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OFFICE OF THE UNDER SECRETARY OF DEFENSE



3000 DEFENSE PENTAGON WASHINGTON, DC 20301-3000

The Honorable Lane Evans Ranking Member Committee on Veterans' Affairs 335 Cannon House Office Building Washington, DC 20515

SEP 2 3 2003

Dear Congressman Evans:

This is in response to your letter to the Secretary of Defense concerning the use and storage of Vietnam-era herbicides, including the contaminant dioxin on Guam. I am responding on his behalf.

The Department has found no record of the use, storage, or testing of Herbicides Orange, Blue, or White on Guam. In 1952, roughly 5,000 drums of Herbicide Purple were transported to Guam and stored there in anticipation of use on the Korean Peninsula. The herbicide was never used and was returned to the United States. Although other herbicides may have passed through Guam during the Vietnam Conflict, we have no record of long-term storage or use of these herbicides on Guam.

The presence of dioxin contamination at a site does not necessarily indicate that Herbicide Orange was used or stored at that site. According to Air Force studies, the dioxins at sites references in the Public Health Assessment were associated with burned material. Access to sites on Guam with elevated dioxin levels is highly restricted and public exposure is not expected.

A summary of information obtained from a search of the records at the U.S. Army's Center for Unit Records Research on the use Vietnam-era herbicides in the other locations you requested is attached and has already been supplied to the Department of Veterans Affairs.

Sincerely,

Philip W. Grone

Principal Assistant Deputy Under Secretary of Defense

(Installations and Environment)

Attachment: As stated



Attachment Summary of Available Information On Use, Testing and Storage of Dioxin Containing Herbicides

Aberdeen Proving Ground, Aberdeen MD

Report Title: Summary Report, Herbicide Operations Conducted from Riverine Watercraft

Location: Poole's Island, Aberdeen Proving Ground, MD

Date(s): 7/14/1969

Herbicides: Orange, Orange plus foam, Orange plus foam Orange, Foam

Summary: During the week of 7/14/1969, personnel from Naval Applied Science Laboratory in

conjunction with personnel from Limited War Laboratory conducted a defoliation test

along the shoreline.

Apalachicola National Forest (Sohoppy, Florida)

Report Title: Technical Report 114, Field Evaluation of Desiccants and Herbicide Mixtures as Rapid

Defoliants

Location: Apalachicola National Forest near Sophoppy, FL

Date(s): 5/3/1967-5/8/1967

Herbicides: basic desiccants and Orange/Blue

Summary: During the period of 12/1966 - 10/1967, a comprehensive short-term evaluation was

conducted by personnel from Fort Detrick's Plant Science Lab in coordination with contract research on formulations by chemical industry and field tests by USDA and

University of Hawaii sites.

Avon Air Force Base, Florida

Report Title: Special Report No. 149, Low Volume Anti-crop Aerial Spray Trials

Location: Avon Air Force Base, FL

Date(s): 2/1951- 4/1951 Herbicides: butyl 2,4 D

Summary: Trials were conducted at Avon Air Force Base, FL by Chemical Corps with personnel

of the Air Force and Navy to determine the practical effectiveness of spraying pure anti-crop herbicides at low volume from aircraft, C-47 and Navy XBT2D-1 aircraft with

various nozzles were used.

Report Title: Special Report No. 225, Chemical Anti-crop Aerial Spray Trials Using Jet Aircraft also

in Special Report 232, Some Effects of Altitude and Airspeed on the Behavior of

Chemical Anti-crop Sprays

Location: Avon Park Air Force Base, FL

Date(s): Spring 1954

Herbicides: butyl 2,4-D, butyl 2,4,5-T, Isopropyl 2,4-D

Summary: Series of tests were conducted at Avon Park AFB during the spring of 1954 to study

the behavior of chemical anti-crop aerial sprays when released from high-speed jet aircraft. The Navy F3D jet fighter was used with Aero 14A Airborne Spray Tanks to

disperse the anti-crop herbicides.

