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ftem ID Number	03655 Hot Scanned
Auther	Young, Alvin L,
Corporate Author	
Report/Article Title	Research Handling /Exposure Notes and Proposed Research Projects, 1969
Journai/Book Title	
Year	0000
Month/Day	
Color	
Number of Images	13
Descripton Notes	Includes 2 color photographs of a sprout.

PROFOSED RESEARCH PROJECTS Lt Alvin L. Young 7 February 1969

ASSIGNED IN-HOUSE PROJECTS - 1968/1969

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Work Unit 009, Project 2552 (AFATL), "Biological Detection of Herbicidal Drifts".

This project will involve developing biological monitoring techniques for detecting phenoxy herbicide (e.g., Agent Orange) drift from the spray-equipment trials being conducted on Test Area C-52A (TA C-52), Eglin AFB Reservation, Florida.

Work Unit. Oll. Project 2552 (AFATL). "Residual Effects of Herbicides".

This project will involve developing chemical and biological assays for determining levels of herbicides (Agents White, Orange and Blue) in soils of Test Area C-52A.

Work Unit OO 04, Project 5066 (AFATL), "Vegetative Studies of a Herbicide-Equipment Test Area".

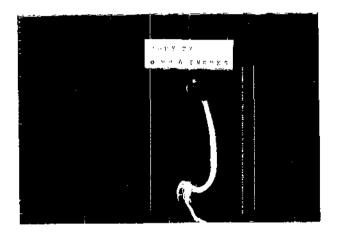
This project will involve conducting vegetative/ecological studies on Test Area C-52A during and following completion of all sprayequipment development programs on TA C-52A.

Task Ol, Project 5172 (ADTC), "Development of Tracer Methods for Detection of Herbicidal Drift".

This project will involve evaluating various elemental additives mixed with Agents Orange and White that can be used to determine if plant damage found off-targets was caused by USAF defoliants.

RESIDUAL STUDIES Lt Young 28 September 1969

PHOTOGRAPH



SOYBEAN



Treatment Core T2 Range C-52A 0 - 6 inch depth 10 days after initiation of the bioassay

Control Core C3 Range C-52A 18 - 24 inch increment

1969 Residual Studies Sail Gras collected George Biassay of Soil Gress Evaluating 4 4 5 Sept 69, 28 Sept 69 26 Nov 69 6 Oc 69 (ALA) 2001 8 (1600) 7 FED 69 -Work Unit 009, Project 2552 (AFATL), "Biological Detection of Herbicidal DriFts." from spray-equipment traves on TA C-52A. Monitoring of Herbicede Rugs Work unit OII Project 2552 (AFATL), "Residual Effects of Herbicides" TASK 01, Project 5172 (ADTC), "Development of Traces Methodo For Detection of Herbicidal Drift. Work Unit 0004, Proyer 5066, 11 VEgetatue Succession Studies on a Herbicide Equipment Test areas Equipment FL Project 2552 - HERbicole EFFEcts Studios (Plant pathology, Herbicale Physiology) plant production) Freik Mc

· 15 Jan 69 - Chemical analysis of Suelo Containing Revolude Orange 20 Nar 69 Orange Jodene Addeter Study 11 Apr 69 ATMA Induce Trace Project 16 June Vegetodin Studies of TA CS2A Induce Frace, Project 27 May 1969 27 Jun 1969 Suggette & I Odetours Studies Vegetstien Studies 06 TA C-524 Filos Studie Using Orange/White Field Evaluations of Indene Concentrations Orange Broascary 1 July 69 5 Aug 691-14 Aug 61 8 Oct 69 5 Dec. 69 Sail Broasracy of Overge-Indotorm Mixteres Orange 494.4 ppm 11 Dec 69 Sail Broassan of Orange-Ialponn mixtures 17 Pec 69 -31 Dec 69 Results of 28 Sep 69 leveluel Fudues of Soul Cones from TA C-52A Location G-9, F-17, H-10, K-13, Pool

5 Jan 10 - Jobsform - Herbicide Treatment # 12 Jan 70 - Jobs Form - Herbicide Broassay 21 " 20-22 Aprillo Soil Ore Breastay Study ppm ORANGE INSSOIL 23 June 70 Jorange Broassay ~1 - 15 ppm 10-17 July. - Bibassay of Orange Standardo ~ Sand. - 10 July 7D Branday of Orange Standards 24 OCT 1470 - Histological Study of Yuccca Eilamentosa SEP-OCT > Histological Study 10 Dec 72 - TAC52 Such Gres B-14, C-9, J-3, M-8, N-12, 0-7 Courses Brownay 517 Dec 70 Hearment 126 cups / 4 plants/aug 18 - 28 Dec - Soylean Bloassay 5/Jan 71 South Core Brown GRID J Cucumber Bibarray 0-5,08 14 Jan 71 Orange Stundands 15 Jan 71 Evaluation of Cucumber Browney 21 Jan 71

