 11-42 ug/g Dry wt	a) 44 ug/g b) 145 ug/g Dry wt	<p>a) Poisoned swans b) Controls Dead or dying birds in heavily fished area, central Nottingham. Average gizzard content, 11 fishing shots/bird. Controls, dead from other causes, East Midlands.</p> <p>United Kingdom, River Trent</p> <p>Abnormal carriage of neck, anorexia, perosis, increased pigmentation of liver, grossly extended gallbladder, gizzard and proventriculus impaction, kidney abnormalities, adrenal gland enlargement, weight loss.</p> <p>LEADS; SWANS; UNITED KINGDOM; LEAD POISONING; SCHESS; BRAIN; KIDNEYS; LIVER; SPLEEN; COPPER; IRON; LEAD; ZINC; BIOACCUMULATION</p>	Simpson, V.R. Hunt, A.E. 1979 Environmental Pollution 18:187-202
164 Liver	Ingestion	AAS	a) 10 b) 11	a) 290-9200 ug/g b) 400-4250 ug/g Dry wt	a) 3660 ug/g b) 2790 ug/g Dry wt	<p>a) Poisoned swans b) Controls Dead or dying birds in heavily fished area, central Nottingham. Average gizzard content, 11 fishing shots/bird. Controls, dead from other causes, East Midlands.</p> <p>United Kingdom, River Trent</p> <p>Abnormal carriage of neck, anorexia, perosis, increased pigmentation of liver, grossly extended gallbladder, gizzard and proventriculus impaction, kidney abnormalities, adrenal gland enlargement, weight loss.</p> <p>LEADS; SWANS; UNITED KINGDOM; LEAD POISONING; SCHESS; BRAIN; KIDNEYS; LIVER; SPLEEN; COPPER; IRON; LEAD; ZINC; BIOACCUMULATION</p>	Simpson, V.R. Hunt, A.E. 1979 Environmental Pollution 18:187-202

Copper
7440-50-6
Cu
CAS 61.746, BP 1003 C, BP 2595 C, VP 1 mm Hg at 1620 C, 10 mm Hg at 1870 C
Solub
303 sp.

TOXIC	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	DIAGN	TEST	GENERAL INFORMATION	REFERENCE
165 Blood, plasma	Ingestion		a) 9 b) 9	a) 1.7-3.0 ppm b) 1.5-2.9 ppm Net wt	a) Not given b) Not given	<p>From group of growing Yorkshire crossbreeds (wt 35-55 kg) fed improperly compounded feed containing 700 ppm CuSO₄ as growth promotant. Estimated death losses, 400 of 2000 pigs during 10.5 mo.</p> <p>Georgia (H)</p> <p>Chronic Cu toxicosis manifested as Fe deficiency anemia. Anorexia, weight loss, weakness, pallor.</p> <p>Discolored liver, hepatic centrilobular necrosis, ulcers of gastric cardia, pale mucosa, watery blood, reddened bone marrow, splenic myeloid metaplasia.</p> <p>SWINE; GEORGIA; FATAL POISONING; BLOOD; BLOOD PLASMA; PCRES; KIDNEYS; LIVER; ANEMIC; COPPER; LEAD; HIOACCUMULATION; FOOD ADDITIVES</p>	<p>Witch, B.C. Blue, J.L. Mahaffey, E.A. Jain, A.V. Bailey, B.E. 1979 Journal of the American Veterinary Medical Association 170(4):616-619</p>
166 Kidney	Ingestion		2	5.0-19.5 ppm wet wt	12.1 ppm wet wt	<p>From group of growing Yorkshire crossbreeds (wt 35-55 kg) fed improperly compounded feed containing 700 ppm CuSO₄ as growth promotant. Estimated death losses, 400 of 2000 pigs during 10.5 mo.</p> <p>Georgia (H)</p> <p>Chronic Cu toxicosis manifested as Fe deficiency anemia. Anorexia, weight loss, weakness, pallor.</p> <p>Discolored liver, hepatic centrilobular necrosis, ulcers of gastric cardia, pale mucosa, watery blood, reddened bone marrow, splenic myeloid metaplasia.</p> <p>SWINE; GEORGIA; FATAL POISONING; BLOOD; BLOOD PLASMA; PCRES; KIDNEYS; LIVER; ANEMIC; COPPER; LEAD; HIOACCUMULATION; FOOD ADDITIVES</p>	<p>Witch, B.C. Blue, J.L. Mahaffey, E.A. Jain, A.V. Bailey, B.E. 1979 Journal of the American Veterinary Medical Association 170(4):616-619</p>

(NEXT PAGE)

Copper
7440-50-8
Cu
148 63.546, 3P 1083 C, 3P 2595 C, 7P 1 aa Hg at 1628 C, 10 aa Hg at 1870 C
Swine
395 sp.

(CONTINUED)

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
167 Liver	Ingestion		3	100-170 ppm wet wt	133.3 ppm wet wt	<p>Significantly higher levels than in livers obtained from grocery stores (0.0-6.3 ppm)</p> <p>From group of growing Yorkshire crossbreeds (wt 35-55 kg) fed improperly compounded feed containing 700 ppm CuSO₄ as growth preservative. Estimated death losses, 800 of 2000 pigs during 10.1 mo.</p> <p>Georgia (H)</p> <p>Chronic Cu toxicosis manifested as Fe deficiency anemia, anorexia, weight loss, icterus, weakness, pallor.</p> <p>Discolored liver, hepatic centrilobular necrosis, ulcers of gastric cardia, pale muscles, watery ileum, reddened bone marrow, splenic cystic degeneration.</p> <p>SWINE; GEORGIA; METAL POISONING; BLOOD; BLOOD PLASMA; PANCREAS; KIDNEYS; LIVER; ANATOMY; COPPER; LEAD; BIOACCUMULATION; FOOD ADDITIVES</p>	<p>Hatch, R.C. Blue, J.L. Hakeffay, S.A. Jain, I.V. Sullivan, S.E. 1979 Journal of the American Veterinary Medical Association 175(6):616-619</p>

Cresote
6007-58-9
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
3P 195-400 C
lobster
MCHABUS AMERICANUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
168 Hepatopancreas			<p>a) 2</p> <p>b) 2</p> <p>c) 2</p> <p>d) 2</p> <p>e) 2</p> <p>f) 2</p>	<p>a) Not given</p> <p>b) Not given</p> <p>c) Not given</p> <p>d) Not given</p> <p>e) Not given</p> <p>f) Not given</p>	<p>a) 47,500 ug</p> <p>b) 21,700 ug</p> <p>c) 10,850 ug</p> <p>d) 7,120 ug</p> <p>e) 2,220 ug</p> <p>f) 670 ug</p> <p>Values/g lipid</p>	<p>a) 100 hr in 2.5 ug/l</p> <p>b) 165 hr in 1.3 ug/l</p> <p>c) 120 hr in 0.3 ug/l</p> <p>d) 100 hr in 0.3 ug/l</p> <p>e) 25 hr in 0.3 ug/l</p> <p>f) Controls in seawater</p> <p>Solutions in seawater</p> <p>Adults, wt 450 g</p> <p>Lobsters at 2.5 ug/l and 1.3 ug/l exposures died within 3 and 6 hr after sampling.</p> <p>ICESTRUS; CHIOSCYS; HEPATOPANCREAS; CANADA; ADULTS; BIOACCUMULATION</p>	<p>Soleone, D.V. Wetzel, C.D. 1976 Bulletin of Environmental Contamination and Toxicology 22:796-799</p>

Cyclohexene, 1,2,3,4,5,6-benzochloro-, alpha- (C1)
 Cyclohexene, 1,2,3,4,5,6-benzochloro-, (1alpha,2alpha,3beta,4beta)- (C2)
 C1-86-C16
 BP 290-31, BP 159.5-160 C, BP 200 C, VP 0.02 mm Hg at 20 C
 Ecipolim, Saker
 LUGGERS PROCESS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CLIPS	BIOD	HAZ	GENERAL INFORMATION	REFERENCE
169 adipose	Placental	GC/MS	1	Not applicable	0.3 ug/g wet wt	In extractable lipids, subcutaneous fat lipid content 0.4% value for fetus (length 20 cm) of beached harbor porpoise in poor condition Netherlands, Total PCPOISE; ADIPOSE TISSUE; KIDNEYS; LIVER; MYOGLIANDS; FAT; BIOACCUMULATION; PHTHICIDE RESIDUES; WATER POLLUTION; CHLORINE ORGANIC COMPOUNDS; EEI; DBP; DDT; DIBLORIN; NITRACLOBOCYCLOHEXANE; LINDANE	Buiter, J.C. Millebrand, R.T.J. 1979 Bulletin of Environmental Contamination and Toxicology 23:728-732
170 kidney	Placental	GC/MS	1	Not applicable	0.2 ug/g wet wt	In extractable lipids, kidney lipid content 1.3% value for fetus (length 20 cm) of beached harbor porpoise in poor condition Netherlands, Total PCPOISE; ADIPOSE TISSUE; KIDNEYS; LIVER; MYOGLIANDS; FAT; BIOACCUMULATION; PHTHICIDE RESIDUES; WATER POLLUTION; CHLORINE ORGANIC COMPOUNDS; EEI; DBP; DDT; DIBLORIN; NITRACLOBOCYCLOHEXANE; LINDANE	Buiter, J.C. Millebrand, R.T.J. 1979 Bulletin of Environmental Contamination and Toxicology 23:728-732
171 liver	Placental	GC/MS	1	Not applicable	0.3 ug/g wet wt	In extractable lipids, liver lipid content 2% value for fetus (length 20 cm) of beached harbor porpoise in poor condition Netherlands, Total PCPOISE; ADIPOSE TISSUE; KIDNEYS; LIVER; MYOGLIANDS; FAT; BIOACCUMULATION; PHTHICIDE RESIDUES; WATER POLLUTION; CHLORINE ORGANIC COMPOUNDS; EEI; DBP; DDT; DIBLORIN; NITRACLOBOCYCLOHEXANE; LINDANE	Buiter, J.C. Millebrand, R.T.J. 1979 Bulletin of Environmental Contamination and Toxicology 23:728-732

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI)
 Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)
 56-89-9
 C6-H6-Cl6
 BP 290.93, BP gamma-isomer crystals 112.5 C, BP 323.4 C, 176.2 C at 10 mm Hg, VP 0.14 mm Hg at 40 C
 Porpoise, harbor
 INDOCHINA PHOCENNA

113502	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
172 Adipose	Placental	GC/MS	1	Not applicable	0.2 ug/g wet wt	In extractable lipids. Subcutaneous fat lipid content 0.6 Value for fetus (length 20 cm) of beached harbor porpoise in poor condition Netherlands, Texel PCBPOISE; ADIPOSE TISSUE; KIDNEYS; LIVER; UTERUS; FETUS; BIOACCUMULATION; PESTICIDE RESIDUES; WATER POLLUTION; CHLORINE ORGANIC COMPOUNDS; EE; DDT; DDE; Dieldrin; HEPTACHLOROCYCLOHEXANE; LINDANE	Deinker, J.C. Millebrand, H.T.J. 1979 Bulletin of Environmental Contamination and Toxicology 23:726-732
173 Kidney	Placental	GC/MS	1	Not applicable	1.5 ug/g wet wt	In extractable lipids. Kidney lipid content 1.3% Value for fetus (length 20 cm) of beached harbor porpoise in poor condition Netherlands, Texel PCBPOISE; ADIPOSE TISSUE; KIDNEYS; LIVER; UTERUS; FETUS; BIOACCUMULATION; PESTICIDE RESIDUES; WATER POLLUTION; CHLORINE ORGANIC COMPOUNDS; EE; DDT; DDE; Dieldrin; HEPTACHLOROCYCLOHEXANE; LINDANE	Deinker, J.C. Millebrand, H.T.J. 1979 Bulletin of Environmental Contamination and Toxicology 23:726-732
174 Liver	Placental	GC/MS	1	Not applicable	21 ug/g wet wt	In extractable lipids. Liver lipid content 3% Value for fetus (length 20 cm) of beached harbor porpoise in poor condition Netherlands, Texel PCBPOISE; ADIPOSE TISSUE; KIDNEYS; LIVER; UTERUS; FETUS; BIOACCUMULATION; PESTICIDE RESIDUES; WATER POLLUTION; CHLORINE ORGANIC COMPOUNDS; EE; DDT; DDE; Dieldrin; HEPTACHLOROCYCLOHEXANE; LINDANE	Deinker, J.C. Millebrand, H.T.J. 1979 Bulletin of Environmental Contamination and Toxicology 23:726-732

Cyfluthrin: 1,2,3,4,5,6-hexachloro-; gamma- (6 CI)
 Cyfluthrin: 1,2,3,4,5,6-hexachloro-; (alpha,2alpha,3beta,4alpha,5alpha,6beta)- (4 CI)
 38-49-9
 C-46-C16
 88 290-85, 87 gamma-isomer crystals 172.3 C, 37 323.4 C, 176.2 C at 10 mm Hg, 97 0.16 mm Hg at 63 C
 3100
 383 sp.

TOXIDR	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	DOSE	HEAL	ORIGINAL INFORMATION	REFERENCE
175 Blood, saliva	Ingestion		1	Not given	0.002 ppm	Accidental contamination of food by insecticide spray (45% tospone and 3% lindane). Laboratory, vomiting, muscle tremors, staggering, periodic convulsions, death 3 hr after onset of symptoms. TID; KANSAS; AUTOPSY; NERVOUS SYSTEM DISORDERS; BLOOD SHUNT; SALIV; CARBOXYLATE HYDROCARBONS; INSECTICIDES; LINDANE; BIOACCUMULATION	Reut, R.E.; Triffin, V.; Miller, J.J.; Cobb, P.E. 1960 Journal of the American Veterinary Medical Association 177(9):1465-1467
176 Acute	Ingestion		1	a) Not given b) Not given	a) 0.02 ppm b) 0.01 ppm	Accidental contamination of food by insecticide spray (45% tospone and 3% lindane). Laboratory, vomiting, muscle tremors, staggering, periodic convulsions, death 3 hr after onset of symptoms. TID; KANSAS; AUTOPSY; NERVOUS SYSTEM DISORDERS; BLOOD SHUNT; SALIV; CARBOXYLATE HYDROCARBONS; INSECTICIDES; LINDANE; BIOACCUMULATION	Reut, R.E.; Triffin, V.; Miller, J.J.; Cobb, P.E. 1960 Journal of the American Veterinary Medical Association 177(9):1465-1467

Disperse-1-dioxin, 2,3,7,8-tetrachloro- (6 CI)
 Disperse-1-dioxin, 2,3,7,8-tetrachloro- (9 CI)
 194-89-6
 C12-88-C16-02
 88 322, 89 395 C
 308000

TOXIDR	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	DOSE	HEAL	ORIGINAL INFORMATION	REFERENCE
177 Blood, saliva			2	Not given	12 ppb	3 g earthworm/sample Collected near contaminated area 2 yr after explosion in chemical plant. RICE; TOADS; SHARKS; HARKS; EARTHWORKS; ITALY; ADPOSE TISSUE; BCT; LIVER; HEMICIDES; INDUSTRIAL ACCIDENTS; CHLORINE ORGANIC COMPOUNDS	Reut, R.E.; Triffin, V.; Miller, J.J.; Cobb, P.E.; Garrett, R. 1960 Bulletin of Environmental Contamination and Toxicology 24:160-162

Dibenzo-p-dioxin, 2,3,7,8-tetrachloro- (8 CI)
 Dibenzo(b,e)(1,4)dioxin, 2,3,7,8-tetrachloro- (9 CI)
 1746-01-6
 C12-H4-Cl4-O2
 R# 322, R# 305 C
 Seveso

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
178 Liver			5	2.7-13 ppb	7.7 ppb	Collected in and near contaminated area 2 yr after explosion in chemical plant. Italy, Seveso FISH; TOADS; SNAKES; BIRDS; BENTHICWORMS; ITALY; ADIPOSE TISSUE; SCOT; LIVER; HERBICIDES; INDUSTRIAL ACCIDENTS; CHLORINE ORGANIC COMPOUNDS	Fanelli, B. Castelli, B.G. Martelli, G.P. Nesoda, A. Garattini, S. 1980 Bulletin of Environmental Contamination and Toxicology 24:460-462

Dibenzo-p-dioxin, 2,3,7,8-tetrachloro- (8 CI)
 Dibenzo(b,e)(1,4)dioxin, 2,3,7,8-tetrachloro- (9 CI)
 1746-01-6
 C12-H4-Cl4-O2
 R# 322, R# 305 C
 Seveso, field
 NICHOTUS ARVA IS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
179 Body, whole		GC/MS	14	0.07-49 ppb	4.5 ppb	Collected in contaminated area (0.010-12 ppt in top 7 cm of soil) 2 yr after explosion in chemical plant. Italy, Seveso FISH; TOADS; SNAKES; BIRDS; BENTHICWORMS; ITALY; ADIPOSE TISSUE; SCOT; LIVER; HERBICIDES; INDUSTRIAL ACCIDENTS; CHLORINE ORGANIC COMPOUNDS	Fanelli, B. Castelli, B.G. Martelli, G.P. Nesoda, A. Garattini, S. 1980 Bulletin of Environmental Contamination and Toxicology 24:460-462

Dibenzo-p-dioxin, 2,3,7,8-tetrachloro- (8 CI)
 Dibenzo(b,e)(1,4)dioxin, 2,3,7,8-tetrachloro- (9 CI)
 1746-01-6
 C12-H4-Cl4-O2
 R# 322, R# 305 C
 Seveso

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
180 Adipose			1	Not applicable	16 ppb	Collected near contaminated area 2 yr after explosion in chemical plant. Italy, Seveso FISH; TOADS; SNAKES; BIRDS; BENTHICWORMS; ITALY; ADIPOSE TISSUE; SCOT; LIVER; HERBICIDES; INDUSTRIAL ACCIDENTS; CHLORINE ORGANIC COMPOUNDS	Fanelli, B. Castelli, B.G. Martelli, G.P. Nesoda, A. Garattini, S. 1980 Bulletin of Environmental Contamination and Toxicology 24:460-462
181 Liver			1	Not applicable	2.7 ppb	Collected near contaminated area 2 yr after explosion in chemical plant. Italy, Seveso FISH; TOADS; SNAKES; BIRDS; BENTHICWORMS; ITALY; ADIPOSE TISSUE; SCOT; LIVER; HERBICIDES; INDUSTRIAL ACCIDENTS; CHLORINE ORGANIC COMPOUNDS	Fanelli, B. Castelli, B.G. Martelli, G.P. Nesoda, A. Garattini, S. 1980 Bulletin of Environmental Contamination and Toxicology 24:460-462

Dibenzo-p-dioxin, 2,3,7,8-tetrachloro- (8 CI)
 Dibenzo(b,e)(1,4)dioxin, 2,3,7,8-tetrachloro- (9 CI)
 1746-01-6
 C12-H8-Cl4-O2
 MW 322, BP 305 C
 Toxic

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
182 Soly. whole			1	Not applicable	0.2 ppb	Collected near contaminated area 2 yr after explosion in chemical plant. Italy, Jeness FISH; TOADS; SWANS; HARES; PARTWORMS; ITALY; ADIPOSE TISSUE; PCDD; LIVER; HERBICIDES; INDUSTRIAL ACCIDENTS; CHLORINE ORGANIC COMPOUNDS	Panelli, R. Castelli, M.G. Martelli, G.P. Nesoda, A. Garattini, S. 1980 Bulletin of Environmental Contamination and Toxicology 24:460-462

Ethane, 1,1-dichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)- (8 CI)
 Butene, 1-chloro-2-(2,2-dichloro-1-(4-chlorophenyl)ethyl)- (9 CI)
 33-19-0
 C14-H10-Cl4
 MW 320.05, BP 76-78 C
 Terpoise, harbor
 ISOCOSMA PROCOSEA

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
183 Adipose	Placental	GC/MS	1	Not applicable	2.5 ug/g wet wt	In extractable lipids. Subcutaneous fat lipid content 0.6% Value for fetus (length 20 cm) of beached harbor porpoise in poor condition Netherlands, Texel ISOPHOS; ADIPOSE TISSUE; KIDNEYS; LIVER; NETHERLANDS; FETUS; BIOACCUMULATION; PESTICIDE RESIDUES; WATER POLLUTION; CHLORINE ORGANIC COMPOUNDS; DDE; DDB; DDT; DILDRIN; HEPTACHLOROCYCLOHEXANE; LINDANE	Duinker, J.C. Hillebrand, M.T.J. 1979 Bulletin of Environmental Contamination and Toxicology 23:728-732
184 Kidney	Placental	GC/MS	1	Not applicable	1.3 ug/g wet wt	In extractable lipids. Kidney lipid content 1.3% Value for fetus (length 20 cm) of beached harbor porpoise in poor condition Netherlands, Texel ISOPHOS; ADIPOSE TISSUE; KIDNEYS; LIVER; NETHERLANDS; FETUS; BIOACCUMULATION; PESTICIDE RESIDUES; WATER POLLUTION; CHLORINE ORGANIC COMPOUNDS; DDE; DDB; DDT; DILDRIN; HEPTACHLOROCYCLOHEXANE; LINDANE	Duinker, J.C. Hillebrand, M.T.J. 1979 Bulletin of Environmental Contamination and Toxicology 23:728-732
185 Liver	Placental	GC/MS	1	Not applicable	3.4 ug/g wet wt	In extractable lipids. Liver lipid content 21% Value for fetus (20 cm) of harbor porpoise stranded on beach in poor condition Netherlands, Texel ISOPHOS; ADIPOSE TISSUE; KIDNEYS; LIVER; NETHERLANDS; FETUS; BIOACCUMULATION; PESTICIDE RESIDUES; WATER POLLUTION; CHLORINE ORGANIC COMPOUNDS; DDE; DDB; DDT; DILDRIN; HEPTACHLOROCYCLOHEXANE; LINDANE	Duinker, J.C. Hillebrand, M.T.J. 1979 Bulletin of Environmental Contamination and Toxicology 23:728-732

stane, 1,1-dichloro-2,2-bis(4-chlorophenyl)- (4 CI)
benzene, 1,1'-1,2,2'-dichloroethylidenebis(4-chloro-

072-618-013 227-122 C

011702037
SCT1603081
SUBJECT ACQUIS

LIST#	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
192		D-PC	41	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given	a) 0.08 ppm b) 0.05 ppm c) 0.01 ppm d) 0.07 ppm e) 0.01 ppm f) 0.01 ppm g) 0.01 ppm h) 0.05 ppm	6 clutches, significantly different (p < 0.05) Shells, molluscs removed. Mean shell thickness 0.49 mm	Hall, R.J. Kaiser, T.Z. Robertson, A.B., Jr. Patty, P.C. 1974
193			31	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given	a) 0.08 ppm b) 0.05 ppm c) 0.01 ppm d) 0.07 ppm e) 0.01 ppm f) 0.01 ppm g) 0.01 ppm h) 0.05 ppm	Florida, Presqu Coast National Park	Bulletin of Environmenal Contamination and Toxicology 23:87-92
194			31	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given	a) 0.08 ppm b) 0.05 ppm c) 0.01 ppm d) 0.07 ppm e) 0.01 ppm f) 0.01 ppm g) 0.01 ppm h) 0.05 ppm	IGUS; CHOCOTILES; REPTILES; FLORIDA; PALM; CHLORINE ORGANIC COMPOUNDS; FIC; DE; DE; DIETARY; HEPTACHLOR EPOXIDE; DITHIONATE; ICYCHLORINATED BIPHENYLS; ELUCCUMULATION; WATER POLLUTION	

[illegible]

4-4-61-004

00-10689-1

5:17:46ACT000 46304:04-7-18

06 08:50:11 405572

TESTS	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	DIAGNOSIS	AGE	GENERAL INFORMATION	REFERENCE
137 ADIPOSE		2	10	0.5-10.5 ppm wet wt 1.2 ppm wet wt	0.2 ppm wet wt	Visceral fat Higher levels in bicus with exposure of to visceral fat Collected 1973-74. Utah, Bear River Migratory Bird Refuge FISH: FISH; ADIPOSE TISSUE; BLOOD; FUSCLES; UTAH; BIOACCUMULATION; PESTICIDE RESIDUES; DDE; DDE; POLYCHLORINATED BIPHENYLS	Lindvall, H. Low, J.B. 1979 Bulletin of Environmental Contamination and Toxicology 22:754-761
138 ADIPOSE		2	10	Not detected-0.2 ppm wet wt	0.2 ppm wet wt	Collected 1973-74. Utah, Bear River Migratory Bird Refuge FISH: FISH; ADIPOSE TISSUE; BLOOD; FUSCLES; UTAH; BIOACCUMULATION; PESTICIDE RESIDUES; DDE; DDE; POLYCHLORINATED BIPHENYLS	Lindvall, H. Low, J.B. 1979 Bulletin of Environmental Contamination and Toxicology 22:754-761
141 ADIPOSE		2	2	0.2-1.2 ppm wet wt (0.5-1.2 ppm wet wt) 0.2-1.2 ppm wet wt (0.5-1.2 ppm wet wt)	0.2 ppm wet wt	Average small chickadees. Index 1.0 ppm wet wt. Utah, Bear River Migratory Bird Refuge FISH: FISH; ADIPOSE TISSUE; BLOOD; FUSCLES; UTAH; BIOACCUMULATION; PESTICIDE RESIDUES; DDE; DDE; POLYCHLORINATED BIPHENYLS	Lindvall, H. Low, J.B. 1980 Bulletin of Environmental Contamination and Toxicology 22:754-761

2222

Heptachlor, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI)
 Heptachlor, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (8 CI)
 72-54-8
 C14-H12-Cl4
 M 353.4, BP 221-222 C
 Grebe, western
 18905 9191975 OCCIDENTALIS

(CONTINUED)

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
190 Eggs		GC	40	1.0-21.4 ppm wet wt (22-27% ppm lipid wt)	4.6 ppm wet wt (76.5 ppm lipid wt)	Whole eggs Collected 1973-74. Utah, Bear River Migratory Bird Refuge EYES; EGGS; ADIPOSE TISSUE; BLOOD; MUSCLES; UTAH; BIOACCUMULATION; PESTICIDE RESIDUES; DDD; DDT; POLYCHLORINATED BIPHENYLS	Lindvall, M. Low, J.B. 1979 Bulletin of Environmental Contamination and Toxicology 22:754-760
191 Muscle		GC	24	0.1-6.0 ppm wet wt (2-17% ppm lipid wt)	0.4 ppm wet wt (29 ppm lipid wt)	Breast muscle Collected 1973-74. Utah, Bear River Migratory Bird Refuge EYES; EGGS; ADIPOSE TISSUE; BLOOD; MUSCLES; UTAH; BIOACCUMULATION; PESTICIDE RESIDUES; DDD; DDT; POLYCHLORINATED BIPHENYLS	Lindvall, M. Low, J.B. 1979 Bulletin of Environmental Contamination and Toxicology 22:754-760

Heptachlor, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI)
 Heptachlor, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (8 CI)
 72-54-8
 C14-H12-Cl4
 M 353.46, BP 221-222 C
 Gull, Great Black-backed
 18905 9191975

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
192 Eggs		GC	24	0.0-2.1% ppm wet wt	0.01 + or - 0.01 ppm wet wt	Eggshell index 1.11-1.11, shell thickness 0.39-0.47 mm, shell wt 7.21-9.09 g, lipid content 6.0-9.6%. Collected 5/77. Palme, Appledore Island EYES; HAIFF; EGGS; CHLORINE ORGANIC COMPOUNDS; EEL; DDE; DDT; DIELDRIN; DDTCHLORDANE; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; VIRGINIA	Staro, S.C. Cohn, M.C. Kolbe, F. 1979 Bulletin of Environmental Contamination and Toxicology 22:194-197

Etane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI)
 Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)
 22-54-8
 C16-810-C14
 BU 352.46, BP 221-222 C
 Forpoina, harbor
 INCOBNA PHOCCINA

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
193 Adipose	Placental	GC/MS	1	Not applicable	2.5 ug/g wet wt	In extractable lipids. Subcutaneous fat lipid content 0.6% Value for fetus (20 cm) of beached harbor porpoise in poor condition Netherlands, Texel PCB/CIS; ADIPOSE TISSUE; KIDNEYS; LIVER; HETEROGENEITY; TESTES; BICACCONULATON; PESTICIDE RESIDUES; WATER POLLUTION; CHLORINE ORGANIC COMPOUNDS; EEC; DDE; DDT; DIELDRIN; HEPTACHLOROCTYLOXANE; LINDANE	Dunker, J.C. Millebrand, H.T.J. 1979 Bulletin of Environmental Contamination and Toxicology 23:728-732
194 Kidney	Placental	GC/MS	1	Not applicable	1.5 ug/g wet wt	In extractable lipids. Kidney lipid content 1.5% wet wt Value for fetus (20 cm) of beached harbor porpoise in poor condition Netherlands, Texel PCB/CIS; ADIPOSE TISSUE; KIDNEYS; LIVER; HETEROGENEITY; TESTES; BICACCONULATON; PESTICIDE RESIDUES; WATER POLLUTION; CHLORINE ORGANIC COMPOUNDS; EEC; DDE; DDT; DIELDRIN; HEPTACHLOROCTYLOXANE; LINDANE	Dunker, J.C. Millebrand, H.T.J. 1979 Bulletin of Environmental Contamination and Toxicology 23:728-732
195 Liver	Placental	GC/MS	1	Not applicable	3.5 ug/g wet wt	In extractable lipids. Liver lipid content 21% Value for fetus (length 20 cm) of beached harbor porpoise in poor condition Netherlands, Texel PCB/CIS; ADIPOSE TISSUE; KIDNEYS; LIVER; HETEROGENEITY; TESTES; BICACCONULATON; PESTICIDE RESIDUES; WATER POLLUTION; CHLORINE ORGANIC COMPOUNDS; EEC; DDE; DDT; DIELDRIN; HEPTACHLOROCTYLOXANE; LINDANE	Dunker, J.C. Millebrand, H.T.J. 1979 Bulletin of Environmental Contamination and Toxicology 23:728-732

Etane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI)
 Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)
 C-29-3
 C16-89-C15
 BU 356.52, BP 108.5-109 C, BP 260 C, VP 1.5X10 (E-7) mm Hg at 20 C
 Crocodile, American
 CROCODYLUS ACUTUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
196 Eggs		GC-EC	a) 3 b) 3 c) 3 d) 5 e) 1 f) 2 g) 3 h) 3	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given	a) 0.05 ppm b) 0.08 ppm c) 0.02 ppm d) 0.23 ppm e) 0.02 ppm f) 0.12 ppm g) 0.02 ppm h) 0.06 ppm Wet wt	8 clutches, significantly different (P < 0.05) Shells, nestboxes removed. Mean shell thickness 0.49 mm Florida, Everglades National Park EGGS; CROCODILES; REPTILES; FLORIDA; HETEROGENEITY; CHLORINE ORGANIC COMPOUNDS; EEC; DDE; DDT; DIELDRIN; HEPTACHLOROCTYLOXANE; LINDANE BICACCONULATON; WATER POLLUTION	Hall, R.J. Kaiser, T.E. Robertson, V.B., Jr. Patty, P.C. 1979 Bulletin of Environmental Contamination and Toxicology 23:87-90

ISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	SUMMARY OF CASES	DOSE	AREA	GENERAL INFORMATION	REFERENCE
197		GC	23	0.0-0.25 ppm wet wt	0.03 + or - 0.04 ppm wet wt	Metallife Index 1.71-2.11, shell thickness 0.39-0.67 mm, shell wt 7.21-9.09 g, lipid content 6.0-9.8%. Collected 5/77.	Stato, R.C. Coos, M.C. Toibe, R. 1979
439a						Reino, Appleford Island FISH; NAIVE; EGGS; CHLORINE ORGANIC COMPOUNDS; PCB; DDT; DIELDRIN; CYCLODRIN; POLYCHLORINATED BIPHENYL; BIOACCUMULATION; PESTICIDE RESIDUES; VIRGINIA	Environmental and Toxicology 22,358-199

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHODS	SUMMARY OF CASES	RANGE	YEAR	GENERAL INFORMATION	REFERENCE
19a 249a		GC	33	3.00-5.10 ppm wet wt 0.19 + or - 0.93 ppm wet wt		fat-soluble index 1.53-1.76, shell thickness 0.36-0.67 mm, shell wt 5.07-7.89 g, lipid content 6.10-10.20%. Collected 5/77. Sease, Ap. Isadore Island FLEDS; NAIRES; EGGS; CHLORINE ORGANIC COMPOUNDS; DDT, DDE, DDT, Dieldrin; CHLOROBANI; POLYCHLORINATED BIPHENYLS; POLYCHLORINATION; PESTICIDE RESIDUES; VIRGINIA	Sease, J.C. COSE, M.C. Kolbe, E. 1979 Bulletin of Environmental Contamination and Toxicology 23:394-399

ISSUE	SYMPTOM	ANALYTICAL METHOD	SUBJECTS OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
199 adipose	Placental	GC/MS	1	Not applicable	a.5 ug/g wet wt	In extractable lipids. Subcutaneous fat lipid content 0.6% Value for fetus (length 20 cm) of washed harbor porpoise in poor condition. Netherlands, Texel FETOIDS; ADIPOSE TISSUE; KIDNEYS; LIVER; MYOMETRIUM; TESTIS; BIACUMULATION; CHITICIN ORGANIC WATER POLLUTION; CHEMICAL ORGANIC CONTAMINATION; BOD; DEF; BUILDING; BIOCHEMISTRY; LINDANE	Dinkler, J.C. Hillebrand, R.T.J. 1979 Bulletin of Environmental Contamination and Toxicology 23:728-732

TISSUE	POLYMER SOURCE	ANALYTICAL METHOD	SUBSTANCE OF CLASS	DILUTE	TEST	COUNTRY OF ORIGIN	REFERENCE
200 Kidney	Placental	GC/MS	1	Not applicable	8.9 ug/g wet wt	In extractable lipids, kidney lipid extract 1-5 mg (200 ug length) of kidney, ether peroxide in poor condition Netherlands, Tegel	Binkner, J.C., Hillobrand, H.T.J. 1978 Bulletin of Environmental Contamination and Toxicology 23:728-733
201 Liver	Placental	GC/MS	1	Not applicable	5.3 ug/g wet wt	In extractable lipids, liver lipid extract 21g Value for fetus (length 20 cm) of brooded harbor porpoise in poor condition Netherlands, Tegel	Binkner, J.C., Hillobrand, H.T.J. 1978 Bulletin of Environmental Contamination and Toxicology 23:728-733

Ethylene, 1,1-dichloro-2,2-bis(4-chlorophenyl)- (8 CI)
 heptene, 1,1'-(dichloromethylene)bis(4-chloro- (9 CI)

REPORT	REPORT NUMBER	DATE	COLLECTOR	STATE	LOCALITY	PLANT	FRUIT	SEEDS	REMARKS
202	2000		SC-EC				<p>a) Not given</p> <p>b) Not given</p> <p>c) Not given</p> <p>d) Not given</p> <p>e) Not given</p> <p>f) Not given</p> <p>g) Not given</p> <p>h) Not given</p>	<p>3</p> <p>4</p> <p>4</p> <p>3</p> <p>4</p> <p>4</p> <p>3</p> <p>4</p>	<p>9 clutches, significantly different to 5 (0.03)</p> <p>Shells, specimens reserved. Mean shell thickness 0.49 mm</p> <p>Florida, Everglades National Park</p> <p>1959</p> <p>Ball, R.J. Sander, T.B. Robertson, R.A., Jr. Patty, F.C. Bacteria of Environmental Contamination and Toxicology 23:87-90</p>

1,1-dichloro-2,2-bis(4-chlorophenyl)- (0.1)
 1,1-dichloro-2,2-bis(4-chlorophenyl)- (0.1)
 1,1-dichloro-2,2-bis(4-chlorophenyl)- (0.1)
 1,1-dichloro-2,2-bis(4-chlorophenyl)- (0.1)
 1,1-dichloro-2,2-bis(4-chlorophenyl)- (0.1)
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 1,1-dichloro-2,2-bis(4-chlorophenyl)- (0.1)
 1,1-dichloro-2,2-bis(4-chlorophenyl)- (0.1)
 1,1-dichloro-2,2-bis(4-chlorophenyl)- (0.1)
 1,1-dichloro-2,2-bis(4-chlorophenyl)- (0.1)

(CONTINUED)

TEST	EXPOSURE SCENE	ANALYTICAL METHOD	NUMBER OF CASES	ADULT	CHILD	ANALYTICAL INFORMATION	REFERENCE
206 Blood		GC	16	0.24-2.00 ppm wet wt	0.45 ppm wet wt	Higher levels in birds with sparse or no visceral fat Collected 1973-74. Fish, Bear River Migratory Bird Refuge BIBB; BODS; ADIPOSE TISSUE; BLOOD; MUSCLES; UTA; BIOACCUMULATION; PESTICIDE RESIDUES; DDT; DDE; ICITCLOLIMATED BIPHENYLS	Lindvall, R. Lew, J.B. 1976 Bulletin of Environmental Contamination and Toxicology 22:750-760
207 Eggs		GC	40	1.0-21.4 ppm wet wt (20-275 ppm lipid wt)	6.6 ± 0.1 - 1.6 ppm wet wt (14.5 ± 0.1 or 17.7 ppm lipid wt)	Average shell thickness index 1.000 ± 0.015 mm. 2.1% decrease from pre-BET use period Collected 1973-74. Fish, Bear River Migratory Bird Refuge No detectable effects on reproduction. BIBB; BODS; UTA; CHLORINE ORGANIC COMPOUNDS; DDT; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES	Lindvall, R.L. Lew, J.B. 1980 Pesticides Monitoring Journal 14(3):100-111
208 Eggs			40	1.0-21.4 ppm wet wt (20-275 ppm lipid wt)	4.4 ppm wet wt (76.4 ppm lipid wt)	Whole eggs Collected 1973-74. Fish, Bear River Migratory Bird Refuge BIBB; BODS; ADIPOSE TISSUE; BLOOD; MUSCLES; UTA; BIOACCUMULATION; PESTICIDE RESIDUES; DDT; DDE; ICITCLOLIMATED BIPHENYLS	Lindvall, R. Lew, J.B. 1976 Bulletin of Environmental Contamination and Toxicology 22:750-760
209 Muscle		GC	24	<0.1-115.2 ppm wet wt (1-3297 ppm lipid wt)	12.8 ppm wet wt (51) ppm lipid wt	Arrest muscle Higher levels in birds with sparse or no visceral fat Collected 1973-74. Fish, Bear River Migratory Bird Refuge BIBB; BODS; ADIPOSE TISSUE; BLOOD; MUSCLES; UTA; BIOACCUMULATION; PESTICIDE RESIDUES; DDT; DDE; ICITCLOLIMATED BIPHENYLS	Lindvall, R. Lew, J.B. 1976 Bulletin of Environmental Contamination and Toxicology 22:750-760

