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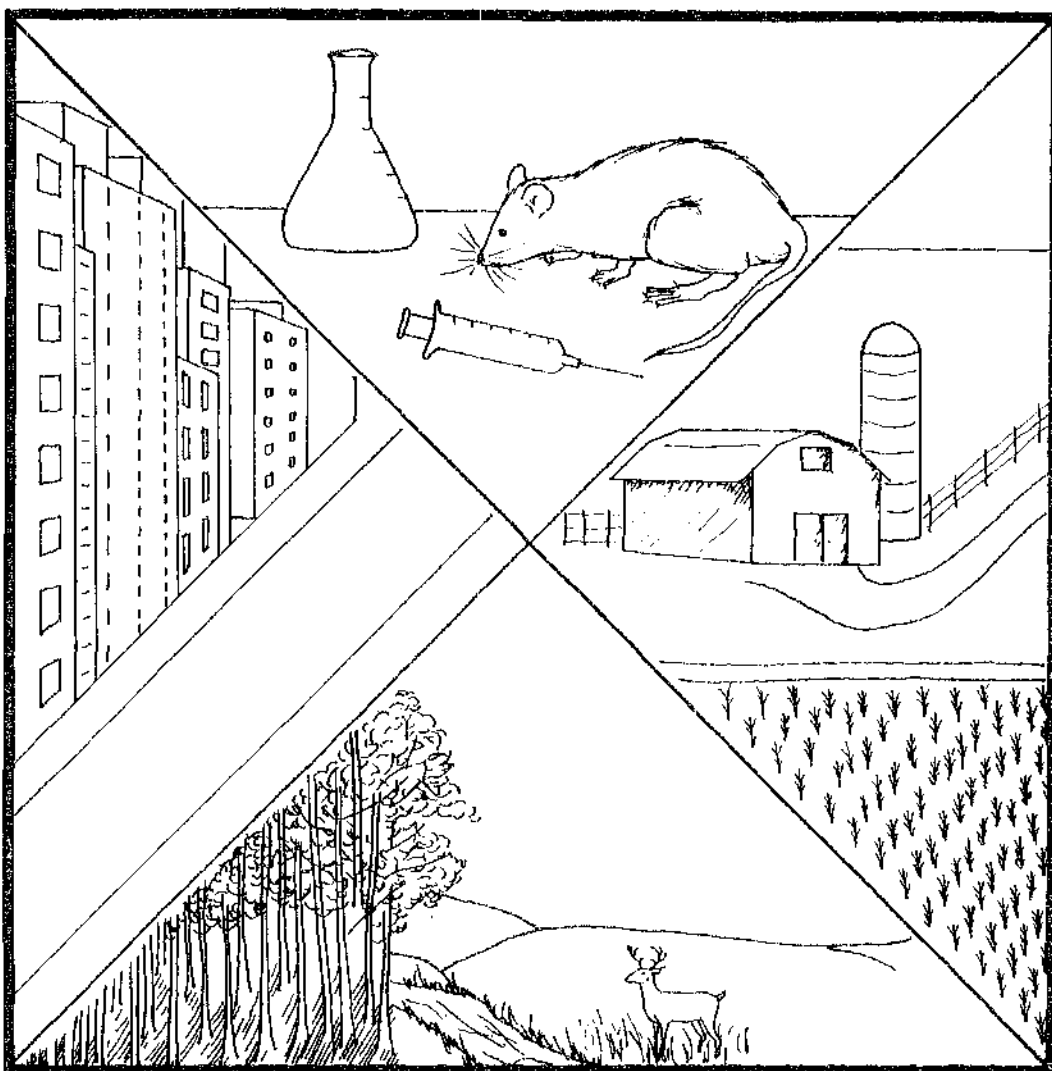
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Selected Bibliography of the Phenoxy Herbicides

III. Toxicological Studies in Animals



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SELECTED BIBLIOGRAPHY OF THE
PHENOXY HERBICIDES
III. Toxicological Studies in Animals

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Introduction

This is the third publication in a series of bibliographies on the phenoxy herbicides. The first two publications dealt with the fate of the phenoxy herbicides in the environment and the substituted dibenzo- ρ -dioxins. There is much public concern about the adverse effects that the use of 2,4,5-T, 2,4-D, and other phenoxy herbicides may pose to man and the rest of the fauna. Accordingly, the third part of the series deals with the subject of toxicity.

References are listed in alphabetical order according to author's name. A subject numerical index is provided, consisting of six sections each identified by a Roman numeral.

Section I comprises research papers dealing with the effect of each herbicide in animals. Scientific names are listed alphabetically under their respective classes. These are listed in order of complexity in the animal kingdom. A separate list of the classes covered, together with their respective phylum, is provided for information purposes.

Section II contains other technical literature, informative in nature but not of research type.

Sections III and IV, respectively, deal with gubernatorial and legal actions pertaining to the toxic aspects of the use of the phenoxy herbicides.

Section V consists of reviews dealing with the information from the preceding sections. Section VI includes nontechnical information and research papers that mention common names of organisms without their scientific names. Some papers in foreign languages, where animal species were not identified, are also covered in this section.

Each Arabic numeral in the subject index identifies a reference in

the author's alphabetical list. For references published in languages other than English, the abbreviated form of the particular language is enclosed in parentheses after the title. A list of the abbreviated and complete names of languages and a list of the abbreviated and complete names of periodicals, together with their countries and cities of origin, are also provided. If English abstracts for the references are available, the abstract sources are included after the listed reference.

Classes of Organisms

<u>Class</u>	<u>Phylum</u>
<i>TURBELLARIA</i> (free living flat worms)	Platyhelminthes
<i>TREMATODA</i> (flukes)	Platyhelminthes
<i>CESTOIDEA</i> (tapeworms)	Platyhelminthes
<i>ROTIFERA</i> (wheel animacules)	Aschelminthes
<i>NEMATODA</i> (roundworms)	Aschelminthes
<i>GASTROPODA</i> (univalve mollusks)	Mollusca
<i>PELECYPODA</i> (bivalve mollusks)	Mollusca
<i>OLIGOCHAETA</i> (earthworms)	Annelida
<i>ARACHNIDA</i> (spiders, scorpions, mites, ticks, etc.)	Arthropoda
<i>CRUSTACEA</i> (lobsters, crabs, water fleas, barnacles, etc.)	Arthropoda
<i>INSECTA</i> (insects)	Arthropoda
<i>OSTEICHTHYES</i> (bony fishes)	Chordata
<i>AMPHIBIA</i> (amphibians)	Chordata
<i>REPTILIA</i> (reptiles)	Chordata
<i>AVES</i> (birds)	Chordata
<i>MAMMALIA</i> (mammals)	Chordata

