

APPENDIX H

PESTICIDE/HERBICIDE DOCUMENTATION FORT McCLELLAN, ALABAMA

- APPENDIX H.1 CURRENT PESTICIDE/HERBICIDE LISTS FOR
BUILDING 211**
- APPENDIX H.2 OTHER DOCUMENTED PESTICIDE/HERBICIDE
LISTS**
- APPENDIX H.3 ANALYTICAL RESULTS OF SAMPLES FROM
HERBICIDE/PESTICIDE MIXING AREA**

APPENDIX H.1

CURRENT PESTICIDE/HERBICIDE LISTS FOR BUILDING 211
(as received)

Mike

CHEMICAL INVENTORY ROOM #1

CHEMICAL/MANUFACTURER	AMOUNT ON HAND	RECEIVED/DATE	ISSUED/DATE	BALANCE
Tempo W.P/Mobay	2 containers			
Safrotin/Zoecon	2 bottles			
Ficam W/BFC Chemicals	12 boxes			
Gencor Crack & Crevice/Zoecon	6 cans			
Baygon PT250/Whitmire	12 cans			
Perma Dust PT240/Whitmire	69 cans			
Knoxout PT265/Whitmire	1 can			
Pyrethrum PT565/Whitmire	9 cans			
Wasp Freeze PT515/Whitmire	72 cans			
Soak-up/Stephenson Chemical	1 container			
Roach Kill/R-Valve Inc.	31 bottles		MAN 31/2/7	
Dray/R-Valve Inc.	16 bottles			
Flea Killer/AHREP	9 cans			
Precor Fogger/Zoecon	79 cans			
Gencor Fogger/Zoecon	12 cans			
Insectape/Taijicow	165 pouches			
Fire Ant Spray/AHREP	45 cans			
Pyrethrum Fogger/Professional Pest Products	16 cans	50 cans - 1/1 82 cans	15 cans	
Fly Bait DDUP/Stephenson Chemical	18 boxes			
Bird Tangle Foot/Tanglefoot Company	108 tubes			
Maxforce/American Cyanamid	1 box			
Mouse Glue Trap/Enforcer	36 packages	10/5/11 - 5/1/12	2 m/s	31
Talon G/ICI	230 packages		b	

CHEMICAL INVENTORY ROOM #1 (CONTINUED)

CHEMICAL/MANUFACTURER	AMOUNT ON HAND	RECEIVED/DATE	ISSUED/DATE	BALANCE
Stick-E Glue Traps/JT Eaton Co.	13 packages		3	
Mouse Glue Board/Atlantic Paste and Glue	3 boxes			
Rat Glue Board/Atlantic Paste and Glue	2.5 boxes			
Flytek/Isopet	1 can			
Misty Rod Pogger/AMREP	30 cans	2		10
Anti-Crank/AMREP	115 cans			62
Eaton Bait Boxes/JT Eaton	3 boxes			
Powder Puff/AMREP	174 cans			
Amdro/American Cyanamid	7 containers	100 18		8
Drione Dust/Fairfield American	3.5 drums			
Trap Stik Glue/Public Equipment	2 containers			
Trap Stik Glue/Public Equipment	1 container			
McGill Rat Traps/McGill Products	3 1/2 cases			
Bor-Act/Southern Mill Creek	2 drums			
Final Mouse Bait/Bell Lab	3 cans			
Pivacain/Velsicol	2 boxes			
Talcon L Bait/ICI	1 drum			
Pivalyn/Motomco	3.5 boxes			
ENFORCER (Flagger)		6 cases	100 18 102 18 100 18 102 18	