Ethylene, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI)
 Benzene, 1,1'-(dichloroethenylidene)bis(4-chloro- (9 CI)
 72-55-9
 C10-H8-Cl4
 nu 310.02, mp 88.4 c
 Gull, great black-backed
 LARUS MARINUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
210 Eggs		GC	28	0.0-27.00 pps wet wt	0.66 ± or - 0.67 pps wet wt	Batcliffe index 1.71-2.11, shell thickness 0.39-0.67 mm, shell wt 7.21-9.09 g, lipid content 6.0-9.6%, collected 5/77. Maine, Appledore Island EIRDS; HAIN; EGGS; CHLORINE ORGANIC COMPOUNDS; CEC; DDE; DDT; DIFLORIN; CYCLODANES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; VIRGINIA	Shero, B.C. Coca, H.C. Kolbe, E. 1979 Bulletin of Environmental Contamination and Toxicology 22:190-199

Ethylene, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI)
 Benzene, 1,1'-(dichloroethenylidene)bis(4-chloro- (9 CI)
 72-55-9
 C10-H8-Cl4
 nu 310.02, mp 88.4 c
 Gull, herring
 LARUS ARGENTATUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
211 Eggs		GC	a) 30 b) 28	a) 0.34-7.50 pps b) 0.70-4.50 pps wet wt	a) 1.94 ± or - 1.76 pps b) 1.93 ± or - 0.88 pps wet wt	a) Batcliffe index 1.53-1.98, shell thickness 0.34-0.67 mm, shell wt 5.07-7.89 g, lipid content 6.10-10.20% b) Batcliffe index 1.42-2.11, shell thickness 0.33-0.6 mm, shell wt 6.88-7.64 g, lipid content 6.2-9.7% Collected 5/77. Maine, Appledore Island Virginia, Fisherman Island EIRDS; HAIN; EGGS; CHLORINE ORGANIC COMPOUNDS; CEC; DDE; DDT; DIFLORIN; CYCLODANES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; VIRGINIA	Shero, B.C. Coca, H.C. Kolbe, E. 1979 Bulletin of Environmental Contamination and Toxicology 22:190-199

Ethylene, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (3 CI)
 Benzene, 1,1'-(dichloroethylenediyl)bis(4-chloro- (3 CI)
 72-55-9
 C14-H9-Cl4
 94 119.32, 92 98.4 C
 Porpoise, harbor
 ISOCC231 PROCC234

TESTS	STUDY SITE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	SEAS	GENERAL INFORMATION	REFERENCE
212 Adipose	Placental	GC MS	1	Not applicable	1.2 100 g wet wt	In extractable lipids. Subcutaneous fat lipid content 1.6% Value for fetus (length 10 cm) of leached harbor porpoise in poor condition Netherlands, Texel (COPOLYMER; ADIPOSE TISSUE; PLACENTA; LIVER; VITELLUS; FETUS; BIOACCUMULATION; PESTICIDE RESIDUES; WATER POLLUTION; CHLORINE ORGANIC COMPOUNDS; DDT; DDE; DDT; DIELDRIN; HEPTACHLOROCYCLOHEXANE; LINDANE	Dulaker, J.C. Hillebrand, M.T.D. 1979 Bulletin of Environmental Contamination and Toxicology 23:729-732
213 Liver	Placental	GC MS	1	Not applicable	1.2 100 g wet wt	In extractable lipids. Kidney lipid content 1.6% Value for fetus (length 10 cm) of leached harbor porpoise in poor condition Netherlands, Texel (COPOLYMER; ADIPOSE TISSUE; PLACENTA; LIVER; VITELLUS; FETUS; BIOACCUMULATION; PESTICIDE RESIDUES; WATER POLLUTION; CHLORINE ORGANIC COMPOUNDS; DDT; DDE; DDT; DIELDRIN; HEPTACHLOROCYCLOHEXANE; LINDANE	Dulaker, J.C. Hillebrand, M.T.D. 1979 Bulletin of Environmental Contamination and Toxicology 23:729-732
214 Liver	Placental	GC MS	1	Not applicable	1.2 100 g wet wt	In extractable lipids. Liver lipid content 1.6% Value for fetus (length 10 cm) of leached harbor porpoise in poor condition Netherlands, Texel (COPOLYMER; ADIPOSE TISSUE; PLACENTA; LIVER; VITELLUS; FETUS; BIOACCUMULATION; PESTICIDE RESIDUES; WATER POLLUTION; CHLORINE ORGANIC COMPOUNDS; DDT; DDE; DDT; DIELDRIN; HEPTACHLOROCYCLOHEXANE; LINDANE	Dulaker, J.C. Hillebrand, M.T.D. 1979 Bulletin of Environmental Contamination and Toxicology 23:729-732

1,1'-Dichloro-2,2'-bis(4-chlorophenyl)- (9 C)
 Benzene, 1,1'-[dichlorobis(phenyl)]bis(4-chloro- (9 C)
 C14-H9-Cl4
 M 310.22, SF 49.4 C
 Stable, inert
 TRANSFORMS: STABLE

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
137 Blubber		X	6	0.00-0.75 ppb wet wt	0.47 ppb wet wt	Shoot-vent lengths 666-752 mm, lipid content 3.2-9.0% Residing birds in stomachs of 1 whale contained 0.22-0.57 ppb. Lake Michigan, Sillier Island SHARKS; MARLIN; BODY; PLOCCUMULATICS; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; DDT; LITHIUM; MERCURY; POLYCHLORINATED BIPHENYLS	Heintz, G.H. Hawthorne, S.D. Mall, R.J. Arybhaty, A.J. 1970 Bulletin of Environmental Contamination and Toxicology 25: 718-743

1,1'-Dichloro-2,2'-bis(4-chlorophenyl)- (9 C)
 Benzene, 1,1'-[dichlorobis(phenyl)]bis(4-chloro- (9 C)
 C14-H9-Cl4
 M 310.22, SF 49.4 C
 Stable, inert
 TRANSFORMS: STABLE

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
216 Blubber		X	1	Not applicable	1.5 ppb wet wt	Shoot-vent lengths 655 mm, 6.2% lipid content Lake Michigan, Pilot Island SHARKS; MARLIN; BODY; PLOCCUMULATICS; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; DDT; LITHIUM; MERCURY; POLYCHLORINATED BIPHENYLS	Heintz, G.H. Hawthorne, S.D. Mall, R.J. Arybhaty, A.J. 1970 Bulletin of Environmental Contamination and Toxicology 25: 738-743

1,1'-Dichloro-2,2'-bis(4-chlorophenyl)- (9 C)
 Benzene, 1,1'-[dichlorobis(phenyl)]bis(4-chloro- (9 C)
 C14-H9-Cl4
 M 310.22, SF 49.4 C
 Stable, inert
 TRANSFORMS: STABLE

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
217 Blubber		X	41 12 33 6	a) Not given b) Not given	a) < 0.1 ppb b) < 0.5 ppb Dry wt	a) Adults (1.5 yr and older) b) Juveniles (0.5 yr) Retained Captured 1/78 near oil shale tracts before mining initiated. Colorado, Rio Blanco County, Piceance Creek Basin SHARKS; MARLIN; BODY; PLOCCUMULATICS; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; DDT; LITHIUM; MERCURY; POLYCHLORINATED BIPHENYLS	Stettin, --M. 1980 Journal of Wildlife Diseases 16(2): 175-182

Fluorine
7782-81-4
2
Atm 18.9584, BP -219.61 C, SP -108.13 C, VP 100 mm Hg at -203 C
Scum, Deer
EUBENTSCOS BAKICELATOS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
218 Bone		NAS	a) 45 b) 45 c) 45	a) 31-100 ppm b) 19-120 ppm c) 16-93 ppm Dry wt	a) 51.3 ± or - 17.4 ppm b) 56.3 ± or - 32.9 ppm c) 38.4 ± or - 22.9 ppm Dry wt	a) Pinyon-juniper habitat b) Mountain shrub habitat c) Big sagebrush habitat Captured 6/78 near oil shale tracts before mining initiated Shale skeleton. Colorado, Rio Blanco County, Piceance Creek Basin EYES: NICK; BONE: DEER; BONE: COPPER; FLUORIDE; MOLYBDENUM; CLOPADO; SCUM; KIDNEY; LIVER	Statler, L.H. 1980 Journal of Wildlife Diseases 16(2):175-182

Iodine
7553-54-2
2
Atm 126.9045, BP 113.40 C, SP 185.24 C, VP (solid) 0.03 mm Hg at 0 C, 3.105 mm Hg at 25 C, 2.154 mm Hg at 50 C, 26.78 mm Hg at 90 C
Cattle
ICS up.

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
219 Blood, serum	Ingestion		12	a) Not given b) Not given c) Not given	a) 8.9 ug/100 ml b) 31.2 ug/100 ml c) 276.4 ug/100 ml	a) Control diet b) 50 ug ethylenediamine dihydriodide/day for 4 wk c) 400 ug ethylenediamine dihydriodide/day for 4 wk Yearling Holstein steers, mean age 17 wks, mean wt 410 kg CATTLE; BLOOD SERUM; LIVER; MUSCLES; THYROID GLANDS; KIDNEY; IODINE; DISACCUMLATION	Deumer, J.V. Hosken, B.W. Fox, J.D. Bull, L.S. 1981 Journal of Animal Science 52(2):413-417
220 Liver	Ingestion		12	a) Not given b) Not given c) Not given	a) 0.093 ug/g b) 0.121 ug/g c) 0.781 ug/g Wet wt	a) Control diet b) 50 ug ethylenediamine dihydriodide/day for 4 wk c) 400 ug ethylenediamine dihydriodide/day for 4 wk Yearling Holstein steers, mean age 17 wks, mean wt 410 kg CATTLE; BLOOD SERUM; LIVER; MUSCLES; THYROID GLANDS; KIDNEY; IODINE; DISACCUMLATION	Deumer, J.V. Hosken, B.W. Fox, J.D. Bull, L.S. 1981 Journal of Animal Science 52(2):413-417
221 Spleen	Ingestion		12	a) Not given b) Not given c) Not given	a) 0.091 ug/g b) 0.127 ug/g c) 0.404 ug/g Wet wt	a) Control diet b) 50 ug ethylenediamine dihydriodide/day for 4 wk c) 400 ug ethylenediamine dihydriodide/day for 4 wk Significantly higher levels in lymph nodes and spleen than in lymph nodes and spleen Yearling Holstein steers, mean age 17 wks, mean wt 410 kg CATTLE; BLOOD SERUM; LIVER; MUSCLES; THYROID GLANDS; KIDNEY; IODINE; DISACCUMLATION	Deumer, J.V. Hosken, B.W. Fox, J.D. Bull, L.S. 1981 Journal of Animal Science 52(2):413-417

Iodine
T-13-56-2

LD₅₀ 126.9045, MP 113.60 C, BP 185.24 C, VP (solid) 0.03 mm Hg at 0 C, 0.305 mm Hg at 25 C, 2.154 mm Hg at 50 C, 26.76 mm Hg at 90 C
Cattle
BC3 sp.

(CONTINUED)

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
222 Thyroid gland	Ingestion		12	a) Not given b) Not given c) Not given	a) 837 ug/g b) 841 ug/g c) 867 ug/g wet wt	a) Control diet b) 50 ug ethylenediamine dihydride/day for 4 wk c) 400 ug ethylenediamine dihydride/day for 4 wk Yearling Holstein steers, mean age 17 wks, mean wt 410 kg CATTLE; BLOOD SERUM; LIVER; MUSCLES; THYROID GLANDS; KIDNEY; IODINE; BIOACCUMULATION	Douner, J.V. Mason, R.W. Fox, J.D. Bell, L.S. 1981 Journal of Animal Science 52(2):413-417

Iron
T-13-56-4

LD₅₀ 55.647, MP 1535 C (solid), 1000-1300 C (solid), 1500 C (solid), 1300 C (solid), BP 3000 C, VP 1 mm Hg at 1787 C, 10 mm Hg at 2040 C
Oyster
CRASSOSTREA VIRGINICA

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
223 body whole				a) 24.8-69.8 ug/g b) 16.2-29.8 ug/g c) 18.7-117.0 ug/g d) 17.1-99.5 ug/g e) 11.5-90.1 ug/g f) 12.0-65.0 ug/g g) 19.4-20.5 ug/g h) Not given i) Not given j) Not given k) 27.7-170.6 ug/g l) Not given Dry wt	a) 49.2 ± or - 18.7 ug/g b) 22.4 ± or - 6.8 ug/g c) 48.2 ± or - 28.8 ug/g d) 48.7 ± or - 32.2 ug/g e) 42.7 ± or - 22.0 ug/g f) 41.3 ± or - 26.9 ug/g g) 15.7 ± or - 5.5 ug/g h) 20.8 ± or - 0.6 ug/g i) 36.3 ± or - 18.8 ug/g j) 43.3 ± or - 2.4 ug/g k) 104.2 ± or - 65.5 ug/g l) 38.4 ± or - 1.9 ug/g Dry wt	a) Wando River, South, 6 samples b) Wando River, site 4, 4 samples c) Wando River, site 8, 30 samples d) Wando River, site 10, 7 samples e) Charleston Harbor, 8 samples f) North Santee Bay, 5 samples g) South Santee, 1 sample h) Fishing Creek, 2 samples i) Cape Roanoke, 2 samples j) St. Helena Sound, 2 samples k) Ashley River, 4 samples l) Bulle Bay, 2 samples 2 or more oysters/sample. Mean sample wt 12.26 g. South Carolina, coast CISTERS; SOUTH CAROLINA; BODY; CCFER; IRON; BIOACCUMULATION; WATER POLLUTION	Mathews, T.D. Boysse, J.V. Davis, R.A. Sims, D.H. 1979 Journal of Environmental Science and Health A7(8):683-690

1028
7439-89-5
34
Atm 55.847, BP 1535 C (pure), 1033-1500 C (cast), 1500 C (melt), 1500 C (melt), BP 3000 C, VP 1 on Hg at 1761 C, 10 on Hg at 2040 C
5000, note
CYCLOS OLCS

TEST ID	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	DOSE	NEAR	GENERAL INFORMATION	REFERENCE
224 Kidney	Ingestion	AAS	a) 17 b) 9	a) 470-2100 ug/g b) 940-1900 ug/g Dry wt	a) 1130 ug/g b) 1245 ug/g Dry wt	a) Poisoned swans b) Controls Dead or dying birds in heavily fished area, Central Nottingham. Average gizzard content, 11 fishing shots/bird. Controls, dead from other causes, East Midlands. United Kingdom, River Trent Abnormal carriage of neck, anorexia, jaundice, increased pigmentation of liver, grossly extended gallbladder, gizzard and proventriculus impaction, kidney abnormalities, adrenal gland enlargement, weight loss. LEADS; SWANS; UNITED KINGDOM; LEAD (GIZZARD); BONES; BRAIN; KIDNEYS; LIVER; SPLEEN; COPPER; IRON; LEAD; ZINC; BIOACCUMULATION	Simpson, V.B. Hunt, A.E. 1979 Environmental Pollution 10:187-202
225 Liver	Ingestion	AAS	a) 17 b) 9	a) 7000-23000 ug/g b) 1000-1900 ug/g Dry wt	a) 1280 ug/g b) 2425 ug/g Dry wt	a) Poisoned swans b) Controls Dead or dying birds in heavily fished area, Central Nottingham. Average gizzard content, 11 fishing shots/bird. Controls, dead from other causes, East Midlands. United Kingdom, River Trent Abnormal carriage of neck, anorexia, jaundice, increased pigmentation of liver, grossly extended gallbladder, gizzard and proventriculus impaction, kidney abnormalities, adrenal gland enlargement, weight loss. LEADS; SWANS; UNITED KINGDOM; LEAD (GIZZARD); BONES; BRAIN; KIDNEYS; LIVER; SPLEEN; COPPER; IRON; LEAD; ZINC; BIOACCUMULATION	Simpson, V.B. Hunt, A.E. 1979 Environmental Pollution 10:187-202

1041
7439-82-1
31
Atm 237.2, BP 327.4 C, BP 1740 C, VP 1.77 on Hg at 1000 C, 1 on Hg at 973 C, 10 on Hg at 1143 C
Antelope, Proterozoic
ANTICLINAL AMERICA

TEST ID	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	DOSE	NEAR	GENERAL INFORMATION	REFERENCE
226 Kidney		AAS	14	Not given	1.4 x 10 ⁻⁶ - 0.6 ug/g Dry wt	Age 10-25 yr, assumed healthy. Vegetation analysis indicates pristine area free from gross pollution. Montana, Northern Great Plains COPPER; ANTELOPE; MONTANA; KIDNEYS; LIVER; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MANGANESE; NITRATES; POLYBROMINE; NICKEL; ZINC	Runnaker, L.P. Hansen, D.J. 1979 Bulletin of Environmental Contamination and Toxicology 22:627-632

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Lead
74:9-92-1
AT 207.2, BP 1740 C, VP 1.77 mg Hg at 1000 C, 1 mg Hg at 970 C, 10 mg Hg at 1160 C
Bak, Illinois State
BIOCHEMICAL

TEST	BIOPROBE NOTE	ANALYTICAL METHOD	SUPPLY OF CASES	DATE	ANALYSIS	REFERENCE
230 Body, whole		ALS	12	11-29 pps wet wt	16.97 pps wet wt biometric mean	Clark, D.B., Jr. 1976 Environmental Science and Technology 11(3)1326-341
231 Fetal		ALS		Not given	2.36 pps wet wt	Clark, D.B., Jr. 1976 Environmental Science and Technology 11(3)1326-341

Lead
74:9-92-1
AT 207.2, BP 1740 C, VP 1.77 mg Hg at 1000 C, 1 mg Hg at 970 C, 10 mg Hg at 1160 C
Bak, Illinois State
BIOCHEMICAL

TEST	BIOPROBE NOTE	ANALYTICAL METHOD	SUPPLY OF CASES	DATE	ANALYSIS	REFERENCE
232 Body, whole		ALS	61	2.4 44/4	Not given	Wilkout, W.B. 1976 Environmental Science and Technology 11(3)1326-341

[illegible]

Lead
7429-92-1
SL
AIR 207.2, BP 327.4 C, SP 1740 C, VP 1.77 mm Hg at 1000 C, 1 mm Hg at 573 C, 10 mm Hg at 1160 C
Cattle
SCS sp.

(CONTINUED)

TOXIN	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
236 Bone	Ingestion	AAS	a) 3 b) 3	a) Not given b) Not given	a) 5.0 ± or - 0.2 ppm b) 7.2 ± or - 0.6 ppm Dry wt	a) Control diet b) Diet of 12% high Cd sewage sludge, 106 days Significant increase ($P < .05$) in sludge-fed steers Hereford yearlings, mean wt 336 kg. Slaughtered at 460 kg mean live wt. CATTLE; SLUDGES; COLORADO; SCHEES; BRAIN; KIDNEYS; LIVER; LUNGS; MUSCLES; SPLEEN; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MERCURY	Johnson, D.E. Kienholz, E.V. Baxter, J.C. Spangler, E. Ward, G.H. 1981 Journal of Animal Science 52(1):108-114
237 Brain	Ingestion	AAS	a) 3 b) 3	a) Not given b) Not given	a) < 0.01 ppm b) 0.24 ± or - 0.27 ppm Dry wt	a) Control diet b) Diet of 12% high Cd sewage sludge, 106 days Significant increase ($P < .01$) in sludge-fed steers Hereford yearlings, mean wt 336 kg. Slaughtered at 460 kg mean live wt. CATTLE; SLUDGES; COLORADO; SCHEES; BRAIN; KIDNEYS; LIVER; LUNGS; MUSCLES; SPLEEN; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MERCURY	Johnson, D.E. Kienholz, E.V. Baxter, J.C. Spangler, E. Ward, G.H. 1981 Journal of Animal Science 52(1):108-114
238 Kidney		AAS	100	Not detected - 2.23 ppm wet wt	0.22 ± or - 0.29 ppm wet wt	Samples from 8 widely separated regions. Significant differences between regions and within the same region. Australia, New South Wales CATTLE; ARSENIC; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; MANGANESE; MERCURY; MOLYBDENUM; NICKEL; SILICON; ZINC; AUSTRALIA; KIDNEYS; LIVER	Fianich, J. Lee, N.Y. 1979 Journal of the Science of Food and Agriculture 30:503-507
239 Kidney	Ingestion	AAS	1	a) Not applicable b) Not applicable	a) 60 ppm b) 240 ppm Wet wt	a) Medulla b) Cortex Hereford calf fed sugar beet screenings from refinery which contained 1% acetate impregnated filter papers. Blindness, incoordination, muscle twitching, excitement, prostration, coma. Edema of cerebral cortex, petechiae in the leptomeninges, fibrous adhesions of pleural surfaces, pneumonia. CATTLE; JUVENILES; COLORADO; ADULTS; AUTOPSES; LEAD POISONING; PNEUMONIC DISEASES; BLOOD; KIDNEYS; LIVER; BIOACCUMULATION; LEAD ORGANIC COMPOUNDS	Masur, D.V. Gerlach, H.L. McChesney, A.E. Auerhede, V.N. 1960 Bovine Practice 1(5):49-50

(NEXT PAGE)

Lead
7429-92-1
Sh
At 207.2, MP 327.4 C, BP 1740 C, VP 1.77 mm Hg at 1000 C, 1 mm Hg at 970 C, 10 mm Hg at 1160 C
Cattle
EC5 sp.

(CONTINUED)

ISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	DIET	MEAN	GENERAL INFORMATION	REFERENCE
240 Kidney	Ingestion	AAS	a) 3 b) 3	a) Not given b) Not given	a) 0.95 ± or - 0.09 ppm b) 10.8 ± or - 0.9 ppm Dry wt	a) Control diet b) Diet of 12% high Cd sewage sludge, 106 days significant increase (P < .01) in sludge-fed steers Hereford yearlings, mean wt 336 kg, slaughtered at 460 kg mean live wt. CATTLE; SLODDER; COLORADO; BONES; BRAIN; KIDNEYS; LIVER; LUNGS; MUSCLES; SPLEEN; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MERCURY	Johansen, D.E. Kinschols, E.V. Barker, J.C. Spangler, W. Ward, G.H. 1981 Journal of Animal Science 52(1):108-114
241 Kidney			a) 35 b) Not given	a) 0.4-6.8 ug/kg wet wt b) Not given	a) 1.20 ug/kg b) 0.34 ug/kg wet wt Median	a) Cattle grazing near abandoned Pb mine b) Controls from non-industrial, low-traffic area (data from previous publication) 2 yr olds Germany, Bifel area CATTLE; LEAD 210; POLONIUM 210; GERMANY; KIDNEYS; LIVER; COMPARATIVE EVALUATIONS; LEAD; BIOACCUMULATION; RISING; RADIOISOTOPES	Bunzl, K. Kraack, W. 1980 Food and Cosmetics Toxicology 18:133-137
242 Kidney	Ingestion	AAS	a) 4 b) 4	a) Not given b) Not given	a) 0.23 ppm b) 0.50 ppm Wet wt	a) Pasture fertilized with treated raffinate b) Control Grazing 6 on plots treated with raffinate .00 lb N/acre) or commercial fertilizer (100 lb N/acre). Applied 5/79 and 7/79 Black, white-faced calves, mean pre-test wt 337 lb, mean post-test wt 465 lb. No pathological changes CATTLE; RAFFINATE; RADIUM 226; RADIUM 230; ARSENIC; CADMIUM; COPPER; LEAD; MOLYBDENUM; NICKEL; OSANIUM; ZINC; BIOACCUMULATION; DIAMONIA; BICOD; BLOOD SERUM; KIDNEYS; LIVER; MUSCLES	Edwards, W.C. Dooley, A.L. 1980 Veterinary and Human Toxicology 22(5):309-311
243 Liver		AAS	190	0.05-0.85 ppm wet wt	0.14 ± or - 0.15 ppm wet wt	Samples from 8 widely separated regions. Significant differences between regions and within the same region. Australia, New South Wales CATTLE; ARSENIC; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; MANGANESE; MERCURY; MOLYBDENUM; NICKEL; SILICON; ZINC; AUSTRALIA; KIDNEYS; LIVER	Flanjan, J. Lee, W. 1979 Journal of the Science of Food and Agriculture 30:503-507

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Lead
7429-92-1
E
ATM 207.2, BF 327.4 C, SP 1740 C, VP 1.77 mm Hg at 1000 C, 1 mm Hg at 970 C, 10 mm Hg at 1160 C
Cattle
ECS sp.

(CONTINUED)

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
244 Liver	Ingestion	AAS	1	Not applicable	10 ppm wet wt	Hereford calf fed sugar beet screenings from refinery which contained lead acetate impregnated filter papers. Blindness, incoordination, muscle twitching, excitement, prostration, coma. Edema of cerebral cortex, petechiae in the leptomeninges, fibrous adhesions of pleural surfaces, pneumonia. CATTLE; JUVENILES; COLORADO; ADULTS; AUTOPHAGY; LEAD POISONING; HEMORRHAGIC DISEASES; BLOOD; KIDNEY; LIVER; BIOACCUMULATION; LEAD; ORGANIC COMPOUNDS	Harar, D.V. Gerlach, H.L. McChesney, A.E. Aufderheide, W.R. 1950 Bovine Practice 1(5):49-50
245 Liver	Ingestion	AAS	a) 3 b) 3	a) Not given b) Not given	a) 0.31 ± or - 0.02 ppm b) 4.33 ± or - 0.53 ppm Dry wt	a) Control diet b) Diet of 12% high Cd sewage sludge, 100 days Significant increase (P < .05) in sludge-fed steers hereford yearlings, mean wt 336 kg. Slaughtered at 460 kg mean live wt. CATTLE; SLURGES; COLORADO; SCHELS; LEAD; KIDNEY; LIVER; LUNGS; MUSCLES; SPLEEN; BIOACCUMULATION; KIDNEY; COPPER; LEAD; MERCURY	Johnson, D.E. Kienholz, F.W. Baxter, J.C. Spanier, I. Herd, G.H. 1961 Journal of Animal Science 22(1):100-114
246 Liver			a) 3 b) Not given	a) 0.1-0.2 mg/kg wet wt b) Not given	a) 0.58 mg/kg b) 0.14 mg/kg Wet wt No data	a) Cattle grazing near abandoned Pb mine b) Controls from non-industrial, low-traffic areas (data from previous publication) 2 yr old Colorado, life area CATTLE; LEAD 210; POLONIUM 210; GERMANY; KIDNEY; LIVER; COMPARATIVE EVALUATIONS; LEAD; BIOACCUMULATION; BLOOD; BACTERIOLOGICAL	Buell, K. Frantz, W. 1960 Food and Cosmetic Toxicology 10:133-137
247 Liver	Ingestion	AAS	a) 4 b) 4	a) Not given b) Not given	a) 0.065 ppm b) 0.54 ppm Wet wt	a) Pastures fertilized with treated raffinate b) Controls Grazing 4 ac on plots treated with raffinate (100 lb/acre) or commercial fertilizer (100 lb/acre). Applied 5/79 and 7/79 Black, white-faced calves, mean pre-test wt 337 lb, mean post-test wt 475 lb. No pathological changes CATTLE; RAFFINATE; BLOOD 226; BLOOD 230; ARSENIC; CADMIUM; COPPER; LEAD; MOLTENURE; MERCURY; BLOOD; BLOOD; BIOACCUMULATION; KIDNEY; LIVER; MUSCLES	Edwards, D.C. Dooley, A.L. 1960 Veterinary and Human Toxicology 22(5):304-311

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Lead
7010-92-1

12
At 207.2, HP 127.4 C, BP 1740 C, VE 1.7" on Hg at 10.0 C, 1 on Hg at 970 C, 10 on Hg at 1140 C
Cattle
FCS up.

(CONTINUED)

TEST	DEPOSITOR ROUTE	ANALYTICAL METHOD	NUMBER OF CATTLE	DIET	READ	GENERAL INFORMATION	REFERENCE
149 lung	Ingestion	AAS	a) 1 b) 1	a) Not given b) Not given	a) 0.10 ± or - 0.01 ppm b) 0.23 ± or - 0.04 ppm Dry wt	a) Control diet b) Diet of 12% high Cd sewage sludge, 106 days Hereford yearlings, mean wt 336 kg, slaughtered at 460 kg mean live wt. CATTLE; SLUDGES; COLORADO; BONES; BRAIN; KIDNEYS; LIVER; LUNGS; MUSCLES; SPLEEN; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MERCURY	Johnson, D.E. Kienholz, E.V. Baxter, J.C. Spangler, E. Vard, G.N. 1981 Journal of Animal Science 52(1):108-114
249 Spleen	Ingestion	AAS	a) 1 b) 1	a) Not given b) Not given	a) < 0.31 ppm b) < 3.01 ppm Dry wt	a) Control diet b) Diet of 12% high Cd sewage sludge, 106 days Hereford yearlings, mean wt 336 kg, slaughtered at 460 kg mean live wt. CATTLE; SLUDGES; COLORADO; BONES; BRAIN; KIDNEYS; LIVER; LUNGS; MUSCLES; SPLEEN; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MERCURY	Johnson, D.E. Kienholz, E.V. Baxter, J.C. Spangler, E. Vard, G.N. 1981 Journal of Animal Science 52(1):108-114
250 Spleen	Ingestion	AAS	a) 4 b) 4	a) Not given b) Not given	a) < 0.52 ppm b) 0.14 ppm wet wt	a) Pastures fertilized with treated raffinate b) Controls Grass 6 kg on plots treated with raffinate (100 lb N/more) or commercial fertilizer (100 lb N/more). Applied 5/79 and 7/79 Black, white-faced calves, mean pre-test wt 337 lb, mean post-test wt 465 lb. No pathological changes CATTLE; RAFFINATE; RADIUM 226; TROMBON 230; ARSENIC; CADMIUM; COPPER; LEAD; MOLYBDENUM; NICKEL; ZINC; BIOACCUMULATION; COPPER; BLOOD; BLOOD SERUM; KIDNEYS; LIVER; MUSCLES	Edwards, W.C. Dooley, L.L. 1980 Veterinary and Human Toxicology 22(5):309-311
251 Spleen	Ingestion	AAS	a) 1 b) 1	a) Not given b) Not given	a) 0.21 ± or - 0.01 ppm b) 1.77 ± or - 1.1 ppm Dry wt	a) Control diet b) Diet of 12% high Cd sewage sludge, 106 days Significant increase (P < .05) in sludge-fed steers Hereford yearlings, mean wt 336 kg, slaughtered at 460 kg mean live wt. CATTLE; SLUDGES; COLORADO; BONES; BRAIN; KIDNEYS; LIVER; LUNGS; MUSCLES; SPLEEN; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MERCURY	Johnson, D.E. Kienholz, E.V. Baxter, J.C. Spangler, E. Vard, G.N. 1981 Journal of Animal Science 52(1):108-114

Lead
7439-92-1
Pb
ATR 207.2, BP 327.4 C, BP 1740 C, VP 1.77 mm Hg at 1000 C, 1 mm Hg at 970 C, 1/2 mm Hg at 1160 C
Craggie, black
SCHOLIS BIGHORACULATES

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
252 Body, whole		AAS	26	Not given	1.3 ug/g	Fishes, mean length 109 mm, mean dry wt 10.09 g, collected downstream of flood control weir at Algonquin. No major industrial effluents, metal input mainly from sewage treatment plants and recreational boating. No concentration change with increasing fish wt. Illinois, Fox River ILLINOIS; BODY; BIOACCUMULATION; FISHES; WATER POLLUTION; CADMIUM; COPPER; LEAD; METALS; ZINC	Vinikour, V.S. Goldstein, R.H. Anderson, A.V. 1980 Bulletin of Environmental Contamination and Toxicology 24:727-734

Lead
7439-92-1
Pb
ATR 207.2, BP 327.4 C, BP 1740 C, VP 1.77 mm Hg at 1000 C, 1 mm Hg at 970 C, 1/2 mm Hg at 1160 C
Coat, white
COCOAILBES BENIGNEUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
253 Kidney		AAS	21	Not given	0.7 ± or - 0.4 ug/g dry wt	Ages < 10-85 mo, assumed to be healthy. Vegetation analysis indicates pristine area free from gross pollution. Montana, Northern Great Plains FISH; ARIZONA; MONTANA; KIDNEYS; LIVER; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MANGANESE; METALS; POLYBROMINE; SILICON; ZINC	Rumshover, F.F. Weisman, D.B. 1979 Bulletin of Environmental Contamination and Toxicology 22:827-832
254 Liver		AAS	27	Not given	0.9 ± or - 0.7 ug/g dry wt	Ages < 10-85 mo, assumed healthy. Vegetation analysis indicates pristine area free from gross pollution. Montana, Northern Great Plains FISH; ARIZONA; MONTANA; KIDNEYS; LIVER; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MANGANESE; METALS; POLYBROMINE; SILICON; ZINC	Rumshover, F.F. Weisman, D.B. 1979 Bulletin of Environmental Contamination and Toxicology 22:827-832

lead
7020-92-1
It
At 207.2, MP 327.4 C, BP 1740 C, VP 1.77 mm Hg at 1000 C, 1 mm Hg at 970 C, 10 mm Hg at 1140 C
Fish

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
255 Kidney		AAS	17	0.10-0.42 ug/g wet wt	0.19 ug/g wet wt	Composite samples of MUGILIDAE, COPLIDAE, MULLIDAE, SPARIDAE, SCORPAENIDAE, TRIGLIDAE, PLEUROCENTRIDAE, ANGUILLIDAE, and Gobiidae (marketed as "mixed fried fish") Maximum length 10 cm Italy, Tuscan coasts LEAD; MERCURY; BIOACCUMULATION; FISHES; WATER POLLUTION; KIDNEYS; LIVER; MUSCLES; ITALY	Buggiani, S.S. Vannucchi, C. 1980 Bulletin of Environmental Contamination and Toxicology 25:90-92
256 Liver		AAS	17	0.10-0.41 ug/g wet wt	0.18 ug/g wet wt	Composite samples of MUGILIDAE, COPLIDAE, MULLIDAE, SPARIDAE, SCORPAENIDAE, TRIGLIDAE, PLEUROCENTRIDAE, ANGUILLIDAE, and Gobiidae (marketed as "mixed fried fish") Maximum length 10 cm Italy, Tuscan coasts LEAD; MERCURY; BIOACCUMULATION; FISHES; WATER POLLUTION; KIDNEYS; LIVER; MUSCLES; ITALY	Buggiani, S.S. Vannucchi, C. 1980 Bulletin of Environmental Contamination and Toxicology 25:90-92
257 Muscle		AAS	15	0.10-0.52 ug/g wet wt	0.23 ug/g wet wt	Composite samples of MUGILIDAE, COPLIDAE, MULLIDAE, SPARIDAE, SCORPAENIDAE, TRIGLIDAE, PLEUROCENTRIDAE, ANGUILLIDAE, and Gobiidae (marketed as "mixed fried fish") Maximum length 10 cm Italy, Tuscan coasts LEAD; MERCURY; BIOACCUMULATION; FISHES; WATER POLLUTION; KIDNEYS; LIVER; MUSCLES; ITALY	Buggiani, S.S. Vannucchi, C. 1980 Bulletin of Environmental Contamination and Toxicology 25:90-92

171

lead
7020-92-1
It
At 207.2, MP 327.4 C, BP 1740 C, VP 1.77 mm Hg at 1000 C, 1 mm Hg at 970 C, 10 mm Hg at 1140 C
Ground, tuffed
CHASSA 29511101

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
258 Feathers		AAS	130	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 7.5 ± or - 2.7 ug/g b) 8.8 ± or - 2.7 ug/g c) 5.7 ± or - 2.8 ug/g d) 1.5 ± or - 0.5 ug/g e) 5.2 ± or - 2.3 ug/g f) 0.3 ± or - 3.5 ug/g Dry wt	a) 77 adults b) 53 juveniles c) 88 males d) 42 females e) 82 birds, 1977-78 harvest f) 47 birds, 1978-79 harvest Wing and tail feathers Birds shot by hunters in remote forest area. Virginia (NV) BIRDS; FEATHERS; JUVENILES; CADMIUM; COPPER; LEAD; NICKEL; SILVER; ZINC; VIRGINIA; ADULTS	Scanlon, P.P. Odervald, R.G. Dietrich, T.J. Coggins, J.L. 1980 Bulletin of Environmental Contamination and Toxicology 25:987-989

Lead
7439-92-1
It
Atm 207.2, BP 327.4 C, SP 1740 C, PP 1.77 mg Hg at 1000 C, 1 mg Hg at 970 C, 10 mg Hg at 1160 C
Poaceae, white-footed
Eriophorum leucopod

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	VALUES	YEAR	GENERAL INFORMATION	REFERENCE
259 Body, whole		AAS	a) 5 b) 14	a) 0.32-13 ppa b) 0.30-41 ppa Wet wt	a) 1.16 ppa b) 4.91 ppa Wet wt Geometric mean	a) Montpelier Barn, 0.61 km NW of Baltimore-Washington Parkway b) Baltimore-Washington Parkway Gastrointestinal tract and large embryos reserved before analysis Trapped 5-6/76. Maryland, Prince Georges County, Laurel VEGET: NICK; SHEDS; RODENTS; BATS; BUTLAND; ADULTS; FISH; BODT; AUTOMOTIVE; AIR POLLUTION; BIOACCUMULATION; LEAD	Clark, D.B., Jr. 1979 Environmental Science and Technology 13(3):338-341
260 Fetal				Not given	0.11 ppa wet wt	Litter from mother trapped near Baltimore-Washington Parkway 4-6/76. Maryland, Prince Georges County, Laurel VEGET: NICK; SHEDS; RODENTS; BATS; BUTLAND; ADULTS; FISH; BODT; AUTOMOTIVE; AIR POLLUTION; BIOACCUMULATION; LEAD	Clark, D.B., Jr. 1979 Environmental Science and Technology 13(3):338-341

Lead
7439-92-1
It
Atm 207.2, BP 327.4 C, SP 1740 C, PP 1.77 mg Hg at 1000 C, 1 mg Hg at 970 C, 10 mg Hg at 1160 C
Berch, yellow
ERICA FLAVESCENS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	VALUES	YEAR	GENERAL INFORMATION	REFERENCE
261 Body, whole		AAS	40	Not given	2.2 ug/g	Fishes, mean length 100 mm, mean dry wt 11.22 g, collected downstream of flood control weir at Algonquin. No major industrial effluents, total input mainly from sewage treatment plants and recreational boating. No concentration change with increasing fish wt. Illinois, Fox River ILLINOIS; BODT; BIOACCUMULATION; FISHES; WATER POLLUTION; CADMIUM; COPPER; LEAD; METALS; ZINC	Vinikour, V.S. Goldstein, B.H. Anderson, R.V. 1980 Bulletin of Environmental Contamination and Toxicology 24:727-734