List of Abbreviated Sources

Acta Haematol.	Acta Haematologica (Basel, Switzerland)
Acta Neurol. Scand.	Acta Neurologica Scandinavia (Copenhagen, Denmark)
Acta Neuropathol.	Acta Neuropathologica (Berlin, Germany)
Acta Pharmacol. Toxicol.	Acta Pharmacologica et Toxicologica (Copenhagen, Denmark)
Acta Physiol.	Acta Physiologica (Budapest, Hungary)
Acta Vet. Scand.	Acta Veterinaria Scandinavia (Copenhagen, Denmark)
Advan. Chem. Ser.	Advances in Chemistry Series (Washington, D.C.)
Advan. Exp. Med. Biol.	Advances in Experimental Medicine and Biology (New York, N.Y.)
Agric. Aviat.	Agricultural Aviation (The Hague, Netherlands)
Agric. Chem.	Agricultural Chemicals (Caldwell, N.J.)
Agric. Res.	Agricultural Research (Washington, D.C.)
Agrichem. Age	Agrichemical Age (Sausalito, Calif.)
Agriculture	Agriculture (London, England)
Agrochemia	Agrochemia (Bratislava, Czechoslovakia)
Akad. Nauk B. SSR	Akademiya Nauk Belorusskoi SSR (Minsk, USSR)
Allg. Forstztg.	Allgemeine Forstzeitung (Vienna, Austria)
All. Forst. Jagdztg.	Allgemeine Forst- und Jagdzeitung (Frankfurt am Main, Germany)
Am. Bee J.	American Bee Journal (Hamilton, Ill.)
Am. Inst. Chem. Eng., Symp. Ser.	American Institute of Chemical Engi- neering, Symposium Series (New York, N.Y.)
Am. J. Pharm.	American Journal of Pharmacy and the Sciences Supporting Public Health (Philadelphia, Pa.)
Am. J. Physiol.	American Journal of Physiology (Baltimore, Md.)
Am. J. Psychiatry	American Journal of Psychiatry (Washington, D.C.)
Am. J. Vet. Res.	American Journal of Veterinary Re- search (Chicago, Ill.)

Am. Zool.	American Zoologist (Charlottesville, Va.)
Ambio	Ambio (Stockholm, Sweden)
Anat. Rec.	Anatomical Record (Washington, D.C.)
Anim. Prod.	Animal Production (Edinburg, Scotland)
Ann. Appl. Biol.	Annals of Applied Biology (London, England)
Ann. Biol. Anim., Biochim. Biophys.	Annales de Biologie Animale, Biochimie, Biophysique (Paris, France)
Ann. Gembloux	Annales de Gembloux (Brussels, Belgium)
Ann. Inst. Phytopathol. Benaki	Annales de l'Institut Phytopathologique Benaki (Athens, Greece)
Ann. N.Y. Acad. Sci.	Annals of the New York Academy of Sci- ence (New York, N.Y.)
Ann. Zool.-Ecol. Anim.	Annales de Zoologie-Ecologie Animale (Paris, France)
Anz. Schaedlingskd., Pflanz. Umweltschutz	Anzeiger fuer Schaedlingskunde, Pflanzen und Umweltschutz (Berlin, Germany)
Arch. Dermatol.	Archives of Dermatology (Chicago, Ill.)
Arch. Environ. Health	Archives of Environmental Health (Chicago, Ill.)
Arch. Exp. Pathol. Pharmacol.	Archives of Experimental Pathology and Pharmacology (Berlin, Germany)
Arch. Ind. Hyg. Occup. Med.	Archives of Industrial Hygiene and Occupational Medicine (Chicago, Ill.)
Arch. Intern. Med.	Archives of Internal Medicine (Chicago, Ill.)
Arch. Int. Pharmacodyn. Ther.	Archives Internationales de Pharma- codynamie et de Therapie (Ghent, Belgium)
Arch. Klin. Exp. Dermatol.	Archiv fuer Klinische und Experimen- telle Dermatologie (Berlin, Germany)
Arch. Mal. Prof., Hyg. Toxicol. Ind.	Archives des Maladies Professionnelles, Hygiene et Toxicologie Industrielles (Paris, France)
Arch. Neurol.	Archives of Neurology (Chicago, Ill.)
Arch. Pathol.	Archives of Pathology (Chicago, Ill.)

Arch. Pflanzenschutz	Archiv fuer Pflanzenschutz (Berlin, Germany)
Arch. Toxikol.	Archiv fuer Toxikologie (Berlin, Germany)
Aust. N.Z. J. Med.	Australian and New Zealand Journal of Medicine (Sydney, Australia)
Aust. Vet. J.	Australian Veterinary Journal (Perkville, Australia)
Azerb. Med. Zh.	Azerbaidzhanski Meditsinski Zhurnal (Baku, USSR)
Ber. Landwirtsch.	Berichte ueber Landwirtschaft (Berlin, Germany)
Biochem. J.	Biochemical Journal, The (London, England)
Biochim. Biophys. Acta	Biochimica et Biophysica Acta (Amsterdam, Netherlands)
Biol. Abstr.	Biological Abstracts (Philadelphia, Pa.)
Biol. Conserv.	Biological Conservation (Barking, England)
Biol. Rundsch.	Biologische Rundschau (Jena, E. Germany)
Biologico	Biologico (Sao Paulo, Brazil)
BioScience	BioScience (Washington, D.C.)
Bol. R. Soc. Esp. Hist. Nat.	Boletin de la Real Sociedad Espanola de Historia Natural (Madrid, Spain)
Bolsa Cer.	Bolsa de Cereales (Buenos Aires, Argentina)
Br. Ecol. Soc. Symp.	British Ecological Society Symposium (Swansea, England)
Br. J. Cancer	British Journal of Cancer (London, England)
Br. J. Ind. Med.	British Journal of Industrial Medicine (London, England)
Br. Med. J.	British Medical Journal (London, England)
Br. Poult. Sci.	British Poultry Science (Edinburgh, Scotland)
Bratisl. Lek. Listy	Bratislavske Lekarske Listy (Bratislava, Czechoslovakia)
Bull. Acad. Pol. Sci., Ser. Sci. Biol.	Bulletin de l'Academie Polonaise des Sciences, Serie des Sciences Bio- logiques (Warsaw, Poland)
Bull. Acad. Vet. Fr.	Bulletin de l'Academie Veterinaire de France (Paris, France)