NEXT PAGE

H.1-2 6-2004

102-618

HOP CHEMICAL INVENTORY ROOM #1

CHEMICAL/MANUFACTURER	AMOUNT ON HAND	RECEIVED/DATE	ISSUED/DATE	BALANCE
empo W.P/Mobay	2 containers			
Faffotin/Zoecon	2 bottles			
Ficam W/BFC Chemicals	12 boxes			
encor Crack & Crevice/Zoecon	6 cans			
aygon PT250/Whitmire	12 cans			
Penaa Dust PT240/Whitmire	69 cans			
Anoxout PT265/Whitmire	1 can			
ethrum PTS65/Whitmire	9 cans			
Wasp Freeze PTS15/Whitmire	72 cans		case 618 1 can 5/11/82	
Soak-up/Stephenson Chemical	1 container			1/3
ect KILL/R-Valve Inc.	31 bottles	16/1/82	12 sp1	2 1/3
ay/R-Valve Inc.	16 bottles			
Flea Killer/AHREP	9 cans			6/25
ecor Fogger/Zoecon	79 cans	-	1 case 1 case to 5/15	67
ecor Fogger/Zoecon	12 cans			
Insectape/Rainbow	165 pouches		1 case	1/8
cate Ant Spray/AHREP	45 cans			
ethrum Fogger/Professional Pest Products	16 cans		SLK 12/3/84	5 - 1
Bait DOUP/Stephenson Chemical	18 boxes			
ed Tangle Foot/Tanglefoot Company	108 tubes			
Maxforce/American Cyanamid	1 box	8 unopened	10/22 U/B	
ise Glue Trap/Enforcer	36 packages		3/23 3pm	
on G/ICI	230 packages	H.1-3		

CHEMICAL INVENTORY ROOM #1 (CONTINUED)

CHEMICAL/MANUFACTURER	AMOUNT ON HAND	RECEIVED/DATE	ISSUED/DATE	BALANCE
Stick-Em Glue Traps/JT Eaton Co.	13 packages			
Mouse Glue Board/Atlantic Paste and Glue	3 boxes			
Rat Glue Board/Atlantic Paste and Glue	2.5 boxes			
Flytek/Zoetek	1 can			
Misty Room Fogger/AMREP	60 cans			
A-Crawl/AMREP	115 cans		2 S/29	
Econ Bait Boxes/JT Eaton	3 boxes			
Powder Puff/AMREP	174 cans		2160 6/13 S/29 2 21	145 6/18
Amdro/American Cyanamid	7 containers		S/16 3	
Dine Dust/Fairfield American	3.5 drums			
T Stik Glue/Public Equipment	2 containers			
Tape Stik Glue/Public Equipment	1 container			
McGill Rat Traps/McGill Products	3 1/2 cases			
Bait Act/Southern Mill Creek	2 drums			
Fel Mouse Bait/Bell Lab	3 cans			
Picin/Velsicol	2 boxes			
Talcon L Bait/ICI	1 drum			
Pivalyn/Motomco	3.5 boxes			

Princeps

Round Up

7.5 gal.

10 gal.

6-5 CMB

7.25 OUT

1.25 OUT

6-5-90 CMB

H.1-4

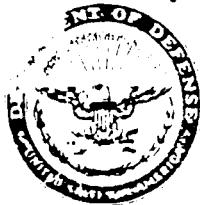
10 gal.

5.0 OUT

6-5 CMB

APPENDIX H.2

OTHER DOCUMENTED PESTICIDE/HERBICIDE LISTS (as received)



IIE-MP

DEPARTMENT OF THE ARMY
U. S. ARMY ENVIRONMENTAL HYGIENE AGENCY
REGIONAL DIVISION-SOUTH
FORT MCPHERSON, GEORGIA 30330

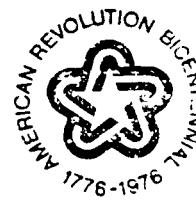
16 AUG 1976

INSTALLATION PEST MANAGEMENT PROGRAM REVIEW NO. 62-522-76
FORT McCLELLAN, ALABAMA
1-5 MARCH 1976

ABSTRACT

This survey was conducted to evaluate the pest management program at Fort McClellan with respect to effectiveness, efficiency, safety and adequacy in surveillance, control and abatement of pest infestations of medical or economic importance and to provide appropriate technical assistance. The Health and Environment Activity pest surveillance program was inadequate due to shortages in equipment and supplies. The Directorate of Facilities Engineering (DFAE), Entomology Section was implementing a good pest control program and had generally adequate resources for this program. The major pest problem observed was a rodent infestation in the commissary salvage room. There were storage and mixing safety problems in the DFAE Forestry and Grounds sections and at the post golf course. The Fire Department had very little information available about pesticide inventories and storage areas on post. Major recommendations include:

- a. Upgrade the pest surveillance program.
- b. Use the most acceptable rodent bait available.
- c. Provide the Fire Department with inventories and floor plans for all pesticide storage areas on post.
- d. Bring pesticide storage and mixing areas into conformity with specifications in Appendix C.
- e. Stop using concrete apron by building 211 as a pesticide mixing site.
- f. Provide adequate protective clothing for all pest controllers.
- g. Clean, reorganize and rodent-proof the commissary salvage area.



Fort McClellan

Jan 25, 1977

MIREX USED

1974

1975

1976

116 LBS

77 LBS

0

Used all over the post. for fire ants
on individual ant nests in fields and grassy
areas, house yards.

This insecticide is extremely toxic at
many ecosystem trophic levels and some
substitute control of fire ants should
be utilized if at all possible.

H. 2-3

Fort Mc Clellan * Range = 1×10^{22}
Alabama (n) *

Sample Volume	Weight (n)	Concentration pp million
average (sample) 152	207	.00170

DDT Levels in Fort Mc Clellan Water Samples.

The 4 samples were from the following four sites at Fort Mc Clellan: 1. Creek through Riley Recreation area. 2. Drainage Sewer, Dumpster Cleaning area. 3. Standing water, Dumpster cleaning area. 4. Off course.

These samples were forwarded to the U.S. Army Environmental Hygiene Agency, for pesticides residue analysis. Entomological Special Study No. 31-011-72. The report was signed by James F. Jones, Capt., MSC, adjutant.

23 Dec 1971

9 Purple Martin houses with 24 units each.

PEST CONTROL SHOP [Bernard C. Naugler]
3 Year Total Pesticides 1974, 1975, 1976. Jan 25, 1977

DIAZINON	0.5% (WATER)	6,523 - GAL.
BAYGON	1.1% (WATER)	1,338 - GAL.
MALATHION	95% (KEROSENE)	166 - GAL.
CHLORDANE	1.0% (WATER)	5,691 - GAL.
PYRETHRUM	3.7% (MINERAL OIL)	8 - GAL.
BAYGON BAIT	2.7% (INERT INGREDIENTS)	32 - LBS.
LINDANE DUST	1.7% (TALCUM POWDER)	46 - LBS.
MALATHION	3.7% (KEROSENE)	36 - GAL.
OIBROME (NALED)	0.8% (DIESEL OIL)	2,558 - GAL.
*MIREX (HEPONE)	.15% (INERT INGREDIENTS)	193 - LBS.
ANTICOAGULANT (RAT BAIT)	0.25%	775 LBS.

* used in 1974, 1975, 1976

INSTALLATION

Fort McClellan, Calhoun Co., AL 36205

PURPOSE/AREA OF INTEREST

Forestry

PERSON CONTACTED

Wm. W. Wagner

TITLE/POSITION PRESENT	YRS AT INSTALLATION	TELEPHONE
PREVIOUS	3	238-3532

QUESTIONS

Education ?
Duties ?

B. S. U. S. C. L. [Berkeley]
Plants [Forestry]

INDIVIDUAL COMMENTS

Timber manager, wildlife habitat & regulation
management for any training & recreational
purposes

We plant Loblolly, Slash, Longleaf Pines, White
oak, Black Walnut. We mix in the future
probably plant Sassafras & Tulip trees.
Rarely put some trees like live for Southern Pine
Bark infestation, Tordon 101 [nickelore acid]*
and Tordon 110*, and 24 D* and 24 5-T.