Lead
7839-92-1
Ft
Atm 207.2, SP 327.4 C, BP 1740 C, VP 1.77 mm Hg at 1000 C, 1 mm Hg at 970 C, 10 mm Hg at 1160 C
Stren, short-tailed
PLATINA BRIVICAUDA

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	NEAR	GENERAL INFORMATION	REFERENCE
262 Body, whole		AAS	a) 4 b) 6	a) 0.23-8.0 ppm b) 6.2-130 ppm Wet wt	a) 1.85 ppm b) 26.20 ppm Wet wt Geometric mean	a) Montpellier Park, 0.61 km NW of Baltimore-Washington Parkway b) Baltimore-Washington Parkway Gastrointestinal tract and large excretory removed before analysis. Killed 5-6/76. Maryland, Prince Georges County, 19801 VCIES; WICS; SHREWS; RODENTS; BATS; BAPTIST; ACULTS; PETS; BOD; AUTOMOTIVE; AIR POLLUTION; BIOACCUMULATION; LEAD	Clark, D.S., Jr. 1979 Environmental Science and Technology 13(3):138-141

Lead
7839-92-1
Ft
Atm 207.2, SP 327.4 C, BP 1740 C, VP 1.77 mm Hg at 1000 C, 1 mm Hg at 970 C, 10 mm Hg at 1160 C
Swan, mute
CYGNUS OLOR

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	NEAR	GENERAL INFORMATION	REFERENCE
263 Adrenal gland	Ingestion	AAS	2	16-29 ug/g dry wt	23 ug/g dry wt	Poisoned swans, dead or dying, in heavily fished area, central Nottingham. Average gizzard content, 11 fishing shots/bird. United Kingdom, River Trent Abnormal carriage of neck, anorexia, parosmia, increased pigmentation of liver, grossly extended gallbladder, gizzard and proventriculus inspaction, kidney abscessation, adrenal gland enlargement, weight loss. TISSUE; SWANS; UNITED KINGDOM; LEAD POISONING; BONES; BRAIN; KIDNEYS; LIVER; SPLEEN; COPPER; IRON; LEAD; ZINC; BIOACCUMULATION	Simpson, V.R. Hunt, A.E. 1979 Environmental Pollution 10:187-202
264 Blood	Ingestion	AAS	a) 25 b) 29	a) Not detected-3290 ug/100 ul b) 3-132 ug/100 ul	a) 375 ug/100 ul b) 21.9 ug/100 ul	a) Affected herd in heavily fished area, Nottingham b) Normal herd, Burton-on-Trent United Kingdom, River Trent Changes in erythrocytes, reduction of cell volume and hemoglobin concentrations. TISSUE; SWANS; UNITED KINGDOM; LEAD POISONING; BONES; BRAIN; KIDNEYS; LIVER; SPLEEN; COPPER; IRON; LEAD; ZINC; BIOACCUMULATION	Simpson, V.R. Hunt, A.E. 1979 Environmental Pollution 10:187-202

(NEXT PAGE)

Lead
7429-92-1
Pb
Atm 207.2, HP 327.4 C, BP 1740 C, VP 1.77 mm Hg at 1000 C, 1 mm Hg at 970 C, 10 mm Hg at 1160 C
Swan, mute
CYGNUM OLOX

(CONTINUED)

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	TEAN	GENERAL INFORMATION	REFERENCE
265 Pome	Ingestion	AAS	a) 4 b) 2	a) 212-1255 ug/g b) 21-41 ug/g Dry wt	a) 762 ug/g b) 32 ug/g Dry wt	a) Poisoned swans b) Controls Dead or dying birds in heavily fished area, central Nottingham. Average gizzard content, 11 fishing shots/bird. Controls, dead from other causes, East Midlands. United Kingdom, River Trent Abnormal carriage of neck, anorexia, paresis, increased pigmentation of liver, grossly extended gallbladder, gizzard and proventriculus impaction, kidney abnormalities, adrenal gland enlargement, weight loss. TISSUE: SWANS; UNITED KINGDOM; LEAD POISONING; SCHEP; BRAIN; KIDNEYS; LIVER; SPLEEN; COPPER; IRON; LEAD; ZINC; BIOACCUMULATION	Simpson, V.B. Hunt, A.E. 1979 Environmental Pollution 18:187-202
266 Brain	Ingestion	AAS	a) 5 b) 1	a) 26-150 ug/g b) Not given Dry wt	a) 65 ug/g b) 59 ug/g	a) Poisoned swans b) Controls Dead or dying birds in heavily fished area, central Nottingham. Average gizzard content, 11 fishing shots/bird. Controls, dead from other causes, East Midlands. United Kingdom, River Trent Abnormal carriage of neck, anorexia, paresis, increased pigmentation of liver, grossly extended gallbladder, gizzard and proventriculus impaction, kidney abnormalities, adrenal gland enlargement, weight loss. TISSUE: SWANS; UNITED KINGDOM; LEAD POISONING; SCHEP; BRAIN; KIDNEYS; LIVER; SPLEEN; COPPER; IRON; LEAD; ZINC; BIOACCUMULATION	Simpson, V.B. Hunt, A.E. 1979 Environmental Pollution 18:187-202
267 Kidney	Ingestion	AAS	a) 18 b) 16	a) 350-6550 ug/g b) 1-77 ug/g Dry wt	a) 1734 ug/g b) 16 ug/g Dry wt	a) Poisoned swans b) Controls Dead or dying birds in heavily fished area, central Nottingham. Average gizzard content, 11 fishing shots/bird. Controls, dead from other causes, East Midlands. United Kingdom, River Trent Abnormal carriage of neck, anorexia, paresis, increased pigmentation of liver, grossly extended gallbladder, gizzard and proventriculus impaction, kidney abnormalities, adrenal gland enlargement, weight loss. TISSUE: SWANS; UNITED KINGDOM; LEAD POISONING; SCHEP; BRAIN; KIDNEYS; LIVER; SPLEEN; COPPER; IRON; LEAD; ZINC; BIOACCUMULATION	Simpson, V.B. Hunt, A.E. 1979 Environmental Pollution 18:187-202

(NEXT PAGE)

Lead
7030-92-1
P3
Att 207.2, Rf 327.4 C, Sp 1740 C, YP 1.77 aa Hg at 1000 C, 1 aa Hg at 470 C, 10 aa Hg at 1160 C
Swan, ante
CYGNS OLON

(CONTINUED)

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
268 Liver	Ingestion	AAS	a) 10 b) 11	a) 51-206 ug/g b) 1-11 ug/g Dry wt	a) 117 ug/g b) 3.5 ug/g Dry wt	a) Poisoned swans b) Controls Dead or dying birds in heavily fished area, central Nottingham. Average gizzard content, 11 fishing shots/bird. Controls, dead from other causes, East Midlands. United Kingdom, River Trent Abnormal carriage of neck, anorexia, jaundice, increased pigmentation of liver, grossly extended gallbladder, gizzard and proventriculus impaction, kidney abnormalities, adrenal gland enlargement, weight loss. TIDES; SWANS; UNITED KINGDOM; LEAD (CISOLINE); PCNBS; SMITH; KIDNEYS; LIVER; SPLLEN; COPPER; IRON; LEAD; ZINC; BIOACCUMULATION	Slipson, V.B. Hunt, A.E. 1979 Environmental Pollution 10:107-202
269 Spleen	Ingestion	AAS	a) 12 b) 0	a) 27-117 ug/g b) 1-21 ug/g Dry wt	a) 67 ug/g b) 0.7 ug/g Dry wt	a) Poisoned swans b) Controls Dead or dying birds in heavily fished area, central Nottingham. Average gizzard content, 11 fishing shots/bird. Controls, dead from other causes, East Midlands. United Kingdom, River Trent Abnormal carriage of neck, anorexia, jaundice, increased pigmentation of liver, grossly extended gallbladder, gizzard and proventriculus impaction, kidney abnormalities, adrenal gland enlargement, weight loss. TIDES; SWANS; UNITED KINGDOM; LEAD (CISOLINE); PCNBS; SMITH; KIDNEYS; LIVER; SPLLEN; COPPER; IRON; LEAD; ZINC; BIOACCUMULATION	Slipson, V.B. Hunt, A.E. 1979 Environmental Pollution 10:107-202

Lead
7819-92-1
32
LD₅₀ 207.2, BP 327.4 C, BP 1743 C, VP 1.77 aa Hg at 1000 C, 1 aa Hg at 973 C, 10 aa Hg at 1160 C
Solub
SBS sp.

77552	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	DOSE	DIAGN	GENERAL INFORMATION	REFERENCE
270 blood	Ingestion		1	Not applicable	0.025 ppm vet vt	<p>Iron group of growing Yorkshire crossbreeds (wt 35-55 kg) fed improperly compounded feed containing 700 ppm CuSO₄ as growth promoter. Estimated death losses, 400 of 2000 pigs during 10.5 mo.</p> <p>Georgia (H)</p> <p>Chronic Cu toxicosis manifested as Fe deficiency anemia, anorexia, weight loss, melena, weakness, pallor.</p> <p>Discolored liver, hepatic centrilobular necrosis, ulcers of gastric cardia, pale nodules, watery blood, reddened bone marrow, splenic myeloid metaplasia.</p> <p>SWINE; GEORGIA; ORAL POISONING; BLOOD; BLOOD PLASMA; FECSH; KIDNEYS; LIVER; ARSENIC; COPPER; LEAD; BIOACCUMULATION; FOOD ADDITIVES</p>	<p>Watch, R.C. Blair, J.L. Rahaffay, E.A. Jain, A.V. Sullivan, R.E. 1979 Journal of the American Veterinary Medical Association 174(6):616-619</p>
271 kidney	Ingestion		2	0.5-5.0 ppm vet vt	2.8 ppm vet vt	<p>Iron group of growing Yorkshire crossbreeds (wt 35-55 kg) fed improperly compounded feed containing 700 ppm CuSO₄ as growth promoter. Estimated death losses, 400 of 2000 pigs during 10.5 mo.</p> <p>Georgia (H)</p> <p>Chronic Cu toxicosis manifested as Fe deficiency anemia, anorexia, weight loss, melena, weakness, pallor.</p> <p>Discolored liver, hepatic centrilobular necrosis, ulcers of gastric cardia, pale nodules, watery blood, reddened bone marrow, splenic myeloid metaplasia.</p> <p>SWINE; GEORGIA; ORAL POISONING; BLOOD; BLOOD PLASMA; FECSH; KIDNEYS; LIVER; ARSENIC; COPPER; LEAD; BIOACCUMULATION; FOOD ADDITIVES</p>	<p>Watch, R.C. Blair, J.L. Rahaffay, E.A. Jain, A.V. Sullivan, R.E. 1979 Journal of the American Veterinary Medical Association 174(6):616-619</p>
272 liver	Ingestion		1	Not applicable	0.5 ppm vet vt	<p>Iron group of growing Yorkshire crossbreeds (wt 35-55 kg) fed improperly compounded feed containing 700 ppm CuSO₄ as growth promoter. Estimated death losses, 400 of 2000 pigs during 10.5 mo.</p> <p>Georgia (H)</p> <p>Chronic Cu toxicosis manifested as Fe deficiency anemia, anorexia, weight loss, melena, weakness, pallor.</p> <p>Discolored liver, hepatic centrilobular necrosis, ulcers of gastric cardia, pale nodules, watery blood, reddened bone marrow, splenic myeloid metaplasia.</p> <p>SWINE; GEORGIA; ORAL POISONING; BLOOD; BLOOD PLASMA; FECSH; KIDNEYS; LIVER; ARSENIC; COPPER; LEAD; BIOACCUMULATION; FOOD ADDITIVES</p>	<p>Watch, R.C. Blair, J.L. Rahaffay, E.A. Jain, A.V. Sullivan, R.E. 1979 Journal of the American Veterinary Medical Association 174(6):616-619</p>

Lead
7439-92-1
It
Atm 207.2, BP 327.4 C, BP 1740 C, MP 1.77 mg Hg at 1000 C, 1 mg Hg at 970 C, 10 mg Hg at 1160 C
Vcln, monodon
PICBOTIS PRUNSTYLVANICUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	SAMPLE	ANAL	GENERAL INFORMATION	REFERENCE
273 Body, whole		AAS	a) 6 b) 20	a) 0.46-1.4 ppm b) 0.22-5.3 ppm Vet wt	a) 0.84 ppm b) 1.45 ppm Vet wt Jaccotic organ	a) Montpelier Barn, 0.61 ha NW of Baltimore-Washington Parkway b) Baltimore-Washington Parkway Gastrointestinal tract and large embryos removed before analysis Trapped 4-6/76. Maryland, Prince Georges County, Laurel VCLES; NICS; SNEBS; ROBERTS; BATS; PARTIAL; ADULTS; PETS; BOST; AUTOMOTIVE; AIR POLLUTION; STOCCUMULATION; LEAD	Clark, D.B., Jr. 1979 Environmental Science and Technology 13(3):328-341
274 Fetal		AAS		a) Not given b) Not given	a) 0.11 ppm b) 0.17 ppm Vet wt	a) Litter of mothers trapped in Montpelier Barn, 0.61 ha NW of Baltimore-Washington Parkway b) Litter of mothers trapped near Baltimore-Washington Parkway 4-6/76. Maryland, Prince Georges County, Laurel VCLES; NICS; SNEBS; ROBERTS; BATS; PARTIAL; ADULTS; PETS; BOST; AUTOMOTIVE; AIR POLLUTION; STOCCUMULATION; LEAD	Clark, D.B., Jr. 1979 Environmental Science and Technology 13(3):328-341

177

Lead
7439-92-1
It
Atm 207.2, BP 327.4 C, BP 1740 C, MP 1.77 mg Hg at 1000 C, 1 mg Hg at 970 C, 10 mg Hg at 1160 C
Vulture, king
SARCOBRYANUS PAPA

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	SAMPLE	ANAL	GENERAL INFORMATION	REFERENCE
275 Kidney	Ingestion	AAS	a) 1 b) 1	a) Not given b) Not given	a) 70.6 ppm b) 24.6 ppm Vet wt	a) Had 13 lead shot in stomach b) Had 3 lead shot in stomach Adult birds at a zoo. Stasis, anorexia. Distended gall bladder, hemorrhoids, biliary pigment in tubular epithelium of kidneys. VICOSISM; AUTOPHISM; LEAD POISONING; KIDNEY; LIVER; LEAD; STOCCUMULATION; BIRDS	Decker, B.A. Huber, L.H. Pridmore, J.V. 1979 Journal of the American Veterinary Medical Association 175:1049
276 Liver	Ingestion	AAS	a) 1 b) 1	a) Not given b) Not given	a) 62.6 ppm b) 6.6 ppm Vet wt	a) Had 13 lead shot in stomach b) Had 3 lead shot in stomach Adult birds at a zoo. Stasis, anorexia. Distended gall bladder, hemorrhoids, biliary pigment in tubular epithelium of kidneys. VICOSISM; AUTOPHISM; LEAD POISONING; KIDNEY; LIVER; LEAD; STOCCUMULATION; BIRDS	Decker, B.A. Huber, L.H. Pridmore, J.V. 1979 Journal of the American Veterinary Medical Association 175:1049

Lead, Isotope of mass 210
14255-04-0
R
R 210
Cattle
PCS app.

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	DOSE	HEALTH	GENERAL INFORMATION	REFERENCE
277 Kidney			a) 35 b) Not given	a) 0.8-0.2 pCi/kg wet wt b) Not given	a) 10.5 pCi/kg b) 44.0 pCi/kg wet wt Madison	a) Cattle grazing near abandoned Pb mine b) Cattle from non-industrial, low-traffic area (data from previous publications) Significantly lower values in subsoil near lead mine 3 yr old Grazing, pilot area CATTLE: LEAD 210; POLONIUM 210; CESIUM 137; STRONTIUM 90; COPPER 64; ZINC 66; BISMUTH 210; BISMUTH 210; BISMUTH 210	Bush, R. Hedrick, R. 1980 Food and Contamination Toxicology 21:133-137
278 Liver			a) 35 b) Not given	a) 0.0-0.7 pCi/kg wet wt b) Not given	a) 12.9 pCi/kg b) 16.0 pCi/kg wet wt Madison	a) Cattle grazing near abandoned Pb mine b) Cattle from non-industrial, low-traffic area (data from previous publications) Significantly lower values in subsoil near lead mine 3 yr old Grazing, pilot area CATTLE: LEAD 210; POLONIUM 210; CESIUM 137; STRONTIUM 90; COPPER 64; ZINC 66; BISMUTH 210; BISMUTH 210; BISMUTH 210	Bush, R. Hedrick, R. 1980 Food and Contamination Toxicology 21:133-137

Background:
7237-54-5
R
R 210
Cattle
PCS app.

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	DOSE	HEALTH	GENERAL INFORMATION	REFERENCE
279 Kidney		AMS	21	Not given	0.0 ± or - 1.4 uCi/g dry wt	Area < 10-05 ac, assumed healthy. Vegetation analysis indicates significant area from grass pollution. Montana, Northern Great Plains CATTLE: AMPLITUDE; MONTANA; KIDNEY; LIVER; BISMUTH 210; CESIUM 137; STRONTIUM 90; COPPER 64; ZINC 66; BISMUTH 210; BISMUTH 210; BISMUTH 210	Handover, T.P. Hedrick, R. 1979 Food and Contamination Toxicology 21:133-137
280 Liver		AMS	20	Not given	7.3 ± or - 3.2 uCi/g dry wt	Area < 10-05 ac, assumed healthy. Vegetation analysis indicates significant area from grass pollution. Montana, Northern Great Plains CATTLE: AMPLITUDE; MONTANA; KIDNEY; LIVER; BISMUTH 210; CESIUM 137; STRONTIUM 90; COPPER 64; ZINC 66; BISMUTH 210; BISMUTH 210; BISMUTH 210	Handover, T.P. Hedrick, R. 1979 Food and Contamination Toxicology 21:133-137

Range
7635-96-5
Age 54, 9380, BP 1200 C, BP 2005 C, VP 1 00 mg at 1292 C, 10 00 mg at 1510 C
Cattle
EC5 spp.

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	SAMPLES OF CASES	BIODE	MEAN	GENERAL INFORMATION	REFERENCE
201 Liver		AAS	190	0.50-1.61 pps wet wt	1.07 ± or - 0.22 pps wet wt	Sample from a widely separated region. Significant differences between regions and within the same region. Australia, New South Wales CATTLE: ARSENIC; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; MANGANESE; MERCURY; MOLYBDENUM; NICKEL; SILICON; STRONTIUM; ZINC; AUSTRALIA; KIDNEY; 1989	Plantak, J. 1979 Journal of the Science of Food and Agriculture 30:503-507
202 Liver		AAS	190	1.11-9.09 pps wet wt	2.72 ± or - 0.55 pps wet wt	Sample from a widely separated region. Significant differences between regions and within the same region. Australia, New South Wales CATTLE: ARSENIC; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; MANGANESE; MERCURY; MOLYBDENUM; NICKEL; SILICON; STRONTIUM; ZINC; AUSTRALIA; KIDNEY; 1989	Plantak, J. 1979 Journal of the Science of Food and Agriculture 30:503-507

Range
7635-96-5
Age 54, 9380, BP 1200 C, BP 2005 C, VP 1 00 mg at 1292 C, 10 00 mg at 1510 C
Cattle
EC5 spp.

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	SAMPLES OF CASES	BIODE	MEAN	GENERAL INFORMATION	REFERENCE
203 Liver		AAS	23	Not given	6.2 ± or - 2.2 ug/g dry wt	Age 6-10-05 mg Australia assumed to be healthy Vegetation analysis indicates Pristine area free from gross pollution. Montana, Northern Great Plains CATTLE: ARSENIC; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; MANGANESE; MERCURY; MOLYBDENUM; NICKEL; SILICON	Runnover, P.F. 1979 Bulletin of Environmental Contamination and Toxicology 22:827-833
204 Liver		AAS	29	Not given	9.0 ± or - 2.5 ug/g dry wt	Age 6-10-05 mg, assumed healthy. Vegetation analysis indicates Pristine area free from gross pollution. Montana, Northern Great Plains CATTLE: ARSENIC; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; MANGANESE; MERCURY; MOLYBDENUM; NICKEL; SILICON	Runnover, P.F. 1979 Bulletin of Environmental Contamination and Toxicology 22:827-833

RECEIVED
9439-97-6
08
RIN 200.59, HP -36.07 C, BP 354.72 C, VP 21018-2) 00 MG AT 25 C, 100 MG MG AT 260 C
0000, LOT000000000000
MICROPROCESS 31010285

REPORT NO. 17	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
205	ALS	a) 0.14-0.21 ppm b) 0.11-0.07 ppm c) 0.44-1.40 ppm	a) 0.27 ppm b) 0.4+ ppm c) 0.47 ppm		(1) LONG 15-25 cm (2) LONG 25-35 cm (3) LONG 35-60 cm (4) LONG 60-100 cm (5) LONG 100-150 cm (6) LONG 150-200 cm (7) LONG 200-250 cm (8) LONG 250-300 cm (9) LONG 300-350 cm (10) LONG 350-400 cm (11) LONG 400-450 cm (12) LONG 450-500 cm (13) LONG 500-550 cm (14) LONG 550-600 cm (15) LONG 600-650 cm (16) LONG 650-700 cm (17) LONG 700-750 cm (18) LONG 750-800 cm (19) LONG 800-850 cm (20) LONG 850-900 cm (21) LONG 900-950 cm (22) LONG 950-1000 cm (23) LONG 1000-1050 cm (24) LONG 1050-1100 cm (25) LONG 1100-1150 cm (26) LONG 1150-1200 cm (27) LONG 1200-1250 cm (28) LONG 1250-1300 cm (29) LONG 1300-1350 cm (30) LONG 1350-1400 cm (31) LONG 1400-1450 cm (32) LONG 1450-1500 cm (33) LONG 1500-1550 cm (34) LONG 1550-1600 cm (35) LONG 1600-1650 cm (36) LONG 1650-1700 cm (37) LONG 1700-1750 cm (38) LONG 1750-1800 cm (39) LONG 1800-1850 cm (40) LONG 1850-1900 cm (41) LONG 1900-1950 cm (42) LONG 1950-2000 cm (43) LONG 2000-2050 cm (44) LONG 2050-2100 cm (45) LONG 2100-2150 cm (46) LONG 2150-2200 cm (47) LONG 2200-2250 cm (48) LONG 2250-2300 cm (49) LONG 2300-2350 cm (50) LONG 2350-2400 cm (51) LONG 2400-2450 cm (52) LONG 2450-2500 cm (53) LONG 2500-2550 cm (54) LONG 2550-2600 cm (55) LONG 2600-2650 cm (56) LONG 2650-2700 cm (57) LONG 2700-2750 cm (58) LONG 2750-2800 cm (59) LONG 2800-2850 cm (60) LONG 2850-2900 cm (61) LONG 2900-2950 cm (62) LONG 2950-3000 cm (63) LONG 3000-3050 cm (64) LONG 3050-3100 cm (65) LONG 3100-3150 cm (66) LONG 3150-3200 cm (67) LONG 3200-3250 cm (68) LONG 3250-3300 cm (69) LONG 3300-3350 cm (70) LONG 3350-3400 cm (71) LONG 3400-3450 cm (72) LONG 3450-3500 cm (73) LONG 3500-3550 cm (74) LONG 3550-3600 cm (75) LONG 3600-3650 cm (76) LONG 3650-3700 cm (77) LONG 3700-3750 cm (78) LONG 3750-3800 cm (79) LONG 3800-3850 cm (80) LONG 3850-3900 cm (81) LONG 3900-3950 cm (82) LONG 3950-4000 cm (83) LONG 4000-4050 cm (84) LONG 4050-4100 cm (85) LONG 4100-4150 cm (86) LONG 4150-4200 cm (87) LONG 4200-4250 cm (88) LONG 4250-4300 cm (89) LONG 4300-4350 cm (90) LONG 4350-4400 cm (91) LONG 4400-4450 cm (92) LONG 4450-4500 cm (93) LONG 4500-4550 cm (94) LONG 4550-4600 cm (95) LONG 4600-4650 cm (96) LONG 4650-4700 cm (97) LONG 4700-4750 cm (98) LONG 4750-4800 cm (99) LONG 4800-4850 cm (100) LONG 4850-4900 cm (101) LONG 4900-4950 cm (102) LONG 4950-5000 cm (103) LONG 5000-5050 cm (104) LONG 5050-5100 cm (105) LONG 5100-5150 cm (106) LONG 5150-5200 cm (107) LONG 5200-5250 cm (108) LONG 5250-5300 cm (109) LONG 5300-5350 cm (110) LONG 5350-5400 cm (111) LONG 5400-5450 cm (112) LONG 5450-5500 cm (113) LONG 5500-5550 cm (114) LONG 5550-5600 cm (115) LONG 5600-5650 cm (116) LONG 5650-5700 cm (117) LONG 5700-5750 cm (118) LONG 5750-5800 cm (119) LONG 5800-5850 cm (120) LONG 5850-5900 cm (121) LONG 5900-5950 cm (122) LONG 5950-6000 cm (123) LONG 6000-6050 cm (124) LONG 6050-6100 cm (125) LONG 6100-6150 cm (126) LONG 6150-6200 cm (127) LONG 6200-6250 cm (128) LONG 6250-6300 cm (129) LONG 6300-6350 cm (130) LONG 6350-6400 cm (131) LONG 6400-6450 cm (132) LONG 6450-6500 cm (133) LONG 6500-6550 cm (134) LONG 6550-6600 cm (135) LONG 6600-6650 cm (136) LONG 6650-6700 cm (137) LONG 6700-6750 cm (138) LONG 6750-6800 cm (139) LONG 6800-6850 cm (140) LONG 6850-6900 cm (141) LONG 6900-6950 cm (142) LONG 6950-7000 cm (143) LONG 7000-7050 cm (144) LONG 7050-7100 cm (145) LONG 7100-7150 cm (146) LONG 7150-7200 cm (147) LONG 7200-7250 cm (148) LONG 7250-7300 cm (149) LONG 7300-7350 cm (150) LONG 7350-7400 cm (151) LONG 7400-7450 cm (152) LONG 7450-7500 cm (153) LONG 7500-7550 cm (154) LONG 7550-7600 cm (155) LONG 7600-7650 cm (156) LONG 7650-7700 cm (157) LONG 7700-7750 cm (158) LONG 7750-7800 cm (159) LONG 7800-7850 cm (160) LONG 7850-7900 cm (161) LONG 7900-7950 cm (162) LONG 7950-8000 cm (163) LONG 8000-8050 cm (164) LONG 8050-8100 cm (165) LONG 8100-8150 cm (166) LONG 8150-8200 cm (167) LONG 8200-8250 cm (168) LONG 8250-8300 cm (169) LONG 8300-8350 cm (170) LONG 8350-8400 cm (171) LONG 8400-8450 cm (172) LONG 8450-8500 cm (173) LONG 8500-8550 cm (174) LONG 8550-8600 cm (175) LONG 8600-8650 cm (176) LONG 8650-8700 cm (177) LONG 8700-8750 cm (178) LONG 8750-8800 cm (179) LONG 8800-8850 cm (180) LONG 8850-8900 cm (181) LONG 8900-8950 cm (182) LONG 8950-9000 cm (183) LONG 9000-9050 cm (184) LONG 9050-9100 cm (185) LONG 9100-9150 cm (186) LONG 9150-9200 cm (187) LONG 9200-9250 cm (188) LONG 9250-9300 cm (189) LONG 9300-9350 cm (190) LONG 9350-9400 cm (191) LONG 9400-9450 cm (192) LONG 9450-9500 cm (193) LONG 9500-9550 cm (194) LONG 9550-9600 cm (195) LONG 9600-9650 cm (196) LONG 9650-9700 cm (197) LONG 9700-9750 cm (198) LONG 9750-9800 cm (199) LONG 9800-9850 cm (200) LONG 9850-9900 cm (201) LONG 9900-9950 cm (202) LONG 9950-10000 cm (203) LONG 10000-10050 cm (204) LONG 10050-10100 cm (205) LONG 10100-10150 cm (206) LONG 10150-10200 cm (207) LONG 10200-10250 cm (208) LONG 10250-10300 cm (209) LONG 10300-10350 cm (210) LONG 10350-10400 cm (211) LONG 10400-10450 cm (212) LONG 10450-10500 cm (213) LONG 10500-10550 cm (214) LONG 10550-10600 cm (215) LONG 10600-10650 cm (216) LONG 10650-10700 cm (217) LONG 10700-10750 cm (218) LONG 10750-10800 cm (219) LONG 10800-10850 cm (220) LONG 10850-10900 cm (221) LONG 10900-10950 cm (222) LONG 10950-11000 cm (223) LONG 11000-11050 cm (224) LONG 11050-11100 cm (225) LONG 11100-11150 cm (226) LONG 11150-11200 cm (227) LONG 11200-11250 cm (228) LONG 11250-11300 cm (229) LONG 11300-11350 cm (230) LONG 11350-11400 cm (231) LONG 11400-11450 cm (232) LONG 11450-11500 cm (233) LONG 11500-11550 cm (234) LONG 11550-11600 cm (235) LONG 11600-11650 cm (236) LONG 11650-11700 cm (237) LONG 11700-11750 cm (238) LONG 11750-11800 cm (239) LONG 11800-11850 cm (240) LONG 11850-11900 cm (241) LONG 11900-11950 cm (242) LONG 11950-12000 cm (243) LONG 12000-12050 cm (244) LONG 12050-12100 cm (245) LONG 12100-12150 cm (246) LONG 12150-12200 cm (247) LONG 12200-12250 cm (248) LONG 12250-12300 cm (249) LONG 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Mercury
7439-97-6
Hg
Atw 200.59, mp -38.87 C, bp 356.72 C, vp 2X10(E-3) mm Hg at 25 C, 100 mm Hg at 260 C
Boomer
CASTOR CANADENSIS

(CONTINUED)

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
289 Muscle		AAS	4	Not given	32 ± or - 6 ppb	At 9.06 ± or - 2.06 kg (pelt not included) No direct sources of contamination in trapping area Canada, Bruce/Carleton Shield, Ontario Muskoka District BEAVERS; RACCOONS; OTTERS; CANADA; INTESTINES; KIDNEYS; LIVER; MUSCLES; BIOACCUMULATION; MERCURY; MERCURY ORGANIC COMPOUNDS	Wren, C. MacCracken, M. Frank, B. Sude, P. 1980 Bulletin of Environmental Contamination and Toxicology 25:100-105

Mercury
7439-97-6
Hg
Atw 200.59, mp -38.87 C, bp 356.72 C, vp 2X10(E-3) mm Hg at 25 C, 100 mm Hg at 260 C
Eggshell
LESCOTUS MACROCHIRUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
290 Muscle		AAS		Not given	<0.2 ppm	Reservoir constructed in early '70's. Primary source is natural soil Hg. Expected decrease in soil levels within 5 yr. Illinois (S), Jackson and Union Counties, Cedar Lake Reservoir PROCESSES; ILLINOIS; MERCURY; MERCURY ORGANIC COMPOUNDS; BIOACCUMULATION; WATER POLLUTION	Cox, J.A. Carmahan, J. Dihunsio, J. McCoy, J. Holster, J. 1979 Bulletin of Environmental Contamination and Toxicology 23:779-783

Mercury
7439-97-6
Hg
Atw 200.59, mp -38.87 C, bp 356.72 C, vp 2X10(E-3) mm Hg at 25 C, 100 mm Hg at 260 C
Ecoby, Peruvian
SCIA VARIEGATA

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
291 Feathers			8	Not given	0.72 ± or - 0.35 ug/g dry wt	Preant feathers live or dead birds collected on beaches near Lima, 1972 Munboldt Current, Peru BIRDS; FEATHERS; PERU; BIOACCUMULATION; WATER POLLUTION; MERCURY	Gochfield, H. 1980 Environmental Pollution 22:197-205

MERCURY
7439-97-6

Hg
Ata 200.59, MP -38.87 C, BP 356.72 C, VP 2X10⁻³ mm Hg at 25 C, 100 mm Hg at 260 C
Cattle
PCS mp.

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
292 Bone	Ingestion	AAS	a) 3 b) 3	a) Not given b) Not given	a) < 0.013 ppm b) < 0.01 ppm Dry wt	a) Control diet b) Diet of 12% high Cd sewage sludge, 106 days Hereford yearlings, mean wt 336 kg. Slaughtered at 460 kg mean live wt. CATTLE; SLUDGES; COLORADO; BONES; BRAIN; ADRENALS; LIVER; LUNGS; MUSCLES; SPLEEN; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MERCURY	Johnson, D.E. Klenholz, E.V. Baxter, J.C. Spangler, E. Ward, G.H. 1981 Journal of Animal Science 52(1):108-114
293 Brain	Ingestion	AAS	a) 3 b) 3	a) Not given b) Not given	a) < 0.01 ppm b) < 0.01 ppm Dry wt	a) Control diet b) Diet of 12% high Cd sewage sludge, 106 days Hereford yearlings, mean wt 336 kg. Slaughtered at 460 kg mean live wt. CATTLE; SLUDGES; COLORADO; BONES; BRAIN; KIDNEYS; LIVER; LUNGS; MUSCLES; SPLEEN; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MERCURY	Johnson, D.E. Klenholz, E.V. Baxter, J.C. Spangler, E. Ward, G.H. 1981 Journal of Animal Science 52(1):108-114
294 Kidney		AAS	190	Not Detected-0.177 ppm wet wt	0.004 ± or - 0.016 ppm wet wt	Samples from 8 widely separated regions. Significant differences between regions and within the same region. Australia, New South Wales CATTLE; ARSENIC; CADMIUM; CHROMIUM; COPPER; LEAD; MANGANESE; MERCURY; MOLYBDENUM; NICKEL; SILICON; VITAMIN; AUSTRALIA; KIDNEYS; LIVER	Flanjak, J. Lee, H.T. 1979 Journal of the Science of Food and Agriculture 30:503-507
295 Kidney	Ingestion	AAS	a) 6 b) 6	a) Not given b) Not given	a) 0.09 ± or - 0.01 ppm b) 2.04 ± or - 0.16 ppm Dry wt	a) Control diet b) Diet of 12% high Cd sewage sludge, 106 days Significant increase (P < .01) in sludge-fed steers Hereford yearlings, mean wt 336 kg. Slaughtered at 460 kg mean live wt. CATTLE; SLUDGES; COLORADO; BONES; BRAIN; KIDNEYS; LIVER; LUNGS; MUSCLES; SPLEEN; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MERCURY	Johnson, D.E. Klenholz, E.V. Baxter, J.C. Spangler, E. Ward, G.H. 1981 Journal of Animal Science 52(1):108-114
296 Liver		AAS	190	< 0.004-0.050 ppm wet wt	0.004 ± or - 0.005 ppm wet wt	Samples from 8 widely separated regions. Significant differences between regions and within the same region. Australia, New South Wales CATTLE; ARSENIC; CADMIUM; CHROMIUM; COPPER; LEAD; MANGANESE; MERCURY; MOLYBDENUM; NICKEL; SILICON; VITAMIN; AUSTRALIA; KIDNEYS; LIVER	Flanjak, J. Lee, H.T. 1979 Journal of the Science of Food and Agriculture 30:503-507

(NEXT PAGE)

Recovery
7429-87-6

Atm 203.59, BP -10.87 C, BP 356.72 C, VP 2710 (E-3) mm Hg at 25 C, 100 mm Hg at 260 C
cattle
PC4 sp.