TDY'S AND HANDLING / EXPOSURES TO ORANGE /TOD Orang 5 MAY 1972 Garden City KN Establish Biodagnedation Plats USAFA (5-7404, T-1194) Spray incorporated & Samplak plots - 10 HP 29 Sep 1972 Conden fity Ku Sempled Biologradatic plats Ushter Laboratory (29 Sep - 1007) 90 Sail Samples 10 Hz USAPA Laboredary Plots;). (THR) 18-20 JAN 73 Hill AFB, LT Sampled Buddequedation (640)-USNPA Laboratory 22-11251 Mar 73 Hill AFB, LT - Sampled Buddequedation (640)-USNPA USNPA Laboratory Laboratory Plots 28 Har - 7 Apr 73 Eglin AFB - Seil Sampling of (GFL) Laboratory Laboratory 30 Apr - 3 May 73 Corvalles, OR. - OSU Prenol/kerbicede (4 Hr) Corvalles, OR. - OSU Prenol/kerbicede (4 Hr) (4 Hz) OSU Prenol/kerbicale Olgrodation Plots (Sampling) USNPA 18-23 Have 73 Eghn AFB 10HR Sampled Biodegrad adren. Plots & Sampled Grip I 5-07 June 73 Garden aly Kal GHe Sampled Scodegredation 10 June - 12 July - Egen AFB 102 Hes Ecological Studges Laborday 13 Jul - 21 July 73 He **32**40) Ecological Studies

21 12 24 He 12-15 Oct 13 Galin NFB Intensive annal Vrapping/Suil Sampling Histo Work, Newls etc. 8-9 NOV 73 Hill AFB, UT Soit Sumpling, Brodage Leiborating Analytical Microbial Stricits Growth Chambar (He) 22 = 27 Mar 74 Eghen AFB - Awmal Study Biodegradation Plats 48 6He) 11-14 Apr. 74 Hill AFB, UT - Sail Sampling 9 Jun - 23 Just 14. Eglin AFB Ecological Studies (120Hz) Soil Jampling 12 HR 30 June - 2 July 74 Gulffort MS Plos Samplings 18 HR Ecological Studies 3-14 July 74 -Hill AFB, UT 22-27 July 74 20He Collect Frocess Fanalyze. Estin AFB, FL -Nullad ME Soil / Lique Sampling Ecological Hidy (14 He) 28 July - 8 Aug 74 Johnston Island US OFA Laboratory Harbicide Orange Refores fation Seofs SHR) 10 Sep - 12 Sep 74 March Sturies Biodegradations Plats / prum Assess 15 117 Dec 74 Hull AFB PL 6H2)

10 He Soit Sampling of Plots / 6 rio I 19-21 Dec74 Eghn AFBFL -> Soll analysis Plot Biodegradation Sampling Sampting Prep BHR 3-5 Apr 75 Eghn AFB USHFA andypes 6Hr) Biodegradotin Stupy 22-23 Jun 25 Hall AFB, Ut. Soul Analipes 18 Hre) -TCDD uptake Study Eghin NEB, FL Animal Huay E Grid I 4#r) 24-25 AVOU 75 A.I. AFB UM Biodogradatia Egh AFB, FL Beachmice Study 13 - 21 Dec 75 Sail Simple zog WCBC, Gulfport 8-11 Jan 76 Ecological Plant & Sud Ð 5-12 Jun 76 USAFA TOD Studies 7 Eghn AFB Surpling . reological Hul HEB W 1-3 Aug 76

17-22007 1976 NCBC, Guffont MS Soulfunder (OHR) Biodagradation Plots 4-He Hell AFB UT ANOU 76 Sail Anolycia E6 He 14-19 NOU 76 Geli AFB Ecological Studies annals/Soils 19-10 Dec 16 BrocksAFB Astalipio / Soit Sample for Orange 8 Ar 29 Dec 76 - 11 Jan Bracks AFB Amalipio of Hisbicides (24) 767 ··· · · · · · · · · · ·

TDy -1977

27-29 Jul 77 Gufpert MS Pullman Wa Observe ad evaluate Herbiade Otange Biolegredaten Pots (4) 25-30 Stp 77 Salit AFB Sampled (4) VIO BLORES. PLOTS 17 - 19 005 77 Enden Germany -Clean Vulcanus 9 12-28 NOU 77 Several TCDD (4) Entered TCDD (4) Conteminated Zone Analysis of hust Samples from Vileanus Malyris of Sail Samples Preparation of Site Monttoning Sails

د <u>ب</u> 7D8 1978 16-t 11-12 8-18-8 6 Jan - 11 Jan 78 Johnston Island 30.) Establish Site Man Long Yroffer . 16 - 22 Jan 78 NCBG Sufferni - Site Hand 29 Eghn AFB & Brid Brid D Reviewed & Particular proc. nx (4) 27 25 Jan 78 1-3Feb.78 Univ of the Nebraska. Prequed Bullog ceal Sample 17-Feb 78 Marsealle, France Cleaning Operation 3 NULCANUS Eglon AFB FL (3) Collected Sods, #53 12 - 21 Apr 78 (-9 NOV 78 NCBC Gulfant - Ste Manting 3 Eglin AFB (los uppke) 10 = 15 50

Profest 12-46 Orange Visposal 20 Dec. 78-21/2 br. Omptying / draining & crushing glass containers of Herbicide Qloves qloves coverables Boots. GP Stock Vapor experient. - # 29 NOU _ 3 hr - 20 gallon 13 gallon 21/2 hr. standered 30 NOU * 10-50 ng/ml.] 200 ml. Mast/gloves. 21 Dec- Dupored of 12x50 ml Welumetric flasks of TODD standardy Range 0.1 Mg/m - 50 ng/ml - Nosk &

Studies with 10 Sois 1978 Laboratory

22 NOU	- 2 LR
23 NOU	-2hc
25 NOU	2 hr
29 Nov	1 hr
5 Ada	1 hr
12 Dec	Zhr
19 Dec	1 hr
20 Rec. 21 Dec	the weighing
Weighing	soils (13)
Ó	per contain.
Inhabition	/skin

SNIFF TEST 23/24 JANUARY - 1978 6 HRS inhalation Reg of Soils < a ppb - 0.5 ppm SNIFF TEST. 8 Nov 78 SAMPLE Prep. IHR 4 JAN 79