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Description Notes Includes tables of Federally Sponsored Human Studies, Laboratory Studies, and Literature Surveys Related to Agent Orange.

CABINET COUNCIL ON HUMAN RESOURCES

WHITE HOUSE
AGENT ORANGE WORKING GROUP
(WHAOWG)

FACT SHEET
ON SCIENTIFIC RESEARCH
OF THE FEDERAL GOVERNMENT

Membership:

- o Department of Health & Human Services (Lead Agency)
- o White House Office of Policy Development
- o White House Office of Science & Technology Policy
- o Office of Management & Budget, Executive Office of the President
- o Council of Economic Advisors
- o Department of State
- o Department of Defense
- o Department of Agriculture
- o Department of Labor
- o Veterans Administration
- o Environmental Protection Agency
- o ACTION

Observer:

- o Congressional Office of Technology Assessment

This Fact Sheet of Agent Orange Research was compiled by the Agent Orange Working Group to inform the interested public about current U.S. Federal Government research on phenoxy herbicides and their contaminants. The list describes ongoing research and demonstrates the breadth of research efforts. Interested persons may obtain further information on these studies by contacting the representative, as listed in the Fact Sheet, from each Federal agency conducting research.

This Fact Sheet, describing the sixty-four federal studies and research projects completed and underway, is a clear illustration of the time and effort and funding that has been expended in the Federal arena and demonstrates the government's positive effort to seek answers to the Agent Orange question.

The Agent Orange Working Group has the responsibility for overseeing such research and disseminating information to the public as it becomes available. In light of this mandate, the Working Group has compiled this list. The Working Group will also assure that research findings are promptly made available to the public as data are gathered and analyses are completed.

CABINET COUNCIL ON HUMAN RESOURCES
AGENT ORANGE WORKING GROUP

FEDERALLY SPONSORED HUMAN STUDIES RELATED TO AGENT ORANGE

AGENCY	T Y P E O F S T U D Y						S T A T U S	
<u>STUDY TITLE</u>	<u>Mortality</u>	<u>Morbidity</u>	<u>Cancer</u>	<u>Repro- duction</u>	<u>Analytical</u>	<u>Completed</u>	<u>Ongoing</u>	<u>Estimated Completion Date</u>
<u>DEPARTMENT OF HEALTH AND HUMAN SERVICES</u>								
NIOSH Investigation of Leukemia Cluster in Madison County, Kentucky Allegedly Associated with Pentachlorophenol Treated Ammunition Boxes			X				X	Publication Oct 83
CDC Birth Defects and Military Service in Vietnam Study				X			X	Late 1983
NIOSH Dioxin Registry	X		X				X	Late 85
NIHES Establishment and Maintenance of an International Register of Persons Exposed to Phenoxy Acid Herbicides and Contaminants	X		X				X	Indefinite
NIOSH Soft Tissue Sarcoma Investigation	X		X				X	Indefinite
NCI Case Control Study of Lymphoma and Soft Tissue Sarcoma			X				X	Late 84
NCI Study of Mortality Among Pesticide Applicators from Florida						X		Publications <u>in Press</u>

FEDERALLY SPONSORED HUMAN STUDIES RELATED TO AGENT ORANGE

AGENCY	T Y P E O F S T U D Y						S T A T U S	
	<u>Mortality</u>	<u>Morbidity</u>	<u>Cancer</u>	<u>Repro- duction</u>	<u>Analytical</u>	<u>Completed</u>	<u>Ongoing</u>	<u>Estimated Completion Date</u>
<u>DEPARTMENT OF HEALTH AND HUMAN SERVICES cont'd</u>								
*CDC Epidemiologic Study of Ground Troops Exposed to Agent Orange during the Vietnam Conflict	X	X	X	X			X	1987
<u>VETERANS ADMINISTRATION</u>								
Vietnam Veteran Mortality Studies	X						X	Late 1984
Vietnam Veteran Identical Twin Studies		X		X			Proto- col	Initial 1984
Survey of Patient Treat- ment File for Vietnam Veteran In-Patient Care		X	X				X	Initial 1983 Survey
Agent Orange Registry Examinations		X	X				X	Indefinite
TCDD in Body Fat of Vietnam Veterans and Other Men		X		X	X	X		Publication in Preparation
Retrospective Study of Dioxins and Furans in Adipose Tissue of Vietnam-Era Veterans					X		X	1985

