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Corporate Author	
Report/Article Title	Typescript: Working Paper: Exposure estimate to dioxin containing herbicides for veterans who served in South Vietnam during SEA conflict
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Number of Images	13

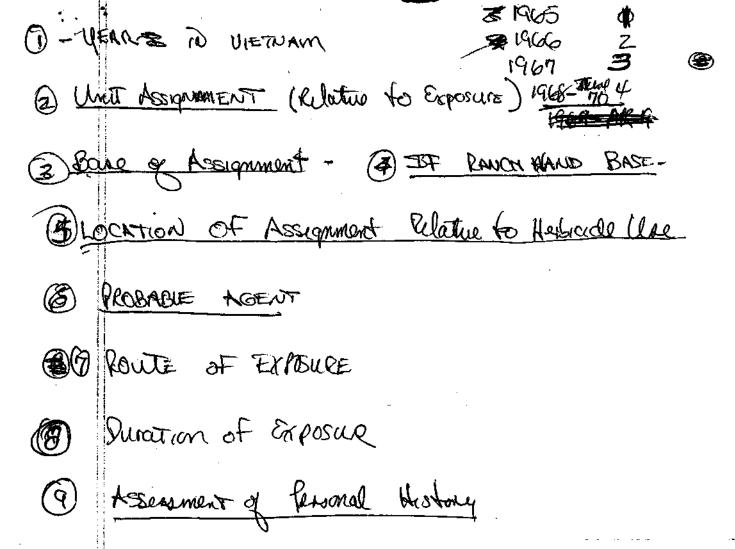
Descripton Notes

Working paper provides a method of rating exposure based on Veteran's year in Vietnam, unit assignment, base assignment, etc. Includes a draft of working paper and examples of veteran exposure (no names provided) based on the rating system.

EXPOSIDE ESTIMATE FOR VETERAND SERVIRED plane sea Conflict IN VIETNAM YEAR use your bouring most DAITE RATING Hondres & incommentary from 662-1965 19 66 or Prid. 1967 1968- 1970 1971-1913 Unit Assignment Relative to Exprence RANCH HAND HELICOPTER CREWMAN HANDLER/LOADER (NON RANCHHAND) CROND TROOP (MISCL) ASSIGNMENT BASE RATING RANCH HAND BASE TON SON WHILT (\$62-1940) BIEN HOA (1966-1970) DM NANG (1966-1970) PHW CAT. (1967-1970) LONDING DOCK- SAIGOR. < NON-KANGH HAND BASE Relative to Hexical Wie LOCATION OF ASSIGNMENT RUN Prouncelles Heavy in Province (5) 87 Moderate une

5. PROBABLE AGENT OF EXPOSURE Primarily Orange Hal a thigh Route of EXPOSURE TO TEDE RATTUG INHAlA ton / Percutaneous INhalation INGESTION 7. DURATIONS OF SHOW ME WEEKS DAYS 15 30 days Assessment of Personal History 8 - 15 day Probability Likely possible Unlikely

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	Vas se individual
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	Army/Marine -1 ORANGE/BLUE
	ARMY/Marine, -1 ORANGE/BLUE ORANGE/BLUE
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	Malathion 0
	RANCH HANDER
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:	LOADER/HANdIER (NON RANCH HAND) \$ Z None of above (Glound Froop) \$ 1
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	LOCATION ASSIGNED RANGHAND BASE 2
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	Duration of Exposure General Area of heavy has
:	MONTHS 3 Area of Halende use



Time in VIETNAM -LOCATION IN VIETNAM RANCH HAND BASE TON SolMhut BAcgari) # DA NANG PROUINCE, SITHATION Phy CAT BIEN HOA HANDLER AIR CrEW Ground Troop Perimeter & Probable AgENT littihood Malatheon B/HE White Orange Blue + Orange = 1 Helicopter C-123 Sprayed during combar Observations o wow the individual assigned All Force to RANCH HAND Army · Was the interedical assigned at fance HALLD Break Marines

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#### WORKING PAPER

## EXPOSURE ESTIMATE TO DIOXIN CONTAINING HERBICIDES FOR VETERANS WHO SERVED IN SOUTH VIETNAM DURING SEA CONFLICT

### 1. YEAR IN VIETNAM

<u>Date</u>	Rating
1966 or prior	2
1967	4
1968-1970	6
1971-1973	1

### 2. UNIT ASSIGNMENT RELATIVE TO EXPOSURE

<u>Assignment</u>	Rating	
RANCH HAND Squadron	8	
Helicopter Crewman	4	
Handler/Loader (non RANCH HAND)	2	
Ground Troop (Misc)	1	