Beaumont Texas

Report Title: Special Report No. 13, Marking and Defoliation of Forest Vegetation

Location: Beaumont, TX

Date(s): 1950-51 **Herbicides**: 2,4-D

Summary: The purpose was to determine means of accomplishing defoliation of tropical forest

vegetation by application of a chemical agent. Here, irrigation water studies were done

with the agent

Report Title: Special Report No. 79, Destruction by Chemical Agents also see Special Report No.

25, Vigo Plant CWS, Terre Haute, Indiana, and Beaumont TX, Box 12

Location: Beaumont, TX

Date(s): 6/1944 Herbicides: LN *phenoxy

Summary: Small plot experiments were commenced to test the effectiveness of LN herbicides.

Various trials were done under contract with the USDA, aided by personnel at Camp

Detrick. Here, they were testing on rice crops.

Brawley, California

Report Title: Special Report No. 13, Marking and Defoliation of Forest Vegetation

Location: Brawley, CA Date(s): 1950-51

Herbicides: 2,4-D

Summary: The purpose was to determine means of accomplishing defoliation of tropical forest

vegetation by application of a chemical agent. Here, irrigation water studies were done

with the agent.

Bushnell Army Air Field, Florida

Report Title: Special Report No. 79, Destruction by Chemical Agents

Location: Bushnell Army Air Field, FL

Date(s): 2/1945 Herbicides: LN *phenoxy

Summary: Small plot experiments were commenced to test the effectiveness of LN herbicides.

Various trials were done under contract with the USDA, aided by personnel at Camp

Detrick. Here, it was aerial spray experiments on potted plants.

Report Title: Crop Destruction by Aerial Sprays, Preliminary Trials

Location: Bushnell Army Air Field, Bushnell, FL

Date(s): 2/1945-4/1945

Herbicides: 2,4-D and its ammonium salt

Summary: Trials, performed by C.W.S. personnel from Camp Detrick, MD, tested the practicability

of severely injuring or destroying crop plants sprayed from smoke tanks mounted on

tactical aircraft.

Camp Detrick, Maryland

Report Title: Special Report No. 92, Field Plot Experiments with Plant Inhibitors 1946 and 1947

Seasons

Location: Camp Detrick, MD-Fields A,B, and C

Date(s): 1946-1947

Herbicides: 2,4,5-T, 2,4,5-T triethanolamine, tributylphosphate, ethyl 2,4-D, butyl 2,4,5-Ttriet 2,4-D,

Summary: The experiments were directed mainly towards the investigation of plant inhibitors

applied as sprays or to the soil in the solid form to be taken up by the roots.

Report Title: Special Report No. 130, Field Plot Experiments with Plant Inhibitors 1949 Season

Location: Camp Detrick, MD-Fields C,D,E

Date(s): 1949

Herbicides: triethelyne. 2,4,5-T, carbamates

Summary: The experiments were directed mainly towards the investigation of plant inhibitors

applied as sprays or to the soil in the solid form to be taken up by the roots.

Report Title: Special Report No. 105, Field Plot Experiments with Plant Inhibitors 1948 Season

Location: Camp Detrick, MD- Fields C,D, and E

Date(s): 1948

Herbicides: 2.4.5-T, isopropyl phenol carbamate, LN-2426, 2,4-D

Summary: The experiments were directed mainly towards the investigation of plant inhibitors

applied as sprays or to the soil in the solid form to be taken up by the roots.

Report Title: Special Report No. 153, Field Plot Experiments with Plant Inhibitors, 1950 Season

Location: Camp Detrick, MD-Fields A,B,D,E

Date(s): 1950

Herbicides: 2464, butyl 2,4-D, 974, butyl 2,4,5-T, q:q 143 and 974

Summary: The experiments were directed mainly towards the investigation of plant inhibitors

applied as sprays or to the soil in the solid form to be taken up by the roots.