What pesticides?
Planting?

Will you please provide the
Forestry management plan? It
is used for hardened control [e.g. Standby wire
carga 440', Quercus spp.] and rights of way
for fire lines while 2-4-5-T is used for
granospERM control.

INTERVIEWER

Elmer G. Worthing

DATE Jan 25 1974
Tuesday

1. 20-7-02 10:11 Sat. at 20. 29. ex

1-1½ board feet of new timber per acre [mostly pines but some hardwood]
\$100,000 - 300,000 per acre out \$20 million in sellings.

We have a long term management plan [Forestry Management Plan (by Dr. Wm. Sumner), Ground Management Plan]

Jack Hansen

Installation Assessment
Fort McClellan
Records Evaluation Report 110

April 1977

1. Pesticide and Fertilizer Use

a. Pesticides currently used at Fort McClellan are EPA-registered. All pest controllers are currently certified and are required to be recertified every two years. Facilities for storing pesticides range from marginal to adequate, the major problem being the pre-positioning of safety equipment and adequate ventilation. The mixing of pesticides is conducted on a concrete apron which drains into the sanitary sewer. This practice is prohibited by Army regulations and is under correction. Pesticides used for land management are carried to the application areas as concentrates and mixed there. All surplus pesticides are expended in treatment areas or drained into spray and rinse tanks and used as normal diluent. Empty pesticide containers are triple-rinsed and buried in the sanitary landfill. Rinse water is also used as normal diluent. Fort McClellan maintains a stock of DDT which, by law, is restricted. It is properly secured and has been reported to the Defense Property Disposal Office for disposal.

b. Table II-8 is a list of pesticides used at Fort McClellan during the 3-year period from 1974 to 1976. Herbicides used for 1974 through 1976 is shown in Table II-9. Fertilizer used at Fort McClellan is shown in Table II-10.

2. Ecological Research Program

a. Management of the Red-cockaded Woodpecker Program. There has been an increasing concern on the part of private citizens to conserve particular non-game animal species. A visible result of this concern has been the formation of numerous incorporated and unincorporated private groups which, through public meetings and advertising campaigns, have sought to protect animals of special interest. Such activities have culminated in the passage of various state and federal laws. These, along with increasing attention within the office of the President, the Department of Defense, and the Department of the Army, have resulted in the development of a series of Executive Orders, Department of Defense Instructions, directives, memorandums, and Army Regulations regarding wildlife conservation.

Two laws, Public Law 86-797, Wildlife-Military Reservation Act; and Public Law 93-205, Endangered Species Act of 1973; have reinforced wildlife conservation efforts on Fort McClellan, Alabama, and directed the installation to its present state.

(1) To the extent compatible with the military mission, the natural resources management objectives are to:

FOR OFFICIAL USE ONLY

TABLE II-8. PESTICIDES AND QUANTITY USED AT FORT McCLELLAN
 (1974 THROUGH 1976)

<u>Material</u>	<u>Concentration</u>	<u>Quantity</u>
Diazinon	0.50% (Water)	6,523 gallons
Baygon	1.10% (Water)	1,338 gallons
Malathion	95.00% (Kerosene)	166 gallons
Chlordane	1.00% (Water)	5,691 gallons
Pyrethrum	3.00% (Mineral Oil)	8 gallons
Baygon Bait	2.00% (Inert Ingredients)	32 pounds
Lindane Dust	1.00% (Talcum Powder)	46 pounds
Malathion	3.00% (Kerosene)	36 gallons
Dibrome (Naled)	0.80% (Diesel Oil)	2,558 gallons
*Mirex (Kepone)	0.15% (Inert Ingredients)	193 pounds
Anticoagulant (Rat Bait)	0.25% (Inert Ingredients)	775 pounds

* Used in 1974 and 1975 only.