(CONTINUED)

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
297 Liver	Ingestion	AAS	a) 6 b) 6	a) Not given b) Not given	a) < 0.01 ppm b) 0.27 ± 0.1 ppm Dry wt	a) Control diet b) Diet of 12% high Cd sewage sludge, 106 days Significant increase (P < .01) in sludge-fed steers Hereford yearlings, mean wt 336 kg. Slaughtered at 460 kg mean live wt. CATTLE; SLUDGES; COLORADO; BCRES; BRAIN; KIDNEY; LIVER; LUNGS; POICLES; SPLEEN; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MERCURY	Johnson, D.E. Kienholz, E.V. Baxter, J.C. Spangler, E. Ward, G.H. 1991 Journal of Animal Science 52(1):108-114
298 Lung	Ingestion	AAS	a) 1 b) 1	a) Not given b) Not given	a) < 0.01 ppm b) 0.05 ± 0.1 ppm Dry wt	a) Control diet b) Diet of 12% high Cd sewage sludge, 106 days Significant increase (P < .01) in sludge-fed steers Hereford yearlings, mean wt 336 kg. Slaughtered at 460 kg mean live wt. CATTLE; SLUDGES; COLORADO; BCRES; BRAIN; KIDNEY; LIVER; LUNGS; POICLES; SPLEEN; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MERCURY	Johnson, D.E. Kienholz, E.V. Baxter, J.C. Spangler, E. Ward, G.H. 1991 Journal of Animal Science 52(1):108-114
299 Spleen	Ingestion	AAS	a) 1 b) 1	a) Not given b) Not given	a) < 0.01 ppm b) 0.32 ± 0.1 ppm Dry wt	a) Control diet b) Diet of 12% high Cd sewage sludge, 106 days Significant increase (P < .05) in sludge-fed steers Hereford yearlings, mean wt 336 kg. Slaughtered at 460 kg mean live wt. CATTLE; SLUDGES; COLORADO; BCRES; BRAIN; KIDNEY; LIVER; LUNGS; POICLES; SPLEEN; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MERCURY	Johnson, D.E. Kienholz, E.V. Baxter, J.C. Spangler, E. Ward, G.H. 1991 Journal of Animal Science 52(1):108-114
300 Spleen	Ingestion	AAS	a) 1 b) 1	a) Not given b) Not given	a) < 0.01 ppm b) 0.38 ± 0.1 ppm Dry wt	a) Control diet b) Diet of 12% high Cd sewage sludge, 106 days Significant increase (P < .05) in sludge-fed steers Hereford yearlings, mean wt 336 kg. Slaughtered at 460 kg mean live wt. CATTLE; SLUDGES; COLORADO; BCRES; BRAIN; KIDNEY; LIVER; LUNGS; POICLES; SPLEEN; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MERCURY	Johnson, D.E. Kienholz, E.V. Baxter, J.C. Spangler, E. Ward, G.H. 1991 Journal of Animal Science 52(1):108-114

SECURITY
7439-97-6

Eq
ATN 200.59, MP -38.87 C, BP 356.72 C, VP 2112 (E-3) aa Hg at 25 C, 100 aa Hg at 260 C
Chicken

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
301 Eggs	Ingestion	A	2	a) Not applicable b) 2400-4500 ng/g	a) 110 ng/g b) 1550 ng/g	a) White, 5% of total Hg b) Yolk, 87.2% of total Hg Total levels 100-10000 higher than in market eggs Free domestic chickens accidentally fed fungicide-contaminated grain. CHICKENS; EGGS; NEW YORK; FUNGICIDES; HEAVY INORGANIC COMPOUNDS; MERCURY ORGANIC COMPOUNDS; SELLION; BIOACCUMULATION	Cappon, C.J. Smith, J.C. 1981a Bulletin of Environmental Contamination and Toxicology 26:472-478

SECURITY
7439-97-6

Eq
ATN 200.59, MP -38.87 C, BP 356.72 C, VP 2112 (E-3) aa Hg at 25 C, 100 aa Hg at 260 C
Cormorant, leucor
BIALACROCORAX BOUGAINVILLE

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
302 Feathers			4	Not given	3.41 ± or - 0.10 ug/g dry wt	Prent feathers live or dead birds collected on leaches near Lima, 1972 Peboldt Current, Peru EGGS; FEATHERS; PERU; BIOACCUMULATION; WATER POLLUTION; MERCURY	Gochfield, H. 1980 Environmental Pollution 22:197-205

SECURITY
7439-97-6

Eq
ATN 200.59, MP -38.87 C, BP 356.72 C, VP 2112 (E-3) aa Hg at 25 C, 100 aa Hg at 260 C
Cormorant, red-legged
PHALACROCORAX GAZARDI

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
303 Feathers			2	Not given	1.34 ± or - 0.65 ug/g dry wt	Prent feathers live or dead birds collected on leaches near Lima, 1972 Peboldt Current, Peru EGGS; FEATHERS; PERU; BIOACCUMULATION; WATER POLLUTION; MERCURY	Gochfield, H. 1980 Environmental Pollution 22:197-205

Mercury
7030-07-6

As 200.55, SP -10.07 C, PP 156.72 C, VP 210(E-3) as Hg at 25 C, 100 mg Hg at 240 C
Cripple
SCHEMIS AB001215

TEST	EXPOSURE ROUTE	ANATOMICAL SITE	NUMBER OF CASES	DOSE	RESULTS	GENERAL INFORMATION	REFERENCE
104 single		AMS	15	not given	3.59 ppm	Isocroft constructed in early '70's. Heavy source in natural soil Hg. Expected decrease in soil levels within 5 yr. Illinois (3), Jackson and Union Counties, Cedar Lake Reservoir FISHES; TURTLES; MISCARNT; MERCURY CHLORIDE COMPOUNDS; BIOACCUMULATION; WATER POLLUTION	Cox, J.H. Carmichael, J. Bismarck, J. McKay, J. Meister, J. 1979 Bulletin of Environmental Contamination and Toxicology 23:779-783

Mercury
7030-07-6

As 200.55, SP -10.07 C, PP 156.72 C, VP 210(E-3) as Hg at 25 C, 100 mg Hg at 240 C
Cock, whitehead

TEST	EXPOSURE ROUTE	ANATOMICAL SITE	NUMBER OF CASES	DOSE	RESULTS	GENERAL INFORMATION	REFERENCE
105 single		2C	1	not applicable	100.5 ppb wet wt (66.1% of total Hg)	total area. No known contamination source. New York State (N) FISH; TURTLES; CANADA; NEW YORK; MOUNTAIN; TURTLES; COMPARATIVE EVALUATIONS; BIOACCUMULATION; MERCURY; POLLUTION	Cappan, C.J. Smith, J.C. 1981b Journal of Analytic Toxicology 5:190-98
106 single		2C	1	not applicable	48.9 ppb wet wt (66.4% of total Hg)	total area. No known contamination source. New York State (N) FISH; TURTLES; CANADA; NEW YORK; MOUNTAIN; TURTLES; COMPARATIVE EVALUATIONS; BIOACCUMULATION; MERCURY; POLLUTION	Cappan, C.J. Smith, J.C. 1981b Journal of Analytic Toxicology 5:190-98
107 single		2C	1	not applicable	12.2 ppb wet wt (18.4% of total Hg)	total area. No known contamination source. New York State (N) FISH; TURTLES; CANADA; NEW YORK; MOUNTAIN; TURTLES; COMPARATIVE EVALUATIONS; BIOACCUMULATION; MERCURY; POLLUTION	Cappan, C.J. Smith, J.C. 1981b Journal of Analytic Toxicology 5:190-98

Mercury
7439-97-4
As
At 203.49, BP -38.97 C, BP 356.72 C, VP 2810 (3-3) mm Hg at 25 C, 100 mm Hg at 260 C
Fish

TESTS	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	ANALYSIS	MEAN	ORIGINAL INFORMATION	REFERENCE
309 Kidney		AAS	17	0.01-5.43 ug/g wet wt	0.76 ug/g wet wt	Composite samples of MUGILIDAE, CIPRIIDAE, MULLIDAE, SPARIDAE, SCORPAENIDAE, TRIGLIDAE, VIROBONOTIDAE, ANGUILLIDAE, and COBIIDAE (marketed as "mixed fried fish") Maximum length 10 cm Italy, Tuscan coast LEAD: MERCURY; BIOACCUMULATION; FISHES; WATER POLLUTION; KIDNEYS; LIVER; MUSCLES; ITALY	Suggiani, S.S. Vannucchi, C. 1980 Bulletin of Environmental Contamination and Toxicology 25:90-92
309 Liver		AAS	17	0.01-1.21 ug/g wet wt	0.41 ug/g wet wt	Composite samples of MUGILIDAE, CIPRIIDAE, MULLIDAE, SPARIDAE, SCORPAENIDAE, TRIGLIDAE, VIROBONOTIDAE, ANGUILLIDAE, and COBIIDAE (marketed as "mixed fried fish") Maximum length 10 cm Italy, Tuscan coast LEAD: MERCURY; BIOACCUMULATION; FISHES; WATER POLLUTION; KIDNEYS; LIVER; MUSCLES; ITALY	Suggiani, S.S. Vannucchi, C. 1980 Bulletin of Environmental Contamination and Toxicology 25:90-92
310 Muscle		AAS	10	0.07-0.56 ug/kg	0.17 ug/kg	Random samples. Acceptable limit in most countries = 0.5 ug/kg Persian Gulf LEAD: MUSCLES; FISHES; WATER POLLUTION; MERCURY	Parvaneh, V. 1979 Bulletin of Environmental Contamination and Toxicology 23:357-359
311 Muscle		AAS	8	0.08-0.20 ug/kg	0.16 ug/kg	Random samples. Acceptable limit in most countries = 0.5 ug/kg Persian Gulf LEAD: MUSCLES; FISHES; WATER POLLUTION; MERCURY	Parvaneh, V. 1979 Bulletin of Environmental Contamination and Toxicology 23:357-359
312 Muscle		AAS	8	0.08-0.48 ug/kg	0.19 ug/kg	Random samples. Acceptable limit in most countries = 0.5 ug/kg Persian Gulf LEAD: MUSCLES; FISHES; WATER POLLUTION; MERCURY	Parvaneh, V. 1979 Bulletin of Environmental Contamination and Toxicology 23:357-359
313 Muscle		AAS	5	0.04-0.30 ug/kg	0.15 ug/kg	Random samples. Acceptable limit in most countries = 0.5 ug/kg Persian Gulf LEAD: MUSCLES; FISHES; WATER POLLUTION; MERCURY	Parvaneh, V. 1979 Bulletin of Environmental Contamination and Toxicology 23:357-359

(NEXT PAGE)

SECURITY
7439-97-5

82
140 200.59, 82 -38.87 C, 87 316.72 C, 7P 2110(7-3) an Hg at 25 C, 100 an Hg at 260 C
Fish

(CONTINUED)

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
314 Muscle		AAS	15	0.01-0.72 ug/g wet wt	0.30 ug/g wet wt	Composite samples of MUGILIDAE, CIPRITIDAE, MOLLIDAE, SPARIDAE, SCORPENOIDAE, TRIGLIDAE, PISCOPIDAE, ANGOILLIDAE, and Gobiidae (marketed as "mixed fried fish") Maximum length 10 cm Italy, Tuscan coast 1980; MERCURY; BIOACCUMULATION; FISHES; WATER POLLUTION; KIDNEYS; LIVER; MUSCLES; ITALY	Duggiani, S.S. Vannucchi, C. 1980 Bulletin of Environmental Contamination and Toxicology 25:90-92

SECURITY
7439-97-5

82
140 200.59, 82 -38.8 C, 87 316.72 C, 7P 2110(7-3) an Hg at 25 C, 100 an Hg at 260 C
Canal, Norwegian
PCB'S 11558825

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
315 Egg		AAS	a) 10 b) 11	a) 0.45-0.80 ppm b) 0.46-0.94 ppm Wet wt	a) 0.58 ± or = 0.12 ppm b) 0.80 ± or = 0.09 ppm Wet wt	a) 1971, solely as methyl-Hg b) 1978 No major industries in vicinity of Garmstad. Norway, Nordmøre 1978; JARVIS; PCB; MERCURY; SCITICLOSTRATED DIPHENYLS; BIOACCUMULATION; NORWAY; EGGS	Pirella, N. Kveneth, N. Brevik, E.N. 1980 Bulletin of Environmental Contamination and Toxicology 24:142-144

SECURITY
7439-97-5

82
140 200.59, 82 -38.87 C, 87 316.72 C, 7P 2110(7-3) an Hg at 25 C, 100 an Hg at 260 C
Fish
SCITICLOSTRATED DIPHENYLS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
316 Muscle	Ingestion	VA	a) 12 b) 11	a) Not given b) Not given	a) 210 ± or = 15 ug/g b) 250 ± or = 20 ug/g	a) Controls on standard feed contained 0.05 ppm PCB b) Animals fed daily doses of 3300 ug (11 ppm) PCB for 61 days Animals killed 1 wk after parturition, age 1 yr FISH; CADMIUM; MERCURY; SCITICLOSTRATED DIPHENYLS; SWEDEN; ADIPOSE TISSUE; KIDNEYS; MUSCLES; BIOACCUMULATION	Glasson, R. Kihlstrom, J.E. Jensen, S. Gronberg, J. 1979 Ambio 8(1):25

Mercury
 1019-97-6
 Rq
 At 200.59, MP -38.87 C, BP 356.72 C, VP 2210(2-3) mm Hg at 25 C, 100 mm Hg at 260 C
 C10H8
 IC2BA CANADENSIS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
317 Intestine		AAS	4	Not given	419 ± or - 158 ppb	At 7.33 ± or - 1.81 kg (pelt not included) No direct sources of contamination in trapping area Canada, Pro-Cambrian Shield, Ontario Nushoka District BEAVERS; RACCOONS; OTTERS; CANADA; INTESTINES; KIDNEYS; LIVER; MUSCLES; BIOACCUMULATION; MERCURY; MERCURY ORGANIC COMPOUNDS	Wren, C. MacCrimmon, H. Frank, B. Suda, P. 1980 Bulletin of Environmental Contamination and Toxicology 25:100-105
318 Kidney		AAS	4	Not given	1046 ± or - 276 ppb	At 7.33 ± or - 1.81 kg (pelt not included) No direct sources of contamination in trapping area Canada, Pro-Cambrian Shield, Ontario Nushoka District BEAVERS; RACCOONS; OTTERS; CANADA; INTESTINES; KIDNEYS; LIVER; MUSCLES; BIOACCUMULATION; MERCURY; MERCURY ORGANIC COMPOUNDS	Wren, C. MacCrimmon, H. Frank, B. Suda, P. 1980 Bulletin of Environmental Contamination and Toxicology 25:100-105
319 Liver		AAS	4	Not given	2973 ± or - 2230 ppb	At 7.33 ± or - 1.81 kg (pelt not included) No direct sources of contamination in trapping area Canada, Pro-Cambrian Shield, Ontario Nushoka District BEAVERS; RACCOONS; OTTERS; CANADA; INTESTINES; KIDNEYS; LIVER; MUSCLES; BIOACCUMULATION; MERCURY; MERCURY ORGANIC COMPOUNDS	Wren, C. MacCrimmon, H. Frank, B. Suda, P. 1980 Bulletin of Environmental Contamination and Toxicology 25:100-105
320 Muscle		AAS	4	Not given	989 ± or - 217 ppb	At 7.33 ± or - 1.81 kg (pelt not included) No direct sources of contamination in trapping area Canada, Pro-Cambrian Shield, Ontario Nushoka District BEAVERS; RACCOONS; OTTERS; CANADA; INTESTINES; KIDNEYS; LIVER; MUSCLES; BIOACCUMULATION; MERCURY; MERCURY ORGANIC COMPOUNDS	Wren, C. MacCrimmon, H. Frank, B. Suda, P. 1980 Bulletin of Environmental Contamination and Toxicology 25:100-105

Mercury
7439-97-6

Bp
At 200.59, MP -38.87 C, BP 356.72 C, VP 2X10(Z-3) mm Hg at 25 C, 100 mm Hg at 260 C
Like, northern
ISOT LOC195

SUB	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	YEAR	GENERAL INFORMATION	REFERENCE
321 Muscle		AAS	a) 19 b) 18	a) 0.01-3.03 ug/kg b) 0.17-1.38 ug/kg Net wt	a) 0.02 ug/kg b) 0.62 ug/kg Net wt	a) Lake Dufault. Length 52.0-81.5 cm, wt 750-2000 g. Levels not related to site b) Lake Duparquet. Length 40.0-81.5 cm, wt 215-3350 g. Levels directly related to site Collected summer '77. Canada, Quebec (SV), Lake Dufault Canada, Quebec (SV), Lake Duparquet CANADA; MUSCLES; BIOACCUMULATION; FISHES; WATER POLLUTION; MERCURY; SILICON	Speyer, H.A. 1980 Bulletin of Environmental Contamination and Toxicology 24:427-432

Mercury
7439-97-6

Bp
At 200.59, MP -38.87 C, BP 356.72 C, VP 2X10(Z-3) mm Hg at 25 C, 100 mm Hg at 260 C
Incocon
ISOTCH LOT05

SUB	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	YEAR	GENERAL INFORMATION	REFERENCE
322 Kidney		AAS	4	Not given	1117 ± or - 300 ppb	wt 50 ± or - 0.86 kg (pelt not included) No direct sources of contamination in trapping area Canada, ProCenbrian Shield, Ontario Neskota District BEAVERS; RACCOONS; OTTERS; CANADA; INTESTINES; KIDNEYS; LIVER; MUSCLES; BIOACCUMULATION; MERCURY; MERCURY ORGANIC COMPOUNDS	Vron, C. MacCrimmon, H. Frank, R. Suda, P. 1980 Bulletin of Environmental Contamination and Toxicology 25:100-105
323 Liver		AAS	4	Not given	4528 ± or - 3380 ppb	wt 50 ± or - 0.86 kg (pelt not included) No direct sources of contamination in trapping area Canada, ProCenbrian Shield, Ontario Neskota District BEAVERS; RACCOONS; OTTERS; CANADA; INTESTINES; KIDNEYS; LIVER; MUSCLES; BIOACCUMULATION; MERCURY; MERCURY ORGANIC COMPOUNDS	Vron, C. MacCrimmon, H. Frank, R. Suda, P. 1980 Bulletin of Environmental Contamination and Toxicology 25:100-105
324 Muscle		AAS	4	Not given	279 ± or - 73 ppb	wt 50 ± or - 0.86 kg (pelt not included) No direct sources of contamination in trapping area Canada, ProCenbrian Shield, Ontario Neskota District BEAVERS; RACCOONS; OTTERS; CANADA; INTESTINES; KIDNEYS; LIVER; MUSCLES; BIOACCUMULATION; MERCURY; MERCURY ORGANIC COMPOUNDS	Vron, C. MacCrimmon, H. Frank, R. Suda, P. 1980 Bulletin of Environmental Contamination and Toxicology 25:100-105

SECURITY
7439-97-6

Ag
Atm 200.59, 5:90-99 BP -38.27 C, BP 356.72 C, VP 2110 (5-3) mm Hg at 25 C, 100 mm Hg at 260 C
Seal

ISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
325 Liver		X	1	Not applicable	+777.0 ppb wet wt	90.9% of total Hg Canada, Quebec (N), Inuit Eskimo Community SEAL; SEALS; CANADA; NEW YORK; HEART; LIVER; MUSCLES; COMPARATIVE EVALUATIONS; BIOACCUMULATION; MERCURY; SILENT	Cappon, C.J. Smith, J.C. 1981b Journal of Analytic Toxicology 5:90-98
326 Muscle		X	1	Not applicable	+25.7 ppb wet wt	37.1% of total Hg Canada, Quebec (N), Inuit Eskimo Community SEAL; SEALS; CANADA; NEW YORK; HEART; LIVER; MUSCLES; COMPARATIVE EVALUATIONS; BIOACCUMULATION; MERCURY; SILENT	Cappon, C.J. Smith, J.C. 1981b Journal of Analytic Toxicology 5:90-98

SECURITY
7439-97-6

Ag
Atm 200.59, 5:90-99 BP -38.27 C, BP 356.72 C, VP 2110 (5-3) mm Hg at 25 C, 100 mm Hg at 260 C
Shearwater, sooty
10001903 011200Z

ISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
327 Feathers			a) 14 b) 1 c) 1	a) Not given b) 0.17-0.88 ug/g c) 0.23-0.96 ug/g Dry wt	a) 0.72 + or - 0.35 ug/g b) 0.46 ug/g c) 0.54 ug/g Dry wt	a) Breast feathers b) Sequential primary wing feathers 1-7 c) Sequential primary wing feathers 1-7 Live or dead birds collected on beaches near Lima, 1972 Humboldt Current, Peru LIVER; FEATHERS; PERU; BIOACCUMULATION; WATER POLLUTION; MERCURY	Gochfield, H. 1980 Environmental Pollution 22:197-205

Mercury
7439-97-6
Hg
AtW 203.59, BP -38.87 C, BP 356.72 C, VP 2X10⁻³ mm Hg at 25 C, 100 mm Hg at 260 C
Shrimp, freshwater
BACACBACB103 LACBHBSTB31

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
329 Body, whole		AA AAS		a) 0.06-0.12 ppm b) 0.02-0.04 ppm c) 0.002-0.006 ppm d) 0.006-0.004 ppm e) 0.001-0.02 ppm Wet weight	a) 0.08 ppm b) 0.03 ppm c) 0.004 ppm d) 0.02 ppm e) 0.007 ppm Wet weight	a) Collected 11-12/78 near Caustic soda factory b) Collected 12/78 behind battery mill, 2.5 km from factory c) Collected 11/77 behind battery mill, 2.5 km from factory d) Collected 1/78 near chemical company, some distance from factory e) Control from canal in non-industrial area, collected 12/77 23 samples, 5-10 shrimp/sample Thailand SHRIMP; THAILAND; BODY; BIOACCUMULATION; WATER POLLUTION; MERCURY	Suchcharoen, S. 1980 Bulletin of Environmental Contamination and Toxicology 24:511-516

Mercury
7439-97-6
Hg
AtW 203.59, BP -38.87 C, BP 356.72 C, VP 2X10⁻³ mm Hg at 25 C, 100 mm Hg at 260 C
Snake, garter
TSAKHOPHIS SIRTALIS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
329 Body, whole		Photometry	6	0.14-0.41 ppm wet wt	0.30 ppm wet wt	Snout-vent length 646-752 mm, lipid content 3.2-9.0%. Narkhove in stomachs of 4 snakes contained 0.06-0.17 ppm. Lake Michigan, Spider Island SHARKS; HAWAIIAN; BODY; BIOACCUMULATION; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; DDT; Dieldrin; MERCURY; POLYCHLORINATED BIPHENYLS	Neils, G.W. Hawelting, S.D. Hall, R.J. Kryzitsky, A.J. 1980 Bulletin of Environmental Contamination and Toxicology 25:738-743

Mercury
7439-97-6
Hg
AtW 203.59, BP -38.87 C, BP 356.72 C, VP 2X10⁻³ mm Hg at 25 C, 100 mm Hg at 260 C
Snake, water
BIBODIA SIFEDOS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
330 Body, whole		Photometry	1	Not applicable	0.45 ppm wet wt	Snout-vent length 855 mm, 6.2% lipid content Lake Michigan, Pilot Island SHARKS; HAWAIIAN; BODY; BIOACCUMULATION; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; DDT; Dieldrin; MERCURY; POLYCHLORINATED BIPHENYLS	Neils, G.W. Hawelting, S.D. Hall, R.J. Kryzitsky, A.J. 1980 Bulletin of Environmental Contamination and Toxicology 25:738-743

Mercury
7439-97-6
R₃
ATN 200.59, SP -38.87 C, SP 356.72 C, VP 2X10(E-3) mg Hg at 25 C, 100 mg Hg at 260 C
Squidrol, J44Y
SCI0835 CAROLINENSIS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
331 Hair		AAS	a) 18 b) 18 c) 30 d) 29 e) 23 f) 10 g) 6 h) 34 i) 19 j) 5	a) 0.35-4.3 pps b) 0.20-3.2 pps c) 0.07-6.7 pps d) 0.07-6.7 pps e) 0.15-9.2 pps f) 0.23-4.3 pps g) 0.58-2.2 pps h) 0.07-6.7 pps i) 0.12-3.3 pps j) 0.30-9.2 pps	a) 1.0 ± or - 0.2 pps b) 1.2 ± or - 0.5 pps c) 1.1 ± or - 0.2 pps d) 1.1 ± or - 0.3 pps e) 1.0 ± or - 0.4 pps f) 0.9 ± or - 0.4 pps g) 1.4 ± or - 0.3 pps h) 1.1 ± or - 0.2 pps i) 0.9 ± or - 0.2 pps j) 2.7 ± or - 0.2 pps	a) low income stratum b) middle income stratum c) high income stratum d) Residential area e) Park f) School g) Cemetery h) Age <1 yr i) Age 1 yr j) Age 2 yr or older Animals captured from 36 urban sites in 1974 Significantly higher values in 2 yr and older animals Florida, Jacksonville SQUIRRELS; BIOACCUMULATION; RADIOISOTOPES; URBAN AREAS; CESIUM; MERCURY; HAIR; MUSCLES; FLORIDA; AGE	Jenkins, J.M. Davis, A.W. Bigler, V.J. Neff, G.L. 1980 Bulletin of Environmental Contamination and Toxicology 25:321-324

Mercury
7439-97-6
R₃
ATN 200.55, SP -38.87 C, SP 356.72 C, VP 2X10(E-3) mg Hg at 25 C, 100 mg Hg at 260 C
Tera, Inca
LAB05788A INCA

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
332 Feathers			2	Not given	1.98 ± or - 0.20 ug/g dry wt	Present feathers live or dead birds collected on beaches near Lima, 1973 Household Current, Peru EGGS; FEATHERS; PERU; BIOACCUMULATION; WATER POLLUTION; MERCURY	Goshfield, R. 1980 Environmental Pollution 22:187-205

Mercury
7439-97-6
R₃
ATN 200.59, SP -38.87 C, SP 356.72 C, VP 2X10(E-3) mg Hg at 25 C, 100 mg Hg at 260 C
Tuna
SC019875 OFFINIS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
333 Muscle		AAS	18	0.20-0.44 ug/kg	0.30 ug/kg	Random samples. Canned tuna. acceptable limit in most countries = 0.5 ug/kg Persian Gulf SHAD; MUSCLES; FISHES; WATER POLLUTION; MERCURY	Parranah, V. 1979 Bulletin of Environmental Contamination and Toxicology 23:357-359

Mercury
7439-97-6
Rq
Atw 200.59, BP -38.87 C, BP 356.72 C, VP 2110(R-3) mm Hg at 25 C, 100 mm Hg at 260 C
Tuna, albacore
TUNNUS ALALONGA

ISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	SINGLE	MEAN	GENERAL INFORMATION	REFERENCE
334 Muscle			a) 7 b) 3 c) 6 d) 10 e) 5 f) 5 g) 2	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given	a) 0.295 ± or - 0.040 ppm b) 0.541 ± or - 0.089 ppm c) 0.289 ± or - 0.033 ppm d) 0.347 ± or - 0.043 ppm e) 0.540 ± or - 0.112 ppm f) 0.247 ± or - 0.088 ppm g) 0.707 ppm Vet vt	a) Pacific, Oregon, length 55-69 cm b) Pacific, Oregon, length 55-69 cm c) Indian Ocean, length 78-88 cm d) Indian Ocean, length 89-99 cm e) Indian Ocean, length 103-109 cm f) Pacific, Ecuador-Peru, length 86-98 cm g) Pacific, Ecuador-Peru, length 106-110 cm White flesh, midsection 1970 catch. Pacific Ocean (H), Oregon Indian Ocean Pacific Ocean (S), Ecuador-Peru ATLANTIC OCEAN; PACIFIC OCEAN; INDIAN OCEAN; BIOACCUMULATION; WATER POLLUTION; FISHES; MERCURY; LIVER; MUSCLES	Greig, B.A. Kryazevsk, J. 1979 Bulletin of Environmental Contamination and Toxicology 22:120-127

Mercury
7439-97-6
Rq
Atw 200.59, BP -38.87 C, BP 356.72 C, VP 2110(R-3) mm Hg at 25 C, 100 mm Hg at 260 C
Tuna, skipjack
TUNNUS ALALONGA

ISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	SINGLE	MEAN	GENERAL INFORMATION	REFERENCE
335 Liver			a) 12 b) 8 c) 8 d) 8	a) Not given b) Not given c) Not given d) Not given	a) 0.080 ± or - 0.050 ppm b) 0.143 ± or - 0.047 ppm c) 0.149 ± or - 0.060 ppm d) 0.270 ± or - 0.094 ppm Vet vt	a) Eastern Atlantic, length 46-52 cm b) Hawaii, length 52-56 cm, vt 3.1-3.6 kg c) Hawaii, length 4.5-6.8 cm, vt 54-66 kg d) Hawaii, length 71-76 cm, vt 8.2-10.0 kg White flesh, midsection. Data also for other muscle sections 1970 catch. Atlantic Ocean (H) Hawaii ATLANTIC OCEAN; PACIFIC OCEAN; INDIAN OCEAN; BIOACCUMULATION; WATER POLLUTION; FISHES; MERCURY; LIVER; MUSCLES	Greig, B.A. Kryazevsk, J. 1979 Bulletin of Environmental Contamination and Toxicology 22:120-127
336 Muscle			a) 12 b) 8 c) 8 d) 8	a) Not given b) Not given c) Not given d) Not given	a) 0.152 ± or - 0.073 ppm b) 0.211 ± or - 0.034 ppm c) 0.223 ± or - 0.094 ppm d) 0.159 ± or - 0.042 ppm Vet vt	a) Eastern Atlantic, length 46-52 cm b) Hawaii, length 52-56 cm, vt 3.1-3.6 kg c) Hawaii, length 59-66 cm, vt 4.5-6.8 kg d) Hawaii, length 71-76 cm, vt 8.2-10.0 kg White flesh, midsection. Data also for other muscle sections 1970 catch. Atlantic Ocean (H) Hawaii ATLANTIC OCEAN; PACIFIC OCEAN; INDIAN OCEAN; BIOACCUMULATION; WATER POLLUTION; FISHES; MERCURY; LIVER; MUSCLES	Greig, B.A. Kryazevsk, J. 1979 Bulletin of Environmental Contamination and Toxicology 22:120-127

Mercury
7439-97-6
Hg
Ats 203.59, BP -36.07 C, DP 356.72 C, VP 2810(E-3) at Hg at 25 C, 100 mm Hg at 260 C
Toxic, yellowish
THERMUS ALBACAPUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	SOURCE	REAS	GENERAL INFORMATION	REFERENCE
337 Liver			a) 16 b) 7	a) Not given b) Not given	a) 0.321 ± or - 0.204 ppm b) 0.156 ± or - 0.065 ppm Vol wt	a) Eastern Atlantic (area A), length 130-156 cm b) Eastern Atlantic (area B), length 103-112 cm 1970 catch. Atlantic Ocean (B) ATLANTIC OCEAN; PACIFIC OCEAN; INDIAN OCEAN; BIOACCUMULATION; WATER POLLUTION; FISHES; MERCURY; LIVER; MUSCLES	Graig, R.A. Kryzhevsk, J. 1979 Bulletin of Environmental Contamination and Toxicology 22:120-121
338 Muscle			a) 15 b) 6 c) 10	a) Not given b) Not given c) Not given	a) 0.350 ± or - 0.135 ppm b) 0.148 ± or - 0.039 ppm c) 0.166 ± or - 0.062 ppm Vol wt	a) Eastern Atlantic (area A), length 130-156 cm b) Eastern Atlantic (area B), length 10-60 cm c) Eastern Atlantic (area B), length 103-112 cm white flesh, midsection. Data also for other muscle sections 1970 catch. Atlantic Ocean (B) ATLANTIC OCEAN; PACIFIC OCEAN; INDIAN OCEAN; BIOACCUMULATION; WATER POLLUTION; FISHES; MERCURY; LIVER; MUSCLES	Graig, R.A. Kryzhevsk, J. 1979 Bulletin of Environmental Contamination and Toxicology 22:120-127

Mercury(II), methyl-, 100 (4-14)
Mercury(II), methyl- (9-11)
22567-82-6
C-83-Hg
EW 215.61
Toxic, lustrous
MICROPTERUS SALICIDUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	SOURCE	REAS	GENERAL INFORMATION	REFERENCE
339 Muscle		JC	5	Not given	0.32 ppm	10% of total Hg length 23-26 cm Concentration highly size dependent Reservoir constructed in early '70's. Primary source is natural soil Hg. Expected decrease in soil levels within 5 yr. Illinois (B), Jackson and Union Counties, Cedar Lake Reservoir MUSCLES; ILLINOIS; MERCURY; MERCURY ORGANIC COMPOUNDS; BIOACCUMULATION; WATER POLLUTION	Cox, J.H. Carmichael, J. Dinwiddie, J. McCoy, J. Molitor, J. 1979 Bulletin of Environmental Contamination and Toxicology 23:779-783

Mercury(10), methyl-, ion (8 CI)
 Mercury(10), methyl- (8 CI)
 27867-92-6
 C-83-8q
 00 215.63
 Beaver
 CASTOR CANADENSIS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	SEX	AGE	LEVEL	GENERAL INFORMATION	REFERENCE
340 Intestine			4	Not given		24 ppb	81.9% of total Hg at 9.96 ± or - 2.06 kg (pelt not included) No direct sources of contamination in trapping area Canada, ProCenbrian Shield, Ontario Muskoka District BEAVERS; RACCOONS; OTTERS; CANADA; INTESTINES; KIDNEYS; LIVER; MUSCLES; BIOACCUMULATION; MERCURY; MERCURY ORGANIC COMPOUNDS	Wren, C. MacCrimmon, H. Frank, P. Suda, P. 1980 Bulletin of Environmental Contamination and Toxicology 25:100-105
341 Kidney			4	Not given		29 ppb	87.4% of total Hg at 9.96 ± or - 2.06 kg (pelt not included) No direct sources of contamination in trapping area Canada, ProCenbrian Shield, Ontario Muskoka District BEAVERS; RACCOONS; OTTERS; CANADA; INTESTINES; KIDNEYS; LIVER; MUSCLES; BIOACCUMULATION; MERCURY; MERCURY ORGANIC COMPOUNDS	Wren, C. MacCrimmon, H. Frank, P. Suda, P. 1980 Bulletin of Environmental Contamination and Toxicology 25:100-105
342 Liver			4	Not given		25 ppb	78.1% of total Hg at 9.96 ± or - 2.06 kg (pelt not included) No direct sources of contamination in trapping area Canada, ProCenbrian Shield, Ontario Muskoka District BEAVERS; RACCOONS; OTTERS; CANADA; INTESTINES; KIDNEYS; LIVER; MUSCLES; BIOACCUMULATION; MERCURY; MERCURY ORGANIC COMPOUNDS	Wren, C. MacCrimmon, H. Frank, P. Suda, P. 1980 Bulletin of Environmental Contamination and Toxicology 25:100-105
343 Muscle			4	Not given		ppb	84.4% of total Hg at 9.96 ± or - 2.06 kg (pelt not included) No direct sources of contamination in trapping area Canada, ProCenbrian Shield, Ontario Muskoka District BEAVERS; RACCOONS; OTTERS; CANADA; INTESTINES; KIDNEYS; LIVER; MUSCLES; BIOACCUMULATION; MERCURY; MERCURY ORGANIC COMPOUNDS	Wren, C. MacCrimmon, H. Frank, P. Suda, P. 1980 Bulletin of Environmental Contamination and Toxicology 25:100-105

Mercury(II), methyl-, ion (9 CI)
 Mercury(II), methyl- (9 CI)
 22967-92-6
 C-83-Py
 98 215.63
 Chicken

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
344 Eggs	Ingestion	GC	2	a) 4800-6700 ng/g b) 480-490 ng/g	a) 5750 ng/g b) 487 ng/g	a) White, 95% of total Hg b) Yolk, 12.6% of total Hg Total levels 100-1000% higher than in market eggs From domestic chickens accidentally fed fungicide-treated grain. CHICKENS; EGGS; NEW YORK; FUNGICIDES; MERCURY INORGANIC COMPOUNDS; MERCURY ORGANIC COMPOUNDS; SELENIUM; BIOACCUMULATION	Cappon, C.J. Smith, J.C. 1981a Bulletin of Environmental Contamination and Toxicology 26:472-478

Mercury(II), methyl-, ion (9 CI)
 Mercury(II), methyl- (9 CI)
 22967-92-6
 C-83-Py
 98 215.63
 Deer, whitetail

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
345 Deer		GC	1	Not applicable	46.9 ppt wet wt	43.7% of total Hg Rural area. No known contamination source. New York State (N) DEER; SEALS; CANADA; NEW YORK; MEAT; LIVER; MUSCLES; COMPARATIVE EVALUATIONS; BIOACCUMULATION; MERCURY; SELENIUM	Cappon, C.J. Smith, J.C. 1981b Journal of Analytic Toxicology 5:90-98
346 Liver		GC	1	Not applicable	41.4 ppt wet wt	33.4% of total Hg Rural area. No known contamination source. New York State (N) DEER; SEALS; CANADA; NEW YORK; MEAT; LIVER; MUSCLES; COMPARATIVE EVALUATIONS; BIOACCUMULATION; MERCURY; SELENIUM	Cappon, C.J. Smith, J.C. 1981b Journal of Analytic Toxicology 5:90-98
347 Muscle		GC	1	Not applicable	18.5 ppt wet wt	20% of total Hg Rural area. No known contamination source. New York State (N) DEER; SEALS; CANADA; NEW YORK; MEAT; LIVER; MUSCLES; COMPARATIVE EVALUATIONS; BIOACCUMULATION; MERCURY; SELENIUM	Cappon, C.J. Smith, J.C. 1981b Journal of Analytic Toxicology 5:90-98

Mercury(II), methyl-, ion (0 CI)
 Mercury(II), methyl-, (9 CI)
 22667-92-6
 C-83-Hg
 MW 215.63
 Cttet
 LOTRA CARABASIS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
349 Intestine			4	Not given	391 ppb	92.39 of total Hg wt 7.33 ± or - 1.81 kg (pelt not included) No direct sources of contamination in trapping area Canada, Precambrian Shield, Ontario Peskoka District BEAVERS; RACCOONS; OTTERS; CANADA; INTESTINES; KIDNEYS; LIVER; MUSCLES; BIOACCUMULATION; MERCURY; MERCURY ORGANIC COMPOUNDS	Wron, C. MacCrimmon, H. Frank, R. Suda, P. 1980 Bulletin of Environmental Contamination and Toxicology 25:100-105
349 Kidney			4	Not given	648 ppb	62% of total Hg wt 7.33 ± or - 1.81 kg (pelt not included) No direct sources of contamination in trapping area Canada, Precambrian Shield, Ontario Peskoka District BEAVERS; RACCOONS; OTTERS; CANADA; INTESTINES; KIDNEYS; LIVER; MUSCLES; BIOACCUMULATION; MERCURY; MERCURY ORGANIC COMPOUNDS	Wron, C. MacCrimmon, H. Frank, R. Suda, P. 1980 Bulletin of Environmental Contamination and Toxicology 25:100-105
350 Liver			4	Not given	829 ppb	29.9% of total Hg wt 7.33 ± or - 1.81 kg (pelt not included) No direct sources of contamination in trapping area Canada, Precambrian Shield, Ontario Peskoka District BEAVERS; RACCOONS; OTTERS; CANADA; INTESTINES; KIDNEYS; LIVER; MUSCLES; BIOACCUMULATION; MERCURY; MERCURY ORGANIC COMPOUNDS	Wron, C. MacCrimmon, H. Frank, R. Suda, P. 1980 Bulletin of Environmental Contamination and Toxicology 25:100-105
351 Muscle			4	Not given	140 ppb	72.0% of total Hg wt 7.33 ± or - 1.81 kg (pelt not included) No direct sources of contamination in trapping area Canada, Precambrian Shield, Ontario Peskoka District BEAVERS; RACCOONS; OTTERS; CANADA; INTESTINES; KIDNEYS; LIVER; MUSCLES; BIOACCUMULATION; MERCURY; MERCURY ORGANIC COMPOUNDS	Wron, C. MacCrimmon, H. Frank, R. Suda, P. 1980 Bulletin of Environmental Contamination and Toxicology 25:100-105

Mercury(1+), methyl-, ion (8 CI)
 Mercury(1+), methyl-, (9 CI)
 22967-92-6
 C-93-Hg
 MW 215.63
 Racoon
 86025 LOT08

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
352 Spleen			4	Not given	425 ppt	87.8% of total Hg wt 50 + or - 0.86 kg (pelt not included) No direct sources of contamination in trapping area Canada, ProCenbrian Shield, Ontario Peskoka District BEAVERS; RACCOONS; OTTERS; CANADA; INTESTINES; KIDNEYS; LIVER; MUSCLES; BIOACCUMULATION; MERCURY; MERCURY ORGANIC COMPOUNDS	Wren, C. MacCrimmon, H. Frank, B. Suda, P. 1980 Bulletin of Environmental Contamination and Toxicology 25:100-105
353 Liver			4	Not given	484 ppt	10.7% of total Hg wt 50 + or - 0.86 kg (pelt not included) No direct sources of contamination in trapping area Canada, ProCenbrian Shield, Ontario Peskoka District BEAVERS; RACCOONS; OTTERS; CANADA; INTESTINES; KIDNEYS; LIVER; MUSCLES; BIOACCUMULATION; MERCURY; MERCURY ORGANIC COMPOUNDS	Wren, C. MacCrimmon, H. Frank, B. Suda, P. 1980 Bulletin of Environmental Contamination and Toxicology 25:100-105
354 Muscle			4	Not given	235 ppt	84.8% of total Hg wt 50 + or - 0.86 kg (pelt not included) No direct sources of contamination in trapping area Canada, ProCenbrian Shield, Ontario Peskoka District BEAVERS; RACCOONS; OTTERS; CANADA; INTESTINES; KIDNEYS; LIVER; MUSCLES; BIOACCUMULATION; MERCURY; MERCURY ORGANIC COMPOUNDS	Wren, C. MacCrimmon, H. Frank, B. Suda, P. 1980 Bulletin of Environmental Contamination and Toxicology 25:100-105

198

Mercury(1+), methyl-, ion (8 CI)
 Mercury(1+), methyl-, (9 CI)
 22967-92-6
 C-93-Hg
 MW 215.63
 Seal

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
355 Liver		20	1	Not applicable	478.2 ppb wet wt	5.1% of total Hg Canada, Quebec (N), Inuit Eskimo Community EELS; SEALS; CANADA; NEW YORK; HEART; LIVER; MUSCLES; COMPARATIVE EVALUATIONS; BIOACCUMULATION; MERCURY; SELENIUM	Cappon, C.J. Smith, J.C. 1981b Journal of Analytic Toxicology 5:90-98

(MEL, PAGE)

Mercury(1+), methyl-, ion (8 CI)
 Mercury(1+), methyl- (9 CI)
 22567-92-6
 C-83-84
 98 215.63
 Seal

(CONTINUED)

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
355 Muscle		GC	1	Not applicable	267.9 ppb wet wt	62.94 total Hg Canada, Quebec (N), Inuit Eskimo Community SPEC: SHELS; CANADA; NEW YORK; MEANT; LIVER; MUSCLES; COMPARATIVE EVALUATIONS; BIOACCUMULATION; MERCURY; SELENIUM	Cappon, C.J. Smith, J.C. 1981b Journal of Analytic Toxicology 3:90-98

Sclybdenus
 7439-93-7
 Sc
 MW 95.98, BP 2622 C, SP 4825 C (approx), VP 1 mm Hg at 3300 C, 10 mm Hg at 3770 C
 Antelope, prairiehorn
 ANTILOPES AMERICAN

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
357 Kidney		AAS	27	< 2 ug/g dry wt	Not given	Ages < 10-85 mo, assumed healthy. Vegetation analysis indicates pristine area free from gross pollution. Montana, Northern Great Plains SPEC: ANTelope; MONTANA; KIDNEYS; LIVER; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MANGANESE; NITRATES; POLYBROMIN; SICKLE; ZINC	Munshower, P.F. Neuman, D.R. 1979 Bulletin of Environmental Contamination and Toxicology 22:827-832
358 Liver		AAS		< 2 ug/g dry wt	Not given	Ages < 10-85 mo, assumed healthy. Vegetation analysis indicates pristine area free from gross pollution. Montana, Northern Great Plains SPEC: ANTelope; MONTANA; KIDNEYS; LIVER; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MANGANESE; NITRATES; POLYBROMIN; SICKLE; ZINC	Munshower, P.F. Neuman, D.R. 1979 Bulletin of Environmental Contamination and Toxicology 22:827-832

polybdenum
7439-93-7

SC

ATN 95.94, MP 2622 C, BP 4825 C (approx), VP 1 mm Hg at 330 C, 10 mm Hg at 3770 C

cattle

ECS sp.