Report Title: Special Report No. 156, Field Plot Experiments with Plant Inhibitors, 1950-51 Season

Location: Camp Detrick, MD-Field F

Date(s): 1950-51

Herbicides: 2464, carbamate, butyl 2,4-D, 143 and 974 (orange?),2,4,5-T, 2,4-D, Orange

Summary: The experiments were directed mainly towards the investigation of plant inhibitors

applied as sprays or to the soil in the solid form to be taken up by the roots.

Report Title: Abstracts of Technical Publications April 1965-June 1965, July 1965, Technical Report

50, Defoliation Studies: Screening of Defoliants, Herbicides, and Desiccants

Location: Fort Detrick, MD Date(s): 8/1961-6/1963

Herbicides: 1410 compounds

Summary: From 8/1961 to 6/1963, compounds were spray-tested in the greenhouse to evaluate

them as effective defoliants, desiccants, and herbicides.

Report Title: Special Report No. 201, Field Development of Chemical Anticrop Agents, Response of

Field Grown Crops to Chemical Anticrop Agents Released from Experimental Spray

tower

Location: Area B, Camp Detrick, MD

Date(s): Spring/Summer 1953

Herbicides: 3:1 mixture 2,4-D and 2,4,5-T

Summary: Personnel at Camp Detrick tested the feasibility of using an experimental spray tower

for applying a mixture of chemical anti-crop Herbicides to broad-leaf crops.

Dar and Prek Clong, Cambodia

Report Title: Record 1305-01, Report of Cambodian Rubber Damage

Location: southeastern part of Kompong Cham Province and Dar and Prek Clong plantations.

Cambodia

Date(s): 6/1969 Herbicides: Orange

Summary: In 6/1969, the US government received notice of charge by Cambodian government

that major defoliation damage to the Cambodian rubber plantation near the Republic of

Viet Nam border had occurred as a result of US defoliation activity. This was

confirmed by a team of experts.

Eglin Air Force Base, Florida

Report Title: Minutes-Meeting of Vegetation Control Subcommittee of the JTCG/CB, 2-3 March

1971

Location: Eglin AFB, FL, C-52A test area

Date(s): 1962-70

Herbicides: Orange (1962-68), Purple (1962-68), White (1967-70), Blue (1968-70)

Summary: CPT John Hunter discussed vegetation changes and ecological studies of the 2 square

mile test area which had been sprayed with herbicides over the period 1962-70.

Report Title: Spread Factor Study of Drops of Orange and Stull Bifluid Defoliants on Kromekote

Cards and Plant Leaves

Location: Eglin AFB, FL

Date(s): 6/11/1968-9/12/1968

Herbicides: orange, Bifluid #1, Bifluid#2, Stull Bifluid

Summary: A spread factor study was performed by the Army to correlate the spherical drop sizes

of both Orange and Stull Bifluid defoliants. It involved development of new techniques to determine spread factors over an extended range of drop sizes. A spinning cup drop

generator was used.

Report Title: Special Report No. 184, Anticrop Aerial Spray Trials, Phase III

Location: Eglin Air Force Base, FL

Date(s): 11/1952-12/1952

Herbicides: 2,4-D, 2,4,5-T: 143 and 974, respectively

Summary: Two trials: Chemical Corps concerned with basic fundamental work, using 2,4-D; Air

Force concerned with evaluating prototype large capacity spray system for aircraft installation using 2,4,5-T, primarily. Used 3 atomizing nozzles: Bete Fog Nozzles,

Whirljet Spray Nozzles, and Fogjet 1.5F50.

Fort Gordon Georgia

Report Title: Technical Report 114, Field Evaluation of Desiccants and Herbicide Mixtures as Rapid

Defoliants

Location: Fort Gordon, GA - Date(s): 7/15/1967-7/17/1967

Herbicides: in-house desiccants mixtures and formulations, Orange and Blue

Summary: During the period of 12/1966 - 10/1967, a comprehensive short-term evaluation was

conducted by personnel from Fort Detrick's Plant Science Lab in coordination with contract research on formulations by chemical industry and field tests by USDA and

University of Hawaii sites.