- Bull. Agric. Chem. Insp. Stn. Bulletin of the Agricultural Chemicals
Inspection Station
(Tokyo, Japan)
- Bull. Anc. Eleves Ec. Meun.
ENSMIC Bulletin des Anciens Eleves de l'Ecole
de Meunerie ENSMIC
(Paris, France)
- Bull. Entomol. Res. Bulletin of Entomological Research
(London, England)
- Bull. Environ. Contam. Toxicol. Bulletin of Environmental Contamination
and Toxicology
(New York, N.Y.)
- Bull. Soc. Zool. Fr. Bulletin de la Societe Zoologique de
France
(Paris, France)
- Byull. Eksp. Biol. Med. Byulleten 'Eksperimental' noi Biologii
i Meditsiny
(Moscow, USSR)
- C. R. Hebd. Seances Acad. Sci.,
Ser. D. Comptes Rendus Hebdomadaires des Seances
de l'Academie des Sciences, Serie D:
Sciences Naturelles
(Paris, France)
- C. R. Seances Soc. Biol. Ses Fil. Comptes Rendus des Seances de la Societe
de Biologie et de Ses Filiales
(Paris, France)
- C. R. Soc. Biol. Comptes Rendus des Seances de la Societe
de Biologie et de Ses Filiales
(Paris, France)
- Calif. Farmer California Farmer
(San Francisco, Calif.)
- Can. J. Comp. Med. Canadian Journal of Comparative Medicine
(Ottawa, Canada)
- Can. J. Genet. Cytol. Canadian Journal of Genetics and Cytol-
ogy
(Ottawa, Canada)
- Can. J. Plant Sci. Canadian Journal of Plant Science
(Ottawa, Canada)
- Can. J. Zool. Canadian Journal of Zoology
(Ottawa, Canada)
- CAST Council for Agricultural Science and
Technology
(Ames, Iowa)
- Cesk. Dermatol. Ceskoslovenska Dermatologie
(Prague, Czechoslovakia)
- Chem. Abstr. Chemical Abstracts
(Columbus, Ohio)
- Chem.-Biol. Interact. Chemico-Biological Interactions
(Amsterdam, Netherlands)
- Chem. Eng. News Chemical and Engineering News
(Washington, D.C.)
- Chem. Senses Flavor Chemical Senses and Flavor
(Dordrecht, Netherlands)

Chem. Week	Chemical Week (New York, N.Y.)
Chemistry	Chemistry (Easton, Pa.)
Chemosphere	Chemosphere (Oxford, England)
Chesapeake Sci.	Chesapeake Science (Solomons Island, Md.)
Citrograph	Citrograph (Los Angeles, Calif.)
Clin. Obstet. Gynecol.	Clinical Obstetrics and Gynecology (Hagerstown, Md.)
Clin. Toxicol.	Clinical Toxicology (New York, N.Y.)
Coeur Med. Interne	Coeur et Medicine Interne (Paris, France)
Congr. Rec.	Congressional Record (Washington, D.C.)
Contrib. Ist. Rec. Agrar. Milan	Contributi, Istituto di Recerche Agrarie, Milan (Milan, Italy)
Copeia	Copeia (Washington, D.C.)
Crit. Rev. Toxicol.	Critical Reviews in Toxicology (Cleveland, Ohio)
Crops Soils	Crops and Soils (Madison, Wis.)
Dermatologica	Dermatologica (Basel, Switzerland)
Diss. Abstr. Int.	Dissertation Abstracts International (Ann Arbor, Mich.)
Down Earth	Down to Earth (Midland, Mich.)
East Afr. Med. J.	East African Medical Journal (Nairobi, Kenya)
Ecology	Ecology (Durham, N.C.)
Econ. Med. Anim.	Economie et Medicine Animales (Paris, France)
Eksp. Vodn. Toksikol.	Ekspperimental'naya Vodnaya Toksikol- ogiya (Riga, USSR)
Eksp. Vod. Toksikol., Mater. Vses. Simp.	Ekspperimental'naya Vodnaya Toksikol- ogiya, Materialy Vsesoyuznogo Sim- poziuma (Riga, USSR)
Elelmiszervizsgalati Kozl.	Elelmiszervizsgalati Kozlemmyek (Budapest, Hungary)
Environ. Entomol.	Environmental Entomology (College Park, Md.)

Environ. Lett.	Environmental Letters (New York, N.Y.)
Environ. Pollut.	Environmental Pollution (Barking, England)
Environ. Qual. Saf.	Environmental Quality and Safety (Stuttgart, Germany)
Environ. Res.	Environmental Research (New York, N.Y.)
Environ. Sci. Technol.	Environmental Science and Technology (Washington, D.C.)
Environment	Environment (St. Louis, Mo.)
Experientia	Experientia (Basel, Switzerland)
Farm Chem.	Farm Chemicals (Willoughby, Ohio)
Farmakol. Toksikol. Moscow	Farmakologiya i Toksikologiya (Moscow) (Moscow, USSR)
Fed. Proc., Fed. Am. Soc. Exp. Biol.	Federation Proceedings, Federation of American Societies for Experimental Biology (Washington, D.C.)
Fed. Regist.	Federal Register (Washington, D.C.)
Fette, Seifen, Anstrichm.	Fette, Seifen, Anstrichmittel (Hamburg, W. Germany)
Field Lab.	Field and Laboratory (Dallas, Tex.)
Folia Haematol.	Folia Haematologica (Leipzig, E. Germany)
Folia Histochem. Cytochem.	Folia Histochemica et Cytochemica (Crakow, Poland)
Folia Med.	Folia Medica (Naples, Italy)
Food Cosmet. Toxicol.	Food and Cosmetics Toxicology (London, England)
Frontiers	Frontiers (Chicago, Ill.)
Gaz, Woda Tech. Sanit.	Gaz, Woda i Technika Sanitarna (Warsaw, Poland)
Gesunde Pflanz.	Gesunde Pflanzen (Frankfurt, W. Germany)
Gig. Sanit.	Gigiena i Sanitariya (Moscow, USSR)
Gig. Tr. Prof. Zabol.	Gigiena Truda i Professional'nye Zabolevaniya (Moscow, USSR)
Glean. Bee Cult.	Gleanings in Bee Culture (Medina, Ohio)
Health Aspects Pestic.	Health Aspects of Pesticides, Abstract Bulletin (Chamblee, Ga.)