#### 3. BASE OF ASSIGNMENT

<u>Base</u>	Rating	Rating if after 1970
RANCH HAND Base Bien Hoa (1966-1970)	6	2
Da Nang (1966-1970)	Š	2
Phu Cat (1967-1970)	6	2
Ton Son Nhut (1962-1966)	3	1
Loading Dock (Saigon)	2	· 1
Non RANCH HAND Base	1	0

#### 4. LOCATION OF ASSIGNMENT IN RVN RELATIVE TO HERBICIDE USE

	<u>Use</u>	Rating
Province(s)	of Heavy Use of Moderate Use	3
Province(s)	of Moderate Use	2
Province(s)	of Light Use	1

#### 5. PROBABLE AGENT OF EXPOSURE

<u>Agent</u>	Rating
Primarily Orange	6
Orange/Blue/White	3
Malathion	0

- A. Service Branch and Dates:
- B. Military Occupation:
- C. Vietnam Organizational Unit:
- D. Vietnam Service Location and Dates:
- E. Defoliant Exposure:
- F. Immediate Symptoms:

1.	В.	SERVICE BRANCH AND DATES: Air Force, 1/6/67 to 1/5/71 MILITARY OCCUPATION: Aircraft Mechanic 43151F VIETNAM ORGANIZATIONAL UNIT: 35th Tactical Airlift Squadron (PACAF),
	D.	Naha Air Base VIETNAM SERVICE LOCATION AND DATES: Okinawa, 6/30/67 to 12/6/68; Cam
	E. F.	Rahn Bay 10/3/67 to 10/16/67 DEFOLIANT EXPOSURE: Unknown exposure; located away from exposure site IMMEDIATE SYMPTOMS: None given
		EXPOSURE RATING
6.	₿.	SERVICE BRANCH AND DATES: Marine Corps, 2/7/66 to 6/2/69 MILITARY OCCUPATION: Infantryman, machine gunner 0300, 0331 VIETNAM ORGANIZATIONAL UNIT: 1st Marine Div., 1st Marine Reg., 3rd Bn.,
	D.	Co. I VIETNAM SERVICE LOCATION AND DATES: Danang & 5 mi. south of Danang Aug. 66
	E.	to Jan. 68, Phipui Jan. 68 to Mar 68 DEFOLIANT EXPOSURE: Direct, mild exposure of unknown duration; working in open or in foxholes in areas after spraying; drank from
	F.	lakes and rice paddies continuously IMMEDIATE SYMPTOMS: None given
		EXPOSURE RATING
8.	B. C. D.	SERVICE BRANCH AND DATES: Army, 6/19/69 to 6/10/70 MILITARY OCCUPATION: Rifleman, assistant gunner 11B10 VIETNAM ORGANIZATIONAL UNIT: Co.A, 3rd Bn, 21st Infantry Bde. Americal Div. VIETNAM SERVICE LOCATION AND DATES: Chu Lai, 12/10/69 to 12/9/70 DEFOLIANT EXPOSURE: One direct, mild contact of 2-3 days in jungle on foot, cutting trails and setting up camp; drank from streams, artesian wells, rice paddie - late 1969; early 1970
	F.	IMMEDIATE SYMPTOMS: None given
		EXPOSURE RATING
9.	A. B.	SERVICE BRANCH AND DATES: Army, 11/1/66 to 11/20/69 MILITARY OCCUPATION: Heavy vehicle driver, clerk, laundry worker 64B20,
	c.	70A10, 57A10 VIETNAM ORGANIZATIONAL UNIT: 81st Quartermaster Platoon, 158th SS Co, 3rd
	D.	Maint Bn. VIETNAM SERVICE LOCATION AND DATES: Saigon, Song Be Loading Zone 5/23/69 to
	E.	DEFOLIANT EXPOSURE: Repeated indirect exposure for about 6 mon. during which drove water truck from lake to loading zone. Agent Orange & Agent White stored in loading zone area. Ate
	F.	and drank lake water in area.  IMMEDIATE SYMPTOMS: Rhinitis and back pain
		EXPOSURE RATING