*Mandated to the VA by P.L. 96-151 Sec. 307. Transferred from VA to CDC under Interagency Agreement January 14,

FEDERALLY SPONSORED HUMAN STUDIES RELATED TO AGENT ORANGE

AGENCY	TYPE OF STUDY						STATUS	
STUDY TITLE	<u>Mortality</u>	<u>Morbidity</u>	<u>Cancer</u>	<u>Repro- duction</u>	<u>Analytical</u>	<u>Completed</u>	<u>Ongoing</u>	<u>Estimated Completion Date</u>
<u>DEPARTMENT OF DEFENSE</u>								
Epidemiologic Investiga- tion of Health Effects in Air Force Personnel Following Exposure to Herbicide Orange (Air Force Health Study)	X	X	X	X			X	Baseline 1983 Complete 1999
Armed Forces Institute of Pathology Agent Orange Registry of Vietnam Veteran Biopsy Tissues			X				X	Indefinite
<u>ENVIRONMENTAL PROTECTION AGENCY</u>								
Report of Assessment of a Field Investigation of Six-Year Spontaneous Abor- tion Rates in Three Oregon Areas of Relation to Forest 2,4,5-T Spray Practices				X		X (Published)		
National Pesticide Monitor- ing Project of Human Adipose Tissue					X		X	Indefinite (Annual Reports)

FEDERALLY SPONSORED HUMAN STUDIES RELATED TO AGENT ORANGE

AGENCY	T Y P E O F S T U D Y					S T A T U S		
<u>STUDY TITLE</u>	<u>Mortality</u>	<u>Morbidity</u>	<u>Cancer</u>	<u>Repro- duction</u>	<u>Analytical</u>	<u>Completed</u>	<u>Ongoing</u>	<u>Estimated Completion Date</u>
<u>DEPARTMENT OF AGRICULTURE</u>								
A Case Control Study of the Relationship Between Exposure to 2,4-D and Spontaneous Abortions in Humans				X		X		
Exposure Measurements of Mixers, Loaders and Appli- cators of 2,4-D on Wheat					X		X	1982
Exposure of Forest Workers to Ground Applications of 2,4-D					X		X	1983

CABINET COUNCIL ON HUMAN RESOURCES
AGENT ORANGE WORKING GROUP

FEDERALLY SPONSORED HUMAN STUDIES RELATED TO AGENT ORANGE

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	<u>Mortality</u>	<u>Morbidity</u>	<u>Cancer</u>	<u>Repro- duction</u>	<u>Analytical</u>	<u>Completed</u>	<u>Ongoing</u>	<u>Estimated Completion Date</u>
<u>DEPARTMENT OF HEALTH AND HUMAN SERVICES</u>								
NIEHS Investigation of Leukemia Cluster in Madison County, Kentucky Allegedly Associated with Pentachlorophenol Treated Ammunition Boxes			X			X		<u>Publications in Press</u>
CDC Birth Defects and Military Service in Vietnam Study				X			X	Late 1983
NIOSH Dioxin Registry	X		X				X	Indefinite
NIOSH Establishment and Maintenance of an International Register of Persons Exposed to Phenoxy Acid Herbicides and Contaminants	X		X				X	Indefinite
NIOSH Soft Tissue Sarcoma Investigation			X				X	Indefinite
NCI Case Control Study of Lymphoma and Soft Tissue Sarcoma			X				X	Indefinite
NCI Study of Mortality Among Pesticide Applicators from Florida						X		<u>Publications in Press</u>