Hereditas	Hereditas (Lund, Sweden)
Histochemie	Histochemie (Berlin, Germany)
HortScience	HortScience (St. Joseph, Mich.)
Hyac. Control J.	Hyacinth Control Journal (Fort Lauderdale, Fla.)
Hydrobiologia	Hydrobiologia (The Hague, Netherlands)
Ind. Med.	Industrial Medicine (Chicago, Ill.)
Ind. Res.	Industrial Research (Beverly Shores, Ind.)
Ind. Veg. Manage.	Industrial Vegetation Management (Dow Chemical Co., Midland, Mich.)
Indian J. Agric. Sci.	Indian Journal of Agricultural Sciences (New Delhi, India)
Inquinamento	Inquinamento (Milan, Italy)
Int. Chem. Eng.	International Chemical Engineering (New York, N.Y.)
Int. J. Environ. Stud.	International Journal of Environmental Studies (London, England)
Int. Pest Control	International Pest Control (London, England)
J. Agric. Food Chem.	Journal of Agriculture and Food Chem- istry (Washington, D.C.)
J. Am. Ind. Hyg. Assoc.	Journal American Industrial Hygiene Association (Cincinnati, Ohio)
J. Am. Med. Assoc.	Journal of the American Medical Asso- ciation (Chicago, Ill.)
J. Am. Vet. Med. Assoc.	Journal of the American Veterinary Medical Association (Chicago, Ill.)
J. Anim. Sci.	Journal of Animal Science (Champaign, Ill.)
J. Appl. Ecol.	Journal of Applied Ecology (Oxford, England)
J. Ariz. Acad. Sci.	Journal of the Arizona Academy of Science (Tempe, Ariz.)
J. Assoc. Off. Anal. Chem.	Journal of the Association of Official Analytical Chemists (Washington, D.C.)
J. Cell Biol.	Journal of Cell Biology (New York, N.Y.)

J. Econ. Entomol.	Journal of Economic Entomology (Baltimore, Md.)
J. Environ. Qual.	Journal of Environmental Quality (Madison, Wis.)
J. Fish. Res. Board Can.	Journal of the Fisheries Research Board of Canada (Ottawa, Ontario, Canada)
J. For.	Journal of Forestry (Washington, D.C.)
J. Hered.	Journal of Heredity, The (Washington, D.C.)
J. Ind. Hyg. Toxicol.	Journal of Industrial Hygiene and Toxicology (Cambridge, Mass.)
J. Inst. Sewage Purif.	Journal of the Institute of Sewage Purification (London, England)
J. Int. Inst. Sugar Beet Res.	Journal of the International Institute for Sugar Beet Research (Tirlemont, Belgium)
J. Invertebr. Pathol.	Journal of Invertebrate Pathology (New York, N.Y.)
J. Iowa Med. Soc.	Journal of the Iowa Medical Society (Des Moines, Iowa)
J. Ky. Med. Assoc.	Journal of the Kentucky Medical Association (Louisville, Ky.)
J. Nat. Cancer Inst.	Journal of the National Cancer Institute (Bethesda, Md.)
J. Range Manage.	Journal of Range Management (Denver, Colo.)
J. Reprod. Fertil.	Journal of Reproduction and Fertility (Oxford, England)
J. Theor. Biol.	Journal of Theoretical Biology (London, England)
J. Toxicol. Environ. Health	Journal of Toxicology and Environmental Health (Washington, D.C.)
J. Wash. Acad. Sci.	Journal of the Washington Academy of Sciences (Washington, D.C.)
J. Water Pollut. Control Fed.	Journal of the Water Pollution Control Federation (Washington, D.C.)
J. Wildl. Manage.	Journal of Wildlife Management (Washington, D.C.)
Jpn. J. Clin. Dermatol.	Japanese Journal of Clinical Dermatology (Tokyo, Japan)
Jpn. Pestic. Inf.	Japan Pesticide Information (Tokyo, Japan)

- K. Lantbrukshoegsk. Statens Lantbruksfoers., Statens Husdjursfoers., Saertr. Foerhandsmedd. Kungliga Lantbrukshoegskolan och Statens Lantbruksfoersoek, Statens Husdjursfoersoek, Saertryck och Foerhandsmeddelande
(Uppsala, Sweden)
- Kem.-Kemi Kemica-Kemi
(Helsinki, Finland)
- Khim. Sei'sk. Khoz. Khimiya v Selskom Khoziastive
(Moscow, USSR)
- Klin. Wochenschr. Klinische Wochenschrift
(Berlin, Germany)
- Lakartidningen Lakartidningen
(Stockholm, Sweden)
- Latv. PSR Zinat. Akad. Vestis Latvijas PSR Zinatnu Akademijas Vestis
(Riga, USSR)
- Lesn. Khoz. Lesnoe Khozyaistvo
(Moscow, USSR)
- Lille Med. Lille Medical
(Lille, France)
- Limnol. Oceanogr. Limnology and Oceanography
(Lawrence, Kans.)
- Magy. Allatorv. Lapja Magyar Allatorvosok Lapja
(Budapest, Hungary)
- Med. Cut. Medicina Cutanea
(Barcelona, Spain)
- Med. Lav. Medicina del Lavoro
(Milan, Italy)
- Med. World News Medical World News
(New York, N.Y.)
- Mich. Agric. Exp. Stn., Q. Bull. Michigan Agricultural Experiment Station, Quarterly Bulletin
(East Lansing, Mich.)
- Mie Igaku Mie Igaku
(Tsu, Japan)
- Mitt. Biol. Bundesanst. Land Forstwirtsch., Berlin-Dahlem Mitteilungen aus der Biologischen Bundesanstalt fuer Land- und Forstwirtschaft, Berlin-Dahlem
(Berlin, Germany)
- Mod. Vet. Pract. Modern Veterinary Practice
(Santa Barbara, Calif.)
- Muenchner Beitr. Abwasser Fisch. Flussbiol. Muenchner Beitrage zur Abwasser Fischerei und Flussbiologie
(Munich, Germany)
- Mutat. Res. Mutation Research
(Amsterdam, Netherlands)
- N. Dak. Farm Res. North Dakota Farm Research
(Fargo, N. Dak.)
- N.Z. Dep. Sci. Ind. Res., Inf. Ser. New Zealand Department of Scientific and Industrial Research, Information Series
(Wellington, New Zealand)