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
359 Blood	Ingestion	AAS	20	a) Not applicable b) 0.004-0.096 ppa c) Not applicable d) 0.030-0.060 ppa	a) < 0.01 ppa b) 0.035 ppa c) < 0.01 ppa d) 0.048 ppa	a) Pastures fertilized with treated raffinate, pre-test b) Pastures fertilized wit. treated raffinate, post-test c) Controls, pre-test d) Controls, post-test Grazing on plots treated with raffinate (100 lb N/acre) or commercial fertilizer (100 lb N/acre). Applied 5/79 and 7/79 Black, white-faced calves, mean pre-test wt 337 lb, mean post-test wt 465 lb. No pathological changes CATTLE: RAFFINATE; RADIUM 226; THORIUM 230; ARSENIC; CADMIUM; COPPER; LEAD; MOLYBDENUM; NICKEL; URANIUM; ZINC; BIOACCUMULATION; CHLORONA; BLOOD; BLOOD SERUM; KIDNEYS; LIVER; MUSCLES	Edwards, W.C. Dooley, A.L. 1980 Veterinary and Human Toxicology 22(5):309-311
360 Kidney		AAS	190	Not detected-1.85 ppa wet wt	0.31 + or - 0.28 ppa wet wt	Samples from 8 widely separated regions. Significant differences between regions and within the same region. Australia, New South Wales CATTLE: ARSENIC; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; MANGANESE; MERCURY; MOLYBDENUM; NICKEL; SILICON; ZINC; AUSTRALIA; KIDNEYS; LIVER	Flanjan, J. Lee, H.Y. 1979 Journal of the Science of Food and Agriculture 30:503-507
361 Kidney	Ingestion	AAS	a) 4 b) 4	a) Not given b) Not given	a) 1.35 ppa b) 5.04 ppa wet wt	a) Pastures fertilized with treated raffinate b) Controls Grazing 4 ac on plots treated with raffinate (100 lb N/acre) or commercial fertilizer (100 lb N/acre). Applied 5/79 and 7/79 Black, white-faced calves, mean pre-test wt 337 lb, mean post-test wt 465 lb. No pathological changes CATTLE: RAFFINATE; RADIUM 226; THORIUM 230; ARSENIC; CADMIUM; COPPER; LEAD; MOLYBDENUM; NICKEL; URANIUM; ZINC; BIOACCUMULATION; CHLORONA; BLOOD; BLOOD SERUM; KIDNEYS; LIVER; MUSCLES	Edwards, W.C. Dooley, A.L. 1980 Veterinary and Human Toxicology 22(5):309-311
362 Liver		AAS	190	< 0.15-2.41 ppa wet wt	0.88 + or - 0.39 ppa wet wt	Samples from 8 widely separated regions. Significant differences between regions and within the same region. Australia, New South Wales CATTLE: ARSENIC; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; MANGANESE; MERCURY; MOLYBDENUM; NICKEL; SILICON; ZINC; AUSTRALIA; KIDNEYS; LIVER	Flanjan, J. Lee, H.Y. 1979 Journal of the Science of Food and Agriculture 30:503-507

(CONT PAGE)

Sclybdena

7439-98-7

Sc

At 95.94, N 2522 C, SP 4825 C (approx), VP 1 mm Hg at 3300 C, 10 mm Hg at 3770 C

Cattle

ICS Sp.

(CONTINUED)

TISSUE	EXPOSURE SCOTS	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
363 Liver	Ingestion	AAS	a) 4 b) 4	a) Not given b) Not given	a) 1.83 ppm b) 4.58 ppm Net wt	a) Pastures fertilized with treated raffinate b) Controls Grazing 6 so on plots treated with raffinate (100 lb N/acre) or commercial fertilizer (100 lb N/acre). Applied 5/79 and 7/79 Black, white-faced calves, mean pre-test wt 337 lb, mean post-test wt 445 lb. No pathological changes CATTLE; RAFFINATE; BADIUM 226; THORIUM 230; ARSENIC; CADMIUM; COPPER; LEAD; MOLYBDENUM; NICKEL; URANIUM; ZINC; BIOACCUMULATION; CROMONA; BICOD; BLOOD SERUM; KIDNEYS; LIVER; MUSCLES	Edwards, W.C. Dooley, A.L. 1980 Veterinary and Human Toxicology 22(5):309-311
364 Muscle	Ingestion	AAS	a) 4 b) 4	a) Not given b) Not given	a) 0.90 ppm b) 3.89 ppm Net wt	a) Pastures fertilized with treated raffinate b) Controls Grazing on 6 so plots treated with raffinate (100 lb N/acre) or commercial fertilizer (100 lb N/acre). Applied 5/79 and 7/79 Black, white-faced calves, mean pre-test wt 337 lb, mean post-test wt 445 lb. No pathological changes CATTLE; RAFFINATE; BADIUM 226; THORIUM 230; ARSENIC; CADMIUM; COPPER; LEAD; MOLYBDENUM; NICKEL; URANIUM; ZINC; BIOACCUMULATION; CROMONA; BICOD; BLOOD SERUM; KIDNEYS; LIVER; MUSCLES	Edwards, W.C. Dooley, A.L. 1980 Veterinary and Human Toxicology 22(5):309-311

Sclybdena

7439-98-7

Sc

At 95.94, N 2622 C, SP 4925 C (approx), VP 1 mm Hg at 3300 C, 10 mm Hg at 3770 C

deer, male

CROCOILSUS BENTONIS

TISSUE	EXPOSURE SCOTS	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
365 Kidney		AAS	30	< 2 ug/g dry wt	Not given	Ages < 10-85 so, assumed healthy. Vegetation analysis indicates pristine area free from gross pollution. Montana, Northern Great Plains LIVER; ANTELOPE; MONTANA; KIDNEYS; LIVER; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MANGANESE; METALS; MOLYBDENUM; NICKEL; ZINC	Munshover, F.P. Neuman, D.B. 1979 Bulletin of Environmental Contamination and Toxicology 22:827-832

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(CONTINUED)

NEW 95.94, 2622 C, 32 4925 C (approx), 47 1 11 42 3300 C, 10 11 42 3770 C

(8146, 21884)

Sclybdenus

7439-33-7

3c

Atm 95.94, SP 2622 C, SP 4825 C (approx), VP 1 mm Hg at 3300 C, 10 mm Hg at 3770 C

Source, Deer

RESCENTSCUS BASTICULATUS

(CONTINUED)

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
370 Liver		AAS	a) 45 b) 45 c) 45	a) 4.4-9.0 ppm b) 5.9-12.0 ppm c) 5.7-12.0 ppm Dry wt	a) 6.5 ± or = 5.4 ppm b) 8.0 ± or = 1.4 ppm c) 5.7 ± or = 10.0 ppm Dry wt	a) Flagon-Jupiter habitat b) Mountain shrub habitat c) Big sagebrush habitat Significant difference in levels between habitats (P<0.05) Captured 6/78 near oil shale tracts before mining initiated. Colorado, Rio Blanco County, Piceance Creek Basin DEER: HIC; MOLE DEER; BORON; COPPER; FLUORINE; POLYBROMINE; COLORADO; ICHIS; KICHIS; LIVER	Statler, L.H. 1980 Journal of Wildlife Diseases 16(2):175-182

Nickel

7442-32-1

3f

Atm 59.71, SP 1855 C, SP 2337 C, VP 10 mm Hg at 2090 C, 100 mm Hg at 2370 C

Antelope, prairie

ANTILOPUS AMERICANUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
371 Liver		AAS		Most were < 0.5 ug/g dry wt	Not given	Agon < 10-85 no, assumed healthy. Vegetation analysis indicates pristine area free from gross pollution. Montana, Northern Great Plains DEER; ANTILOPE; MONTANA; KIDNEYS; LIVER; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MANGANESE; NITRATES; POLYBROMINE; NICKEL; ZINC	Munshower, F.F. Neuman, D.R. 1979 Bulletin of Environmental Contamination and Toxicology 22:827-832
372 Liver		AAS		Most were < 0.5 ug/g dry wt	Not given	Agon < 10-85 no, assumed healthy. Vegetation analysis indicates pristine area free from gross pollution. Montana, Northern Great Plains DEER; ANTILOPE; MONTANA; KIDNEYS; LIVER; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MANGANESE; NITRATES; POLYBROMINE; NICKEL; ZINC	Munshower, F.F. Neuman, D.R. 1979 Bulletin of Environmental Contamination and Toxicology 22:827-832

Michel
 7000-2-3
 1
 16 59.71. 8P 1055 C. 8P 2837 C. P2 10 00 Hg at 2090 C. 100 00 Hg at 2370 C

115528	REPORTING POWER	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
373 Spleen	Ingestion	AA5	20	a) Not applicable b) Not applicable	a) 0.10 ppm b) 0.10 ppm	a) Pastures fertilized with treated fertilizer b) Controls Grazing 8 mo on plots treated with radioactive (100 lb N/acre) of concentrated fertilizer (100 lb N/acre). Affected 5/79 and 7/79 black, white-faced calves, mean pre-test wt 337 lb, post-test wt 665 lb. No pathological changes CATTLE: RADIUM 226; THORIUM 230; ARSENIC; CADMIUM; COPPER; LEAD; POLYBROMINE; SICKLE; STRONTIUM; ZINC; BIOACCUMULATION; CHLORINE; BLOOD; BLOOD SUGAR; KIDNEYS; LIVER; MUSCLES	Edwards, W.C. Dooley, A.L. 1980 Veterinary and Human Toxicology 22(5):309-311
374 Liver		AA5	190	Not detected-5.80 ppm wet wt	0.46 ± or - 0.07 p.p.m. wet wt	Samples from 8 widely separated regions. Significant differences between regions and within the same region. Australia, New South Wales CATTLE: ARSENIC; CADMIUM; CHROMIUM; COPPER; LEAD; MANGANESE; MERCURY; POLYBROMINE; SICKLE; STRONTIUM; ZINC; AUSTRALIA; KIDNEYS; LIVER	Flanagan, J. Lee, M.J. 1979 Journal of the Science of Food and Agriculture 30:503-507
375 Kidney	Ingestion	AA5	a) 4 b) 4	a) Not given b) Not given	a) 0.10 ppm b) 0.16 ppm wet wt	a) Pastures fertilized with treated fertilizer b) Controls Grazing 8 mo on plots treated with radioactive (100 lb N/acre) of concentrated fertilizer (100 lb N/acre). Affected 5/79 and 7/79 black, white-faced calves, mean pre-test wt 337 lb, mean post-test wt 665 lb. No pathological changes CATTLE: RADIUM 226; THORIUM 230; ARSENIC; CADMIUM; COPPER; LEAD; POLYBROMINE; SICKLE; STRONTIUM; ZINC; BIOACCUMULATION; CHLORINE; BLOOD; BLOOD SUGAR; KIDNEYS; LIVER; MUSCLES	Edwards, W.C. Dooley, A.L. 1980 Veterinary and Human Toxicology 22(5):309-311
376 Liver		AA5	190	< 0.04-8.82 ppm wet wt	0.33 ± or - 0.34 ppm wet wt	Samples from 8 widely separated regions. Significant differences between regions and within the same region. Australia, New South Wales CATTLE: ARSENIC; CADMIUM; CHROMIUM; COPPER; LEAD; MANGANESE; MERCURY; POLYBROMINE; SICKLE; STRONTIUM; ZINC; AUSTRALIA; KIDNEYS; LIVER	Flanagan, J. Lee, M.J. 1979 Journal of the Science of Food and Agriculture 30:503-507

(MERT 4 AGM)

Sickel
7440-32-3
B1
At 58.71, BP 1455 C, SP 2337 C, VP 10 mm Hg at 2090 C, 100 mm Hg at 2376 C
Cattle
SCS sp.

(CONTINUED)

SYSTEM	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
377 Liver	Ingestion	AAS	a) 5 b) 4	a) Not given b) Not given	a) 0.13 ppa b) 0.07 ppa Vet wt	a) Pastures fertilized with treated raffinate b) Controls Grazing 6 so on plots treated with raffinate (100 lb N/acre) or commercial fertilizer (100 lb N/acre). Applied 5/79 and 7/79 Black, white-faced calves, mean pre-test wt 337 lb, mean post-test wt 465 lb. No pathological changes CATTLE; RAFFINATE; RADIUM 226; IRONIUM 230; ARSENIC; CADMIUM; COFFER; LEAD; MOLYBDENUM; NICKEL; OSMIUM; ZINC; BIOACCUMULATION; CHLORINE; BLOOD; BLOOD SERUM; KIDNEYS; LIVER; MUSCLES	Edwards, W.C. Dooley, A.L. 1980 Veterinary and Human Toxicology 22(5):309-311
378 Muscle	Ingestion	AAS	a) 4 b) 4	a) Not given b) Not given	a) 0.16 ppa b) 0.15 ppa Vet wt	a) Pastures fertilized with treated raffinate b) Controls Grazing 6 so on plots treated with raffinate (100 lb N/acre) or commercial fertilizer (100 lb N/acre). Applied 5/79 and 7/79 Black, white-faced calves, mean pre-test wt 337 lb, mean post-test wt 465 lb. No pathological changes CATTLE; RAFFINATE; RADIUM 226; IRONIUM 230; ARSENIC; CADMIUM; COFFER; LEAD; MOLYBDENUM; NICKEL; OSMIUM; ZINC; BIOACCUMULATION; CHLORINE; BLOOD; BLOOD SERUM; KIDNEYS; LIVER; MUSCLES	Edwards, W.C. Dooley, A.L. 1980 Veterinary and Human Toxicology 22(5):309-311

205

Sickel
7443-32-3
B1
At 58.71, BP 1455 C, SP 2437 C, VP 10 mm Hg at 2090 C, 100 mm Hg at 2470 C
Cattle, male
CCCCGL375 H101075

SYSTEM	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
379 Kidney		AAS		Most were < 0.5 mg/kg dry wt	Not given	Agers < 10-85 so, assumed healthy. Vegetation analysis indicates pristine area free from gross pollution. Montana, Northern Great Plains FIB; ANTIPODE; MONTANA; KIDNEYS; LIVER; BIOACCUMULATION; CADMIUM; COFFER; LEAD; MANGANESE; METALS; MOLYBDENUM; NICKEL; ZINC	Munshower, P.F. Neuman, D.R. 1979 Bulletin of Environmental Contamination and Toxicology 22:827-832

(NEXT PAGE)

Octadecahydroxanoic acid (3 CI)
 Octadecahydroxanoic acid (9 CI)
 3177-33-3
 C₁₈H₃₅O₂
 M_r 283.50, M_w 283.50
 Toxic, brook
 SALVEMINS CONTINUED

(CONTINUED)

TESTS	EXPOSURE POINTS	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
333 3116		Radioactivity	a) 1 b) 1 c) 1	a) Not given b) Not given c) Not given	a) 257.2 ± or - 18.4 44/9 b) 507.5 ± or - 18.4 44/9 c) 437.6 ± or - 20.1 44/9 Net wt	a) 24 hr b) 48 hr c) 72 hr Time of exposure in 3 l H ₂ O containing 6-7 µg/l p-octano-1-C18-hydroxanoic acid Fish wt 75-150 g. CICUM; GOWATS; GILLS; ALKYLHYDROXANOIC ACIDS; CANADA; ADULTS; ADIPOSE TISSUE; BILE; BLOOD PLASMA; BRAIN; HEART; INTESTINES; KIDNEYS; LIVER; MUSCLES; SKIN; SPLEEN; STOMACH; BIOACCUMULATION; FISHES; INDUSTRIAL POLLUTION; WATER POLLUTION	Darrow, D.C. Addison, R.P. 1979 Bulletin of Environmental Contamination and Toxicology 22:265-270
334 31301 31301		Radioactivity	a) 1 b) 1 c) 1	a) Not given b) Not given c) Not given	a) 4.3 ± or - 4.3 44/9 b) 7.4 ± or - 1.2 44/9 c) 10.5 ± or - 1.4 44/9 Net wt	a) 24 hr b) 48 hr c) 72 hr Time of exposure in 3 l H ₂ O containing 6-7 µg/l p-octano-1-C18-hydroxanoic acid Fish wt 75-150 g. CICUM; GOWATS; GILLS; ALKYLHYDROXANOIC ACIDS; CANADA; ADULTS; ADIPOSE TISSUE; BILE; BLOOD PLASMA; BRAIN; HEART; INTESTINES; KIDNEYS; LIVER; MUSCLES; SKIN; SPLEEN; STOMACH; BIOACCUMULATION; FISHES; INDUSTRIAL POLLUTION; WATER POLLUTION	Darrow, D.C. Addison, R.P. 1979 Bulletin of Environmental Contamination and Toxicology 22:265-270
335 31301		Radioactivity	a) 1 b) 1 c) 1	a) Not given b) Not given c) Not given	a) 12.5 ± or - 5.3 44/9 b) 17.1 ± or - 1.0 44/9 c) 24.2 ± or - 1.4 44/9 Net wt	a) 24 hr b) 48 hr c) 72 hr Time of exposure in 3 l H ₂ O containing 6-7 µg/l p-octano-1-C18-hydroxanoic acid Fish wt 75-150 g. CICUM; GOWATS; GILLS; ALKYLHYDROXANOIC ACIDS; CANADA; ADULTS; ADIPOSE TISSUE; BILE; BLOOD PLASMA; BRAIN; HEART; INTESTINES; KIDNEYS; LIVER; MUSCLES; SKIN; SPLEEN; STOMACH; BIOACCUMULATION; FISHES; INDUSTRIAL POLLUTION; WATER POLLUTION	Darrow, D.C. Addison, R.P. 1979 Bulletin of Environmental Contamination and Toxicology 22:265-270
336 31301		Radioactivity	a) 1 b) 1 c) 1	a) Not given b) Not given c) Not given	a) 10.5 ± or - 4.2 44/9 b) 22.5 ± or - 1.2 44/9 c) 24.9 ± or - 2.9 44/9 Net wt	a) 24 hr b) 48 hr c) 72 hr Time of exposure in 3 l H ₂ O containing 6-7 µg/l p-octano-1-C18-hydroxanoic acid Fish wt 75-150 g. CICUM; GOWATS; GILLS; ALKYLHYDROXANOIC ACIDS; CANADA; ADULTS; ADIPOSE TISSUE; BILE; BLOOD PLASMA; BRAIN; HEART; INTESTINES; KIDNEYS; LIVER; MUSCLES; SKIN; SPLEEN; STOMACH; BIOACCUMULATION; FISHES; INDUSTRIAL POLLUTION; WATER POLLUTION	Darrow, D.C. Addison, R.P. 1979 Bulletin of Environmental Contamination and Toxicology 22:265-270

(NEXT PAGE)

Octanoic acid (3.0)
Octanoic acid, n-hexyl- (0.1)
197-13-9
C8-17-8-01
R. 196.23, 57.7d, 3-7. C
Treat. 00000
EVALUATING CONTAMINANTS

(CONTINUED)

TESTS	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF FISH	DOSAGE	MEAN	GENERAL INFORMATION	REFERENCE
347 Gills		Balloetry	a) 1 b) 1 c) 1	a) Not given b) Not given c) Not given	a) 19.0 ± SE = 4.1 4g/g b) 24.5 ± SE = 3.5 4g/g c) 11.6 ± SE = 6.1 4g/g Net wt	a) 24 hr b) 48 hr c) 72 hr Time of exposure in 3 l H ₂ O containing 4-7 µg/l n-octano-1-Cis-hydroxanoic acid Fish wt 75-150 g. CICUM; JONAS; GILLS; ALKYLHYDROXANOIC ACIDS; CANADA; ADULTS; ADIPOSE TISSUE; BILE; BLOOD PLASMA; BRAIN; HEART; INTESTINES; KIDNEYS; LIVER; MUSCLES; SPIN; SPLEEN; STOMACH; BIOACCUMULATION; FISHES; INDUSTRIAL POLLUTION; WATER POLLUTION	Darrov, D.C. Addison, S.P. 1979 Bulletin of Environmental Contamination and Toxicology 22:265-270
348 Gills		Balloetry	a) 1 b) 1 c) 1	a) Not given b) Not given c) Not given	a) 6.6 ± SE = 2.8 4g/g b) 13.4 ± SE = 8.1 4g/g c) 24.0 4g/g Net wt	a) 24 hr b) 48 hr c) 72 hr Time of exposure in 3 l H ₂ O containing 4-7 µg/l n-octano-1-Cis-hydroxanoic acid Fish wt 75-150 g. CICUM; JONAS; GILLS; ALKYLHYDROXANOIC ACIDS; CANADA; ADULTS; ADIPOSE TISSUE; BILE; BLOOD PLASMA; BRAIN; HEART; INTESTINES; KIDNEYS; LIVER; MUSCLES; SPIN; SPLEEN; STOMACH; BIOACCUMULATION; FISHES; INDUSTRIAL POLLUTION; WATER POLLUTION	Darrov, D.C. Addison, S.P. 1979 Bulletin of Environmental Contamination and Toxicology 22:265-270
349 Heart		Balloetry	a) 1 b) 1 c) 1	a) Not given b) Not given c) Not given	a) 6.6 ± SE = 3.1 4g/g b) 13.6 ± SE = 8.7 4g/g c) 14.2 ± SE = 6.1 4g/g Net wt	a) 24 hr b) 48 hr c) 72 hr Time of exposure in 3 l H ₂ O containing 4-7 µg/l n-octano-1-Cis-hydroxanoic acid Fish wt 75-150 g. CICUM; JONAS; GILLS; ALKYLHYDROXANOIC ACIDS; CANADA; ADULTS; ADIPOSE TISSUE; BILE; BLOOD PLASMA; BRAIN; HEART; INTESTINES; KIDNEYS; LIVER; MUSCLES; SPIN; SPLEEN; STOMACH; BIOACCUMULATION; FISHES; INDUSTRIAL POLLUTION; WATER POLLUTION	Darrov, D.C. Addison, S.P. 1979 Bulletin of Environmental Contamination and Toxicology 22:265-270
350 Intestine		Balloetry	a) 1 b) 1 c) 1	a) Not given b) Not given c) Not given	a) 10.6 ± SE = 4.4 4g/g b) 22.8 ± SE = 7.7 4g/g c) 33.5 ± SE = 8.1 4g/g Net wt	a) 24 hr b) 48 hr c) 72 hr Time of exposure in 3 l H ₂ O containing 4-7 µg/l n-octano-1-Cis-hydroxanoic acid Fish wt 75-150 g. CICUM; JONAS; GILLS; ALKYLHYDROXANOIC ACIDS; CANADA; ADULTS; ADIPOSE TISSUE; BILE; BLOOD PLASMA; BRAIN; HEART; INTESTINES; KIDNEYS; LIVER; MUSCLES; SPIN; SPLEEN; STOMACH; BIOACCUMULATION; FISHES; INDUSTRIAL POLLUTION; WATER POLLUTION	Darrov, D.C. Addison, S.P. 1979 Bulletin of Environmental Contamination and Toxicology 22:265-270

(H817 P418)

11333	11334	11335	11336	11337	11338	11339	11340	11341	11342	11343	11344	11345	11346	11347	11348	11349	11350	11351	11352	11353	11354	11355	11356	11357	11358	11359	11360	11361	11362	11363	11364	11365	11366	11367	11368	11369	11370	11371	11372	11373	11374	11375	11376	11377	11378	11379	11380	11381	11382	11383	11384	11385	11386	11387	11388	11389	11390	11391	11392	11393	11394	11395	11396	11397	11398	11399	11400	11401	11402	11403	11404	11405	11406	11407	11408	11409	11410	11411	11412	11413	11414	11415	11416	11417	11418	11419	11420	11421	11422	11423	11424	11425	11426	11427	11428	11429	11430	11431	11432	11433	11434	11435	11436	11437	11438	11439	11440	11441	11442	11443	11444	11445	11446	11447	11448	11449	11450	11451	11452	11453	11454	11455	11456	11457	11458	11459	11460	11461	11462	11463	11464	11465	11466	11467	11468	11469	11470	11471	11472	11473	11474	11475	11476	11477	11478	11479	11480	11481	11482	11483	11484	11485	11486	11487	11488	11489	11490	11491	11492	11493	11494	11495	11496	11497	11498	11499	11500	11501	11502	11503	11504	11505	11506	11507	11508	11509	11510	11511	11512	11513	11514	11515	11516	11517	11518	11519	11520	11521	11522	11523	11524	11525	11526	11527	11528	11529	11530	11531	11532	11533	11534	11535	11536	11537	11538	11539	11540	11541	11542	11543	11544	11545	11546	11547	11548	11549	11550	11551	11552	11553	11554	11555	11556	11557	11558	11559	11560	11561	11562	11563	11564	11565	11566	11567	11568	11569	11570	11571	11572	11573	11574	11575	11576	11577	11578	11579	11580	11581	11582	11583	11584	11585	11586	11587	11588	11589	11590	11591	11592	11593	11594	11595	11596	11597	11598	11599	11600	11601	11602	11603	11604	11605	11606	11607	11608	11609	11610	11611	11612	11613	11614	11615	11616	11617	11618	11619	11620	11621	11622	11623	11624	11625	11626	11627	11628	11629	11630	11631	11632	11633	11634	11635	11636	11637	11638	11639	11640	11641	11642	11643	11644	11645	11646	11647	11648	11649	11650	11651	11652	11653	11654	11655	11656	11657	11658	11659	11660	11661	11662	11663	11664	11665	11666	11667	11668	11669	11670	11671	11672	11673	11674	11675	11676	11677	11678	11679	11680	11681	11682	11683	11684	11685	11686	11687	11688	11689	11690	11691	11692	11693	11694	11695	11696	11697	11698	11699	11700	11701	11702	11703	11704	11705	11706	11707	11708	11709	11710	11711	11712	11713	11714	11715	11716	11717	11718	11719	11720	11721	11722	11723	11724	11725	11726	11727	11728	11729	11730	11731	11732	11733	11734	11735	11736	11737	11738	11739	11740	11741	11742	11743	11744	11745	11746	11747	11748	11749	11750	11751	11752	11753	11754	11755	11756	11757	11758	11759	11760	11761	11762	11763	11764	11765	11766	11767	11768	11769	11770	11771	11772	11773	11774	11775	11776	11777	11778	11779	11780	11781	11782	11783	11784	11785	11786	11787	11788	11789	11790	11791	11792	11793	11794	11795	11796	11797	11798	11799	11800	11801	11802	11803	11804	11805	11806	11807	11808	11809	11810	11811	11812	11813	11814	11815	11816	11817	11818	11819	11820	11821	11822	11823	11824	11825	11826	11827	11828	11829	11830	11831	11832	11833	11834	11835	11836	11837	11838	11839	11840	11841	11842	11843	11844	11845	11846	11847	11848	11849	11850	11851	11852	11853	11854	11855	11856	11857	11858	11859	11860	11861	11862	11863	11864	11865	11866	11867	11868	11869	11870	11871	11872	11873	11874	11875	11876	11877	11878	11879	11880	11881	11882	11883	11884	11885	11886	11887	11888	11889	11890	11891	11892	11893	11894	11895	11896	11897	11898	11899	11900	11901	11902	11903	11904	11905	11906	11907	11908	11909	11910	11911	11912	11913	11914	11915	11916	11917	11918	11919	11920	11921	11922	11923	11924	11925	11926	11927	11928	11929	11930	11931	11932	11933	11934	11935	11936	11937	11938	11939	11940	11941	11942	11943	11944	11945	11946	11947	11948	11949	11950	11951	11952	11953	11954	11955	11956	11957	11958	11959	11960	11961	11962	11963	11964	11965	11966	11967	11968	11969	11970	11971	11972	11973	11974	11975	11976	11977	11978	11979	11980	11981	11982	11983	11984	11985	11986	11987	11988	11989	11990	11991	11992	11993	11994	11995	11996	11997	11998	11999	12000
333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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UNRECORDED

Octadecahydrozoic acid (8 Cl)
Octadecahydro-2-hydroxy- (9 Cl)
7377-43-5
CG-817-B-02
AS 75-23, HQ 75-5-79 C
Iron", Brook
SALLY, 1983 PORTNALLIS

(CONTINUED)

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
295 Spleen		Radioactivity	a) 1 b) 1 c) 1	a) Not given b) Not given c) Not given	a) 11.7 ± or - 7.1 b) 10.5 ± or - 4.4 c) 23.4 ± or - 6.6 ug/g wet wt	a) 24 hr b) 48 hr c) 72 hr Time of exposure in 3 L H2O containing 6-7 mg/l p-octadecahydrozoic acid Fish wt 75-150 g. CICHU; GONATS; GILLS; ALKYLHYDROXAMIC ACIDS; CANADA; ADULTS; ADIPOSE TISSUE; MILK; BLOOD PLASMA; BRAIN; BLADDER; INTESITINE; KIDNEY; LIVER; MUSCLE; SPINE; SPLEEN; STOMACH; PROACROMOLATION; FISHES; INDUSTRIAL POLLUTION; WATER POLLUTION	PERROW, D.C. 1979 1979 Bulletin of Environmental Contamination and Toxicology 23: 265-270
296 Stomach		Radioactivity	a) 1 b) 1 c) 1	a) Not given b) Not given c) Not given	a) 7.4 ± or - 3.3 b) 10.2 ± or - 4.4 c) 14.7 ± or - 2.9 ug/g wet wt	a) 24 hr b) 48 hr c) 72 hr Time of exposure in 3 L H2O containing 6-7 mg/l p-octadecahydrozoic acid Fish wt 75-150 g. CICHU; GONATS; GILLS; ALKYLHYDROXAMIC ACIDS; CANADA; ADULTS; ADIPOSE TISSUE; MILK; BLOOD PLASMA; BRAIN; BLADDER; INTESITINE; KIDNEY; LIVER; MUSCLE; SPINE; SPLEEN; STOMACH; PROACROMOLATION; FISHES; INDUSTRIAL POLLUTION; WATER POLLUTION	PERROW, D.C. 1979 1979 Bulletin of Environmental Contamination and Toxicology 23: 265-270

Shovel, pentachloro-
 47-04-3
 C6-9-C13-0
 00 304.33, 30 194-191 C, 30 309-310 C (decomp), VP 40 on Rq at 211.2 C
 305 sp.

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	SAMPLE	MEAN	CRITICAL INFORMATION	REFERENCE
307 Blood	Ingestion		24	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given	a) 62.9 ± or - 8.81 ppm b) 78.1 ± or - 5.28 ppm c) 64.1 ± or - 6.14 d) 67.6 ± or - 12.6 ppm e) 71.5 ± or - 77.0 ppm f) 77.0 ± or - 12.7 ppm g) 0.93 ± or - 0.27 ppm h) 0.74 ± or - 0.19 ppm Set wt	a) After 5 mg/kg body wt/day for 15 days b) After 5 mg/kg body wt/day for 30 days c) After 10 mg/kg body wt/day for 15 days d) After 10 mg/kg body wt/day for 30 days e) After 15 mg/kg body wt/day for 15 days f) After 15 mg/kg body wt/day for 30 days g) Controls, given lactose for 15 days h) Controls, given lactose for 30 days 6 wk old pigs. No overt signs of toxicosis. Enlarged livers, increased urea nitrogen levels and lowered white blood cell counts in 10 and 15 mg/kg groups. JUVENILES; PIGS; SOUTH DAKOTA; AUTOPSY; BLOOD; KIDNEYS; LIVER; MUSCLES; BIOACCUMULATION; CHLORINE ORGANIC COMPOUNDS	Greichus, Y.A. Libal, G.W. Johnson, D.D. 1979 Bulletin of Environmental Contamination and Toxicology 23:418-422
308 Kidney	Ingestion		a) 5 b) 5 c) 5 d) 5	a) Not given b) Not given c) Not given d) Not given	a) 22.0 ± or - 3.16 ppm b) 24.2 ± or - 4.20 ppm c) 26.6 ± or - 7.27 ppm d) 0.21 ± or - 0.07 ppm Set wt	a) After 5 mg/kg body wt/day for 30 days b) After 10 mg/kg body wt/day for 30 days c) After 15 mg/kg body wt/day for 30 days d) Controls 6 wk old pigs. No overt signs of toxicosis. Enlarged livers, increased urea nitrogen levels and lowered white blood cell counts in 10 and 15 mg/kg groups. JUVENILES; PIGS; SOUTH DAKOTA; AUTOPSY; BLOOD; KIDNEYS; LIVER; MUSCLES; BIOACCUMULATION; CHLORINE ORGANIC COMPOUNDS	Greichus, Y.A. Libal, G.W. Johnson, D.D. 1979 Bulletin of Environmental Contamination and Toxicology 23:418-422
309 Liver	Ingestion		a) 6 b) 6 c) 6 d) 6	a) Not given b) Not given c) Not given d) Not given	a) 20.9 ± or - 10.7 ppm b) 24.1 ± or - 1.89 ppm c) 20.8 ± or - 4.45 ppm d) 0.94 ± or - 0.12 ppm Set wt	a) After 5 mg/kg body wt/day for 30 days b) After 10 mg/kg body wt/day for 30 days c) After 15 mg/kg body wt/day for 30 days d) Controls 6 wk old pigs. No overt signs of toxicosis. Enlarged livers, increased urea nitrogen levels and lowered white blood cell counts in 10 and 15 mg/kg groups. JUVENILES; PIGS; SOUTH DAKOTA; AUTOPSY; BLOOD; KIDNEYS; LIVER; MUSCLES; BIOACCUMULATION; CHLORINE ORGANIC COMPOUNDS	Greichus, Y.A. Libal, G.W. Johnson, D.D. 1979 Bulletin of Environmental Contamination and Toxicology 23:418-422

(CONT PAGE)

Isosol, pentachloro-

87-86-5

C6-H-C13-O

99 244.35, 99 190-191 C, 99 309-310 C (decomp), 99 80 88 89 at 211.2 C

Isosol

302 sp.

(CONTINUED)

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
400 Muscle	Ingestion		a) 6 b) 6 c) 6 d) 6	a) Not given b) Not given c) Not given d) Not given	a) 6.74 ± or - 0.98 ppm b) 7.75 ± or - 1.04 ppm c) 8.80 ± or - 1.36 ppm d) 0.19 ± or - 0.13 ppm Not wt	a) After 5 mg/kg body wt/day for 30 days b) After 10 mg/kg body wt/day for 30 days c) After 15 mg/kg body wt/day for 30 days d) Controls 6 wk old pigs. No overt signs of toxicosis. Enlarged livers, increased urea nitrogen levels and lowered white blood cell counts in 10 and 15 mg/kg groups. JUVENILES; PIGS; SOUTH DAKOTA; SUSPENS; BLOOD; LIVERS; LIVERS; MUSCLES; BIOACCUMULATION; CHLORINE ORGANIC COMPOUNDS	Greichus, T.A. Libal, S.V. Johnson, D.D. 1979 Bulletin of Environmental Contamination and Toxicology 23:418-422

Isosol, 2,2'-methylmethylene(3,4,6-trichloro-

99-86-6

C13-H8-C16-C2

99 244.92, 99 144-145 C

Cattle

993 sp.