FEDERALLY SPONSORED HUMAN STUDIES RELATED TO AGENT ORANGE

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<u>DEPARTMENT OF HEALTH AND HUMAN SERVICES cont'd</u>								
*CDC Epidemiologic Study of Ground Troops Exposed to Agent Orange during the Vietnam Conflict	X	X	X	X			X	1987
<u>VETERANS ADMINISTRATION</u>								
Vietnam Veteran Mortality Studies	X						X	Late 1984
Vietnam Veteran Identical Twin Studies		X		X			Proto- col	Initial 1984
Survey of Patient Treat- ment File for Vietnam Veteran In-Patient Care		X	X				X	Initial 1983 Survey
Agent Orange Registry Examinations		X	X				X	Indefinite
TCDD in Body Fat of Vietnam Veterans and Other Men		X		X	X			Publication in Preparation
Retrospective Study of Dioxins and Furans in Adipose Tissue of Vietnam-Era Veterans					X		X	1985

*Mandated to the VA by P.L. 96-151 Sec. 307. Transferred from VA to CDC under Interagency Agreement January 14, 1983.

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<u>DEPARTMENT OF DEFENSE</u>								
Epidemiologic Investiga- tion of Health Effects in Air Force Personnel Following Exposure to Herbicide Orange (Air Force Health Study)	X	X	X	X			X	Baseline 1983 Complete 1999
Armed Forces Institute of Pathology Agent Orange Registry of Vietnam Veteran Biopsy Tissues			X				X	Indefinite
<u>ENVIRONMENTAL PROTECTION AGENCY</u>								
Report of Assessment of a Field Investigation of Six-Year Spontaneous Abor- tion Rates in Three Oregon Areas of Relation to Forest 2,4,5-T Spray Practices				X		X (Published)		
National Pesticide Monitor- ing Project of Human Adipose Tissue					X		X	Indefinite (Annual Reports)

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	<u>Mortality</u>	<u>Morbidity</u>	<u>Cancer</u>	<u>Repro- duction</u>	<u>Analytical</u>	<u>Completed</u>	<u>Ongoing</u>	<u>Estimated Completion Date</u>
<u>DEPARTMENT OF AGRICULTURE</u>								
A Case Control Study of the Relationship Between Exposure to 2,4-D and Spontaneous Abortions in Humans				X		X		
Exposure Measurements of Mixers, Loaders and Appli- cators of 2,4-D on Wheat					X		X	1982
Exposure of Forest Workers to Ground Applications of 2,4-D					X		X	1983

FEDERALLY SPONSORED LABORATORY STUDIES AND LITERATURE SURVEYS RELATED TO AGENT ORANGE

AGENCY	TYPE OF STUDY						STATUS
	<u>Animal</u>	<u>Environmental</u>	<u>Analytical</u>	<u>Literature</u>	<u>Completed</u>	<u>Ongoing</u>	<u>Estimated Completion Date</u>
<u>DEPARTMENT OF HEALTH AND HUMAN SERVICES</u>							
Bioassay of Octachlorodibenzo-p-dioxin	X					.X	
Carcinogenesis Bioassay of 2,3,7,8-Tetrachlorodibenzo-p-dioxin in Swiss Webster Mice	X					X	
Carcinogenesis Bioassay of 2,3,7,8-Tetrachlorodibenzo-p-dioxin in Osborne-Mendel Rats and B6C3F1 Mice	X				X		
Bioassay of a Mixture of 1,2,3,6,7,8- and a Mixture of 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxins for Possible Carcinogenicity	X					X	
Comparative species Evaluation of Chemical Disposition and Metabolism of 2,3,7,8-Tetrachlorodibenzofuran (TCDF) in Rat, Monkey, Guinea Pig and Two Strains of Mice	X				X		
Neurotoxicity of 2,4,-D in Rodents	X				X		

FEDERALLY SPONSORED LABORATORY STUDIES AND LITERATURE SURVEYS RELATED TO AGENT ORANGE

AGENCY	TYPE OF STUDY					STATUS		Estimated Completion Date
	<u>Animal</u>	<u>Environmental</u>	<u>Analytical</u>	<u>Literature</u>	<u>Completed</u>	<u>Ongoing</u>		
<u>DEPARTMENT OF HEALTH AND HUMAN SERVICES cont'd</u>								
Studies of the Chemical Disposition and Metabolism of Octachlorodibenzodioxin (OCDD)	X						X	
Effects of Agent Orange Components on Male Fertility and Reproduction		X			X			
Mutagenicity Studies of TCDD, 2,4-D; 2,4,5-T and Esters of 2,4-D and 2,4,5-T		X					X	
Implications of Low Level Exposure of Dioxins		X					X	
Mechanisms of Toxicity of the Chlorinated- p-dioxins		X					X	
Research Toward Understanding the Molecular Level Mechanisms of Toxicity of TCDD and Related Compounds	X						X	
Synthesis of Selected Tetrachlorodibenzo-p-dioxins and Related compounds as Analytical Standards			X				X	