N.Z. J. Agric.	New Zealand Journal of Agriculture (Wellington, New Zealand)
N.Z. J. Agric. Res.	New Zealand Journal of Agricultural Research (Wellington, New Zealand)
N.Z. Med. J.	New Zealand Medical Journal (Wellington, New Zealand)
Nachrichtenbl. Dtsch. Pflanzen- schutzdienstes	Nachrichtenblatt des Deutschen Pflanzenschutzdienstes (Brunswick, Germany)
Nat. Pest Control Oper. News	National Pest Control Operators News (Woodland Hills, Calif.)
Nat. Wool Grower	National Wool Grower (Salt Lake City, Utah)
Natur. Hist.	Natural History (New York, N.Y.)
Nature	Nature - London (London, England)
Naturwissenschaften	Naturwissenschaften (Berlin, Germany)
Nauchn. Tr. Nauchno-Issled. Vet. Inst., Minsk	Nauchnye Trudy Nauchno-Issledo- vatel'skogo Veterinarnogo Insti- tuta, Minsk (Minsk, USSR)
Naunyn-Schmiedebergs Arch. Pharmakol. Exp. Pathol.	Naunyn-Schmiedebergs Archiv fuer Pharmakologie und Experimentelle Pathologie (Berlin, Germany)
Neurology	Neurology (Minneapolis, Minn.)
New Sci.	New Scientist (London, England)
New Sci. Sci. J.	New Scientist and Science Journal (London, England)
Nippon Noson Igakkai Zasshi	Nippon Noson Igakkai Zasshi (Tokyo, Japan)
Nippon Saigai Igakkai Kaishi	Nippon Saigai Igakkai Kaishi (Tokyo, Japan)
Nord. Hyg. Tidskr.	Nordisk Higienisk Tidskrift (Stockholm, Sweden)
Nord. Vet. Med.	Nordisk Veterinaer Medicin (Copenhagen, Denmark)
Norsk Vet. Tidsskr.	Norsk Veterinaer-Tidsskrift (Oslo, Norway)
North Am. Vet.	North American Veterinarian (Santa Barbara, Calif.)
Noyaku Kensasho Hokoku	Noyaku Kensasho Hokoku (Tokyo, Japan)
Okla. Agric. Exp. Stn., Processed Ser.	Oklahoma Agricultural Experiment Station, Processed Series (Stillwater, Okla.)

Ophthalmologica	Ophthalmologica (Basel, Switzerland)
Org. Gard. Farming	Organic Gardening and Farming (Emmaus, Pa.)
Pa. Med.	Pennsylvania Medicine (Lemoyne, Pa.)
Pamiet. Pulawski	Pamiętnik Pulawski (Warsaw, Poland)
PANS	Pest Articles and News Summaries (London, England)
Parasitica	Parasitica (Gembloux, Belgium)
Pest Control	Pest Control (Cleveland, Ohio)
Pestic. Abstr.	Pesticides Abstracts (Washington, D.C.)
Pestic. Chem. News	Pesticide Chemical News (Washington, D.C.)
Pestic. Monit. J.	Pesticides Monitoring Journal (Atlanta, Ga.)
Pesticides	Pesticides (Bombay, India)
Pflanzenschutzberichte	Pflanzenschutzberichte (Vienna, Austria)
Pfluegers Arch.	Pfluegers Archiv (Berlin, Germany)
Pharm. Weekbl.	Pharmaceutisch Weekblad (Amsterdam, Netherlands)
Pharmacol. Rev.	Pharmacological Reviews (New York, N.Y.)
Pharmacologist	Pharmacologist, The (Bethesda, Md.)
Physiol. Behav.	Physiology and Behaviour (Fayetteville, N.Y.)
Physiol. Psychol.	Physiological Psychology (Austin, Tex.)
Plant Dis. Rep.	Plant Disease Reporter (Washington, D.C.)
Pol. Arch. Hydrobiol.	Polskie Archiwum Hydrobiologii (Warsaw, Poland)
Pol. Tyg. Lek.	Polski Tygodnik Lekarski (Warsaw, Poland)
Poult. Sci.	Poultry Science (College Station, Tex.)
Prac. Lek.	Pracovní Lekarství (Prague, Czechoslovakia)
Proc. Aquat. Weed Control Soc.	Proceedings of the Aquatic Weed Control Society (Jackson, Mich.)
Proc. Br. Weed Control Conf.	Proceedings of the British Weed Control Conference (Droitwich, Worcestershire, England)

- Proc. Calif. Weed Conf. Proceedings of the California Weed Conference
(Sacramento, Calif.)
- Proc. Indiana Acad. Sci. Proceedings of the Indiana Academy of Science
(Indianapolis, Ind.)
- Proc. Int. Congr. Nutr., 9th, 19th Proceedings of the International Congress of Nutrition, 9th, 19th
(Mexico City, Mexico)
- Proc. Nat. Acad. Sci. U.S.A. Proceedings of the National Academy of Sciences of the United States of America
(Washington, D.C.)
- Proc. North Cent. Weed Control Conf. Proceedings of the North Central Weed Control Conference
(Omaha, Nebr.)
- Proc. Northeast. Weed Control Conf. Proceedings of the Northeastern Weed Control Conference
(Farmingdale, N.Y.)
- Proc. Northeast. Weed Sci. Soc. Proceedings of the Northeastern Weed Science Society
(College Park, Md.)
- Proc. Okla. Acad. Sci. Proceedings of the Oklahoma Academy of Science
(Stillwater, Okla.)
- Proc. Pa. Acad. Sci. Proceedings of the Pennsylvania Academy of Science
(Easton, Pa.)
- Proc. R. Soc. Med. Proceedings of the Royal Society of Medicine
(London, England)
- Proc. Soc. Exp. Biol. Med. Proceedings of the Society for Experimental Biology and Medicine
(New York, N.Y.)
- Proc. South. Weed Conf. Proceedings of the Southern Weed Conference
(St. Louis, Mo.)
- Proc. South Weed Sci. Soc. Proceedings of the Southern Weed Science Society
(Athens, Ga.)
- Proc. West. Soc. Weed Sci. Proceedings of the Western Society of Weed Science
(Logan, Utah)
- Prog. Anal. Chem. Progress in Analytical Chemistry
(New York, N.Y.)
- Prog. Fish Cult. Progressive Fish and Culturist
(Washington, D.C.)
- Purdue Univ., Agric. Exp. Stn., Res. Bull. Purdue University, Agricultural Experiment Station, Research Bulletin
(Lafayette, Ind.)