10)	A. B. C.	SERVICE BRANCH AND DATES: Army, 6/19/67 to 6/18/70 MILITARY OCCUPATION: Chemical equipment repairman 54D20, 54D40 VIETNAM ORGANIZATIONAL UNIT: 27th Chem Detach, 196th Inf. Bde.,
47	D.	Americal Div. VIETNAM SERVICE LOCATION AND DATES: Entire, especially northern, I Corps
1 <sup>3</sup> 1	Ε.	Area, 5/31/69 to 5/30/70 DEFOLIANT EXPOSURE: Severe, direct, repeated and prolonged exposure to Agents Orange, Blue, and White; handled bulk chemicals, sprayed agents from helicopter, entering areas of spills and sprays, eating from utensils and drinking water that
	F.	had been contaminated. IMMEDIATE SYMPTOMS: None given
		EXPOSURE RATING
11.	С.	SERVICE BRANCH AND DATES: Army, 3/29/68 to 3/28/70 MILITARY OCCUPATION: Military policeman, Door gunner 95B10, 67A1F VIETNAM ORGANIZATIONAL UNIT: Co C 716th MP Bn, 121st Avn Co VIETNAM SERVICE LOCATION AND DATES: Soc Trang, Rach-Gia VMH Force, Seven Virgin Mt. 8/22/68 to 10/30/69
	E.	DEFOLIANT EXPOSURE: Severe, direct, repeated prolonged exposure 10-12 hours daily every 4 or 5 days for 9 mons. as helicopter door gunner and crew chief. Loaded drums, put chemicals into compressors, cleaned helicopter, and sprayed; in contaminated areas; ate and drank water in them.
	F.	IMMEDIATE SYMPTOMS: None Given
		EXPOSURE RATING
12.	A. B. C.	SERVICE BRANCH AND DATES: Army, 8/4/69 to 8/3/71 MILITARY OCCUPATION: Medical corpsman, Medical specialist 91B20 VIETNAM ORGANIZATIONAL UNIT: HHC, 1st Bn, 35th Inf. 4th. Div; HHC 3rd Bn,
	D. E.	8th Inf, 4th Inf. Div. VIETNAM SERVICELOCATION AND DATES: Plieka, Ankhy 1/13/70 to 8/30/70 DEFOLIANT EXPOSURE: Direct, mild (also "unknown") exposure as combat medic during 7 mon. in field.
	F.	IMMEDIATE SYMPTOMS: None
		EXPOSURE RATING
13.	В. С.	SERVICE BRANCH AND DATES: Army, 2/12/70 to 3/29/72 MILITARY OCCUPATION: Clerk typist 71B40 VIETNAM ORGANIZATION/L UNIT: 179th Aviation Co. VIETNAM SERVICE LOCATION AND DATES: Pleiku 7/4/70 to 5/15/71 DEFOLIANT EXPOSURE: spraying as perimeter supervisor in DMZ (but in bult-in quarters), entered sprayed areas and drank from Dung Ha River in Camlo. Also notes exposure at "Camp Holloway-October before"
	F.	None Given
		EXPOSURE RATING

- 14. A. Army, 1/23/67 to 2/26/71 Helocopter pilot, RW Plt. Obsn, Util & Lt Cgo, Anstr. Plt. 062 DO, 100B, 100BC 1st Squadron, 9th Cavalry, 1st Air Cavalry Div., 1st Bn, 40th Artillary, 108th Artillary Group I & III Corps Areas, 5/6/68 to 4/29/69 Severe, direct, repeated exposure flying open airplane & helicopter through spray while on scouting missions; men had moisture on them from spray. F. None given
  - EXPOSURE RATING
- 15. Α. Army, 10/26/65 to 10/25/67 Lt weapon infantryman В. 11B20
  - С. Co B 2nd Bn, 27th Inf
  - Cu Chi 4/20/66 to 4/19/67
  - 10 direct, mild exposures during one month while spraying around perimeter with hand sprayer; ate and drank water from rice paddies
  - Rash on legs, occasional diarrhea

<b>EXPOSURE</b>	DATING	
TYLOSOKE	KWITMO	

- A. Army, 6/14/67 to 6/13/69
  - Field Artillaryman Basic 13A10
  - С. HHB, 10th Arty Gp.

  - Dong Ha (sp.) 11/15/67 to 11/14/68 Severe, direct, repeated, prolonged exposures when base where he was bunker guard was sprayed with chemicals; possibly used contaminated utensils and water
  - None given

<b>EXPOSURE</b>	RATING

Air Force 3/22/64 to 3/21/70

Pavement mgt. specl., Pavement mgt. supv. 55150, 55170

819th CES, 3CES Ç.