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<u>DEPARTMENT OF HEALTH AND HUMAN SERVICES cont'd</u>							
Matrix Effect and Sub Parts-per-billion Quantitative Analysis of TCDD by Mass Spectrometry - With Special Reference to Milk	X		X			X	
Toxic Actions of Tetra-chloroazobenzene Dioxins	X					X	
Xenobiotic Induction of Pleiotropic Responses in Liver	X					X	
Molecular, Biochemical Actions of Chlorinated-p-dioxins	X					X	
Mechanism(s) for Toxicity of Chlorinated Dibenzodioxins	X					X	

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<u>ENVIRONMENTAL PROTECTION AGENCY</u>							
Evaluation of Large Scale Combustion Sources		X	X			X	
Evaluation of Municipal Waste Combustors		X				X	
Bacterial Decomposition of TCDD		X				X	
Investigation of Bioavailability to Fresh Water Fish of TCDDs in Fly Ash	X	X				X	
Analysis of Environmental Samples for PCDDs and PCDFs		X	X			X	
<u>DEPARTMENT OF AGRICULTURE</u>							
Survey of Phenoxy Herbicide Use by Agricultural Commodity				X		X	
Survey of Phenoxy Herbicide Literature				X		X	Annual Bibliographies Published

FEDERALLY SPONSORED LABORATORY STUDIES AND LITERATURE SURVEYS RELATED TO AGENT ORANGE

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<u>DEPARTMENT OF AGRICULTURE</u>							
cont'd							
Photolysis of 2,4,5-T			X			X	
Biological and Economic Assessment of 2,4,5-T and Silvex				X		X	
TCDD Residue Monitoring in Deer	X	X			X		Report in Preparation
<u>DEPARTMENT OF DEFENSE</u>							
Environmental Chemistry of Herbicide orange and TCDD		X	X			X	Indefinite
<u>VETERANS ADMINISTRATION</u>							
Review of Literature on Herbicides, Including Phenoxy Herbicides and Associated Dioxins				X	Published 1981		Annual Update Approved
Urinary 6-Hydroxy Cortisol: Physiological and Pharmacologic Studies (Including Agent Orange)	X					X	1982
Effect of TCDD on Lipid Metabolism	X					X	1983

FEDERALLY SPONSORED LABORATORY STUDIES AND LITERATURE SURVEYS RELATED TO AGENT ORANGE

AGENCY	TYPE OF STUDY					STATUS	
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<u>VETERANS ADMINISTRATION</u> <u>cont'd</u>							
Mechanisms of Dioxin Induced Toxicity Using the Chloracne Model - Phase I	X				X		<u>Publication in Press</u>
Behavioral Toxicity of An Agent Orange Component 2,4-D	X					X	1984
Effects of 2,3,7,8-Tetra-chlorodibenzodioxin on Hepatobiliary Function in Animals	X					X	1985
Mechanism of TCDD Absorption and Toxicity on Lipid and Lipoprotein Metabolism	X					X	1985
Metabolism of the Herbicides Present in Agent Orange and Agent White	X					X	1985
TCDD Exposed Rhesus Monkeys: Effects on Behavior and Stress Hormones	X					X	1985

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<u>VETERANS ADMINISTRATION</u> <u>cont'd</u>							
Neuromuscular Toxicity of Agent Orange	X					X	1985
Mechanisms of Dioxin Induced Toxicity Using the Chloracne Model - Phase II	X					X	1985
Effects of Low Dose TCDD on Mammalian Chromosomes and Liver Cells	X					X	1986
Mechanism of Porphyria Caused by TCDD and Related Chemicals	X					X	1986
Effects of Agent Orange on Sleep	X					X	1986