itan ii) Number	02341
Author	
Corporate Author	
Report/Article Title	Typescript: Seveso Scientific Review, June 9-16, 1983, A. L. Young
Journal/Book Title	
Year	0000
Month/Bay	
Color	
Number of Images	10
Descripton Motes	Appears to be copies from a slide presentation. Duplicate is missing page labeled "Air Force Health Study Mortality Analysis."

SEVESO SCIENTIFIC REVIEW June 9-16, 1983 A. L. YOUNG

ENVIRONMENTAL CONTAMINATION

TOXICOLOGY

HUMAN HEALTH MONITORING

ENVIRONMENTAL FATE OF TCDD

DECONTAMINATION/RECLAMATION

CLEAN-UP STANDARDS

MONITORING DECONTAMINATION WORKERS

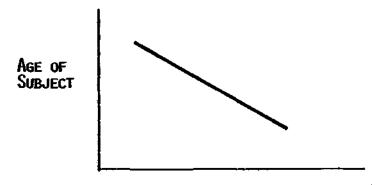
TOXIC IMPACT OF TCDD ON DOMESTIC ANIMALS

	DIED AFTER ACCIDENT	SLAUGHTERED JUNE 1978
SMALL ANIMALS (RABBITS, FOWL)	3,281	77,07 8
CATTLE	6	298
Horses/Donkeys	2	47
Swine	3	227
SHEEP/GOATS	1	<u>66</u>
TOTAL	3,293 (4%)	77,716 (96%)

HUMAN HEALTH MONITORING

CHLORACNE FOLLOWING "ACUTE" EXPOSURE

AGE OF SUBJECTS	Number
0 - 4 5 - 9 10 - 14	19 108 160 "Young" CHILDREN 33
15 - 21	20
>21	_7_
	187 32,000 CHILDREN SCREENED



SEVERITY OF CHLORACNE

HUMAN HEALTH MONITORING

ACUTE (SHORT-TERM)

DERMAL

NEUROLOGICAL

INVOLVEMENT OF ORGANS AND SYSTEMS

PREGNANT WOMEN AND NEWBORNS

ABORT IONS

CONGENITAL MALFORMATIONS

NEONATAL GROWTH

EMBRYOMORPHOLOGICAL STUDIES

CYTOGENETIC STUDIES

IMMUNOLOGICAL STUDIES

CHRONIC (LONG-TERM)

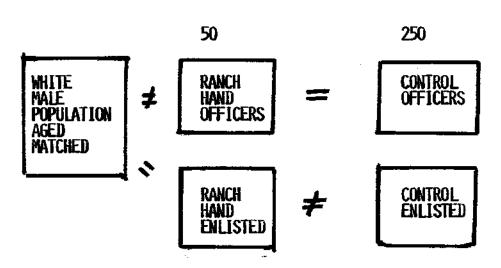
CHLORACME

CANCER

MORTALITY

AIR FORCE HEALTH STUDY MORTALITY ANALYSIS

RANCH HAND PERSONNEL EXPOSED TO TCDD IN AGENT ORANGE BETWEEN 1962-1970. Exposure best described as "chronic" (Mean TCDD of Orange 2 PPM) for a one (1) year period. Mortality based on 5 controls: 1 RANCH HAND. Mortality data excludes KIA.



NEUROLOGICAL FINDINGS

190 CHILDREN (52 WITH CHLORACNE)

432 ADULTS

SUBJECTED TO CLINICAL AND NEUROPHYSIOLOGICAL EXAMINATIONS

- 10% DISCLOSED EVIDENCE OF IMPAIRMENT
- · QUESTION ETIOLOGIC RELATIONSHIP
- CHILDREN WITH CHLORACNE SHOWED NO IMPAIRMENT OF NERVOUS SYSTEM FUNCTIONS.

TCDD BIOAVAILABILITY

RESULTS INDICATED THAT "WEATHERED" TCDD SOIL HAS A 30% BIOAVAILABILITY IN THE RABBIT COMPARED TO "SPIKED" SOIL-

PLANT UPTAKE STUDIES

MONITORING OF VEGETATION IN SEVESO ZONE A FOUND THAT CONTAMINATED DUST WAS A MAJOR FACTOR IN POSITIVE FINDINGS FOR FRUITS AND LEAFY CROPS.

UPTAKE STUDIES SUGGEST THAT CONCENTRATIONS IN LEAVES OF CORN AND BEANS WILL BE APPROXIMATELY 1/100TH SOIL LEVEL. NO DETECTIBLE TCDD IN EDIBLE PORTIONS.

ASSESSMENT OF SEVESO ENVIRONMENTAL CONTAMINATION

TOTAL TCDD RELEASED - 165 GM

TOTAL AREA IMPACTED - 1800 HA

(Number of People Evacuated - 736)

SOIL CONTAMINATION - <5 PPT - 55 PPB

ATMOSPHERIC CONTAMINATION (DUST) - 0.06 - 2.1 PPB

VEGETATION CONTAMINATION - 1-3 - 15-8 PPM (6-13 DAYS

CLEAN-UP STANDARDS

CONTAMINATED AREAS WERE ESTABLISHED BASED ON ANALYTIC SENSITIVITY OF 0-01 JIG TCDD/KG SOIL-

1977 REGIONAL LAW BARRED AREAS HAVING MORE THAN $50 \, \mu \, \text{M}^2 \, (0.5 \, \text{PPB})$ to human Habitation.

"Insides" Homes - 10 ng TCDD/m2

AGRICULTURAL SOIL - 5 PPT TCDD