Fort Richie, Maryland

Report Title: Miscellaneous Publication 8, Proceedings of the Second Defoliation Conference 5-6

August 1964

Location: Fort Ritchie, MD

Date(s): 1963

Herbicides: Tordon, 2,4-D, Orange, diquat, endothal, and combinations of each with Tordon Summary: Various studies were done to explore the effectiveness of different herbicides. They

were all field trials. These studies were done by personnel from the US Army

Biological Laboratories

Biological Laboratories.

Report Title: Technical Report BWL 16, Defoliation and Desiccation

Location: Fort Detrick, MD; Fort Ritchie, MD

Date(s): 1956-1957

Herbicides: various, 577 compounds

Summary: In 1956 And 1957, defoliation and desiccation were carried out at Fort Detrick and Fort

Ritchie, Md, by the Chemical Corps and Biological Warfare Research. These were

bench tests.

Fredericton, New Brunswick, Canada

Report Title: Technical Report 114, Field Evaluation of Desiccants and Herbicide Mixtures as Rapid

Defoliants

Location: Base Gagetown near Fredericton, New Brunswick, Canada

Date(s): 6/20/1967-6/24/1967

Herbicides: basic desiccants and Orange, Blue, various

Summary: During the period of 12/1966 - 10/1967, a comprehensive short-term evaluation was

conducted by personnel from Fort Detrick's Plant Science Lab in coordination with contract research on formulations by chemical industry and field tests by USDA and

University of Hawaiisites.

Guanica, and Joyuda, Puerto Rico

Report Title: Second Quarterly Progress Report of Research carried out by the Federal Experiment

Station in Puerto Rico for The Chemical Corps Biological Laboratories, Fort Detrick on

contract #CD6-404-3654

Location: Guanica and Jovuda, PR

Date(s): 6/1956-9/1956

Herbicides: 2,4,5-T, potassium cyanate, amiendo, F-2, 6-Ca-4, Y-F Tree and Brush Kiler, ACP M-

118, Shed-A-Leaf

Summary: 9 chemicals were evaluated on 16 genera of tropical woody between June and

September. The chemicals were sprayed to duplicate small branches, using a

microsprayer.

Report Title: Third Quarterly Progress Report of Research carried out by the Federal Experiment

Station in Puerto Rico for The Chemical Corps Biological Laboratories, Fort Detrick on

contract #CD6-404-3654

Location: Las Mesas and La Jagua, Mayaguez, Joyuda at Cabo Rojo, and Guanica Insular

Forest at Guanica, PR

Date(s): 9/1956-12/1956

Herbicides: 6-Ca-4, Liojn Oil, 2, 4,5-T, B-1613, B-1638, Ammate, V-C1-186, endothal, shed-a-leaf,

M-118, Y-F, esteron 2,4-D, F3, F4, F5, F6

Summary: 16 compounds with defoliating properties were evaluated using 28 different tropical

woody plants, each representing a separate genus. The chemicals were applied to duplicate small branches with a microsprayer and to single larger branches or whole

trees with a 2-gallon knapsack sprayer.

Guanica, and Joyuda, Puerto Rico (continued)

Fourth Quarterly Progress Report of Research carried out by the Federal Experiment Report Title:

Station in Puerto Rico for The Chemical Corps Biological Laboratories, Fort Detrick on

contract #CD6-404-3654

Location: Las Mesas and La Jaqua, Mayaguez, Guanica Beach, PR

Date(s): 1/1957-3/1957

Herbicides: V-C 3-105, V-C 1-21, V-C 1-443, F-7, TBP, Phillips 713, V-C 3-173

Summary: 7 compounds were evaluated on 29 different woody plants to determine their

effectiveness as defoliants, desiccants, and as killing Herbicides. They were applied

with a microsprayer to the upper leaf surfaces of duplicate small branches.

