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| item D Namber | 05591 Net Seamed |
|----------------------|--|
| Author | Young, Alvin L. |
| Corporate Author | |
| Report/Article Title | Outline Report of the Agent Orange Working Group Science Panel Subcommittee on Exposure, November 1982 |
| Journal/Book Title | |
| Year | 0000 |
| Month/Day | |
| Coler | |
| Number of Images | 0 |
| | |

Descripton Nates

Outline Report of the
Agent Orange Working Group
Science Panel
Subcommittee on Exposure
Alvin L. Young
VA/AOPO
November 1982

Factors that must be considered in the development of an exposure index model include nature of the chemical and target, time after application of the herbicide and distance from application site.

- I. Factors that Influenced Exposure to Herbicide:
 - * Herbicide Formulation

Chemical/Physical Characteristics Solubility Vapor Pressures

Dissemination of Herbicides

Application Parameters Target Vegetation

Route of Exposure

Dermal Inhalation Ingestion

Environmental Fate

In Air On Vegetation In Soil In Water

II. Dissemination System

- 1. RANCH HAND KC 123/A/A45Y-1 Dispenser Internal Defoliant
- 2. UH-1B/D Helicopter Spray System (Agrinautics)
- 3. Buffalo Turbines

- 4. Power-Driven Decontamination Apparatus (PDDA)
- 5. Back-Pack Sprayers (2 and 5 gallons)
- 6. "Jerry-Rigged" or Field Expedient Devices.

III. Factors described by Weighted Systems

- A. Toxicity of Herbicide
- B. Fate of TCDD

Location of Mission Jungle Mangrove Crop Other

C. Type of Mission

RANCH HAND Perimeter Herbicide Abort occurrence

D. Time After Exposure

Days

- ° within 1
- ° within 2
- ° within 3
- E. Distance from Exposure Type (Application Site)
 - within 0.5 km
 - ° within 1.0 km
 - ° within 1.5 km
 - ° within 2.0 km

IV. Assignments of Weights

| • Toxicit | y of Herbicides | Weight Score |
|-----------|-----------------|--------------|
| Orange | 600 mg/kg | 5 |
| Blue | 2600 mg/kg | 2 |
| White | 3100 ma/ka | 1 |

Location of Mission

Defoliation Jungle (Heavy Canopy) 10% Penetration 1 Mangrove (Light Canopy) 32% 3 Crop/Abort Missions 100% 10 Perimeter Applications 70% 7

Time/Distance Matrix*

| Time | | | Dista | nce (km) | | |
|------|---------------------------------------|----------------|----------------|----------|-----|------------------------|
| Days | · · · · · · · · · · · · · · · · · · · | <0.5 | 1.0 | 1.5 | 2.0 | |
| . | 1 | 70 | 15 | 10 | 5 | RANCH HAND Application |
| | 2 | 35 | 8 | 5 | 3 | |
| | 3 | 18 | 4 | 3 | 1 | -) |
| , | | Perim Appli | eter cation | <u> </u> | | - . |

^{*} Values in Time/Distance matrix established in percent of herbicide particles falling within specified distance from height of release (RH Mission) and impact of environmental degradation or binding over specified time intervals.