(400 65, 92 NALED 1\*\55\51 011 "H 1 -- 034401 ales ( 1,2 mc/nromo má, ambienlo roethyl- o HRA JOH EEB - 0180 4 TUPIL 151 3540 FURTHERITOR 9. \* FOR CLATTER FOR THE CTIFIED FICHE/MASILK IN 00074679 CONTEST CAT 1 Sooder J.F.; White, 4.C.; Carter, 3.; et al. (1967) Field Observations on the offices of ultramion volume Application of Dinnom on Fish and Wildlife in South Florica. (Unpublished study received Nov 14, 1967 under unknown admin, no.; prepared in cooperation with U.S. Fish and eligife Service, Civ. of Fishery dervices and biy, of wildlife dervices and w.S. Dept. of the Air Force, sunmitted by Chevron Chamical Co., Richmond, Calif.; CFL1128668-A) SUBST. CLASS ≈ S. OTHER SUBJECT RESERVENCES PRIMA 568 #55# ,5154 SEC: EEd #4/# -51/3541 EER -49-05163542 EEB +40+65123543 EER =4 .= 51 35 15 FER -43-751 3547 DIRECT RVA (1948 # . (AH) START≒CATE END DATE REVIEWED BY: Kik borbeherd TITLE: Wildia Biologist UIG: HED-EEB LOC/TEL: CML-1121/557-1121 DATE: 25 less & L SIGNATURE: KU a APPROVED EY: TITLL: 11.6 LOC/Ich:

' BEST AVAILABLE COPY

DATE:

SIGNATULES

## DATA EVALUATION RECORD

Chemical: Naled

2. Formulation: Ortho Dibrom 14

- 3. Citation: Goode, J.P.; White, A.C.; Carter, E.; et al. (1967) Field observations on the Effects of Ultra-low volume Application of Dibrom on Fish and Wildlife in South Florida. (Unpublished study received Nov. 14, 1967 under unknown admin. no.; prepared in cooperation with U.S. Fish and Wildlife Service, Div. of Fishery Services and Div. of Wildlife Services and U.S. Dept. of the Air Force, submitted by Chevron Chemical Co., Richmond, Calif.; CDL: 128668-A) I.D.#00074679.
- 4. Reviewed by: Kyle Barbehenn, Wildlife Biologist
  Ecological Effects Branch
  Hazard Evaluation Division (TS-769)
- 5. Date reviewed: September 28, 1982
- 6. Test type: Field study
- 7. Reported results: "On the basis of this test, it is concluded that ULVC Dibrom, applied at the rate of 0.6 ounces per acre, will not significantly affect either fish or wildlife of the type found in the test area.
- 8. Reviewer's Conclusions: Within the limitation of the study, the author's conclusions appear to be reasonable. This study does not fulfill any guideline requirements for naled.

## Materials/Methods

Test Procedures:

A ULV aerial application of 0.6 oz Dibrom 14/acre (0.06 lb. naled) was made in an area of mangrove, marshes and poorly drained land in South Florida. Application to the area was verified by chemical sensitive cards but the actual amount reaching the surface was not determined. A brief pre-treatment survey of fish and wildlife was made by a variety of nonquantitative methods. Fish and rodents were collected before and after treatment for determination of brain cholinesterase levels.

Statistical Analysis: N/A

Discussion/Results:

Observations immediately after application were limited to about an hour before darkness and overnight flushing of tidal creeks and scavenging by crabs could have reduced evidence of mortality. Four fingernail-size blue crabs were found dead in a shallow area but there was no other evidence of mortality to aquatic insects, fish, birds, or mammals. A slight increase in brain cholinesterase levels was found in both fish and rodents but the significance of this is unknown.

Reviewer's Evaluation:

Procedure: The methods used should have sufficed to detect any massive

mortality.

Statistical Analysis: N/A

Discussion/Results:

The conclusions regarding fish, birds and mammals are probably reasonable but there remain some uncertainity regarding effects on crustaceans. Since the amount of pesticide deposited is unknown, one can not judge how typical this application was and the ability to extrapolate is limited.

Conclusions:

Validation Category: Supplemental

Category rationale: Some useful information was gained but the study is not comprehensive.

Category Repairability: None

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