TABLE II-9. HERBICIDES AND QUANTITY USED AT FORT McCLELLAN

Name	1974	1975	1976
Silvex	8,000 gallons		
24D	7,200 gallons	6,000 gallons	4,800 gallons
245T	1,800 gallons		10,000 gallons
OIN DMA	12,000 gallons		
Silvex		18,480 gallons	41,460 gallons
Pichloram (#160)		4,000 gallons	
Arsenicorg		8,000 gallons	6,400 gallons
OPH (Tordon 101)		20,300 gallons	
OINDMA		4,000 gallons	
OPN (FORE)			1,200 gallons

Final Environmental Impact Statement
of Ongoing Mission Ft. McClellan

May, 1980

Appendix G

LIST OF PESTICIDES CURRENTLY BEING USED OR STORED FOR FUTURE DISPOSAL

NSN	Nomenclature	Quantity on Hand
1.	Baygon 1.5 Emulsifiable Insecticide	
2. NSN	EPA Reg. No. 3125-214-Za	12 gal
3. 6840-00-498-4057	Pivacrin Concentrate Rodenticide	24 lbs
4.	Baygon 2% Bait Insecticide	15 lbs
5. 6840-00-149-0106	Pivalyn Concentrate, Water Soluble USDA Reg. No. 3240.3	120 grams
6. 6840-00-082-2541	Resmethrin Insecticide	240-12 oz cans
7. 6840-00-242-4217	Insect Repellent Spray	72-6 oz cans
8. 6840-00-926-1481	Insecticide, Lindane, Powder, Dusting	48-2 oz cans
9.	Malathion, Tech. Grade 95%	55 gal
10. 6840-00-270-8262	Diazinon 50W Insecticide EPA Reg. No. 100-4060-AA	25 lbs
11.	Chlordane, Tech. Grade 72%	25 gal
12. 6840-00-782-3925	Oil Conc. No. 3610, Pyrethrins EPA Reg. No. 655-450	5-1/2 gal
13. 6840-00-685-5437	DTOX 4E Insecticide Diazinon Emulsifiable Concentrate	18 gal
14. 6840-00-926-9163	Malathion, 57%	4-55 gal drums
15.	Dibrom 14 Concentrate Naled 85%	20 gal
16. 6840-00-145-0016	Spray Adjuvant Ortho Phostoxin Tablets, 55% Aluminum Phosphide	21 gal
17. 6840-00-442-5698	Phostoxin Pellets, 55%	9.45 oz
18. 6840-00-181-7311	Aluminum Phosphide	2 lbs 3 oz
19. 6840-00-242-4219	Vapona Insecticide Resin Granules, 20%	60 lbs
20.	Lindane Powder, Dusting, 1%	50 lbs
21. 6840-00-543-7825	Lindane Water Dispersible Powder, 75% 51-1-167-75	40 lbs
22.	Chlordane, Dust Tech Grade, 5%	75 lbs
23.	Insecticide Std. Lead Arsenate Water 20% total arsenic	5 gal
24. 6840-00-264-6692	Cyanogas Veneno, 42% Calcium Cyanide USDA Reg. No. 241-5	25 lbs
25.	Insecticide DDT Water Dispersible Powder, 75% DDT	120 lbs
	Dyrene Grass Controller USDA Reg. No. 2720480	48 lbs

NSN	Nomenclature	Quantity on Hand
26.	DED-WEED LV 9	275 gal
27.	DED-WEED SILVEX LV	145 gal
28.	DED WEED LV 9	96 gal
29.	2,4-D Amine #4 Weed	75 gal
30.	Dalapon Grass Killer	1750 lbs
31.	Herbicide, Disodium Methanaisoionate, 63%	6100 lbs
32.	AAtrex 80W Weed Control EPA Reg. No. 100-439-ZA	210 lbs
33.	Herbicide, 20 Mule Team Maintain CF	125 6 gal
34.	Tandex 80 Soil Sterilant Herbicide	
35.	Karbutilate 80%, EPA Reg. No. 279-2721	300 lbs
36.	Tordon 10K Pellets Brush Killer EPA Reg. No. 464-320-AA	2005 lbs
37.	Tordon 101 Mixture Brush Killer	
38.	USDA Reg. No. 464-306 Telvar Monuron Weed Killer	300 gal
	Crabgrass Killer	100 lbs
		35 gal