Qual. Plant-Plant Foods Hum. Nutr.	Qualitative Plantarum-Plant Foods for Human Nutrition (The Hague, Netherlands)
R.I. Resour.	Rhode Island Resources (Kingston, R.I.)
Rangem. News	Rangeman's News (Denver, Colo.)
Rastit. Zasht.	Rastitelna Zashtita (Sofia, Bulgaria)
Recl. Med. Vet. Exot. Ecole Alf.	Recueil de Medecine Veterinaire Exotique de l'Ecole d'Alfort (Paris, France)
Research (London)	Research (London) (London, England)
Residue Rev.	Residue Reviews (New York, N.Y.)
Rev. For. Fr.	Revue Forestiere Francaise (Nancy, France)
Rocz. Glebozn.	Roczniki Gleboznawcze (Warsaw, Poland)
Rocz. Nauk Roln., Ser. H	Roczniki Nauk Rolniczych, Seria H (Warsaw, Poland)
Rocz. Panstw. Zakl. Hig.	Roczniki Panstwowego Zakladu Higieny (Warsaw, Poland)
S. Afr. Sugar J.	South African Sugar Journal, The (Durban, South Africa)
Sangyo Igaku	Sangyo Igaku (Tokyo, Japan)
Schriftenr. Ver. Wasser, Boden, Lufthyg., Berlin-Dahlem	Schriftenreihe des Vereins fuer Wasser-, Boden-, und Lufthygiene, Berlin-Dahlem (Berlin, Germany)
Sci. Biol. J.	Science of Biology Journal (St. Louis, Mo.)
Sci. Res.	Scientific Research (New York, N.Y.)
Sci. Total Environ.	Science of the Total Environment, The (Amsterdam, Netherlands)
Science	Science (Washington, D.C.)
Sogo Rinsho	Sogo Rinsho (Osaka, Japan)
South. Weed Control Conf.	Southern Weed Control Conference (Auburn, Ala.)
Sov. Med.	Sovetskaya Meditsina (Moscow, USSR)
Succes. Farm.	Successful Farming (Des Moines, Iowa)

Sud. Med. Ekspert.	Sudebno-Meditsinskaya Ekspertiza (Moscow, USSR)
Sven. Vet.	Svensk Veterinartidning (Stockholm, Sweden)
Swed. Weed Conf.	Swedish Weed Conference (Uppsala, Sweden)
Tansuiku Suisan Kenkyusho Kenkyu Hokoku	Tansuiku Suisan Kenkyusho Kenkyu Hokoku (Tokyo, Japan)
Teratology	Teratology (Philadelphia, Pa.)
Toxicology	Toxicology (Amsterdam, Netherlands)
Toxicol. Appl. Pharmacol.	Toxicology and Applied Pharmacology (New York, N.Y.)
Trans. Am. Fish. Soc.	Transactions of the American Fisheries Society (Washington, D.C.)
Trans. Ill. State Acad. Sci.	Transactions of the Illinois State Academy of Science (Springfield, Ill.)
Trans. R. Soc. S. Afr.	Transactions of the Royal Society of South Africa (Rondebosch, South Africa)
Trib. CEBEDEAU	Tribune du CEBEDEAU (Liege, Belgium)
Trop. Med.	Tropical Medicine (Nagasaki, Japan)
Tsitol. Genet.	Tsitologiya i Genetika (Kiev, USSR)
Ugeskr. Laeg.	Ugeskrift for Laeger (Copenhagen, Denmark)
Ukr. Biokhim. Zh.	Ukrains'kii Biokhimichni Zhurnal (Kiev, USSR)
Umsch. Wiss. Tech.	Umschau in Wissenschaft und Technik (Frankfurt am Main, Germany)
U.S. Dep. Agric., Agric. Handb.	U.S. Department of Agriculture, Agriculture Handbook (Washington, D.C.)
U.S. Dep. Agric., Agric. Res. Serv., ARS	U.S. Department of Agriculture, Agricultural Research Service, ARS (Washington, D.C.)
U.S. Dep. Agric., Agric. Res. Serv., Admin. Let.	U.S. Department of Agriculture, Agricultural Research Service, Administrator's Letter (Washington, D.C.)
U.S. Dep. Agric., Farmers Bull.	U.S. Department of Agriculture, Farmers Bulletin (Washington, D.C.)

- U.S. Dep. Agric., Fed. Ext. Ser.,
Agric. Chem. Notes
- U.S. Dep. Agric., For. Serv., Pac.
Northwest For. Range Exp. Stn.,
Res. Notes
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Fact Sheet
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Station, Research Notes
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and Welfare, Public Health Ser-
vice, Food and Drug Administration,
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(Minsk, USSR)
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(Moscow, USSR)

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Nauchn. Sess. Akad. Med. Nauk
SSSR
- Vopr. Med. Khim.
- Vopr. Pitan.
- Vrach. Delo
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(Moscow, USSR)
- Vrachebnoe Delo
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- Wall Street Journal
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- Washington Agricultural Experiment
Station, Bulletin
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The
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Z. Pflanzenkr. Pflanzenschutz	Zeitschrift fuer Pflanzenkrankheiten und Pflanzenschutz (Stuttgart, Germany)
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Zh. Eksp. Klin. Med.	Zhurnal Eksperimental'noi i Klinicheskoi Meditsiny (Yerevan, USSR)
Zhivotnovodstvo	Zhivotnovodstvo (Moscow, USSR)

Language Abbreviation

Bg - Bulgarian	Ja - Japanese
Cs - Czech	Nl - Dutch
Da - Danish	No - Norwegian
De - German	Pl - Polish
Es - Spanish	Pt - Portuguese
Fi - Finnish	Ru - Russian
Fr - French	Sk - Slovak
Hu - Hungarian	Sv - Swedish
It - Italian	

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- f. Class *INSECTA*
Acyrtosiphon pisum - pea aphid 653

MCPA - Other Anatomical and Physiological Effects (cont'd)

- Apis mellifera* - honeybee 316
Drosophila melanogaster - fruit fly 317
 g. Class *OSTEICHTHYES*
Cyprinus carpio - carp 632, 679, 749
Esox lucius - northern pike, pike 632
Fundulus similis - longnose killifish 160, 162
Lepomis macrochirus - bluegill sunfish, bream 214
Perca fluviatilis - perch 632, 749
Phoxinus phoxinus 632
Rasbora heteromorpha - harlequin fish 13
 h. Class *AMPHIBIA*
Bufo bufo japonicus - Japanese frog 594
Rana temporaria - frog 632
 i. Class *AVES*
Anas platyrhynchos - mallard duck 225, 738
Colinus virginianus - bobwhite quail 225
Coturnix coturnix japonica - Japanese quail, quail 225
Gallus domesticus - chicken (domestic) 230, 609, 610
Phasianus colchicus - ring-necked pheasant, pheasant
 225, 738
 j. Class *MAMMALIA*
Bos sp. - cattle 204, 482, 609, 610, 619, 621, 638
Homo sapiens - human 497, 612, 630, 756, 788, 789
Mus musculus - mouse (house) 604
Oryctolagus cuniculus - rabbit 339
Ovis aries - sheep 482, 609, 610
Rattus norvegicus - rat 76, 604, 638, 660, 790
 4. Human Intoxication 17, 108, 312, 413, 419, 421, 497, 612,
 630, 756, 789
 5. Other Human Health Aspects 417, 421, 470, 504, 514, 515,
 572, 786, 835, 837, 838, 839
 F. MCPB {4-[(4-chloro-*o*-tolyl)oxy]butyric acid, (4-(2-methyl-4-chloro-
 phenoxy)butyric acid)}
 1. Effects on Reproduction
 a. Class *INSECTA*
Acyrtosiphon pisum - pea aphid 653
 b. Class *AVES*
Gallus domesticus - chicken (domestic) 247, 248
 2. Other Anatomical and Physiological Effects
 a. Class *INSECTA*
Acyrtosiphon pisum - pea aphid 653
 b. Class *OSTEICHTHYES*
Cyprinus carpio - carp 679
 c. Class *AVES*
Gallus domesticus - chicken (domestic) 610