Report Title: Quarterly Progress Report of Research carried out by the Federal Experiment Station

in Puerto Rico for The Chemical Corps Biological Laboratories, Fort Detrick on contract

#CD6-404-3654

Location: Las Mesas and La Jagua, Mayaguez, Guanica Beach, PR

Date(s): 4/1957-6/1957

Herbicides: B-1676, B-1638, NP 1098, SD 1369, Ammate, Shed-a-leaf

7 compounds were sprayed on 25 different plants in order to evaluate their Summary:

effectiveness as defoliants, desiccants, and killing agents. The compounds were applied with a microsprayer to the upper and lower leaf surfaces of duplicate small

branches.

Gulfport, Mississippi

Report Title: Minutes of the Quarterly Meetings for Calendar Year 1970 of the Subcommittee on

Defoliants/Anti-crop Systems, Joint Technical Coordinating Group/Chemical Biological

Location: Gulfport, Miss.

Date(s): 1968-1970 Herbicides: Orange

While discussing the mandatory disposal of Orange, it was mentioned that 15,161 Summary:

drums were being stored at Gulfport, Mississippi.

Huntington County, State College, Pennsylvania

Report Title: Soil Applied Herbicides in the Control of Temperate Zone Grasses, Broadleaf Weeds

and Woody Plants

Location: Stone Valley Experimental Forest in Huntington County and near State College in

Centre County, PA

3/1969-10/1970 Date(s):

bromacil, diuron, tandex, fenuron, picloram Herbicides:

Soil- applied herbicides were studied by the U of Pa with Ft Detrick for 18 months for Summary:

their effectiveness, rapidity of action, and duration of response in native stands of central PA grasses, broadleaf weeds and woody plants. These herbicides were

spread or sprayed.

Jacksonville, Florida

Report Title: Spray Test Calibration of the HIDAL (HUS-1 or H-34)

Location: Jacksonville, FL Date(s): 7/18/1962-7/21/1962 Herbicides: Purple, Fuel Oil, Mix

Summary: The HIDAL was used successfully on an H-34 helicopter to spray herbicidal materials.

Therefore, it had not been calibrated previously. Spray tests were performed to do so.

This was done under order by OSD/ARPA.

Kauai, Hawaii

Report Title: Technical Report 114, Field Evaluation of Desiccants and Herbicide Mixtures as Rapid

Defoliants

Location: Kauai Branch Station near Kapaa, Kawai, HI

Date(s): 6/1967, 10/1967, 2/1968, 12/1967

Herbicides: Blue, diquat, paraquat, Orange, PCP, Picloram, White, HCA, 2,4,5-T, Endothall Summary: During the period of 12/1966 - 10/1967, a comprehensive short-term evaluation was

conducted by personnel from Fort Detrick's Plant Science Lab in coordination with contract research on formulations by chemical industry and field tests by USDA and

University of Hawaiisites.

Report Title: Miscellaneous Publication 33, Information Manual for Vegetation Control in Southeast

Asia

Location: Kauai, HI

Date(s): 1967 Herbicides: Orange

Summary: Field tests of defoliants were designed to evaluate such variables as rates, volume of

application, season, and vegetation. Data from aerial application tests at several

CONUS and OCONUS locations are provided in tables.

Kingston, Rhode Island

Report Title: Special Report No. 130, Field Plot Experiments with Plant Inhibitors 1949 Season

Location: Kingston, RI

Date(s): 7/26/1949, 1950-51

Herbicides: trieth.2,4,5-T, butyl 2,4,5-T,974

Summary: The experiments were directed mainly towards the investigation of plant inhibitors

applied as sprays or to the soil in the solid form to be taken up by the roots.