Spill Prevention Control and Countermeasures
and
Installation Spill Contingency Plan

January, 1990

TABLE III

Pesticide/Herbicide Inventory

AERO-BIG BLAST	ROACH RID
PT 565	AMDRO
DURSBAN 4E	DRIONE
DURSBAN 50W	SOAK-UP
DURSBAN TURF	MALATHON 50%
FINAL	KILLMASTER
PIVACIN	XRTABAN
SEVIN	HYVAR XL
OUST	DURSBAN LO
PRE-SAN EMULSIFIABLE	BIRD REPELLENT
ORTHO (CHINCH-BUG)	ROUNDUP
DURSBAN TC	ORTHO (BUG-GETA)
DIAZINON 2E	MALATHON ULV
MALATHON 57%	TERMIDE
TALONG	

APPENDIX H.3

**ANALYTICAL RESULTS OF SAMPLES FROM
HERBICIDE/PESTICIDE MIXING AREA**

EXCERPT FROM

**U.S. ARMY ENVIRONMENTAL HYGIENE AGENCY
HAZARDOUS WASTE CONSULTATION NO. 37-26-1649-88
DECEMBER 8 - 12, 1986**

Hazardous Waste Consultation No. 37-26-1649-88, 8-12 Dec 86

TABLE A-1. ANALYTICAL RESULTS OF SAMPLES FROM HERBICIDE/PESTICIDE MIXING AREA

Constituent	Detection Level(ppm)	Sample Number 008(ppm)	Sample Number 009(ppm)
alpha-BHC	0.003	ND	ND
beta-BHC	0.010	•	•
delta-BHC	0.010	•	•
lindane	0.004	— ND	ND
O,P'-DDD	0.020	•	•
P,P'-DDD	0.016	•	•
P,P'-DDE	0.016	•	•
O,P'-DDE	0.020	•	•
O,P'-DDT	0.020	•	•
P,P'-DDT	0.030	1.75	1.02
aldrin	0.021	•	•
dieldrin	0.012	0.32	0.13
endrin	0.021	ND	ND
chlordanne	0.060	ND	ND
metabolized chlordanne/ total constituents	0.060	19.15	5.02
heptachlor	0.003	†	ND
heptachlor epoxide	0.008	•	•
cis-chlordanne	0.008	†	†
trans-chlordanne	0.008	†	†
oxychlordanne	0.008	•	•
methoxychlor	0.080	0.096	1.16
Mirex ®	0.020	ND	ND
toxaphene	0.800	ND	ND
PCB-1242	0.200	•	•
PCB-1248	0.200	•	•
PCB-1254	0.200	•	•
PCB-1260	0.200	ND	ND
chlorpyrifos	0.200	ND	ND
ronnel	0.010	ND	ND
diazinon	0.052	ND	ND
methyl parathion	0.030	ND	ND
parathion	0.020	ND	ND
malathion	0.010	ND	ND
2,4-D (as methyl ester)	0.010	‡	‡
2,4,5-T (as methyl ester)	0.004	‡	‡
silvex (as methyl ester)	0.004	‡	‡
HCB	0.003	ND	0.03

NOTES: Samples analyzed by USAEHA laboratories, or approved contract laboratories, in accordance with procedures outlined in EPA Manual SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, 2d edition, July 1982.

* Unable to effect separation of any low levels of this compound due to the high levels of chlordanne constituents.

† Included in metabolized chlordanne/total constituents.

‡ Not screened for in this sample, unable to overcome high buffering capacity of the soil using present methods.

ND - Not Detected

® Mirex is a registered trademark of Allied Chemical Corporation, Morristown, New Jersey.