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
901 Adipose	Ingestion	GC	2	5-10 ng/g wet wt	8 ng/g wet wt	Lactating cows, wt 350 kg. 4 mg/kg MCP and 10 mg/kg Cu-glycinate in diet daily for 3 d. Killed 3 d after 2nd dose. CATTLE; LACTATION; BIOACCUMULATION; LACTATION; PESTICIDE RESIDUES; BIZACHLOPOBENZENE; ADIPOSE TISSUE; BLOOD; LIVER; MUSCLES; JAPAN	Kawashima, T. Niyahara, T. Kosaka, H. Ohkura, C. 1981 Bulletin of Environmental Contamination and Toxicology 26:424-427
902 Blood	Ingestion	GC	2	6-10 ng/ml	8 ng/ml	Lactating cows, wt 350 kg. 4 mg/kg MCP and 10 mg/kg Cu-glycinate in diet daily for 3 d. Killed 3 d after 2nd dose. CATTLE; LACTATION; BIOACCUMULATION; LACTATION; PESTICIDE RESIDUES; BIZACHLOPOBENZENE; ADIPOSE TISSUE; BLOOD; LIVER; MUSCLES; JAPAN	Kawashima, T. Niyahara, T. Kosaka, H. Ohkura, C. 1981 Bulletin of Environmental Contamination and Toxicology 26:424-427
903 Liver	Ingestion	GC	2	210-230 ng/g wet wt	220 ng/g wet wt	Lactating cows, wt 350 kg. 4 mg/kg MCP and 10 mg/kg Cu-glycinate in diet daily for 3 d. Killed 3 d after 2nd dose. CATTLE; LACTATION; BIOACCUMULATION; LACTATION; PESTICIDE RESIDUES; BIZACHLOPOBENZENE; ADIPOSE TISSUE; BLOOD; LIVER; MUSCLES; JAPAN	Kawashima, T. Niyahara, T. Kosaka, H. Ohkura, C. 1981 Bulletin of Environmental Contamination and Toxicology 26:424-427

(BEST COPY)

Isomol, 2,2'-methylendiole(3,4,6-trichloro-
 70-30-0
 C13-01-C16-02
 BR 006-02, BR 164-165 C
 Cattle
 PCS up-

(CONTINUED)

TICRUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	SIDE	HEAD	GENERAL INFORMATION	REFERENCE
004 Beagle	Ingestion	GC	2	20-35 ng/g wet wt	20 ng/g wet wt	Lactating cows, wt 550 kg. 4 ng/kg MCP and 10 ng/kg Cu-glycinate in diet daily for 3 d. Killed 3 d after 2nd dose. CATTLE; LACTATION; BIOACCUMULATION; LACTATION; PERSISTENCE RESIDUES; HYPOCHROMISMUS; ADIPOSE TISSUE; BLOOD; LIVER; MUSCLES; JAPAN	Navashina, Y. Niyahara, T. Kusaka, H. Ohnaka, G. 1981 Bulletin of Environmental Contamination and Toxicology 26:424-427

Phosphorothioic acid, O,O-dimethyl O-(4-methylthio)-n-tyl ester (8 CI)
 Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-methylthio)phenyl ester (9 CI)
 75-30-0
 C10-010-03-0-02
 BR 270-34 C, BR 105 C, VP 3110(2-3) as Rq at 30 C
 Beagle
 PCS PCA

TICRUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	SIDE	HEAD	GENERAL INFORMATION	REFERENCE
005 Gizzard	Ingestion	GC	10	7.29-483 ng/kg wet wt	07.10 ng/kg wet wt	Lining plus contents. Dead birds found near food where cattle were treated for warble larvae and lice. Canada, Alberta Generally good body condition. Inability to fly just before death. Bruises and bone fractures, congestion of skull bones. CANADA; AUTOPSES; GIZZARD; BLOOD; ORGANOCHLORINES; BIOACCUMULATION; PERSISTENT RESIDUES	Wasson, J. Howell, J. 1981 Canadian Veterinary Journal 22:18-19

Selenium, isotope of atom 76
 13001-32-1
 BR
 BR 210, BR 230 C, BR 162 C
 Cattle
 PCS up-

TICRUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	SIDE	HEAD	GENERAL INFORMATION	REFERENCE
006 Kidney			a) 35 b) Not given	a) 57.8-387.8 pCi/kg wet wt b) Not given	a) 152.0 pCi/kg b) 178.5 pCi/kg wet wt Madison	a) Cattle grazing near abandoned Pb site b) Controls from non-industrial, low-traffic area (data from previous publication) 3 yr old Germany, Hiel area CATTLE; LEAD 210; POLONIUM 210; GERMANY; KIDNEY; LIVER; COMPARATIVE EVALUATION; LEAD; BIOACCUMULATION; URINE; RADIOISOTOPES	Dunel, H. Kusaka, H. 1980 Food and Cosmetics Toxicology 18:133-137

(PAGE FOUR)

Polonium, isotopes of mass 210
13901-12-7
R
SU 210, SU 210 C, SU 210 C
Cattle
NC3 app.

(CONTINUED)

ISSUE	EXPOSURE DOSE	ANALYTICAL METHOD	NUMBER OF CASES	DATE	UNIT	STUDIAL INFORMATION	REFERENCE
407 Liver			a) 35 b) Not given	a) 13.9-159 pCi/kg wet wt b) Not given	a) 32.3 pCi/kg b) 35.6 pCi/kg wet wt Median	a) Cattle grazing near abandoned Pb mine b) Controls from non-industrial, low-traffic area (data from previous publication) 2 yr olds Germany, Bial area CATTLE; LEAD 210; POLONIUM 210; GROSSARY; KIDNEY; LIVER; COMPARATIVE EVALUATIONS; LEAD; BIOACCUMULATION; MINING; RADIOCHEMISTRY	Bussel, K. Krause, H. 1980 Food and Cosmetic Toxicology 18:133-137

Isotopes
129-00-0
CM-213
SU 202.24, SU 156 C, SU 404 C
Egg, black sea
CENTROSPINUS STRICATA

ISSUE	EXPOSURE DOSE	ANALYTICAL METHOD	NUMBER OF CASES	DATE	UNIT	STUDIAL INFORMATION	REFERENCE
408 Body, whole		GC UV		Not given	ppb wet wt	dry wt/wet wt = 0.23 Composite sample of several organisms collected in oil drilling area, depth 17 m Atlantic Ocean, Baltimore Canyon ATLANTIC OCEAN; POLYNUCLEAR AROMATIC HYDROCARBONS; NEW JERSEY; PCB; BIOACCUMULATION; WATER POLLUTION; FISHES	Brown, R.A. Pandrav, R.J. 1979 Environmental Science and Technology 13(7):676-679

Isotopes
129-00-0
CM-210
SU 202.24, SU 156 C, SU 404 C
Butterfish
SARALUS TROSCANTUS

ISSUE	EXPOSURE DOSE	ANALYTICAL METHOD	NUMBER OF CASES	DATE	UNIT	STUDIAL INFORMATION	REFERENCE
409 Body, whole		GC UV		Not given	< 1 ppb wet wt	dry wt/wet wt = 0.29 Composite sample of several organisms collected in oil drilling area, depth 10 m Atlantic Ocean, Baltimore Canyon ATLANTIC OCEAN; POLYNUCLEAR AROMATIC HYDROCARBONS; NEW JERSEY; PCB; BIOACCUMULATION; WATER POLLUTION; FISHES	Brown, R.A. Pandrav, R.J. 1979 Environmental Science and Technology 13(7):676-679

130000
 129-00-0
 C16-010
 00 202.24, 00 156 C, 00 404 C
 000000, 000000
 0000000000 000:0703

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	DIAGNOSIS	REMARKS	ORIGINAL INFORMATION	REFERENCE
410 Body, whole		GC UV		Not given	2 ppb wet wt	Dry wt/wet wt = 0.31 Collected in oil drilling area, depth 107 m Atlantic Ocean, Baltimore Canyon ATLANTIC OCEAN; POLYNUCLEAR AROMATIC HYDROCARBONS; NEW JERSEY; BODY; BIOACCUMULATION; WATER POLLUTION; FISHES	Brown, R.A. Pangirov, R.J. 1979 Environmental Science and Technology 13(7): 678-679

130000
 129-00-0
 C16-010
 00 202.24, 00 156 C, 00 404 C
 0000, 0000
 0000000000 000:0703

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	DIAGNOSIS	REMARKS	ORIGINAL INFORMATION	REFERENCE
411 Body, whole		GC UV		Not given	< 5 ppb wet wt	Composite sample of several organisms Collected in oil drilling area, depth 78 m Atlantic Ocean, Baltimore Canyon ATLANTIC OCEAN; POLYNUCLEAR AROMATIC HYDROCARBONS; NEW JERSEY; BODY; BIOACCUMULATION; WATER POLLUTION; FISHES	Brown, R.A. Pangirov, R.J. 1979 Environmental Science and Technology 13(7): 678-679

130000
 129-00-0
 C16-010
 00 202.24, 00 156 C, 00 404 C
 0000, 0000
 0000000000 000:0703

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	DIAGNOSIS	REMARKS	ORIGINAL INFORMATION	REFERENCE
412 Body, whole		GC UV		Not given	4.1 ppb wet wt	Composite sample of several organisms Collected in oil drilling area, depth 78 m Atlantic Ocean, Baltimore Canyon ATLANTIC OCEAN; POLYNUCLEAR AROMATIC HYDROCARBONS; NEW JERSEY; BODY; BIOACCUMULATION; WATER POLLUTION; FISHES	Brown, R.A. Pangirov, R.J. 1979 Environmental Science and Technology 13(7): 678-679

System
129-00-0
C14-010
ON 202.24, ON 174 C, 20 004 C
Scap
HYDROPHOBIC CONTAMINANTS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
413 Body, whole		GC UV		Not given	2 ppb wet wt	<p>dry wt/wet wt = 0.26</p> <p>Composite sample of several organisms collected in oil drilling area, depth 66 m</p> <p>Atlantic Ocean, Baltimore Canyon</p> <p>ATLANTIC OCEAN; POLYNUCLEAR AROMATIC HYDROCARBONS; NEW JERSEY; POST; BIOACCUMULATION; WATER POLLUTION; FISHES</p>	Brown, R.A. Pancirov, R.J. 1979 Environmental Science and Technology 13(7):876-879

System, methyl-
27379-00-0
C17-012
ON 216.29
Feces, black sea
EUTHYRACIDUS STRICTA

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
414 Body, whole		GC UV		Not given	< 1 ppb wet wt	<p>dry wt/wet wt = 0.33</p> <p>Composite sample of several organisms collected in oil drilling area, depth 77 m</p> <p>Atlantic Ocean, Baltimore Canyon</p> <p>ATLANTIC OCEAN; POLYNUCLEAR AROMATIC HYDROCARBONS; NEW JERSEY; POST; BIOACCUMULATION; WATER POLLUTION; FISHES</p>	Brown, R.A. Pancirov, R.J. 1979 Environmental Science and Technology 13(7):876-879

System, methyl-
27379-00-0
C17-012
ON 216.29
Butterfish
CAPOLLUS TRIACANTUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
415 Body, whole		GC UV		Not given	< 2 ppb wet wt	<p>dry wt/wet wt = 0.39</p> <p>Composite sample of several organisms collected in oil drilling area, depth 39 m</p> <p>Atlantic Ocean, Baltimore Canyon</p> <p>ATLANTIC OCEAN; POLYNUCLEAR AROMATIC HYDROCARBONS; NEW JERSEY; POST; BIOACCUMULATION; WATER POLLUTION; FISHES</p>	Brown, R.A. Pancirov, R.J. 1979 Environmental Science and Technology 13(7):876-879

System, methyl-
27377-90-8
C17-812
00 276.29
Baldwin, summer
BATHYMETRIC SURVEYS

ISSUE	DISPOSABLE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	DATE	MEAN	GENERAL INFORMATION	REFERENCE
16 Body, whole		GC UV		Not given	1 ppb wet wt	<p>1 ppb wet wt = 0.31</p> <p>Composite sample of several organisms collected in oil drilling area, depth 102 m</p> <p>Atlantic Ocean, Baltimore Canyon</p> <p>ATLANTIC OCEAN; POLYNUCLEAR AROMATIC HYDROCARBONS; NEW JERSEY; BOST; BIOACCUMULATION; WATER POLLUTION; FISHES</p>	Brown, R.A. Pangloss, R.J. 1979 Environmental Science and Technology 13(7):870-879

System, methyl-
27377-90-8
C17-812
00 276.29
Baldwin, red
BATHYMETRIC SURVEYS

ISSUE	DISPOSABLE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	DATE	MEAN	GENERAL INFORMATION	REFERENCE
17 Body, whole		GC UV		Not given	< 6 ppb wet wt	<p>Composite sample of several organisms collected in oil drilling area, depth 78 m</p> <p>Atlantic Ocean, Baltimore Canyon</p> <p>ATLANTIC OCEAN; POLYNUCLEAR AROMATIC HYDROCARBONS; NEW JERSEY; BOST; BIOACCUMULATION; WATER POLLUTION; FISHES</p>	Brown, R.A. Pangloss, R.J. 1979 Environmental Science and Technology 13(7):870-879

System, methyl-
27377-90-8
C17-812
00 276.29
Scaling, sea
BATHYMETRIC SURVEYS

ISSUE	DISPOSABLE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	DATE	MEAN	GENERAL INFORMATION	REFERENCE
18 Body, whole		GC UV		Not given	2.7 ppb wet wt	<p>Composite sample of several organisms collected in oil drilling area, depth 78 m</p> <p>Atlantic Ocean, Baltimore Canyon</p> <p>ATLANTIC OCEAN; POLYNUCLEAR AROMATIC HYDROCARBONS; NEW JERSEY; BOST; BIOACCUMULATION; WATER POLLUTION; FISHES</p>	Brown, R.A. Pangloss, R.J. 1979 Environmental Science and Technology 13(7):870-879

125000, methyl-
12577-00-0
C17-112
ON 210.25
3000
712500000000000000

115500	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	SAMPLE	RESULTS	ORIGINAL INFORMATION	REFERENCE
419 Body, whole		GC UV		Not given	< 1 ppb wet wt	<p>Exp wt/v t wt = 0.26</p> <p>Composite sample of several organisms collected in oil drilling area, depth 6' 8</p> <p>Atlantic Ocean, Baltimore Canyon</p> <p>ATLANTIC OCEAN; POLYNUCLEAR AROMATIC HYDROCARBONS; NEW JERSEY; POST; BIOACCUMULATION; WATER POLLUTION; FISHERIES</p>	Brown, S.A. Pankov, R.J. 1979 Environmental Science and Technology 13(7):670-679

Sodium, isotope of mass 226
12902-63-3
Na
ON 226, HP 720 C, BP 1737 C
Cattle
EC3 00.

115500	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	SAMPLE	RESULTS	ORIGINAL INFORMATION	REFERENCE
420 Kidney	Ingestion	AAS	a) 4 b) 4	a) Not given b) Not given	a) 0.003 pCi/g b) 0.003 pCi/g	<p>a) Pastures fertilized with treated raffinate</p> <p>b) Controls</p> <p>Grass 6 kg on plots treated with raffinate (100 lb N/acre) or commercial fertilizer (100 lb N/acre). Applied 5/79 and 7/79</p> <p>Black, white-faced calves, mean pre-test wt 337 lb, mean post-test wt 445 lb.</p> <p>No pathological changes</p> <p>CATTLE; RAFFINATE; SODIUM 226; THORIUM 230; ARSENIC; CADMIUM; COPPER; LEAD; MOLYBDENUM; NICKEL; SODIUM; ZINC; BIOACCUMULATION; CHLORINE; BLOOD; BLOOD SERUM; KIDNEYS; LIVER; MUSCLES</p>	Edwards, H.C. Booley, A.L. 1980 Veterinary and Human Toxicology 22(5):309-311
421 Liver	Ingestion	AAS	a) 4 b) 4	a) Not given b) Not given	a) 0.003 pCi/g b) 0.003 pCi/g	<p>a) Pastures fertilized with treated raffinate</p> <p>b) Controls</p> <p>Grass 6 kg on plots treated with raffinate (100 lb N/acre) or commercial fertilizer (100 lb N/acre). Applied 5/79 and 7/79</p> <p>Black, white-faced calves, mean pre-test wt 337 lb, mean post-test wt 445 lb.</p> <p>No pathological changes</p> <p>CATTLE; RAFFINATE; SODIUM 226; THORIUM 230; ARSENIC; CADMIUM; COPPER; LEAD; MOLYBDENUM; NICKEL; SODIUM; ZINC; BIOACCUMULATION; CHLORINE; BLOOD; BLOOD SERUM; KIDNEYS; LIVER; MUSCLES</p>	Edwards, H.C. Booley, A.L. 1980 Veterinary and Human Toxicology 22(5):309-311

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422 Spec 10	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500
422 Spec 10	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500

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TISSUE	WINDSOR BOTTLE	ANALYTICAL METHOD	NUMBER OF CLIPS	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
423 liver		AA3	100	0.07-1.77 ppm wet wt	1.10 ± or - 0.31 ppm wet wt	samples from 8 widely separated regions. Significant differences between regions and within the same region. Australia, New South Wales CATTLE; ARSENIC; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; MANGANESE; MERCURY; MOLYBDENUM; NICKEL; SILICON; ZINC; AUSTRALIA; KIDNEYS; LIVER	Plantak, J. 1976, N.Y. Journal of the Science of Food and Agriculture 30:503-507
424 liver		AA3	100	0.04-0.61 ppm wet wt	0.17 ± or - 0.11 ppm wet wt	samples from 8 widely separated regions. Significant differences between regions and within the same region. Australia, New South Wales CATTLE; ARSENIC; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; MANGANESE; MERCURY; MOLYBDENUM; NICKEL; SILICON; ZINC; AUSTRALIA; KIDNEYS; LIVER	Plantak, J. 1976, N.Y. Journal of the Science of Food and Agriculture 30:503-507

Selenium
7702-49-2
34
At 70.96, at 170-217 C, at 603 C, 77 1 mg Hg at 356 C, 10 mg Hg at 429 C
Chicken

TEST	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
425 Eggs		GC	2	a) 150-240 ng/g b) Not applicable c) 1300-1500 ng/g d) 400-500 ng/g	a) 195 ng/g b) 27 ng/g c) 1400 ng/g d) 450 ng/g	a) White, Se II, IV b) White, Se VI c) Yolk, Se II, IV d) Yolk, Se VI Higher levels than in market eggs from domestic chickens accidentally fed grain treated with a mercurial fungicide. CHICKENS; EGGS; NEW YORK; FUNGICIDES; MERCURY INORGANIC COMPOUNDS; MERCURY ORGANIC COMPOUNDS; SELENIUM; BIOACCUMULATION	Cappon, C.J. Smith, J.C. 1981a Bulletin of Environmental Contamination and Toxicology 26:473-478

Selenium
7702-49-2
34
At 70.96, at 170-217 C, at 603 C, 77 1 mg Hg at 356 C, 10 mg Hg at 429 C
Goat, whitetail

TEST	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
426 Heart		GC	1	a) Not applicable b) Not applicable	a) 160.5 ppb b) 46.0 ppb Not VI	a) Se II, IV b) Se VI Seral area. No known contamination source. New York State (N) CHICK; EGGS; CANADA; NEW YORK; HEART; LIVER; MUSCLES; COMPARATIVE EVALUATIONS; BIOACCUMULATION; MERCURY; SELENIUM	Cappon, C.J. Smith, J.C. 1981b Journal of Analytic Toxicology 5:90-98
427 Liver		GC	1	a) Not applicable b) Not applicable	a) 264.5 ppb b) 39.5 ppb Not VI	a) Se II, IV b) Se VI Seral area. No known contamination source. New York State (N) CHICK; EGGS; CANADA; NEW YORK; HEART; LIVER; MUSCLES; COMPARATIVE EVALUATIONS; BIOACCUMULATION; MERCURY; SELENIUM	Cappon, C.J. Smith, J.C. 1981b Journal of Analytic Toxicology 5:90-98
428 Muscle		GC	1	a) Not applicable b) Not applicable	a) 133.8 ppb b) 74.9 ppb Not VI	a) Se II, IV b) Se VI Seral area. No known contamination source. New York State (N) CHICK; EGGS; CANADA; NEW YORK; HEART; LIVER; MUSCLES; COMPARATIVE EVALUATIONS; BIOACCUMULATION; MERCURY; SELENIUM	Cappon, C.J. Smith, J.C. 1981b Journal of Analytic Toxicology 5:90-98

Selenium
7782-49-2
Se
At 76. °C, BP 170-217 C, BP 685 C, VP 1 mm Hg at 356 C, 10 mm Hg at 429 C
Fluo, northern
1902 LOCUS

113508	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
429 Muscle		AAS	a) 19 b) 18	a) 1.1-3.0 mg/kg b) 0.70-0.62 mg/kg Wet wt	a) 2.1 mg/kg wet wt b) Not applicable	a) Lake Dufault. Length 52.0-81.5 cm, wt 750-2840 g b) Lake Duparquet. Length 40.0-81.5 cm, wt 215-3350 g Levels not related to size collected summer '77. Canada, Quebec (NU), Lake Dufault Canada, Quebec (NU), Lake Duparquet CANADA; MUSCLES; BIOACCUMULATION; FISHES; WATER POLLUTION; MERCURY; SELENIUM	Speyer, H.B. 1980 Bulletin of Environmental Contamination and Toxicology 24:427-432

Selenium
7782-49-2
Se
At 76. °C, BP 170-217 C, BP 685 C, VP 1 mm Hg at 356 C, 10 mm Hg at 429 C
Seal

113508	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
430 Liver		GC	1	a) Not applicable b) Not applicable	a) 2928.6 ppb b) 598.8 ppb Wet wt	a) Se II, IV b) Se VI Canada, Quebec (NU), Inuit Eskimo Community FISH; SEALS; CANADA; NEW YORK; HEART; LIVER; MUSCLES; COMPARATIVE EVALUATIONS; BIOACCUMULATION; MERCURY; SELENIUM	Coppen, C.J. Smith, J.C. 1981b Journal of Analytic Toxicology 5:90-98
431 Muscle		GC	1	a) Not applicable b) Not applicable	a) 167.2 ppb b) 123.2 ppb Wet wt	a) Se II, IV b) Se VI Canada, Quebec (NU), Inuit Eskimo Community FISH; SEALS; CANADA; NEW YORK; HEART; LIVER; MUSCLES; COMPARATIVE EVALUATIONS; BIOACCUMULATION; MERCURY; SELENIUM	Coppen, C.J. Smith, J.C. 1981b Journal of Analytic Toxicology 5:90-98

Silver
7440-22-a
1g
At 107.060, BP 940.5 C, BP 2000 C, VP 1 mg Hg at 1310 C, 10 mg Hg at 1540 C
Class, surf
SPINUS SOLIDISSIMA

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
432 Body, whole			a) 10 b) 10 c) 10 d) 10 e) 10 f) 10 g) 10 h) 10 i) 10	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given	a) 2.1 ± or - 0.80 ppb b) 3.1 ± or - 1.62 ppb c) 6.0 ± or - 2.65 ppb d) 6.1 ± or - 1.47 ppb e) 10.3 ± or - 2.98 ppb f) 20.4 ± or - 5.29 ppb g) 1.4 ± or - 0.70 ppb h) 1.7 ± or - 1.20 ppb i) 0.75 ± or - 0.51 ppb	a) 15 d, 10 ppb b) 20 d, 10 ppb c) 43 d, 10 ppb d) 15 d, 20 ppb e) 20 d, 20 ppb f) 43 d, 10 ppb g) Controls, 15 d h) Controls, 20 d i) Controls, 43 d 2g-seawater solutions, 4) 1 Controls, in seawater Shells removed before analysis SCLEROSIS; CADMIUM; COPPER; SILVER; IRON; FLUORINE; BIOACCUMULATION; TOX; COMPARATIVE EVALUATION; CONDUCTIVITY	Greig, R.A. 1979 Bulletin of Environmental Contamination and Toxicology 22:643-647

Silver
7470-22-a
4g
At 107.060, BP 940.5 C, BP 2000 C, VP 1 mg Hg at 1310 C, 10 mg Hg at 1540 C
Grosses, ruffed
SPINUS SOLIDISSIMA

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
433 Feathers		AAS	130	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) < 0.01 ug/g b) < 0.01 ug/g c) < 0.01 ug/g d) < 0.01 ug/g e) < 0.01 ug/g f) < 0.01 ug/g Dry wt	a) 77 adults b) 13 juveniles c) 88 males d) 42 females e) 82 birds, 1977-78 harvest f) 47 birds, 1978-79 harvest 15g and tail feathers Birds shot by hunters in remote forest area. Virginia (SH) LEAD; PHOSPHORUS; JUVENILES; CADMIUM; COPPER; LEAD; NICKEL; SILVER; ZINC; VIRGINIA; ADULTS	Scanlon, P.F. Oderwald, R.J. Dietrich, T.J. Coggins, J.L. 1980 Bulletin of Environmental Contamination and Toxicology 25:947-949

111001
7000-22-4
Ag
At 107.060, BP 960.5 C, BP 2000 C, VP 1 on Hg at 1310 C, 10 on Hg at 1540 C
Cytosol
C1030057070 0100101010

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
egg body, whole			a) 10 b) 10 c) 10 d) 10 e) 10 f) 10 g) 10 h) 10 i) 10	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given	a) 5.8 ± or - 2.26 ppb b) 9.2 ± or - 4.75 ppb c) 15.8 ± or - 7.19 ppb d) 4.5 ± or - 3.28 ppb e) 11.7 ± or - 4.65 ppb f) 23.2 ± or - 7.51 ppb g) 1.5 ± or - 0.23 ppb h) 1.5 ± or - 0.34 ppb i) 1.3 ± or - 0.35 ppb	a) 15 d, 10 ppb b) 29 d, 10 ppb c) 43 d, 10 ppb d) 15 d, 20 ppb e) 29 d, 20 ppb f) 43 d, 20 ppb g) Controls, 15 d h) Controls, 29 d i) Controls, 43 d Ag-sensitizer solutions, a)-f) Controls, in seawater Shells removed before analysis PCLOSERS; CADMIUM; COPPER; SILVER; TRACE ELEMENTS; BIOACCUMULATION; ICST; COMPARATIVE EVALUATIONS; CONNECTICUT	Groig, N.A. 1979 Bulletin of Environmental Contamination and Toxicology 22:643-647

111001
7000-22-4
Ag
At 107.060, BP 960.5 C, BP 2000 C, VP 1 on Hg at 1310 C, 10 on Hg at 1540 C
Cytosol
C103110 0100101010

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
egg body, whole			a) 10 b) 10 c) 10 d) 10 e) 10 f) 10 g) 10 h) 10 i) 10	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given	a) 4.5 ± or - 2.00 ppb b) 2.7 ± or - 1.38 ppb c) 3.5 ± or - 1.93 ppb d) 4.7 ± or - 2.16 ppb e) 5.0 ± or - 2.57 ppb f) 5.1 ± or - 2.42 ppb g) 2.7 ± or - 1.15 ppb h) 3.2 ± or - 1.40 ppb i) 2.5 ± or - 1.51 ppb	a) 15 d, 10 ppb b) 29 d, 10 ppb c) 43 d, 10 ppb d) 15 d, 20 ppb e) 29 d, 20 ppb f) 43 d, 20 ppb g) Controls, 15 d h) Controls, 29 d i) Controls, 43 d Ag-sensitizer solutions, a)-f) Controls in seawater Shells removed before analysis PCLOSERS; CADMIUM; COPPER; SILVER; TRACE ELEMENTS; BIOACCUMULATION; ICST; COMPARATIVE EVALUATIONS; CONNECTICUT	Groig, N.A. 1979 Bulletin of Environmental Contamination and Toxicology 22:643-647

Sulfolanilide, N(1)-(4,6-dimethyl-2-pyridinyl)- (8 C)
 Der. -sulfolanilide, 4-amino-N-(4,6-dimethyl-2-pyridinyl)- (9 C)
 1-40-1
 C12-210-20-C2-5
 on 270.32, at 176 C (also reported: 170-174 C, 190-199 C, 205-207 C)
 7 min
 325 ap.

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	TIME	GENERAL INFORMATION	REFERENCE
436 Adipose	Ingestion	Colorimetry	a) 3 b) 3 c) 3 d) 3 e) 3	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 4.90 ± or - 0.10 ppm b) 0.43 ± or - 0.12 ppm c) 3.10 ± or - 0.02 ppm d) 0.02 ± or - 0.01 ppm e) 0.31 ± or - 0.01 ppm	a) Last medication day b) Withdrawal day 2 c) Withdrawal day 4 d) Withdrawal day 6 e) Withdrawal day 8 Yorkshire-cross weanlings, wt 10.0-12.7 kg, on 500 g/ton of feed for 30 days Non-medicated pigs placed in pens of medicated ones have levels > 0.1 ppm. SULFONAMIDES; SWINE; BIOACCUMULATION; ADIPOSE TISSUE; BLOOD PLASMA; KIDNEYS; LIVER; MUSCLES; DRUGS; PASTURE	Sanuelson, G. Whipple, D.H. Shewalter, D.H. Jacobson, W.C. Heath, G.E. 1979 Journal of the American Veterinary Medical Association 175(5):449-452
437 Blood, plasma	Ingestion	Colorimetry	15	a) 22.6-35.2 ppm b) 23.3-36.8 ppm c) 20.2-35.5 ppm d) 15.6-23.6 ppm e) 1.1-26.3 ppm f) 1.2-9.5 ppm g) 3-2.0 ppm	a) 30.7 ± or - 0.9 ppm b) 30.8 ± or - 1.0 ppm c) 27.2 ± or - 1.0 ppm d) 19.7 ± or - 0.7 ppm e) 12.5 ± or - 1.2 ppm f) 4.4 ± or - 0.5 ppm g) 3.5 ± or - 0.2 ppm	a) 0 hr b) 4 hr c) 8 hr d) 12 hr e) 24 hr f) 48 hr g) 72 hr Postmedication Yorkshire-cross-weanlings, wt 10.0-12.7 kg, on 500 g/ton of feed for 30 days Non-medicated pigs placed in pens of medicated ones have levels > 0.1 ppm. SULFONAMIDES; SWINE; BIOACCUMULATION; ADIPOSE TISSUE; BLOOD PLASMA; KIDNEYS; LIVER; MUSCLES; DRUGS; PASTURE	Sanuelson, G. Whipple, D.H. Shewalter, D.H. Jacobson, W.C. Heath, G.E. 1979 Journal of the American Veterinary Medical Association 175(5):449-452
438 Kidney	Ingestion	Colorimetry	a) 3 b) 3 c) 3 d) 3 e) 3 f) 3	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 16.07 ± or - 0.67 ppm b) 1.44 ± or - 0.46 ppm c) 0.22 ± or - 0.07 ppm d) 0.16 ± or - 0.06 ppm e) 0.06 ± or - 0.05 ppm f) 0.01 ± or - 0.01 ppm	a) Last medication day b) Withdrawal day 2 c) Withdrawal day 4 d) Withdrawal day 6 e) Withdrawal day 8 f) Withdrawal day 10 Yorkshire-cross weanlings, wt 10.0-12.7 kg, on 500 g/ton of feed for 30 days Non-medicated pigs placed in pens of medicated ones have levels > 0.1 ppm. SULFONAMIDES; SWINE; BIOACCUMULATION; ADIPOSE TISSUE; BLOOD PLASMA; KIDNEYS; LIVER; MUSCLES; DRUGS; PASTURE	Sanuelson, G. Whipple, D.H. Shewalter, D.H. Jacobson, W.C. Heath, G.E. 1979 Journal of the American Veterinary Medical Association 175(5):449-452
439 Liver	Ingestion	Colorimetry	a) 3 b) 3 c) 3 d) 3 e) 3 f) 3	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 10.27 ± or - 0.91 ppm b) 2.81 ± or - 0.40 ppm c) 0.37 ± or - 0.10 ppm d) 0.05 ± or - 0.03 ppm e) 0.12 ± or - 0.08 ppm f) 0.06 ± or - 0.02 ppm	a) Last medication day b) Withdrawal day 2 c) Withdrawal day 4 d) Withdrawal day 6 e) Withdrawal day 8 f) Withdrawal day 10 Yorkshire-cross weanlings, wt 10.0-12.7 kg, on 500 g/ton of feed for 30 days Non-medicated pigs placed in pens of medicated ones have levels > 0.1 ppm. SULFONAMIDES; SWINE; BIOACCUMULATION; ADIPOSE TISSUE; BLOOD PLASMA; KIDNEYS; LIVER; MUSCLES; DRUGS; PASTURE	Sanuelson, G. Whipple, D.H. Shewalter, D.H. Jacobson, W.C. Heath, G.E. 1979 Journal of the American Veterinary Medical Association 175(5):449-452

3ulfamid- side, N(1)-(2,6-dimethyl-2-pyridinyl)- (8 C1)
 3-sulfamid- side, 4-amino-2-(2,6-dimethyl-2-pyridinyl)- (9 C1)
 27-68-1
 C12-814-84-02-5
 88 278.32, 89 176 C (also reported: 178-179 C, 190-195 C, 205-207 C)
 3-ine
 385 sp.

(CONTINUED)

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
440 Muscle	Ingestion	Colorimetry	a) 3 b) 3 c) 3 d) 3 e) 3	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 5.77 ± or - 0.17 ppm b) 0.67 ± or - 0.16 ppm c) 0.09 ± or - 0.02 ppm d) 0.02 ± or - 0.00 ppm e) 0.02 ± or - 0.01 ppm	a) Last medication day b) Withdrawal day 2 c) Withdrawal day 4 d) Withdrawal day 6 e) Withdrawal day 8 Yorkshire-cross weanlings, wt 19.0-22.7 kg, on 500 g/ton of feed for 30 days Non-medicated pigs placed in pens of medicated ones have levels > 0.1 ppm. SULFAMIDAZOLE; SWINE; BIOACCUMULATION; LIPID TISSUE; BLOOD PLASMA; KIDNEY; LIVER; MUSCLE; SUGAR; BASTARD	Samuelson, D. Whipple, D.H. Shewalter, D.H. Jacobson, W.C. Heath, G.S. 1979 Journal of the American Veterinary Medical Association 175(5):449-452

Thorium, isotope 230
 14249-61-7
 74
 88 230
 Cattle
 PCS sp.

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
441 Kidney	Ingestion	AAS	a) 4 b) 4	a) Not given b) Not given	a) 0.0004 pCi/g b) 0.0011 pCi/g	a) Pastures fertilized with treated raffinate b) Controls Grass 6 ac plots treated with raffinate (100 lb N/acre) or commercial fertilizer (100 lb N/acre). Applied 5/79 and 7/79 Black, white-faced calves, mean pre-test wt 337 lb, mean post-test wt 465 lb. No pathological changes CATTLE; RAFFINATE; RADIUM 226; THORIUM 230; ARSENIC; CADMIUM; COPPER; LEAD; MOLYBDENUM; NICKEL; THORIUM; ZINC; BIOACCUMULATION; CHLORINE; BLOOD; BLOOD SERUM; KIDNEY; LIVER; MUSCLE	Edwards, W.C. Deeley, A.L. 1980 Veterinary and Human Toxicology 22(5):309-311
442 Liver	Ingestion	AAS	a) 4 b) 4	a) Not given b) Not given	a) 0.0003 pCi/g b) 0.0002 pCi/g	a) Pastures fertilized with treated raffinate b) Controls Grass 6 ac on plots treated with raffinate (100 lb N/acre) or commercial fertilizer (100 lb N/acre). Applied 5/79 and 7/79 Black, white-faced calves, mean pre-test wt 337 lb, mean post-test wt 465 lb. No pathological changes CATTLE; RAFFINATE; RADIUM 226; THORIUM 230; ARSENIC; CADMIUM; COPPER; LEAD; MOLYBDENUM; NICKEL; THORIUM; ZINC; BIOACCUMULATION; CHLORINE; BLOOD; BLOOD SERUM; KIDNEY; LIVER; MUSCLE	Edwards, W.C. Deeley, A.L. 1980 Veterinary and Human Toxicology 22(5):309-311

(NEXT PAGE)

Thorium, isotope of mass 230
14249-63-7

14
BU 230
Ca-14
ICS op.

(CONTINUED)

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
043 Muscle	Ingestion	AAS	a) 4 b) 4	a) Not given b) Not given	a) 0.0003 pCi/g b) 0.0004 pCi/g	a) Pastures fertilized with treated raffinate b) Controls Grazing 6 he on plots treated with raffinate (100 lb N/acre) or commercial fertilizer (100 lb N/acre). Applied 5/79 and 7/79 Black, white-faced calves, mean pre-test wt 337 lb, mean post-test wt 445 lb. No pathological changes CATTLE: RAFFINATE; RADIUM 226; THORIUM 230; ARSENIC; CADMIUM; COPPER; LEAD; POLYBROMINE; NICKEL; URANIUM; ZINC; BIOACCUMULATION; CALANONS; BLOOD; BLOOD SERUM; KIDNEYS; LIVER; BUTTER	Edwards, B.C. Deeley, A.L. 1980 Veterinary and Human Toxicology 22(5):309-311

Total DDT (No postings in CHEMLINE).