MCPB - Other Anatomical and Physiological Effects (cont'd)

- d. Class *MAMMALIA*
 - Bos sp. - cattle 610
 - Cavia porcellus - guinea pig 334
 - Homo sapiens - human 813
 - Mus musculus - mouse (house) 334
 - Oryctolagus cuniculus - rabbit 334
 - Ovis aries - sheep 610
 - Rattus norvegicus - rat 334- 590
- 3. Human Intoxication 813
- 4. Other Human Health Aspects 504
- G. MCPEE (4-chloro-2-methylphenoxyacetic acid ethyl ester)
 - 1. Effects on Reproduction
 - a. Class *MAMMALIA*
 - Rattus norvegicus - rat 854
- H. Mecoprop {2-(4-chloro-2-methylphenoxy)propionic acid, 2-[(4-chloro-*o*-tolyl)oxy]propionic acid}
 - 1. Effects on Reproduction
 - a. Class *INSECTA*
 - Drosophila melanogaster - fruit fly 317
 - b. Class *AVES*
 - Gallus domesticus - chicken (domestic) 247, 338
 - 2. Other Anatomical and Physiological Effects
 - a. Class *INSECTA*
 - Apis mellifera - honeybee 253
 - Drosophila melanogaster - fruit fly 317
 - b. Class *MAMMALIA*
 - Rattus norvegicus - rat 790
 - 3. Other Human Health Aspects 468, 515, 689, 786
- I. 2,4,5-T (2,4,5-trichlorophenoxy)acetic acid
 - 1. Effects on Reproduction
 - a. Class *ROTIFERA*
 - Brachionus angularis 787
 - Keratella americana 787
 - Keratella cochlearis 787
 - b. Class *INSECTA*
 - Acyrtosiphon pisum - pea aphid 653
 - Apis mellifera - honeybee 546, 547, 558, 560

2,4,5-T - Effects on Reproduction (cont'd)

- Drosophila melanogaster* - fruit fly 216, 217, 599
Thrips tabaci - onion thrips 705
- c. Class *AVES*
- Alectoris rufa* - red-legged partridge, red partridge
 498, 503
- Coturnix coturnix japonica* - Japanese quail, quail
 226, 227, 368, 369, 498, 503
- Gallus domesticus* - chicken (domestic) 19, 226, 230,
 338, 368, 435, 498, 502, 503, 719, 720, 722, 740, 823
- Perdix perdix* - gray partridge 498
- Phasianus colchicus* - ring-necked pheasant, pheasant
 368, 498, 503
- d. Class *MAMMALIA*
- Homo sapiens* - human 229, 537, 673, 674
- Macaca mulatta* - Rhesus monkey 238, 239, 240
- Mesocricetus auratus* - Syrian hamster, golden hamster
 155, 180, 181, 222, 303
- Mus musculus* - mouse (house) 102, 128, 191, 192, 193,
 194, 222, 302, 353, 363, 364, 365, 366, 367, 394, 457,
 490, 491, 554, 657, 758, 759
- Oryctolagus cuniculus* - rabbit 263, 761
- Ovis aries* - sheep 127
- Rattus norvegicus* - rat 128, 191, 192, 193, 255, 256,
 262, 263, 301, 341, 342, 436, 437, 438, 444, 454, 455,
 456, 457, 458, 539, 713, 714, 717, 725, 726, 727, 739, 761
2. Cytogenetic effects
- a. Class *INSECTA*
- Drosophila melanogaster* - fruit fly 513
- b. Class *MAMMALIA*
- Homo sapiens* - human 229, (in vitro) 298, 856
- Meriones unguiculatus* - mongolian gerbil 512
- Mus musculus* - mouse (house) 407
- Rattus norvegicus* - rat 255, 256, 744, 855
3. Carcinogenic Effects
- a. Class *MAMMALIA*
- Homo sapiens* - human 99, 100, 229
- Mus musculus* - mouse (house) 404, 570
4. Other Anatomical and Physiological Effects
- a. Class *ROTIFERA*
- Brachionus angularis* 787
- Keratella americana* 787
- Keratella cochlearis* 787
- b. Class *NEMATODA*
- Belonolaimus gracilis* - sting nematode 170

2,4,5-T - Other Anatomical and Physiological Effects (cont'd)

- c. Class *PELECYPODA*
Crassostrea virginica - eastern oyster, common American oyster 160, 161, 162
- d. Class *CRUSTACEA*
Penaeus eztecus - brown shrimp 162
- e. Class *INSECTA*
Acyrtosiphon pisum - pea aphid 653
Apis mellifera - honeybee 118, 249, 257, 544, 545, 547, 557, 558, 559, 560
Cochliomyia hominivorax - screwworm fly 201
Ctenicera destructor - screwworm 213
Drosophila melanogaster - fruit fly 120
Onychiurus quadriocellatus - springtail 258
- f. Class *OSTEICHTHYES*
Cyprinus carpio - carp 749
Fundulus similis - longnose killifish 160
Gambusia affinis - mosquito fish 276
Lepomis macrochirus - bluegill sunfish, bream 214, 313, 374, 377, 378, 379, 380, 381, 383, 396
Lepomis punctatus - spotted sunfish 863
Mugil cephalus - mullet 162
Oncorhynchus kisutch - coho salmon, silver salmon 386
Perca fluviatilis - perch 749
Rasbora heteromorpha - harlequin fish 13
Salmo gairdneri - rainbow trout 215
- g. Class *AMPHIBIA*
Bufo americanus - toad 858, 859
- h. Class *REPTILIA*
Ankistrodon piscivorus - cottonmouth water moccasin 858, 859
Cnemidophorus sexlineatus - six-lined race runner 858, 859, 861, 862
- i. Class *AVES*
Anas platyrhynchos - mallard duck 225, 313
Colinus virginianus - bobwhite quail 225, 313
Gallus domesticus - chicken (domestic) 19, 23, 79, 129, 230, 266, 330, 609, 610, 660, 740, 741, 824, 826
Meleagris gallopavo - turkey (domestic) 650, 651
Phasianus colchicus - ring-necked pheasant, pheasant 225, 313
- j. Class *MAMMALIA*
Bos sp. - cattle 25, 73, 174, 320, 321, 330, 482, 485, 508, 608, 609, 610, 639, 660
Cavia porcellus - guinea pig - 660
Canis familiaris - dog 244, 388, 389, 483, 660
Equus caballus - horse 330, 624
Homo sapiens - human 99, 100, 138, 229, 257, 423, 441, 442, 449, 495, 543, 561, 595, 614, 627, 628, 629, 645, 688, 789
Lepus timidus - mountain hare 272
Macaca mulatta - Rhesus monkey 238