Kompong, Cham Province, Cambodia

Report Title: Record 1305-01, Report of Cambodian Rubber Damage

Location: southeastern part of Kompong Cham Province and Dar and Prek Clong plantations.

Cambodia

Date(s): 6/1969 Herbicides: Orange

Summary: In 6/1969, the US government received notice of charge by Cambodian government

that major defoliation damage to the Cambodian rubber plantation near the Republic of

Viet Nam border had occurred as a result of US defoliation activity. This was

confirmed by a team of experts.

Laos

Report Title: Herbicide Operations in Southeast Asia, July 1961-June 1967

Location: Laos

Date(s): 12/1965-1967

Herbicides: Orange

Summary: In December 1965, herbicide operations were begun in Laos, with sorties being flown

from Tan Son Nhut and Da Nang. The purpose was the exposure of foot trails, dirt roads and other lines of communication that crossed into South Viet Nam. This network leads from North Viet Nam, through the eastern panhandle, to Cambodian

border.

Las Marias, Puerto Rico

Report Title: Technical Report 114, Field Evaluation of Desiccants and Herbicide Mixtures as Rapid

Defoliants

Location: Las Marias, Puerto Rico

Date(s): 2/1967-12/1967

Herbicides: various, including Orange

Summary: During the period of 12/1966 - 10/1967, a comprehensive short-term evaluation was

conducted by personnel from Fort Detrick's Plant Science Lab in coordination with contract research on formulations by chemical industry and field tests by USDA and

University of Hawaiisites.

Las Mesas, Cerros and LaJugua, Mayaguez, Puerto Rico

Report Title: Formulation and Testing of Broad Spectrum of Herbicide Pellets, Second Six Month's

Report on Contract No. DAAA13-67-C-0218

Location: Las Mesas Cerros, Mayaguez, PR Date(s): 5/24/1968, 5/26/1968, 5/27/1968

Herbicides: picloram, bromacil, pyriclor

Summary: In 1967, the Dow Chemical Company was awarded a DoD research contract. The

objective was to prepare as pellets mixtures of various herbicides and to test them on

varying vegetation situations for the control of a range of plant species.

Report Title: First Quarterly Progress Report of Research carried out by the Federal Experiment

Station in Puerto Rico for The Chemical Corps Biological Laboratories, Fort Detrick on

contract #CD6-404-3654

Location: Las Mesas and La Jagua experimental areas at Mayaguez, PR

Date(s): 2/1956-6/1956

Herbicides: 2,4,5-T, 2,4-D, pentachlorophenol, ammate, weedazol, endothal Harvestaid, Butyne -

1,4-diol

Summary: During February to June, 9 chemicals were evaluated in PR on 16 genera tropical

woody plants. The chemicals were applied in highly concentrated solutions with a

microsprayer to the leaves.

Report Title: Progress Report of Research carried out by the Federal Experiment Station in Puerto

Rico for The Chemical Corps Biological Laboratories, Fort Detrick on contract #CD6-

404-3654

Location: Las Mesas and La Jaqua, Mayaquez, PR

Date(s): 7/1957-12/1957

Herbicides: MgClO3, Golden Harvest Defoliant, Dow-M562, F-8, F-9, F-10, F-11, F-12

Summary: 8 different spray formulations were applied to 16 different tropical trees and shrubs in

order to evaluate their effectiveness as defoliants, desiccants, and killing agents.

Loquillo, Puerto Rico

Report Title: Miscellaneous Publication 33, Information Manual for Vegetation Control in Southeast

Asia

Location: Loquillo, PR

Date(s): 4/1966, 10/1966

Herbicides: Orange

Summary: Field tests of defoliants were designed to evaluate such variables as rates, volume of

application, season, and vegetation. Data from aerial application tests at several

CONUS and OCONUS locations are provided in tables.