50-29-3

C14-29-C15

BU 354.30

C104

CC1203 BRACHYDONTOMOS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
04 Muscle			14	Not given	4.0 ppm wet wt (123 ppm lipid wt) Geometric mean	Sum of isomers and metabolites Lipid wt value exceeds 5 ppm tolerance for human consumption of domestic animals Collected near former DDT manufacturing plant nearly 10 yr after cessation of production. Alabama, Wheeler National Wildlife Refuge Implied reproductive effects BIRDS; BABBIES; ALABAMA; BOTT; MUSCLES; BIOACCUMULATION; INDUSTRIAL POLLUTION; LAND POLLUTION; PESTICIDE RESIDUES; WATER POLLUTION; DDT	O'Shea, T.J. Fleming, V.J., III Cenartie, E. 1980 Science 209:509-510

Total DDT (No postings in CHEMLINE)
 10-29-3
 C14-H9-C15
 88 354.50
 Rock, Ballard
 ARAS PLATYRHYNCHOS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
885 Body, whole			27	Not given	8.0 ppm wet wt (38.0 ppm lipid wt) Geometric mean	Sum of isomers and metabolites lipid wt value exceeds 5 ppm tolerance for human consumption of domestic animals Collected near former DDT manufacturing plant nearly 10 yr after cessation of production. Alabama, Wheeler National Wildlife Refuge Implied reproductive effects FISHES; RABBITS; ALABAMA; BODY; MUSCLES; BIOACCUMULATION; INDUSTRIAL EMISSION; LAND POLLUTION; PESTICIDE RESIDUES; WATER POLLUTION; DDT	O'Shea, T.J., III Fleming, W.J., III Comar, E. 1980 Science 209:509-510
886 Muscle			27	Not given	0.67 ppm wet wt (11.5 ppm lipid wt) Geometric mean	Sum of isomers and metabolites lipid wt value exceeds 5 ppm tolerance for human consumption of domestic animals Collected near former DDT manufacturing plant nearly 10 yr after cessation of production. Alabama, Wheeler National Wildlife Refuge Implied reproductive effects FISHES; RABBITS; ALABAMA; BODY; MUSCLES; BIOACCUMULATION; INDUSTRIAL EMISSION; LAND POLLUTION; PESTICIDE RESIDUES; WATER POLLUTION; DDT	O'Shea, T.J., III Fleming, W.J., III Comar, E. 1980 Science 209:509-510

Total DDT (No postings in CHEMLINE).
 10-29-3
 C14-H9-C15
 88 354.50
 Rabbit, cottontail
 SYLVILAGUS FLORIDANUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
887 Muscle			4	Not given	0.27 ppm wet wt (11.7 ppm lipid wt) Geometric mean	Sum of isomers and metabolites lipid wt value exceeds 5 ppm tolerance for human consumption of domestic animals Collected near former DDT manufacturing plant nearly 10 yr after cessation of production. Alabama, Wheeler National Wildlife Refuge Implied reproductive effects FISHES; RABBITS; ALABAMA; BODY; MUSCLES; BIOACCUMULATION; INDUSTRIAL EMISSION; LAND POLLUTION; PESTICIDE RESIDUES; WATER POLLUTION; DDT	O'Shea, T.J., III Fleming, W.J., III Comar, E. 1980 Science 209:509-510

Total DDT (No postlarva in CEREALINE).
 CC-29-3
 C14-89-C15
 BU 354.30
 Rabbit, Swamp
 SYLVILAGUS AQUATICUS

SISSOR	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	REAS	GENERAL INFORMATION	REFERENCE
448 Muscle			5	Not given	0.25 ppm wet wt (18.0 ppm lipid wt) Geometric mean	Sum of isomers and metabolites lipid wt value exceeds 5 ppm tolerance for human consumption of domestic animals Collected near former DDT manufacturing plant nearly 10 yr after cessation of production. Alabama, Wheeler National Wildlife Refuge Implied reproductive effects BIRDS; RABBITS; ALABAMA; DDT; POISONS; BIOACCUMULATION; INDUSTRIAL POLLUTION; LAND POLLUTION; PESTICIDE RESIDUES; WATER POLLUTION; DDT	O'Shea, T.J. Tiening, W.J., III Comerio, E. 1980 Science 209:507-510

Scaphere
 8001-35-2
 EXACT COMPOSITION UNKNOWN OR UNDETERMINED
 Gull, Great Black-backed
 LARUS MARINUS

SISSOR	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	REAS	GENERAL INFORMATION	REFERENCE
449 Eggs		GC	28	0.0-0.30 ppm wet wt	0.02 ± or - 0.07 ppm wet wt	Butterfly index 1.71-2.11, shell thickness 0.35-0.47 mm, shell wt 7.31-9.09 g, lipid content 6.0-9.6% Collected 1/77. Maine, Appledore Island BIRDS; EGGS; EGGS; CHLORINE ORGANIC COMPOUNDS; DDT; DDE; DDT; DIELDRIN; DITHELORANE; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; VIRGINIA	Shore, R.C. Cook, W.C. Sabo, E. 1979 Bulletin of Environmental Contamination and Toxicology 23:394-399

terephene
 0001-35-2
 EXACT COMPOSITION UNKNOWN OR UNDETERMINED
 Gull, herring
 1485 ABSTRACTS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	CRITICAL INFORMATION	REFERENCE
450 Eggs		GC	a) 30 b) 20	a) 0.00-0.21 ppm b) 0.00-0.19 ppm tot vt	a) 0.01 ± or - 0.05 ppm b) 0.03 ± or - 0.05 ppm tot vt	a) Butcliffe Is. 1.53-1.90, shell thickness 6.34-6.47 mm, shell wt 1.07-7.49 g, lipid content 6.10-10.20% b) Butcliffe Is. 1.63-2.11, shell thickness 6.33-6.46 mm, shell wt 4.88-7.64 g, 4.3-9.7% collected 1/77. Saine, Appledore Island Virginia, Fisherman Island SIGNS; NAUSEA; SEES; CHLORINE ORGANIC COMPOUNDS; DDT; DDE; DDT; DIELDRIN; CYCHLORODANS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; TESTICION SUSIDONS; VIRIDIA	Shore, R.C. Coen, R.C. Halse, J. 1979 Bulletin of Environmental Contamination and Toxicology 23:394-399

terephene
 0001-35-2
 EXACT COMPOSITION UNKNOWN OR UNDETERMINED
 Seals
 105 no.

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	CRITICAL INFORMATION	REFERENCE
451 Blood, serum	Ingestion		1	Not given	0.3 ppm	Accidental contamination of food by insecticide spray (45% terephene and 2% lindane). Slabbering, vomiting, muscle tremors, staggering. Periodic convulsions. Death 1 hr after onset of symptoms. SIGNS; NAUSEA; AUTOPSIES; NERVOUS SYSTEM DISEASES; BLOOD SERUM; BRAIN; CHLORINATED HYDROCARBONS; INSECTICIDES; LINDANE; BIOACCUMULATION	Hout, R.E. Traffas, V. Hillier, R.J. Oehme, F.W. 1980 Journal of the American Veterinary Medical Association 177(9):445-447
452 Proteins	Ingestion		1	a) Not given b) Not given	a) 2.0 ppm b) 4.0 ppm	a) Cerebrus b) Cerebellus Accidental contamination of food by insecticide spray (45% terephene and 2% lindane). Slabbering, vomiting, muscle tremors, staggering. Periodic convulsions. Death 2 hr after onset of symptoms. SIGNS; NAUSEA; AUTOPSIES; NERVOUS SYSTEM DISEASES; BLOOD SERUM; BRAIN; CHLORINATED HYDROCARBONS; INSECTICIDES; LINDANE; BIOACCUMULATION	Hout, R.E. Traffas, V. Hillier, R.J. Oehme, F.W. 1980 Journal of the American Veterinary Medical Association 177(9):445-447

Stanine
7440-61-1
ATTN 238.029, MP 1132 C, BP 3816 C, VP 100 mm Hg at 1270 C
Cattle
RCS mp.

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	DOSE	MEAN	ORIGINAL INFORMATION	REFERENCE
453 Blood	Ingestion	AAS	20	a) < 0.0005-0.005 ppm b) < 0.0005-0.005 ppm c) < 0.0005-0.004 ppm d) 0.0005-0.05 ppm	a) 0.0022 ppm b) 0.0013 ppm c) 0.000 ppm d) 0.0072 ppm	a) Pastures fertilized with treated raffinate, pre-test b) Pastures fertilized with treated raffinate, post-test c) Controls, pre-test d) Controls, post-test Grazing 6 ac on plots treated with raffinate (100 lb N/acre) or commercial fertilizer (100 lb N/acre). Applied 5/79 and 7/79 Black, white-faced calves, mean pre-test wt 337 lb, mean post-test wt 445 lb. No pathological changes CATTLE; RAFFINATE; SODIUM 226; THORIUM 230; ARSENIC; CADMIUM; COBALT; LEAD; MOLYBDENUM; NICKEL; STRONTIUM; ZINC; BIOACCUMULATION; CHLOROPHYLL; BLOOD; BLOOD SERUM; KIDNEYS; LIVER; MUSCLES	Edwards, W.C. Booley, A.L. 1980 Veterinary and Human Toxicology 22(5):309-311
454 Kidney	Ingestion	AAS	a) 4 b) 4	a) Not given b) Not given	a) 0.017 ppm b) 0.002 ppm Not vt	a) Pastures fertilized with treated raffinate b) Controls Grazing 6 ac on plots treated with raffinate (100 lb N/acre) or commercial fertilizer (100 lb N/acre). Applied 5/79 and 7/79 Black, white-faced calves, mean pre-test wt 337 lb, mean post-test wt 445 lb. No pathological changes CATTLE; RAFFINATE; SODIUM 226; THORIUM 230; ARSENIC; CADMIUM; COBALT; LEAD; MOLYBDENUM; NICKEL; STRONTIUM; ZINC; BIOACCUMULATION; CHLOROPHYLL; BLOOD; BLOOD SERUM; KIDNEYS; LIVER; MUSCLES	Edwards, W.C. Booley, A.L. 1980 Veterinary and Human Toxicology 22(5):309-311
455 Liver	Ingestion	AAS	a) 4 b) 4	a) Not given b) Not given	a) 0.002 ppm b) 0.004 ppm Not vt	a) Pastures fertilized with treated raffinate b) Controls Grazing 6 ac on plots treated with raffinate (100 lb N/acre) or commercial fertilizer (100 lb N/acre). Applied 5/79 and 7/79 Black, white-faced calves, mean pre-test wt 337 lb, mean post-test wt 445 lb. No pathological changes CATTLE; RAFFINATE; SODIUM 226; THORIUM 230; ARSENIC; CADMIUM; COBALT; LEAD; MOLYBDENUM; NICKEL; STRONTIUM; ZINC; BIOACCUMULATION; CHLOROPHYLL; BLOOD; BLOOD SERUM; KIDNEYS; LIVER; MUSCLES	Edwards, W.C. Booley, A.L. 1980 Veterinary and Human Toxicology 22(5):309-311

(PART PAGE)

Urethane
7440-61-1
E
See 238.029, EP 1132 C, BP 3818 C, TP 100 as Rq at 3270 C
Cattle
EC5 sp.

(CONTINUED)

TESTS	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	REMARKS	GENERAL INFORMATION	REFERENCE
456 Muscle	Ingestion	AAS	a) 6 b) 4	a) Not given b) Not given	a) 0.003 ppm b) 0.001 ppm Not ut	a) Pastures fertilized with treated raffinate b) Controls Grass 6 so on plots treated with raffinate (100 lb N/acre) or commercial fertilizer (100 lb N/acre). Applied 5/79 and 7/79 Black, white-faced calves, mean pre-test wt 337 lb, mean post-test wt 463 lb. No pathological changes CATTLE: RAFFINATE; RADIUM 226; IODINE 131; ARSENIC; CADMIUM; COPPER; LITHIUM; MOLYBDENUM; NICKEL; URANIUM; ZINC; BIOACCUMULATION; CHLORINE; BLOOD; BLOOD SUGAR; KIDNEYS; LIVER; MUSCLES	Edwards, W.C. Deeley, A.L. 1980 Veterinary and Human Toxicology 22(5):309-311

Urea, 3-(3,4-dichlorophenyl)-1,1-dimethyl- (8 CI)
Urea, 3-(3,4-dichlorophenyl)-1,1-dimethyl- (9 CI)
320-36-1
CI-810-C12-82-0
See 233.10, BE 158-159 C
Cattle
EC5 sp.

TESTS	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	REMARKS	GENERAL INFORMATION	REFERENCE
457 Blood		Colorimetry	a) 1 b) 1 c) 1 d) 1	a) Not given b) Not given c) Not given d) Not given	a) 0.85 ± or - 0.93% b) 2.98 ± or - 0.44% c) 2.50 ± or - 0.57% d) 2.16 ± or - 0.59%	a) At 5 ppm b) At 10 ppm c) At 25 ppm d) At 50 ppm Daily diet levels for 33 days Maintain cows, ages 4-6 yr CATTLE: METABOLITES; CHLORINE ORGANIC COMPOUNDS; BIODICIDES; ALABAMA; BLOOD; FEEDS; MILK; URINE	Neira, S.H. Chahal, N.S. 1979 Ecotoxicology and Environmental Safety 3:363-368
458 Urine	Ingestion	Colorimetry	4	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given	a) 33.48 ± or - 2.76% b) 28.28 ± or - 3.53% c) 36.71 ± or - 6.82% d) 7.50 ± or - 0.63% e) 21.35 ± or - 2.88% f) 43.95 ± or - 2.42% g) 6.05 ± or - 1.39% h) 23.36 ± or - 2.11%	a) At 5 ppm b) At 10 ppm c) At 25 ppm d) At 25 ppm (excreted as 3-(3,4-dichlorophenyl)-1-methylurea) e) At 25 ppm (excreted as 3-(3,4-dichlorophenyl)urea) f) At 50 ppm g) At 50 ppm (excreted as 3-(3,4-dichlorophenyl)-1-methylurea) h) At 50 ppm (excreted as 3-(3,4-dichlorophenyl)urea) Daily diet levels for 33 days Maintain cows, ages 4-6 yr. CATTLE: METABOLITES; BIODICIDES; ALABAMA; BLOOD; FEEDS; MILK; URINE	Neira, S.H. Chahal, N.S. 1979 Ecotoxicology and Environmental Safety 3:362-368

Zinc
7000-66-6
Zn
ATN 65.30, BP 419.5 C, BP 908 C, VP 1 mm Hg at 407 C, 10 mm Hg at 590 C
Antelope, prairie
JUTTELOCAPIA AMERICANA

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	FACTOR	MEAN	GENERAL INFORMATION	REFERENCE
459 Kidney		AAS	21	Not given	86.5 ± or - ug/g dry wt	Agon < 10-85 mo, assumed healthy. Vegetation analysis indicates pristine area free from gross pollution. Montana, Northern Great Plains LIVER; ANTELOPE; MONTANA; KIDNEY; LIVER; BIOACCUMULATION; CADMIUM; CCPDR; LEAD; MANGANESE; METALS; POLYBROMINE; SICKLE; SINC	Hunschover, P.F. Hansen, D.B. 1979 Bulletin of Environmental Contamination and Toxicology 22:627-632
460 Liver		AAS	20	Not given	86.8 ± or - 28.4 ug/g dry wt	Agon < 10-85 mo, assumed healthy. Vegetation analysis indicates pristine area free from gross pollution. Montana, Northern Great Plains LIVER; ANTELOPE; MONTANA; KIDNEY; LIVER; BIOACCUMULATION; CADMIUM; CCPDR; LEAD; MANGANESE; METALS; POLYBROMINE; SICKLE; SINC	Hunschover, P.F. Hansen, D.B. 1979 Bulletin of Environmental Contamination and Toxicology 22:627-632

Zinc
7000-66-6
Zn
ATN 65.30, BP 419.5 C, BP 908 C, VP 1 mm Hg at 407 C, 10 mm Hg at 590 C
Bluegill
LUCIUS MACROCHIRUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	FACTOR	MEAN	GENERAL INFORMATION	REFERENCE
461 Body, whole		AAS	61	Not given	108 ug/g	Fishes, mean length 95 cm, mean dry wt 16.40 g, collected downstream of flood control weir at Algonquin. No major industrial effluents, total input mainly from sewage treatment plants and recreational boating. Concentration inversely related to fish wt. Illinois, Fox River ILLINOIS; FISH; BIOACCUMULATION; FISHES; WATER POLLUTION; CADMIUM; CCPDR; LEAD; METALS; SINC	Vinikour, W.J. Goldstein, B.B. Anderson, R.V. 1980 Bulletin of Environmental Contamination and Toxicology 24:727-734

Zinc
3440-46-4
Zn
Ats 45.30, BP 419.5 C, BP 900 C, VP 1 mm Hg at 487 C, 10 mm Hg at 590 C
Fullhead, black
IC76L0000 081A3

113500	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	TOXIC	REAR	ORIGINAL INFORMATION	REFERENCE
462 Body, whole		AAS	10	Not given	94.8 ug/g	Fishes, mean length 172 mm, mean dry wt 41.57 g, collected downstream of flood control weir at Algonquin. No major industrial effluent, metal input mainly from sewage treatment plants and recreational boating. Concentration inversely related to fish wt. Illinois, Fox River ILLINOIS; BODY; BIOACCUMULATION; FISHES; WATER POLLUTION; CADMIUM; COPPER; LIVER; METALS; SINC	Vinikour, W.S. Goldstein, E.H. Anderson, J.V. 1980 Bulletin of Environmental Contamination and Toxicology 24:727-734

Zinc
3440-46-4
Zn
Ats 45.30, BP 419.5 C, BP 900 C, VP 1 mm Hg at 487 C, 10 mm Hg at 590 C
Cattle
ICS 09.

113501	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	TOXIC	REAR	ORIGINAL INFORMATION	REFERENCE
463 Blood, serum	Ingestion	AAS	20	a) 1.25-3.07 ppm b) 1.0-2.97 ppm c) 1.55-2.05 ppm d) 1.7-3.3 ppm	a) 1.97 ppm b) 2.30 ppm c) 1.97 ppm d) 2.0 ppm	Pastures fertilized with treated effluents, pre-test b) Pastures fertilized with treated effluents, post-test c) Controls, pre-test d) Controls, post-test Grazing 6 open plots treated with effluents (100 lb N/acre) or commercial fertilizer (100 lb N/acre). Applied 5/79 and 7/79 Black, white-faced calves, mean pre-test wt 337 lb, mean post-test wt 445 lb. No pathological changes CATTLE; BATTINATE; RADIUM 226; RADIUM 230; ARSENIC; CADMIUM; COPPER; LIVER; POLYBROMINE; NICKEL; RADIUM; ZINC; BIOACCUMULATION; CHLORINE; D-COD; BLOOD SERUM; RIBBONS; LIVER; MUSCLES	Edwards, W.C. Deeley, A.L. 1980 Veterinary and Human Toxicology 22(5):309-311
464 Bone	Ingestion	AAS	a) 3 b) 3	a) Not given b) Not given	a) 86 ± or - 3.5 ppm b) 71 ± or - 6.5 ppm Dry wt	a) Control diet b) Diet of 12% high Cd sewage sludge, 100 days Hereford yearlings, mean wt 336 kg. Slaughtered at 460 kg mean live wt. CATTLE; BLOOD; COLORADO; BONES; BONE; RIBBONS; LIVER; LUNGS; MUSCLES; SPLEEN; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MERCURY	Johnson, D.E. Fienholt, E.V. Baxter, J.C. Spangler, E. Vard, G.W. 1981 Journal of Animal Science 52(1):100-114

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Zinc
7440-66-6
Zn
LTD 45.34, BP 419.3 C, BP 988 C, TP 1 an Hg at 467 C, 10 an Hg at 590 C
Cattle
SCS sp.

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ISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	SIGNAL	REAS	ORIGINAL INFORMATION	REFERENCE
465 Brain	Ingestion	AA3	a) 3 b) 3	a) Not given b) Not given	a) 32 ± or - 1.3 ppm b) 41 ± or - 6.6 ppm Dry wt	a) Control diet b) Diet of 13% high Cd sewage sludge, 166 days Hereford yearlings, mean wt 336 kg. Slaughtered at 460 kg mean live wt. CATTLE; SLUDGES; COLORADO; POHNS; LADN; KIDNEY; LIVER; LUNG; STICLES; SPINER; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MERCURY	Johnson, D.S. Rienholz, E.U. Baxter, J.C. Spangler, E. Ward, G.H. 1981 Journal of Animal Science 52(1):108-114
466 Kidney		AA3	190	12.0-31.6 ppm wet wt	10.6 ± or - 2.0 ppm wet wt	Samples from 8 widely separated regions. Significant differences between regions and within the same region. Australia, New South Wales CATTLE; ARSENIC; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; MANGANESE; MERCURY; MOLYBDENUM; NICKEL; SILICON; ZINC; AUSTRALIA; KIDNEY; LIVER	Pianka, J. Lee, H.Y. 1979 Journal of the Science of Food and Agriculture 30:503-507
467 Kidney	Ingestion	AA3	a) 6 b) 6	a) Not given b) Not given	a) 73 ± or - 6 ppm b) 96 ± or - 5 ppm Dry wt	a) Control diet b) Diet of 13% high Cd sewage sludge, 166 days Hereford yearlings, mean wt 336 kg. Slaughtered at 460 kg mean live wt. CATTLE; SLUDGES; COLORADO; POHNS; LADN; KIDNEY; LIVER; LUNG; STICLES; SPINER; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MERCURY	Johnson, D.S. Rienholz, E.U. Baxter, J.C. Spangler, E. Ward, G.H. 1981 Journal of Animal Science 52(1):108-114
468 Kidney	Ingestion	AA3	a) 4 b) 4	a) Not given b) Not given	a) 19.90 ppm b) 10.27 ppm wet wt	a) Pasture fertilized with treated saffinote b) Controls Grass on plot treated with saffinote (100 lb N/acre) or commercial fertilizer (100 lb N/acre). Applied 5/79 and 7/79 Black, white-faced calves, mean pre-test wt 337 lb, mean post-test wt 445 lb. B- pathological changes CATTLE; SAFFINATE; RADIUM 226; THORIUM 230; ARSENIC; CADMIUM; COPPER; LEAD; MOLYBDENUM; NICKEL; QUANTUM; ZINC; BIOACCUMULATION; ORIGON; BLOOD; BLOOD SERUM; KIDNEY; LIVER; MUSCLES	Edwards, V.C. Dooley, A.L. 1980 Veterinary and Human Toxicology 22(5):309-311
469 Liver		AA3	190	13.4-49.2 ppm wet wt	37.5 ± or - 13.4 ppm wet wt	Samples from 8 widely separated regions. Significant differences between regions and within the same region. Australia, New South Wales CATTLE; ARSENIC; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; MANGANESE; MERCURY; MOLYBDENUM; NICKEL; SILICON; ZINC; AUSTRALIA; KIDNEY; LIVER	Pianka, J. Lee, H.Y. 1979 Journal of the Science of Food and Agriculture 30:503-507

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Zinc
7440-66-4
Zn
At 65.38, 27 419.5 C, 37 900 C, VP 1 aa Hg at 467 C, 10 aa Hg at 590 C
Cattle
PC3 ap.

(CONTINUED)

TEST NO.	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CATTLE	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
470 Liver	Ingestion	AAS	a) 6 b) 6	a) Not given b) Not given	a) 143 ± or - 0.9 ppm b) 132 ± or - 12 ppm Dry wt	a) Control diet b) Diet of 12% high Cd sewage sludge, 106 days Hereford yearlings, mean wt 336 kg. Slaughtered at 460 kg mean live wt. CATTLE: SLUDGES; COLORADO; BONES; BRAIN; KIDNEYS; LIVER; LUNGS; MUSCLES; SPLEEN; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MERCURY	Johnson, D.E. Kienholz, E.V. Baxter, J.C. Spanglar, E. Ward, G.H. 1981 Journal of Animal Science 52(1):108-114
471 Liver	Ingestion	AAS	a) 4 b) 4	a) Not given b) Not given	a) 33.92 ppm b) 42.65 ppm Wet wt	a) Pastures fertilized with treated saffinate b) Controls Grating 6 kg on plots treated with saffinate (100 lb N/acre) or commercial fertilizer (100 lb N/acre). Applied 5/79 and 7/79 Black, white-faced calves, mean pre-test wt 337 lb, mean post-test wt 445 lb. No pathological changes CATTLE: SAFFINATE; RADIUM 224; THORIUM 230; ARSENIC; CADMIUM; COPPER; LEAD; MOLYBDENUM; NICKEL; SILICON; ZINC; BIOACCUMULATION; CHLORINE; BLOOD; BLOOD SERUM; KIDNEYS; LIVER; MUSCLES	Edwards, D.C. Dooley, A.L. 1980 Veterinary and Human Toxicology 22(5):309-311
472 Liver	Ingestion	AAS	a) 3 b) 3	a) Not given b) Not given	a) 95 ± or - 2.7 ppm b) 96 ± or - 2.0 ppm Dry wt	a) Control diet b) Diet of 12% high Cd sewage sludge, 106 days Hereford yearlings, mean wt 336 kg. Slaughtered at 460 kg mean live wt. CATTLE: SLUDGES; COLORADO; BONES; BRAIN; KIDNEYS; LIVER; LUNGS; MUSCLES; SPLEEN; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MERCURY	Johnson, D.E. Kienholz, E.V. Baxter, J.C. Spanglar, E. Ward, G.H. 1981 Journal of Animal Science 52(1):109-114
473 Muscle	Ingestion	AAS	a) 3 b) 3	a) Not given b) Not given	a) 340 ± or - 10 ppm b) 267 ± or - 28 ppm Dry wt	a) Control diet b) Diet of 12% high Cd sewage sludge, 106 days Hereford yearlings, mean wt 336 kg. Slaughtered at 460 kg mean live wt. CATTLE: SLUDGES; COLORADO; BONES; BRAIN; KIDNEYS; LIVER; LUNGS; MUSCLES; SPLEEN; BIOACCUMULATION; CADMIUM; COPPER; LEAD; MERCURY	Johnson, D.E. Kienholz, E.V. Baxter, J.C. Spanglar, E. Ward, G.H. 1981 Journal of Animal Science 52(1):109-114

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2100
7480-44-4
24
At 45.38, 27 419.5 C, 27 908 C, 27 1 88 Hg at 487 C, 10 88 Hg at 590 C
Cattle
RCS 41.

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TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	DIAGNOSIS	REMARKS	GENERAL INFORMATION	REFERENCE
474 Spleen	Ingestion	AAS	a) 4 b) 4	a) Not given b) Not given	a) 36.10 ppm b) 45.72 ppm 1st wt	a) Pastures fertilized with treated refillate b) Controls Grass 8 on plots treated with refillate (100 lb N/acre) or commercial fertilizer (100 lb N/acre). Applied 5/79 and 7/79 Black, white-faced calves, mean pre-test wt 337 lb. mean post-test wt 442 lb. No pathological changes CATTLE: PASTURE; RADJON 226; RADJON 230; ARSENIC; CADMIUM; COPIES; LAC; MOLYBDENUM; NICKEL; URANIUM; ZINC; BIOACCUMULATION; CHLORINE; DICOD; BLOOD SERUM; KIDNEY; LIVER; MUSCLE	Edwards, V.C. Dowley, A.L. 1980 Veterinary and Human Toxicology 22(5):389-391
475 Spleen	Ingestion	AAS	a) 3 b) 3	a) Not given b) Not given	a) 117 + or - 3.3 ppm b) 110 + or - 0 ppm Dry wt	a) Control diet b) Diet of 12% high Cd sewage sludge, 106 days Hereford yearlings, mean wt 336 kg. Slaughtered at 460 kg mean live wt. CATTLE: SLUDGE; COLORADO; BONES; BRAIN; KIDNEY; LIVER; LUNG; MUSCLE; SPLEEN; BIOACCUMULATION; CALCIUM; COPPER; LEAD; MERCURY	Johnson, D.E. Richards, E.V. Baxter, J.C. Spangler, E. Ward, G.H. 1981 Journal of Animal Science 52(3):709-714

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2100
7480-44-4
26
At 45.38, 27 419.5 C, 27 908 C, 27 1 88 Hg at 487 C, 10 88 Hg at 590 C
Crapple, black
SCORPIS BROMACULATUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	DIAGNOSIS	REMARKS	GENERAL INFORMATION	REFERENCE
476 Body, whole		AAS	26	Not given	113 ug/g	fishes, mean length 109 mm, mean dry wt 18.09 g, collected downstream of fish control weir at Algonquin. No major industrial effluents, total input mainly from sewage treatment plants and recreational boating. No concentration change with increasing length. Illinois, Fox River ILLINOIS; FISH; BIOACCUMULATION; FISH; WATER POLLUTION; CADMIUM; COPIES; LAC; MUSCLE; ZINC	Vinikour, W.S. Goldstein, S.H. Anderson, P.V. 1980 Bulletin of Environmental Contamination and Toxicology 20:727-730

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ITEM NO	REMARKS	ANALYTICAL METHOD	NUMBER OF CLIPS	DATE	WET WEIGHT	ANALYTICAL REMARKS	ANALYST
Q73 Sediment		AMS	24	Not given	97.8 g or - 16.2 wt % dry wt	Spec < 10-95 AD, assumed healthy. Vegetation analysis indicates pollution area free from gross pollution. Montana, Northern Great Plains 1970; 1971; 1972; 1973; 1974; 1975; 1976; 1977; 1978; 1979; 1980; 1981; 1982; 1983; 1984; 1985; 1986; 1987; 1988; 1989; 1990; 1991; 1992; 1993; 1994; 1995; 1996; 1997; 1998; 1999; 2000; 2001; 2002; 2003; 2004; 2005; 2006; 2007; 2008; 2009; 2010; 2011; 2012; 2013; 2014; 2015; 2016; 2017; 2018; 2019; 2020; 2021; 2022; 2023; 2024; 2025; 2026; 2027; 2028; 2029; 2030; 2031; 2032; 2033; 2034; 2035; 2036; 2037; 2038; 2039; 2040; 2041; 2042; 2043; 2044; 2045; 2046; 2047; 2048; 2049; 2050; 2051; 2052; 2053; 2054; 2055; 2056; 2057; 2058; 2059; 2060; 2061; 2062; 2063; 2064; 2065; 2066; 2067; 2068; 2069; 2070; 2071; 2072; 2073; 2074; 2075; 2076; 2077; 2078; 2079; 2080; 2081; 2082; 2083; 2084; 2085; 2086; 2087; 2088; 2089; 2090; 2091; 2092; 2093; 2094; 2095; 2096; 2097; 2098; 2099; 2100; 2101; 2102; 2103; 2104; 2105; 2106; 2107; 2108; 2109; 2110; 2111; 2112; 2113; 2114; 2115; 2116; 2117; 2118; 2119; 2120; 2121; 2122; 2123; 2124; 2125; 2126; 2127; 2128; 2129; 2130; 2131; 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Doc
100-06-1
20
100 05-10
1000, 10
1000000

ISSUE	REPORTING CODE	ANALYTICAL SERVICE	NUMBER OF CASES	STATUS	DATE	REMARKS	REFERENCE
SPY Footnote		ALL	110			a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given 97 + 98 - 5 100/4 91 90 + 91 - 5 100/4 91 98 + 99 - 5 100/4 91 94 + 95 - 5 100/4 91 92 + 93 - 5 100/4 91 91 + 92 - 5 100/4 91 92 + 93 - 5 100/4 91 93 + 94 - 5 100/4 91 94 + 95 - 5 100/4 91 95 + 96 - 5 100/4 91 96 + 97 - 5 100/4 91 97 + 98 - 5 100/4 91 98 + 99 - 5 100/4 91 99 + 100 - 5 100/4 91 100 + 101 - 5 100/4 91 101 + 102 - 5 100/4 91 102 + 103 - 5 100/4 91 103 + 104 - 5 100/4 91 104 + 105 - 5 100/4 91 105 + 106 - 5 100/4 91 106 + 107 - 5 100/4 91 107 + 108 - 5 100/4 91 108 + 109 - 5 100/4 91 109 + 110 - 5 100/4 Birds shot by hunters in forests Forest area: Significant 100/4 Forest area: Significant 1	

Zinc
7440-66-6
2a
At 65.38, 87 419.5 C, 87 908 C, 77 1 mg Hg at 487 C, 10 mg Hg at 590 C
Torch, yellow
FIRCH PLAVESCHENS

715502	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
480 Body, whole		AAS	40	Not given	106 ug/g	Fishes, mean length 104 mm, mean dry wt 11.22 g, collected downstream of flood control weir at Algonquin. No major industrial effluents, metal input mainly from sewage treatment plants and recreational boating. No concentration change with increasing fish wt. Illinois, Fox River ILLINOIS; POLY; BIOACCUMULATION; FISHES; WATER POLLUTION; CADMIUM; COPPER; LEAD; METALS; ZINC	Vitkov, J.S. Goldstein, S.H. Anderson, R.V. 1980 Bulletin of Environmental Contamination and Toxicology 24:727-734

Zinc
7440-66-6
2a
At 65.38, 87 419.5 C, 87 908 C, 77 1 mg Hg at 487 C, 10 mg Hg at 590 C
Sheep
CVIS mp.

715502	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
481 Bone	Ingestion	ASV	a) 9 b) 5	a) Not given b) Not given	a) 662 ± or - 39 ppm b) 625 ± or - 58 ppm Dry wt	a) Animals fed sludge-grown crop b) Animals fed control crop lambs fed silage corn grown on soil amended with 280 dry metric tons/hectare of municipal sewage sludge for 274 days New York, Syracuse liver cell degeneration in sheep fed sludge-grown corn silage BSEB; JUVENILES; SLUDGES; ANIMAL FIB; BIOACCUMULATION; CADMIUM; ZINC; FISHES; BRAIN; HEART; KIDNEYS; LIVER; MUSCLES; SPLEEN; NEW YORK; AUTOPSY	Hoffman, C.L. Reid, J.T. Elving, D.C. Stowessand, J.S. Naschek, W.H. Telford, J.H. Furr, A.K. Parkinson, T.P. Bache, C.A. Gutensmann, W.H. Naschek, W.H. List, D.J. 1980 Journal of Agricultural and Food Chemistry 28:58-61
482 Brain	Ingestion	ASV	a) 9 b) 5	a) Not given b) Not given	a) 58 ± or - 2 ppm b) 53 ± or - 3 ppm Dry wt	a) Animals fed sludge-grown crop b) Animals fed control crop lambs fed silage corn grown on soil amended with 280 dry metric tons/hectare of municipal sewage sludge for 274 days New York, Syracuse liver cell degeneration in sheep fed sludge-grown corn silage BSEB; JUVENILES; SLUDGES; ANIMAL FIB; BIOACCUMULATION; CADMIUM; ZINC; FISHES; BRAIN; HEART; KIDNEYS; LIVER; MUSCLES; SPLEEN; NEW YORK; AUTOPSY	Hoffman, C.L. Reid, J.T. Elving, D.C. Stowessand, J.S. Naschek, W.H. Telford, J.H. Furr, A.K. Parkinson, T.P. Bache, C.A. Gutensmann, W.H. Naschek, W.H. List, D.J. 1980 Journal of Agricultural and Food Chemistry 28:58-61

(NEXT PAGE)

Zinc
7440-66-4
Zn
At 65.38, RF 415.5 C, DP 908 C, VP 1 mm Hg at 487 C, 10 mm Hg at 590 C
Sheep
Cells ap.

(CONTINUED)

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
483 Heart	Ingestion	ASV	a) 9 b) 5	a) Not given b) Not given	a) 59 ± or - 2 ppm b) 54 ± or - 7 ppm Dry wt	a) Animals fed sludge-grown crop b) Animals fed control crop lambs fed silage corn grown on soil amended with 280 dry metric tons/hectare of municipal sewage sludge for 274 days New York, Syracuse liver cell degeneration in sheep fed sludge-grown corn silage SHEEP; JUVENILES; SLUDGES; ANIMAL FEED; BIOACCUMULATION; CADMIUM; ZINC; SCHEM; SWAIN; HEART; KIDNEYS; LIVER; MUSCLES; SPLEEN; NEW YORK; AUTOPSIES	Heffron, C.L. Reid, J.T. Elving, D.C. Stoewand, G.S. Maschek, W.N. Telford, J.N. Furr, A.N. Parkinson, T.F. Sache, C.A. Gutenmann, V.N. Vaselek, P.C. Lisk, D.J. 1980 Journal of Agricultural and Food Chemistry 28:56-61
484 Kidney	Ingestion	ASV	a) 9 b) 5	a) Not given b) Not given	a) 4135 ± or - 253 ppm b) 3271 ± or - 402 ppm Dry wt	a) Animals fed sludge-grown crop b) Animals fed control crop lambs fed silage corn grown on soil amended with 280 dry metric tons/hectare of municipal sewage sludge for 274 days New York, Syracuse liver cell degeneration in sheep fed sludge-grown corn silage SHEEP; JUVENILES; SLUDGES; ANIMAL FEED; BIOACCUMULATION; CADMIUM; ZINC; SCHEM; SWAIN; HEART; KIDNEYS; LIVER; MUSCLES; SPLEEN; NEW YORK; AUTOPSIES	Heffron, C.L. Reid, J.T. Elving, D.C. Stoewand, G.S. Maschek, W.N. Telford, J.N. Furr, A.N. Parkinson, T.F. Sache, C.A. Gutenmann, V.N. Vaselek, P.C. Lisk, D.J. 1980 Journal of Agricultural and Food Chemistry 28:56-61
485 Liver	Ingestion	ASV	a) 9 b) 5	a) Not given b) Not given	a) 1627 ± or - 161 ppm b) 1523 ± or - 261 ppm Dry wt	a) Animals fed sludge-grown crop b) Animals fed control crop lambs fed silage corn grown on soil amended with 280 dry metric tons/hectare of municipal sewage sludge for 274 days New York, Syracuse liver cell degeneration in sheep fed sludge-grown corn silage SHEEP; JUVENILES; SLUDGES; ANIMAL FEED; BIOACCUMULATION; CADMIUM; ZINC; SCHEM; SWAIN; HEART; KIDNEYS; LIVER; MUSCLES; SPLEEN; NEW YORK; AUTOPSIES	Heffron, C.L. Reid, J.T. Elving, D.C. Stoewand, G.S. Maschek, W.N. Telford, J.N. Furr, A.N. Parkinson, T.F. Sache, C.A. Gutenmann, V.N. Vaselek, P.C. Lisk, D.J. 1980 Journal of Agricultural and Food Chemistry 28:56-61

(NEXT PAGE)

Zinc
 7440-66-6
 Zn
 Acc 65.10, 82 419.5 C, 82 900 C, VP 1 an Rq at 447 C, 10 na Hg at 590 C
 Slump
 C773 sp.