- Phu Cat Air Base, Bien Hoa Air Base 9/3/66 to 7/5/67, 10/3/68 to 10/3/69
- More than 60 severe, direct, repeated, prolonged exposures while working (at Bien Hoa) in mixing and loading areas; during transport of "barrels" of chemicals, burst drums would get him damp or soaked usually without showers or clothes changed until night; also mixed and hand sprayed. Repeated use of Orange ("do to orange band on drums in Viet"), 2, 4D, "2,4T", and DDT in U.S. and overseas.
- F. None Given

<b>EXPOSURE</b>	RATING
EMI 00011G	1011 0110

- 24. A. Army 11/30/67 to 1/14/70
  - Lt. weapon infantryman 11 B 40
  - Ç. Co E, 4 Bn, 39th Inf. 9th Inf. Div.
  - 7/29/68 to 4/1/69 D.
  - Ε. Repeated, direct and indirect exposure in the field when sprayed and drinking from contaminated streams
  - F. None

<b>EXPOSURE</b>	<b>RATING</b>			

- 25. A. Army, 12/14/65 to 2/6/70
  - B. "Communications" not given
  - C. Not given
  - D. Camp Evans (15 mi. south DMZ) Feb. 1969 to Oct. 1969
  - E. Several repeated, short (30-60 min.) direct exposure; while installing field telephone equipment, planes flew over and sprayed "insecticide (?)"; felt material (defoliant) falling on shoulders.
  - F. Possibly recurring dry, patchy areas on back and shoulders

EXPOSURE	RATING	



- A. Air Force 12/9/65 to 3/1/69
- B. Aircraft Mechanic 43151A
- C. 12AC Sq (PACAF)
- D. Bien Hoa AB 7/12/67 to 7/7/68
- E. Severe, direct, repeated exposure for 1 yr. while in charge of "herbicide" unit, handling and pumping into aircraft tanks Agents Orange, White, and Blue; breathed fumes and "swam in it"
- F. None given

#### EXPOSURE RATING

- 27. A. Army 2/21/67 to 2/20/67
  - B. Lt. Weapons infantryman 11B20
  - C. Co,C, 3rd Bn. 87 Anf., 40 Inf. Div.
  - D. Pleiku 8/12/67 to 8/7/68
  - E. Unknown number of direct and indirect exposures while in jeep in areas where chemicals were used and trees were "Naked"; sprayed directly; bathed in bomb craters and rivers after spraying.
  - F. No immediate symptoms. 4-6 weeks later had tingling of hands and feet with swelling; insomnia from pain; stiffness of fingers and toes; back pain and hematemesis

#### EXPOSURE RATING

- 28 A. Army, 3/19/68 to 3/18/71
  - B. Personnel specialist 71H40
  - C. 518th AG PSC AAFNK, 54th General Support GR, Com Rahn Bay Support Command
  - D. Dalat LSA, Cam Rahn Bay, Central Highlands 6/13/70 to 3/11/71 In LSAs: Phran Rang, Nah Trang, Bam Me Thout, Phan Fiet, Praline Mt. Area
  - E. Repeated exposure of unknown intensity and frequency while in logistical support convoys going through defoliated areas; ate locally grown vegetables and fruits
  - F. None

EXPOSURE	RATING	

- 29 A. Army 2/1/66 to 1/3/69
  - B. Personnel specialist, "finance" 71H2O
  - C. 32nd Med. Depot Has
  - D. Near Cam Rahn Bay 5/4/67 to 12/7/68
  - E. Many repeated, indirect, prolonger exposure of uncertain intensity when driving through contaminated areas; lived on local economy with VN national while assigned to headquarters
  - F. None given

EXPO	)SURE	RATING	

- 30 A. A. Army 6/24/70 to 7/2/74
  - B. Light and heavy vehicle driver, truckmaster 64A10-30
  - C. HHD 160th Signal Group, Stratcom Signal Brigade
  - D. II Corps Area, Hq Longbink Port 3/29/69 to 3/28/70, 8/29/70 to 6/4/71
  - E. Repeated, direct, severe exposure when sprayed around base by planes 2-3 times each week for prolonged periods; felt spray coming down, was on clothes and skin, probably drank contaminated water and ate in sprayed mess hall.
  - F. Caused repeated coughing, made asthma worse, requiring one hospital visit (24th Evac)

EXPOSURE RAT	ING
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- 34 A. Army, 4/21/66 to 4/20/68
  - B. Infantryman, Indirect Fire Crwmn 11C20
  - C. Co E 4th Bn 39th Inf 9th Inf. Div
  - D. Dong Taung, Long Ben 12/3/66 to 12/8/67
  - E. Repeated direct exposure while in air mobile infantry going into sprayed areas, was in open, in fox holes, and in helicopters; "everything was covered with grey material; I thought it was phosphorus"
  - F. None given

EXPOSURE	RATING	 	