Mauna Loa, Hilo, Hawaii

Report Title: Dow Sponsored Test of TORDON Ester and Orange in Hawaii

Location: State Forest area, 3500 ft. elevation on slope of Mauna Loa, near Hilo, HI

Date(s): 12/2/1966, 12/4/1966, 1/12/1967

Herbicides: Orange, M-3140, TORDON ester, 2,4-D ester, 2,4,5-T ester

Summary: The purpose of this project was to evaluate iso-octyl ester of picloram (TORDON) in

mixtures with ORANGE, as a candidate defoliant agent, using ORANGE as standard.

There were personnel from Fort Detrick there.

Operation PACER HO (Disposal at Sea)

Report Title: Technical Report USAF OEHL TR 78-92, the Toxicology, Environmental Fate and

Human Risk of Herbicide Orange and its Associated Dioxin

Location: Sea

Date(s): Summer 1977

Herbicides: Orange

Summary: In 1977, the USAF incinerated 2.22 million gallons of Herbicide Orange at sea in an

operation entitled PACER HO. Extensive industrial hygiene sampling efforts supporting the transfer operations at Gulfport, MS and Johnston Island indicated all exposures were inconsequential (2-3 orders of magnitude below the TLVs for 2,4-D

and 2,4,5-T)

Pinal Mountains, Globe, Arizona

Report Title: Investigation of Spray Project near Globe, AZ

Location: Pinal Mountains near Globe, AZ Date(s): 1965, 1966, 1968, and 1969

Herbicides: 2,4-D isooctyl-ester, 2,4,5-t isooctyl-ester, silvex, propyleneglycolbutylether ester,

2,4,5-T butyl ester, 2,4,5-T 2-e-h e

Summary: In 1965, the US Forest Service began a land improvement program in the Pinal

Mountains. The program called for spraying an area of chaparral with herbicides to

accomplish the objectives of multiple land use.

Pranburi and other locations in Thailand

Report Title: Appendix D. Aerial Herbicide Applications Evaluated for Maximum Effect and Minimum

Drift

Location: Replacement raining Center of the Royal Thai Army near Pranburi, Thailand

Date(s): 1964 and 1965 Herbicides: Orange, Purple

Summary: An extensive series of tests were conducted by Fort Detrick during 1964 and 1965 in

collaboration with the Military Research and Development Center of Thailand. The objective was to perform onsite evaluation of phytotoxic chemicals on vegetation in SE

Asia.

Prosser, Washington

Report Title: Special Report No. 13, Marking and Defoliation of Forest Vegetation

Location: Prosser, WA
Date(s): 1950-51
Herbicides: 2.4-D

Summary: The purpose was to determine means of accomplishing defoliation of tropical forest

vegetation by application of a chemical agent. Here, irrigation water studies were done

with the agent.

Rio Grande, Puerto Rico

Report Title: Formulation and Testing of Broad Spectrum of Herbicide Pellets, First Six Month's

Report on Contract No. DAAA13-67-C-0218

Location: near Rio Grande, on the northeast coast of Puerto Rico

Date(s): 8/23/1967, 10/18/1967, 12/21/1967-12/26/1967

Herbicides: picloram, bromacil, pyriclor, and terbacil

Summary: In 1967, the Dow Chemical Company was awarded a DoD research contract. The

objective was to prepare as pellets mixtures of various herbicides and to test them on

varying vegetation situations for the control of a range of plant species.

Wayside and Wilcox, Mississippi

Report Title: Formulation and Testing of Broad Spectrum of Herbicide Pellets, First Six Month's

Report on Contract No. DAAA13-67-C-0218

Location: near Wayside, Miss., Wilcox Road, Greenville, Miss.

Date(s): 9/19/1967

Herbicides: picloram, bromacil, pyriclor, and terbacil, Orange, cacodylic acid

Summary: In 1967, the Dow Chemical Company was awarded a DoD research contract. The

objective was to prepare as pellets mixtures of various herbicides and to test them on

varying vegetation situations for the control of a range of plant species.