

R

AD-A286 054

E

Form Approved
OMB No. 0704-0188

Public reporting burden for
gathering and maintaining
collection of information, if
Davis Highway, Suite 1204,



se, including the time for reviewing instructions, searching existing data sources,
ation. Send comments regarding this burden estimate or any other aspect of this
ers Services, Directorate for Information Operations and Reports, 1215 Jefferson
Paperwork Reduction Project (0704-0188), Washington, DC 20503.

1. AGENCY USE ON

05/00/75

2. REPORT TYPE AND DATES COVERED

4. TITLE AND SUBTITLE

INTERIM REPORT ON PESTICIDE LEVELS IN FISH COLLECTED 20 MARCH 1975 FROM
LAKE LADORA AT ROCKY MOUNTAIN ARSENAL

5. FUNDING NUMBERS

6. AUTHOR(S)

CAIN, J.

7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)

DUGWAY PROVING GROUND (UT.). LIFE SCIENCE LABORATORY DIVISION
DUGWAY, UTAH

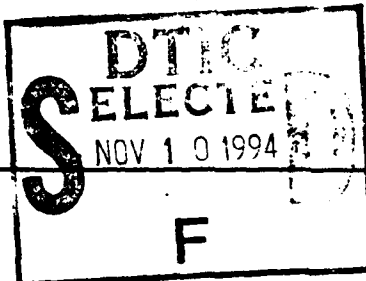
8. PERFORMING ORGANIZATION
REPORT NUMBER

84296R03

9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)

10. SPONSORING/MONITORING
AGENCY REPORT NUMBER

11. SUPPLEMENTARY NOTES



94-34865



12a. DISTRIBUTION/AVAILABILITY STATEMENT

APPROVED FOR PUBLIC RELEASE; DISTRIBUTION IS UNLIMITED

12b. DISTRIBUTION CODE

13. ABSTRACT (Maximum 200 words)

THE LEVELS OF PESTICIDES (ALDRIN AND DIELDRIN) MEASURED IN FLESH
(EDIBLE PORTION) OF FISH CAUGHT FROM LAKE LADORA DURING JUNE 1973
TO JANUARY 1975 HAD NOT EXCEEDED 0.1PPM. DURING MARCH 1975, SIX
LARGEMOUTH BASS WERE HARVESTED FROM LAKE LADORA AND SENT TO DUGWAY FOR PESTICIDE
ANALYSIS. THE LEVELS OF DIELDRIN IN THESE FISH ARE HIGHER THAN THOSE
PREVIOUSLY REPORTED FOR LAKE LADORA AND ACCORDING TO THE WORLD HEALTH
ORGANIZATION (WHO) RECOMMENDATIONS ARE POTENTIALLY HARMFUL. MONITORING OF THE
ALDRIN AND DIELDRIN LEVELS IN FISH FROM LAKE LADORA WILL CONTINUE ON A QUARTERLY
BASIS OR MORE FREQUENTLY IF DEEMED NECESSARY.

14. SUBJECT TERMS
TOXICITY

15. NUMBER OF PAGES

16. PRICE CODE

17. SECURITY CLASSIFICATION
OF REPORT
UNCLASSIFIED18. SECURITY CLASSIFICATION
OF THIS PAGE19. SECURITY CLASSIFICATION
OF ABSTRACT

20. LIMITATION OF ABSTRACT

~~OFFICIAL USE ONLY~~

Rocky Mountain Arsenal
Information Center
Commerce City, Colorado

FILE COPY

84296R03
2nd copy

INTERIM REPORT ON PESTICIDE LEVELS IN FISH COLLECTED 20 MARCH 1975
FROM LAKE LADORA AT ROCKY MOUNTAIN ARSENAL

(TRMS NO. 5-CO-523-ECP-005)

Account	
NTIS	
DTIC	
Unannounced	
Justification	
By	
Distribution	
Availability	
Dist	Avail
A-1	

MAY 1975

Protective Marking
CANCELLED Upon Completion
of Project

LIFE SCIENCES LABORATORY DIVISION
U.S. ARMY DUGWAY PROVING GROUND
DUGWAY, UTAH 84022

~~OFFICIAL USE ONLY~~



~~OFFICIAL USE ONLY~~
DEPARTMENT OF THE ARMY
U. S. ARMY DUGWAY PROVING GROUND
DUGWAY, UTAH 84022

STEDP-TO-L

20 MAY 1975

SUBJECT: Interim Report on Pesticide Levels in Fish Collected
20 March 1975 from Lake Ladora at Rocky Mountain
Arsenal

Commander
Rocky Mountain Arsenal
Denver, Colorado 80340

Forwarded for your information and retention is a report on
pesticide levels in fish from Lake Ladora at Rocky Mountain
Arsenal.

FOR THE COMMANDER:

Jason H. Cain Jr.
JASON H. CAIN, Jr.
LTC, TC
Executive Officer

1 Incl
as

CF:
CDR, TECOM (AMSTE-NB)
CDR, EA (SAREA-BL-E, Dr. Prescott Ward)

This marking is CANCELLED when
separated from the material
bearing a protective marking

~~OFFICIAL USE ONLY~~

1. REFERENCES:

Interim Report on Pesticide Levels in Fish from Two Industrial Lakes at Rocky Mountain Arsenal, March 1975.

2. INTRODUCTION:

In the referenced report the levels of pesticides (aldrin and dieldrin) measured in flesh (edible portion) of fish caught from Lake Ladora during June 1973 to January 1975 had not exceeded 0.1 ppm. Based on World Health Organization (WHO) recommendations the maximum allowable limits in foodstuffs for human consumption are 0.02 to 0.2 ppm.

3. FINDINGS:

During March 1975 six largemouth bass were harvested by rod and reel from Lake Ladora by RMA personnel and sent to DPG for pesticide analysis. Results are as follows:

Sample No.	Tissue Analyzed	Weight (grams)	Aldrin (ppm)	Dieldrin (ppm)
1	flesh (edible portion)	386	<0.1	0.31
2	flesh (edible portion)	579	<0.1	0.27
3	flesh (edible portion)	412	<0.1	0.15
4	flesh (edible portion)	553	<0.1	0.22
5	flesh (edible portion)	433	<0.1	0.16
6	flesh (edible portion)	444	<0.1	1.04

4. CONCLUSION:

The levels of dieldrin in these fish are higher than those previously reported for Lake Ladora and according to WHO recommendations are potentially harmful.

5. FUTURE ACTIONS:

Monitoring of the aldrin and dieldrin levels in fish from Lake Ladora will continue on a quarterly basis or more frequently if deemed necessary.