2,4,5-T - Other Anatomical and Physiological Effects (cont'd)

- Mus musculus - mouse (house) 296, 297, 363, 366, 367,
524, 660, 739, 758, 806, (in vitro) 806
- Oryctolagus cuniculus - rabbit 121, 122, 441, 660
- Ovis aries - sheep 25, 174, 175, 320, 321, 330, 482,
608, 609, 610, 638
- Peromyscus gossypinus - cotton mouse 858, 859
- Peromyscus polionotus - beach mouse, old field mouse
858, 859, 861, 862
- Rattus norvegicus - rat 5, 76, 121, 122, 129, 164,
168, 191, 241, 242, 255, 256, 266, 309, 313, 341, 342,
388, 437, 438, 460, 461, 462, 463, 464, 465, 466, 467,
539, 648, 649, 660, 675, 744
- Reithrodontomys humulis - eastern harvest mouse 858,
859
- Sigmodon hispidus - cotton rat, hispid cotton rat
858, 859
- Sus scrofa - pig 25, 129, 265, 320, 321, 330
5. Human Intoxication 99, 133, 409, 423, 441, 442, 495, 537,
543, 561, 595, 614, 627, 628, 629, 630, 647, 673, 674, 688,
724, 755, 789, 856
6. Other Human Health Aspects 1, 2, 3, 4, 8, 9, 18, 20, 21,
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577, 583, 585, 587, 596, 598, 600, 601, 603, 610, 613, 616,
635, 645, 661, 662, 674, 677, 681, 689, 702, 708, 732, 733,
734, 735, 737, 751, 755, 757, 769, 770, 774, 775, 776, 777,
778, 779, 781, 785, 786, 789, 791, 799, 805, 811, 815, 818,
819, 820, 821, 822, 827, 829, 835, 837, 838, 839, 841, 843,
846, 860, 871

J. Erbon [2-(2,4,5-trichlorophenoxy)ethyl-2,2-dichloropropionate]

1. Effects on Reproductiona. Class *INSECTA*

Acyrtosiphon pisum - pea aphid 653

2. Other Anatomical and Physiological Effectsa. Class *INSECTA*

Acyrtosiphon pisum - pea aphid 653

Erbon - Other Anatomical and Physiological Effects (cont'd)

- b. Class *MAMMALIA*
Ovis aëris - sheep 853

K. Silvex [2-(2,4,5-trichlorophenoxy)propionic acid]

1. Effects on Reproduction

- a. Class *INSECTA*
Acyrtosiphon pisum - pea aphid 653
Apis mellifera - honeybee 547, 558
- b. Class *OSTEICHTHYES*
Lepomis humilis - pygmy sunfish, orange spotted sunfish
 833
Lepomis macrochirus - bluegill sunfish, bream 833
- c. Class *MAMMALIA*
Mus musculus - mouse (house) 554
Rattus norvegicus - rat 554

2. Other Anatomical and Physiological Effects

- a. Class *ARACHNIDA*
Neoseilus fallacis 654
Tetranychus urticae - two-spotted spider mite 654
- b. Class *CRUSTACEA*
Ascellus brevicaudus - sow bug 671
Cypridopsis vidua - seed shrimp 671
Daphnia sp. 620
Daphnia magna - water flea, daphnia 198, 671
Daphnia pulex - water flea 667
Gammarus fasciatus - scud 671
Orconectes nais - crayfish 671
Palaemonetes kadiakensis - glass shrimp 671
Penaeus ezteus - brown shrimp 162
- c. Class *INSECTA*
Acyrtosiphon pisum - pea aphid 653
Apis mellifera - honeybee 545, 547, 557, 559
Chrysops sp. - horse fly 350
Pteronarcys californica - stonefly 668
- d. Class *OSTEICHTHYES*
Campostoma anomalum - stoneroller 373
Carassius auratus - goldfish 403
Chaenobryttus gulosus - warmouth 831
Dorosoma cepedianum - gizzard shad 831
Enneacanthus gloriosus - bluespotted sunfish 403
Ictalurus melas - black bullhead 403
Leiostomus xanthurus - spot 162
Lepomis cyanellus - green sunfish 373, 392
Lepomis humilis - pygmy sunfish, orange spotted sunfish
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Lepomis macrochirus - bluegill sunfish, bream 186, 260,
 374, 375, 376, 377, 378, 379, 380, 381, 382, 392, 395, 396,
 403, 671, 747, 831

Silvex - Other Anatomical and Physiological Effects (cont'd)

- Lepomis magalotis - longear sunfish 831
 - Lepomis microlophus - redear sunfish, redear 260, 831
 - Micropterus salmoides - large mouth bass 831
 - Notropis atherinoides - Lake emerald shiner 750
 - Pimephales promelas - fathead minnow 747
 - Pomoxis nigromaculatus - black crappie 831
 - Rasbora heteromorpha - harlequin fish 13
 - Salmo gairdneri - rainbow trout 186, 403
 - e. Class *AMPHIBIA*
 - Bufo woodhousii fowleri - Fowler's toad 670
 - Pseudacris triseriata - western chorus dog 670
 - f. Class *AVES*
 - Colinus virginianus - bobwhite quail 738
 - Gallus domesticus - chicken (domestic) 609, 660
 - f. Class *MAMMALIA*
 - Bos sp. - cattle 150, 482, 609, 639
 - Cavia porcellus - guinea pig 660
 - Oryctolagus cuniculus - rabbit 660
 - Ovis aries - sheep 150, 482, 609, 639
 - Rattus norvegicus - rat 5, 76, 660
3. Other Human Health Aspects 278, 417, 587, 616, 753, 838
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- A. Hearings 16, 82, 83, 84, 112, 113, 232, 236, 333, 414, 635, 733, 784, 785
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