(CONTINUED)

ISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	SOURCE	REMARKS	ADDITIONAL INFORMATION	REFERENCE
406 Spleen	Ingestion	ASV	1a	a) Not given b) Not given c) Not given d) Not given	a) 151 ± or - 7 ppm b) 117 ± or - 5 ppm c) 108 ± or - 3 ppm d) 95 ± or - 20 ppm Dry wt	a) Animals fed sludge-grown crop, 9 samples (check) b) Animals fed sludge-grown crop, 9 samples (round) c) Animals fed control crop, 5 samples (check) d) Animals fed control crop, 5 samples (round) Lents fed silage grown on soil amended with 280 dry metric tons/hectare of municipal sewage sludge for 274 days Significantly higher levels (P < 0.05) in sludge-fed animals New York, Syracuse Liver cell degeneration in sheep fed sludge-grown corn silage SHEEP; JUVENILES; SLEDDERS; ANIMAL FEED; BIOACCUMULATION; CADMIUM; ZINC; SCHEM; BRAIN; HEART; KIDNEYS; LIVER; MUSCLES; SPLEEN; NEW YORK; AUTOPSIES	Haffren, C.L. Reid, J.T. Elving, B.C. Steensand, G.S. Hanchet, V.H. Telford, J.H. Furr, A.E. Parkinson, T.F. Sachse, C.A. Guttenmann, V.H. Vasilek, P.C. Link, D.J. 1980 Journal of Agricultural and Food Chemistry 28:56-61
407 Spleen	Ingestion	ASV	a) 9 b) 5	a) Not given b) Not given	a) 94 ± or - 3 ppm b) 102 ± or - 10 ppm Dry wt	a) Animals fed sludge-grown crop b) Animals fed control crop Lents fed silage grown on soil amended with 280 dry metric tons/hectare of municipal sludge for 274 days New York, Syracuse Liver cell degeneration in sheep fed sludge-grown corn silage SHEEP; JUVENILES; SLEDDERS; ANIMAL FEED; BIOACCUMULATION; CADMIUM; ZINC; SCHEM; BRAIN; HEART; KIDNEYS; LIVER; MUSCLES; SPLEEN; NEW YORK; AUTOPSIES	Haffren, C.L. Reid, J.T. Elving, B.C. Steensand, G.S. Hanchet, V.H. Telford, J.H. Furr, A.E. Parkinson, T.F. Sachse, C.A. Guttenmann, V.H. Vasilek, P.C. Link, D.J. 1980 Journal of Agricultural and Food Chemistry 28:56-61

Zinc
7440-66-6
Zn
ATG 41.36, BP 419.5 C, BP 900 C, VP 1 on Bq at 407 C, 10 on Bq at 590 C
Swan, auto
C7088 0104

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
486 Kidney	Ingestion	AAS	a) 10 b) 11	a) 145-475 ug/g b) 60-235 ug/g Dry wt	a) 300 ug/g b) 145 ug/g Dry wt	a) Poisoned swans b) Controls Dead or dying birds in heavily fished area, central Nottingham. Average gland content, 11 fishing shots/bird. Controls, dead from other causes, East Midlands. United Kingdom, River Trent Abnormal carriage of neck, anorexia, icterus, increased pigmentation of liver, grossly extended gallbladder, gland and proventriculus inspaction, kidney abnormalities, adrenal gland enlargement, weight loss. BIRDS; SWANS; UNITED KINGDOM; LEAD POISONING; EGGS; BRAIN; KIDNEY; LIVER; SPLEEN; COPPER; IRON; LEAD; ZINC; BIOACCUMULATION	Simpson, V.B. Hunt, A.S. 1979 Environmental Pollution 10:187-202
489 Liver	Ingestion	AAS	a) 10 b) 11	a) 240-1600 ug/g b) 120-435 ug/g Dry wt	a) 725 ug/g b) 257 ug/g Dry wt	a) Poisoned swans b) Controls Dead or dying birds in heavily fished area, central Nottingham. Average gland content, 11 fishing shots/bird. Controls, dead from other causes, East Midlands. United Kingdom, River Trent Abnormal carriage of neck, anorexia, icterus, increased pigmentation of liver, grossly extended gallbladder, gland and proventriculus inspaction, kidney abnormalities, adrenal gland enlargement, weight loss. BIRDS; SWANS; UNITED KINGDOM; LEAD POISONING; EGGS; BRAIN; KIDNEY; LIVER; SPLEEN; COPPER; IRON; LEAD; ZINC; BIOACCUMULATION	Simpson, V.B. Hunt, A.S. 1979 Environmental Pollution 10:187-202

1,3,4,5-tetra-1H-cyclobuta (4d) pentalene, 1,1a,2,2,3,3a,4,5,5,3a,4b,6-dodecachlorooctahydro-
304-305 S
C60-Cl12
88 305 C. MP 405 C. VP 6210 (2-6) on Hq at 50 C
(rayfish
880C1004005 CLASSI

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	DOSE	MEAN	ORIGINAL INFORMATION	REFERENCE
490 Brain		Radiometry	a) 7 b) 6 c) 6 d) 5	a) Not given b) Not given c) Not given d) Not given	a) 0.05 * or - 0.03 ppa b) 0.4 * or - 0.6 ppa c) 0.06 * or - 0.03 ppa d) 5.9 * or - 2.0 ppa	a) 7.4 ppb dose for 4-7 d, after onset of early toxicosis symptoms b) 7.4 ppb dose for 10-21 d, after onset of late toxicosis symptoms c) 74 ppb dose for 2-4 d, after onset of early toxicosis symptoms d) 74 ppb dose for 7-14 d, after onset of early toxicosis symptoms Measured as C14-Mirex Adults Early toxicosis symptoms: eye twitch and body jerk. Late toxicosis symptoms: loss of control of tail reflexes, tumbling backwards in legs up position, death. LIVER; GUTS; GLAND; GILLS; DIGESTIVE GLAND; CHAFFISH; BIOACCUMULATION; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; MISSISSIPPI; ADULTS; NEUROVASCULAR DISEASES; BRAIN; INTENTIONS; MUSCLES	Hinchey, C.D. Hunsinger, R.W. Giles, R.C. 1980 Bulletin of Environmental Contamination and Toxicology 20:522-526
491 Digestive gland		Radiometry	a) 7 b) 6 c) 6 d) 5	a) Not given b) Not given c) Not given d) Not given	a) 1.7 * or - 0.6 ppa b) 4.6 * or - 1.7 ppa c) 1.4 * or - 0.9 ppa d) 7.8 * or - 2.0 ppa	a) 7.4 ppb dose for 4-7 d, after onset of early toxicosis symptoms b) 7.4 ppb dose for 10-21 d, after onset of late toxicosis symptoms c) 74 ppb dose for 2-4 d, after onset of early toxicosis symptoms d) 74 ppb dose for 7-14 d, after onset of early toxicosis symptoms Measured as C14-Mirex Adults Early toxicosis symptoms: eye twitch and body jerk. Late toxicosis symptoms: loss of control of tail reflexes, tumbling backwards in legs up position, death. LIVER; GUTS; GLAND; GILLS; DIGESTIVE GLAND; CHAFFISH; BIOACCUMULATION; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; MISSISSIPPI; ADULTS; NEUROVASCULAR DISEASES; BRAIN; INTENTIONS; MUSCLES	Hinchey, C.D. Hunsinger, R.W. Giles, R.C. 1980 Bulletin of Environmental Contamination and Toxicology 20:522-526
492 Gills		Radiometry	a) 7 b) 6 c) 6 d) 5	a) Not given b) Not given c) Not given d) Not given	a) 0.7 * or - 0.2 ppa b) 0.6 * or - 0.1 ppa c) 1.1 * or - 0.1 ppa d) 1.7 * or - 0.1 ppa	a) 7.4 ppb dose for 4-7 d, after onset of early toxicosis symptoms b) 7.4 ppb dose for 10-21 d, after onset of late toxicosis symptoms c) 74 ppb dose for 2-4 d, after onset of early toxicosis symptoms d) 74 ppb dose for 7-14 d, after onset of early toxicosis symptoms Measured as C14-Mirex Adults Early toxicosis symptoms: eye twitch and body jerk. Late toxicosis symptoms: loss of control of tail reflexes, tumbling backwards in legs up position, death. LIVER; GUTS; GLAND; GILLS; DIGESTIVE GLAND; CHAFFISH; BIOACCUMULATION; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; MISSISSIPPI; ADULTS; NEUROVASCULAR DISEASES; BRAIN; INTENTIONS; MUSCLES	Hinchey, C.D. Hunsinger, R.W. Giles, R.C. 1980 Bulletin of Environmental Contamination and Toxicology 20:522-526

1,3,6-Substituted-cyclohexa (CH) pentamers. 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-
 135-85-5
 C10-C112
 80 941.6, 87 485 C, 89 6110(2-6) as Rq at 50 C
 Crayfish
 BUCAMABUS CLARKI

(CONTINUED)

TESTER	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	DAMAGE	NEAR	GENERAL INFORMATION	REFERENCE
493 Green glau1		Radioactivity	a) 7 b) 6 c) 6 d) 5	a) Not given b) Not given c) Not given d) Not given	a) 0.18 + or - 0.04 ppa b) 1.8 + or - 0.4 ppa c) 0.2 + or - 0.6 ppa d) 5.6 + or - 1.4 ppa	a) 7.4 ppt dose for 4-7 d, after onset of early toxicosis symptoms b) 7.4 ppa dose for 10-21 d, after onset of late toxicosis symptoms c) 74 ppa dose for 2-4 d, after onset of early toxicosis symptoms d) 74 ppa dose for 7-14 d, after onset of early toxicosis symptoms Measured as C18-Nitro Adults Early toxicosis symptoms: eye twitch and body jerk. Late toxicosis symptoms: loss of control of tail reflexes, tumbling backwards in legs or position, death. LIVER; GREEN GLAND; GILLS; DIGESTIVE GLAND; CHAFFIN; BIOACCUMULATION; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; MISSISSIPPI; ADULTS; MUSCULOSKELETAL DISEASES; BRAIN; TESTES; MUSCLES	Hindew, C.D. Hunsinger, R.H. Giles, R.C. 1980 Bulletin of Environmental Contamination and Toxicology 24:522-524
494 Intestine		Radioactivity	a) 7 b) 6 c) 6 d) 5	a) Not given b) Not given c) Not given d) Not given	a) 7.8 + or - 3.2 ppa b) 1.9 + or - 0.7 ppa c) 11.2 + or - 5 ppa d) 3.2 + or - 0.6 ppa	a) 7.4 ppa dose for 4-7 d, after onset of early toxicosis symptoms b) 7.4 ppa dose for 10-21 d, after onset of late toxicosis symptoms c) 74 ppa dose for 2-4 d, after onset of early toxicosis symptoms d) 74 ppa dose for 7-14 d, after onset of early toxicosis symptoms Measured as C18-Nitro Adults Early toxicosis symptoms: eye twitch and body jerk. Late toxicosis symptoms: loss of control of tail reflexes, tumbling backwards in legs or position, death. LIVER; GREEN GLAND; GILLS; DIGESTIVE GLAND; CHAFFIN; BIOACCUMULATION; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; MISSISSIPPI; ADULTS; MUSCULOSKELETAL DISEASES; BRAIN; TESTES; MUSCLES	Hindew, C.D. Hunsinger, R.H. Giles, R.C. 1980 Bulletin of Environmental Contamination and Toxicology 24:522-524
495 Muscle		Radioactivity	a) 7 b) 6 c) 6 d) 5	a) Not given b) Not given c) Not given d) Not given	a) 0.04 + or - 0.01 ppa b) 0.6 + or - 0.1 ppa c) 0.05 + or - 0.02 ppa d) 0.6 + or - 0.2 ppa	a) 7.4 ppa dose for 4-7 d, after onset of early toxicosis symptoms b) 7.4 ppa dose for 10-21 d, after onset of late toxicosis symptoms c) 74 ppa dose for 2-4 d, after onset of early toxicosis symptoms d) 74 ppa dose for 7-14 d, after onset of early toxicosis symptoms Measured as C18-Nitro Adults Early toxicosis symptoms: eye twitch and body jerk. Late toxicosis symptoms: loss of control of tail reflexes, tumbling backwards in legs or position, death. LIVER; GREEN GLAND; GILLS; DIGESTIVE GLAND; CHAFFIN; BIOACCUMULATION; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; MISSISSIPPI; ADULTS; MUSCULOSKELETAL DISEASES; BRAIN; TESTES; MUSCLES	Hindew, C.D. Hunsinger, R.H. Giles, R.C. 1980 Bulletin of Environmental Contamination and Toxicology 24:522-524

(NEXT PAGE)

1,3,4-Butene-18-cyclobuta (C4) pentaleone. 1,1a,2,2,3,3a,4,5,5a,5b,6-dodecachlorooctahydro-
 2285-85-5
 C10-C112
 BU 543.6, SP 485 C, VP 6X10 (E-6) as Mg at 50 C
 Crayfish
 FROCARIARUS CLARKII

(CONTINUED)

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
496 Nerve		Radioactivity	a) 7 b) 6 c) 4 d) 5	a) Not given b) Not given c) Not given d) Not given	a) 0.04 + or - 0.02 ppb b) 0.4 + or - 1.0 ppb c) 0.04 + or - 0.01 ppb d) 6.2 + or - 3.2 ppb	a) 7.4 ppb dose for 4-7 d, after onset of early toxicosis symptoms b) 7.4 ppb dose for 10-11 d, after onset of late toxicosis symptoms c) 74 ppb dose for 3-5 d, after onset of early toxicosis symptoms d) 74 ppb dose for 7-14 d, after onset of early toxicosis symptoms Measured as C14-Nerve Adults Early toxicosis symptoms: eye twitch and body jerk. Late toxicosis symptoms: loss of control of tail reflexes, tumbling backwards in legs of position, death. LIVER; SPIED GLAND; GILLS; DIGESTIVE GLAND; CRAYFISH; BIOACCUMULATION; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; MISSISSIPPI; ADULTS; NEUROMUSCULAR DISEASES; BRAIN; INTENTIONS; MUSCLES	Winkler, C.D. Hunsinger, R.D. Olson, R.C. 1980 Bulletin of Environmental Contamination and Toxicology 24:522-526

1,3,4-Butene-18-cyclobuta (C4) pentaleone. 1,1a,2,2,3,3a,4,5,5a,5b,6-dodecachlorooctahydro-
 2285-85-5
 C10-C112
 BU 543.6, SP 485 C, VP 6X10 (E-6) as Mg at 50 C
 Crocodile, American
 CROCODYLUS ACUTUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
497 Eggs		GC-DC	a) 3 b) 3 c) 2 d) 3	a) Not given b) Not given c) Not given d) Not given	a) 0.02 ppb b) 0.01 ppb c) 0.02 ppb d) 0.01 ppb Wet wt	4 clutches Shells, membranes removed. Mean shell thickness 0.49 mm Florida, Everglades National Park EGGS; CHOCOLATES; REPTILES; FLORIDA; HARTLAND; CHLORINE ORGANIC COMPOUNDS; CCI; DDE; DDT; DIELDRIN; NEPTACHLOR; NUCLEIDE; OXYCHLORIDE; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION	Hall, R.J. Hamer, T.L. Hobertson, W.B., Jr. Patty, P.C. 1979 Bulletin of Environmental Contamination and Toxicology 23:87-90

1,3,4-Metheno-1H-cyclobuta (cd) pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-
 2305-85-5
 C10-C112
 BP 545.6, BP 485 C, VP 6X10 (E-6) mm Hg at 50 C
 Coll. great black-backed
 12805 8421005

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
egg eggs		GC	28	0.0-0.26 ppm wet wt	0.02 ± or - 0.06 ppm wet wt	Hatchling index 1.71-2.11, shell thickness 0.39-0.47 mm, shell wt 7.21-9.09 g, lipid content 4.0-9.6%, collected 5/77. Reine, Applecore Island PBBs; HAHs; PCBs; CHLORINE ORGANIC COMPOUNDS; DDC; DDE; DDT; DIELDRIN; DICHLORDANE; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; VIRGINIA	Bravo, R.C. Cook, N.C. Kolbe, E. 1979 Bulletin of Environmental Contamination and Toxicology 22:394-399

1,3,4-Metheno-1H-cyclobuta (cd) pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-
 2305-85-5
 C10-C112
 BP 545.6, BP 485 C, VP 6X10 (E-6) mm Hg at 50 C
 Baskin

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
egg adipose		GLC		92-99%	95.3 ± or - 3.2%	1 recovery for concentration range 0.05-1.0 ug Detection limit 0.2 pg Sensitivity of method 0.017 ppm. NEW YORK; ADIPOSE TISSUE; BLOOD PLASMA; LIVER; MEASUREMENT METHODS; PESTICIDES; CHLORINE ORGANIC COMPOUNDS	Stein, Y.B. Pittman, K.A. 1979 Bulletin of Environmental Contamination and Toxicology 23:300-305
egg blood, plasma		GLC		93-101%	95.7 ± or - 3.5%	1 recovery for concentration range 0.05-1.0 ug Detection limit 0.2 pg Sensitivity of method 0.01 ppm. NEW YORK; ADIPOSE TISSUE; BLOOD PLASMA; LIVER; MEASUREMENT METHODS; PESTICIDES; CHLORINE ORGANIC COMPOUNDS	Stein, Y.B. Pittman, K.A. 1979 Bulletin of Environmental Contamination and Toxicology 23:300-305
egg liver		GLC		93-104%	96.5 ± or - 5.0%	1 recovery for concentration range 0.10-1.0 ug Detection limit 0.2 pg Sensitivity of method 0.03 ppm. NEW YORK; ADIPOSE TISSUE; BLOOD PLASMA; LIVER; MEASUREMENT METHODS; PESTICIDES; CHLORINE ORGANIC COMPOUNDS	Stein, Y.B. Pittman, K.A. 1979 Bulletin of Environmental Contamination and Toxicology 23:300-305

1,3,4-Methylene-1H-cyclobuta (cd) pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-
 2385-85-5
 C10-C112
 BP 545.6, MP 485 C, VP 6X10⁻⁶ mm Hg at 50 C
 Dense
 RT3 up.

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
502 Adipose		GLC		90-102%	98.6 ± or - 4.9%	1 recovery for concentration range 0.005-1.0 ug Detection limit 0.2 pg Sensitivity of method 0.017 ppm. NEW YORK; ADIPOSE TISSUE; BLOOD PLASMA; LIVER; MEASUREMENT METHODS; PESTICIDES; CHLORINE ORGANIC COMPOUNDS	Stein, V.B. Pittman, R.A. 1979 Bulletin of Environmental Contamination and Toxicology 23:300-305
503 Blood, plasma		GLC		93-107%	97.8 ± or - 6.1%	1 recovery for concentration range 0.005-1.0 ug Detection limit 0.2 pg Sensitivity of method 0.01 ppm. NEW YORK; ADIPOSE TISSUE; BLOOD PLASMA; LIVER; MEASUREMENT METHODS; PESTICIDES; CHLORINE ORGANIC COMPOUNDS	Stein, V.B. Pittman, R.A. 1979 Bulletin of Environmental Contamination and Toxicology 23:300-305
504 Liver		GLC		94-102%	98.1 ± or - 6.5%	1 recovery for concentration range 0.01-1.0 ug Detection limit 0.2 pg Sensitivity of method 0.03 ppm. NEW YORK; ADIPOSE TISSUE; BLOOD PLASMA; LIVER; MEASUREMENT METHODS; PESTICIDES; CHLORINE ORGANIC COMPOUNDS	Stein, V.B. Pittman, R.A. 1979 Bulletin of Environmental Contamination and Toxicology 23:300-305

1,3,4-Methylene-1H-cyclobuta (cd) pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-
 2385-85-5
 C10-C112
 BP 545.6, MP 485 C, VP 6X10⁻⁶ mm Hg at 50 C
 Tortle, box
 TERNABP22 CAROLINA

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
505 Eggs		GC-EC	a) 6 b) 3 c) 1 d) 5	a) Not given b) Not given c) Not given d) Not given	a) 1.4 ppm b) 1.6 ppm c) 2.5 ppm d) 1.4 ppm Dry wt	a) 1970 b) 1972 c) 1974 d) 1975 Collected from area sprayed with 5% dioxin bait to control fire ants. Applications 10/68, 5/69, 10/69 and 5/74. Mississippi, Lowndes County 1966; REPTILES; TURTLES; MISSISSIPPI; RESULTS; LIVER; BIOACCUMULATION; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS	Holcomb, C.H. Parker, V.S. 1979 Bulletin of Environmental Contamination and Toxicology 23:369-371

(NEXT PAGE)

1,3,4-Heptene-1H-cyclobuta (cd) pentaleone, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-
 1305-85-5
 C10-C112
 BU 505.6, BP 485 C, VP 6210 (E-6) as Bq at 50 C
 Turtlo, box
 TERRAPENE CAROLINA

(CONTINUED)

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
506 Liver		GC-EC	a) 6 b) 3 c) 1 d) 5	a) Not given b) Not given c) Not given d) Not given	a) 2.7 ppm b) 4.1 ppm c) 3.0 ppm d) 0.68 ppm Dry wt	a) 1970 b) 1972 c) 1974 d) 1975 Adults collected from area sprayed with alres bait to control fire ants. Applications 10/68, 5/69, 10/69 and 5/74. Mississippi, Lowndes County 1968; REPTILES; TURTLES; MISSISSIPPI; ADULTS; LIVER; BIOACCUMULATION; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS	Holdenb, C.H. Parker, W.S. 1979 Bulletin of Environmental Contamination and Toxicology 23:369-371

1,3,4-Heptene-1H-cyclobuta (cd) pentaleone, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-
 1305-85-5
 C10-C112
 BU 505.6, BP 485 C, VP 6210 (E-6) as Bq at 50 C
 Turtlo, milder
 CRYPTSERTS SCRIPTA

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
507 Egg		GC-EC	a) 2 b) 3 c) 4 d) 9 e) 6	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 1.8 ppm b) 2.2 ppm c) 0.15 ppm d) 9.16 ppm e) 0.06 ppm Dry wt	a) 1970 b) 1972 c) 1974 d) 1975 e) 1977 Adults collected from area sprayed with 5% alres bait to control fire ants. Applications 10/68, 5/69, 10/69 and 9/74. Mississippi, Lowndes County 1968; REPTILES; TURTLES; MISSISSIPPI; ADULTS; LIVER; BIOACCUMULATION; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS	Holdenb, C.H. Parker, W.S. 1979 Bulletin of Environmental Contamination and Toxicology 23:369-371
508 Liver		GC-EC	a) 2 b) 3 c) 4 d) 9 e) 6	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 0.98 ppm b) 2.1 ppm c) 0.39 ppm d) 0.12 ppm e) 0.01 ppm Dry wt	a) 1970 b) 1972 c) 1974 d) 1975 e) 1977 Adults collected from area sprayed with 5% alres bait to control fire ants. Applications 10/68, 5/69, 10/69 and 9/74. Mississippi, Lowndes County 1968; REPTILES; TURTLES; MISSISSIPPI; ADULTS; LIVER; BIOACCUMULATION; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS	Holdenb, C.H. Parker, W.S. 1979 Bulletin of Environmental Contamination and Toxicology 23:369-371

1,1,4-ethano-2H-cyclobuta (cd) pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-deca-chlorooctahydro-
143-50-0
C10-Cl10-O
DU 490.68, VP <3210 (B-7) as Bq at 25 C
bluefish
SCNATONES SALTATRIK

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
509 Muscle		GC	1	a) Not applicable b) Not applicable c) Not applicable	a) 0.590 ppm b) 0.045 ppm c) < 1 ppb	a) Kepone b) Monohydrate-Kepone c) Dihydro-Kepone Collected 1976/77 Virginia, James River Chesapeake Bay ISCHLORINATION; MUSCLES; MEASUREMENT METHODS; VIRGINIA; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; CHLORINE ORGANIC COMPOUNDS	Carver, R.A. Griffith, F.D., Jr. 1979 Journal of Agricultural and Food Chemistry 27(5):1035-1037

1,1,4-ethano-2H-cyclobuta (cd) pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-
143-50-0
C10-Cl10-O
DU 490.68, VP <3210 (B-7) as Bq at 25 C
C14b
CALLINECTES SAPIOUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
510 Muscle		GC	2	a) 0.634-1.36 ppm b) 0.048-0.094 ppm c) Not applicable	a) 0.997 ppm b) 0.070 ppm c) < 1 ppb	a) Kepone b) Monohydrate-Kepone c) Dihydro-Kepone Collected 1976/77 Virginia, James River Chesapeake Bay ISCHLORINATION; MUSCLES; MEASUREMENT METHODS; VIRGINIA; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; CHLORINE ORGANIC COMPOUNDS	Carver, R.A. Griffith, F.D., Jr. 1979 Journal of Agricultural and Food Chemistry 27(5):1035-1037

1,1,4-ethano-2H-cyclobuta (cd) pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-
143-50-0
C10-Cl10-O
DU 490.68, VP <3210 (B-7) as Bq at 25 C
C14b
SICROPOGCS UNDELATVS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
511 Muscle		GC	6	a) 0.066-0.726 ppm b) 0.008-0.057 ppm c) Not applicable	a) 0.431 ppm b) 0.029 ppm c) < 1 ppb	a) Kepone b) Monohydrate-Kepone c) Dihydro-Kepone Collected 1976/77 Virginia, James River Chesapeake Bay ISCHLORINATION; MUSCLES; MEASUREMENT METHODS; VIRGINIA; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; CHLORINE ORGANIC COMPOUNDS	Carver, R.A. Griffith, F.D., Jr. 1979 Journal of Agricultural and Food Chemistry 27(5):1035-1037

1,3,4-Setheno-2H-cyclobuta (cd) pentalen-2-one, 1, 1a, 3, 3a, 4, 5, 5, 5a, 5b, 6-decachlorooctahydro-
143-50-0
C10-C110-0
HS 490.60, VP <3110 (E-7) as Bq at 25 C
Bullet
Regill ap.

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
512 Muscle		GC	2	a) 0.100-0.534 ppm b) 0.010-0.035 ppm c) Not applicable	a) 0.317 ppm b) 0.023 ppm c) < 1 ppb	a) Kepone b) Monohydro-Kepone c) Dihydro-Kepone Collected 1976/77 ECHLORINATICH; MUSCLES; MEASUREMENT METHODS; VIRGINIA; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER COLLECTION; CHLORINE ORGANIC COMPOUNDS	Carver, R.A. Griffith, F.D., Jr. 1979 Journal of Agricultural and Food Chemistry 27(5): 1035-1037

1,3,4-Setheno-2H-cyclobuta (cd) pentalen-2-one, 1, 1a, 3, 3a, 4, 5, 5, 5a, 5b, 6-decachlorooctahydro-
143-50-0
C10-C110-0
HS 490.60, VP <3110 (E-7) as Bq at 25 C
Spot
LITOSTOMUS XANTHURUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
513 Muscle		GC	3	a) 0.235-0.470 ppm b) 0.020-0.040 ppm c) Not applicable	a) 0.505 ppm b) 0.031 ppm c) < 1 ppb	a) Kepone b) Monohydro-Kepone c) Dihydro-Kepone Collected 1976/77 Virginia, James River Chesapeake Bay ECHLORINATICH; MUSCLES; MEASUREMENT METHODS; VIRGINIA; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER COLLECTION; CHLORINE ORGANIC COMPOUNDS	Carver, R.A. Griffith, F.D., Jr. 1979 Journal of Agricultural and Food Chemistry 27(5): 1035-1037

1,3,4-Setheno-2H-cyclobuta (cd) pentalen-2-one, 1, 1a, 3, 3a, 4, 5, 5, 5a, 5b, 6-decachlorooctahydro-
143-50-0
C10-C110-0
HS 490.60, VP <3110 (E-7) as Bq at 25 C
Ticut
CYPRINUS HERBILIOSUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
514 Muscle		GC	1	a) Not applicable b) Not applicable c) Not applicable	a) 0.178 ppm b) 0.019 ppm c) < 1 ppb	a) Kepone b) Monohydro-Kepone c) Dihydro-Kepone Collected 1976/77 Virginia, James River Chesapeake Bay ECHLORINATICH; MUSCLES; MEASUREMENT METHODS; VIRGINIA; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER COLLECTION; CHLORINE ORGANIC COMPOUNDS	Carver, R.A. Griffith, F.D., Jr. 1979 Journal of Agricultural and Food Chemistry 27(5): 1035-1037

TISSUE	STROMAL TISSUE	ANALYTICAL METHOD	NUMBER OF CASES	AGE	GENERAL INFORMATION	REFERENCE
Yolk gland	Placental	GC/MS	1	2.7 ug/g wet wt	<p>lip extractable lipids. Kidney lipid content 1.5g</p> <p>fat for fetus (20 cm length) of foetus rather poor in poor condition</p> <p>Netherlands, Tissue</p> <p>ECG/MS; ADIPONE TISSUE; KIDNEY; LIVER; METABOLISM; FETUS; PLACENTAL; PESTICIDE RESIDUES; WATER POLLUTION; CHLORINE ORGANIC COMPOUND; ETC; DDT; DIBENZO; DDTACHLOLOCHLORINE; LIVER</p>	Dehler, J.C. Hillobrand, N.T.J. 1979 Bulletin of Environmental Contamination and Toxicology 21:728-732
Yolk liver	Placental	GC/MS	1	4.7 ug/g wet wt	<p>lip extractable lipids. Liver lipid content 21g</p> <p>fat for fetus (20 cm length) of foetus rather poor in poor condition</p> <p>Netherlands, Tissue</p> <p>ECG/MS; ADIPONE TISSUE; KIDNEY; LIVER; METABOLISM; FETUS; PLACENTAL; PESTICIDE RESIDUES; WATER POLLUTION; CHLORINE ORGANIC COMPOUND; ETC; DDT; DIBENZO; DDTACHLOLOCHLORINE; LIVER</p>	Dehler, J.C. Hillobrand, N.T.J. 1979 Bulletin of Environmental Contamination and Toxicology 21:728-732

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CLASS	EXPOSURE ROUTE	ANALYTICAL METHOD	YIELD OF CASES	DOSE	REMARKS	ORIGINAL INFORMATION	REFERENCE
323 Solid Stable		GC	6	0.13-0.19 ppm wet wt	0.09 ppm wet wt	Joint-test length 600-752 mm, lipid content 3.2-4.8g Lake Michigan, Spider Island Fishes; RAPIDLY; BODY; PISCICULTURE; PESTICIDE RESISTANT; EATING ORGANIC COMPOUND; DDT; FISHES; RESISTANT; POLYCHLORINATED HYDROCARBON	Mohr, W.R. Henderson, R.D. Hall, R.J. Frydman, A.J. 1969 Bulletin of Environmental Contamination and Toxicology 35:738-743

4,7-Methano-1H-indeno, 1,2,3,4,5,6,7,8,9-arnachloro-2,3,4a,6,7,7a-hexahydro-, (1alpha,2beta,3alpha,3alpha,4beta,7beta,7alpha)-
 35762-00-5
 C10-H5-Cl9
 M 644.23
 Snake, water
 BIOCIDA 319808

113502	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	OFFICIAL INFORMATION	REFERENCE
524 Body, whole		GC	1	Not applicable	0.25 ppm wet wt	Scout-vant length 855 mm, 6.34 lipid content John Hickman, Pilot Island SHARKS; HARTLAND; BODY; BIOACCUMULATION; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; DDT; DIBENYL; DIBENYL; POLYCHLORINATED BIPHENYLS	Reinig, G.H. Reposition, R.D. Hall, R.J. Reynolds, A.J. 1980 Bulletin of Environmental Contamination and Toxicology 25:738-74

4,7-Methanoindan, 1,2,4,5,6,7,8,9-octachloro-1,2-epoxy-3a,4,7,7a-tetrahydro- (8 Cl)
 2,5-Methano-2H-indeno(1,2-b)oxirane, 1a,2,3,4,5,6a,7,7-octachloro-1a,1b,5,5a,6,6a-hexahydro- (8 Cl)
 26800-09-2
 C10-H4-Cl8-O
 M 623.77
 Crocodile, American
 BIOCIDILUS ACUTUS

113502	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	OFFICIAL INFORMATION	REFERENCE
525 Eggs		GC-EC	a) 3 b) 3 c) 5 d) 1 e) 2 f) 3	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 0.01 ppm b) 0.01 ppm c) 0.04 ppm d) 0.07 ppm e) 3.03 ppm f) 0.01 ppm Wet wt	3 clutches Shells, malformations removed. Yolk shell thickness 0.49 mm Florida, Everglades National Park EGGS; CROCODILES; REPTILES; FLORIDA; HARTLAND; CHLORINE ORGANIC COMPOUNDS; DDT; DDT; DIBENYL; HEPTACHLOR EPOXIDE; DDT; DIBENYL; DIBENYL; DIBENYL; BIOACCUMULATION; WATER POLLUTION	Hall, R.J. Solner, T.F. Robertson, U.S., Jr. Patty, P.C. 1979 Bulletin of Environmental Contamination and Toxicology 23:87-90

4,7-Methanoindan, 1,2,4,5,6,7,8,9-octachloro-1,2-epoxy-3a,4,7,7a-tetrahydro- (8 Cl)
 2,5-Methano-2H-indeno(1,2-b)oxirane, 1a,2,3,4,5,6a,7,7-octachloro-1a,1b,5,5a,6,6a-hexahydro- (8 Cl)
 26800-09-2
 C10-H4-Cl8-O
 M 623.77
 Gull, great black-backed
 LARUS HAELEUS

113502	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	OFFICIAL INFORMATION	REFERENCE
526 Eggs		GC	24	0.0-0.43 ppm wet wt	0.22 ± 0.10 ppm wet wt	Isleliffe Island 1.71-2.11, shell thickness 0.39-0.47 mm, shell wt 1.21-9.04 g, lipid content 1.0-1.44, collected 1/77. Hale, Appleton Island BIRDS; HARE; EGGS; CHLORINE ORGANIC COMPOUNDS; DDT; DDT; DIBENYL; DIBENYL; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; VIRGINIA	Suaro, R.C. Cook, R.C. Folbe, E. 1979 Bulletin of Environmental Contamination and Toxicology 22:194-199

1,2,3,6,7,8-octachloro-1,2-epoxy-3a,4,7,7a-tetrahydro-
3H-benzo[5,6-b]indole (1,2-b) oxirane, 1a,2,3,4,5,6,7,7a,
8-octachloro-1a,2b,3,4,5,6,7,7a,8-octachloro- (9 Cl)

10-24-01 013-77

SAULTMOND COURT
BURYING. 1703

ISSUE	REPORTER NUMBER	ANALYTICAL METHOD	NUMBER OF CASES	TIME	AREA	ENVIRONMENTAL INCIDENT	REFERENCE
527 Bugs		GC	28	0.00-0.18 ppm wet wt	0.02 ± or - 0.05 ppm wet wt	<p> Petaloid (aden 1.63-2.11, shell thickness 0.33-0.46 mm, shell wt 4.00-7.44 g, lipid content 6.3-8.7%, collected 5/77. Victoria, Fiorenza Island (Bugs; Mantis; Ticks; Chlorine Organic Compounds; PCB; DDT; Dieldrin; Chlrochlorane; Polychlorinated Biphenyls; Bioaccumulation; Pesticide residues; Viridina) </p>	State, R.C. Conn. R.C. Kelso, R.C. 1979 Bulletin of Environmental Contamination and Toxicology 22:398-399

9,7-methanododeca, 1,9,5,6,7,8,9-heptachloro-2,3-epoxy-2a,6,7,7a-tetrahydrol- (8 CI)
2,3-methano-2H-idoesol, 1,2-bis(ene, 2,3,9,5,6,7,7-heptachloro-1a,1b,5,5a,6a-bis(hydro- (9 CI)

1020-57-3
C 10-MS-C17-0

00 309.37
Crocodylo, American

SECRET

SISSON	SISSON'S NOTE	ANALYTICAL METHOD	NUMBER OF CASES	SINGLE	MEAN	GENERAL INFORMATION	REFERENCE
328 Eggs		GC-SC	a) 3 b) 3 c) 5 d) 2 e) 3 f) 3	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 0.01 ppm b) 0.01 ppm c) 3.00 ppm d) 0.02 ppm e) 0.01 ppm f) 0.01 ppm Not set	7 clutches Shells, nestlings recovered. Mean shells thickness 0.49 mm Florida, Everglades National Park 1433; CHOCOLATE; SUPPLIES; FLOIDS; ANIMALS; CHICKEN; ORGANIC COMPOUNDS; CELL; PET; SET; BULKY; NUTRITION; HIGH; OXYGENATION; ICHTHOLOGY; WATER POLLUTION; BIOACCUMULATION; WATER POLLUTION	Hall, P.J. Rider, T.R. Robertson, M.B., Jr. Patty, P.C. 1976 Bulletin of Environmental Contamination and Toxicology 21:87-90

[illegible]

5103-73-1
C 10-115-519

2A 444.2
Crocodile, American

501001Z MAR 75

TISSUE	BIOPROBE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
229 Eggs		GC-EC	a) 3 b) 3 c) 5 d) 2 e) 3	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 0.02 ppm b) 0.01 ppm c) 0.03 ppm d) 0.02 ppm e) 0.03 ppm Not st	5 clutches Shells, nestboxes removed. Mean shell thickness 0.49 mm Florida, Everglades National Park	Hall, R.J. Reiter, T.M. Robertson, W.B., Jr. Patty, P.C. 1979 Bulletin of Environmental Contamination and Toxicology 23:87-90

4,7-Methanoindan, 1alpha,2alpha,4beta,5,6,7beta,8,8-octachloro-3alpha,4,7,7aalpha-tetrahydro (8 CI)
 4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-, (1alpha,2alpha,3alpha,4beta,7beta,7aalpha)- (9 CI)
 5103-71-9
 C10-H4-Cl8
 MW 409.76
 Crocodile, American
 CROCODYLUS ACUTUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
530 Eggs		GC-EC	a) 3 b) 5 c) 2	a) Not given b) Not given c) Not given	a) 0.01 ppa b) 0.01 ppa c) 0.01 ppa Wet wt	3 clutches Shells, membranes removed. Mean shell thickness 0.49 mm Florida, Everglades National Park EGGS; CROCODILES; REPTILES; FLORIDA; WATLAND; CHLORINE ORGANIC COMPOUNDS; EC; DDE; DDT; DIELDRIN; HEPTACHLOR EPOXIDE; OXYCHLORDANE; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION	Nell, R.J. Kaiser, T.E. Robertson, W.B., Jr. Patty, T.C. 1979 Bulletin of Environmental Contamination and Toxicology 23:87-90

4,7-Methanoindan, 1alpha,2alpha,4beta,5,6,7beta,8,8-octachloro-3alpha,4,7,7aalpha-tetrahydro (8 CI)
 4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-, (1alpha,2alpha,3alpha,4beta,7beta,7aalpha)- (9 CI)
 5103-71-9
 C10-H4-Cl8
 MW 409.76
 Gull, great black-backed
 LARUS MARINUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
531 Eggs		GC	28	0.0-0.50 ppa wet wt	3.04 ± or - 0.11 ppa wet wt	Batchliffe Index 1.71-2.11, shell thickness 0.39-0.47 mm, shell wt 7.21-9.09 g, lipid content 6.0-9.6%. Collected 5/77. Faiso, Applecore Island EGGS; HAIRES; EGGS; CHLORINE ORGANIC COMPOUNDS; EC; DDE; DDT; DIELDRIN; CYCHLORDANE; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; VIRGINIA	Swaro, R.C. Coon, R.C. Kolbe, E. 1979 Bulletin of Environmental Contamination and Toxicology 22:394-399

4,7-Methanoindane, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI)
 4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI)
 74-84-8
 C10-H5-Cl7
 MW 373.33, BP 93-94 C, VP 3110 (B-C) mm Hg at 25 C
 Gull, great black-backed
 LARUS MARINUS

TISSUE	EXPOSURE ROUTE	ANALYTICAL METHOD	NUMBER OF CASES	RANGE	MEAN	GENERAL INFORMATION	REFERENCE
532 Eggs		GC	28	0.0-0.41 ppa wet wt	0.05 ± or - 0.11 ppa wet wt	Batchliffe Index 1.71-2.11, shell thickness 0.39-0.47 mm, shell wt 7.21-9.09 g, lipid content 6.0-9.6%. Collected 5/77. Faiso, Applecore Island EGGS; HAIRES; EGGS; CHLORINE ORGANIC COMPOUNDS; EC; DDE; DDT; DIELDRIN; CYCHLORDANE; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; VIRGINIA	Swaro, R.C. Coon, R.C. Kolbe, E. 1979 Bulletin of Environmental Contamination and Toxicology 22:394-399

50272-101

REPORT DOCUMENTATION PAGE		1. REPORT NO. EPA 560/5-81-009	2. ORNL/EIS-196/VI	3. Recipient's Accession No.
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16. Abstract (Limit: 200 words) <p>A comprehensive data base of chemicals identified in feral and food animals has been established under the direction of the Exposure Evaluation Division in the Environmental Protection Agency's Office of Toxic Substances. This effort has grown out of the concern over continuing reports of toxic chemicals in human tissue and body fluids. Feral populations and food animals are regarded as indicators of environmental contamination and subsequent human body burden.</p> <p>This data base is a companion to <i>Chemicals Identified in Human Biological Media</i> and follows basically the same format. The data base on human body burdens is in its third year of publication. This is the first annual report for the feral and food animal file.</p> <p>Data were obtained primarily from the open literature through manual searches retrospective to 1979. The file contains information on 60 different substances.</p>				
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