Monsanto

FROM (NAME & LOCATION) Dept. of Medicine & Environmental Health - Judy Zack-A2SA

DATE: September 19, 1978 cc: F. C. Meyer-A2SA

SUBJECT: Krummrich PCB Study

REFERENCE:

TO File

Work sheets attached.

Judy Zack
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Att.

IN-10M 12/75

DSW 153368

CAUSE OF DEATH CLASSIFICATION

Cause of Death	U.S.D.R. Program Category Numbers
Malignant Neoplasms	1
Buccal Cavity and Pharynx	140
Digestive Organs	150, 151, 153, 154, 155, 157
Liver	155
All Other Digestive Organs (Residual)	150, 151, 153, 154, 157
Respiratory System	160
Lung	162
All Other Respiratory Organs (Residual)	160 minus 162
Genito-urinary Organs	177, 178, 180, 181
Lymphatic and Hematopoietic Tissues	200, 205
Leukemia and Aleukemia	204
Other and Unspecified Sites	1 minus (140, 150, 151, 153, 154, 155, 157, 160, 177, 178, 180, 181, 200, 204, 205)
Diseases of Cardiovascular System	339, 340
Diseases of Respiratory System	470
Diseases of Digestive System	530
All Other Diseases (Residual)	0 minus (1, 339, 400, 470, 530, 800)
External Causes of Death	800
All Causes	0

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KRUMMRICH PCB STUDY: OBSERVED AND EXPECTED DEATHS, ALL MALES

Cause of Death	Observed	Expected	SMR	Bionomial "p"
Malignant Neoplasms	8	3.875	206	.032
Buccal Cavity and Pharynx	0	0.144	0	.866
Digestive Organs	1	1.126	89	.689
Liver	0	0.081	0	.922
All Other Digestive Organs (Residual)	1	1.047	96	.718
Respiratory System	4	1.296	309	.039
Lung	4	1.207	331	.031
All Other Respiratory Organs (Residual)	0	0.089	0	.915
Genito-urinary Organs	1	0.423	236	.347
Lymphatic and Hematopoietic Tissues	1	0.173	578	.159
Leukemia and Aleukemia	0	0.133	0	.875
Other and Unspecified Sites (Residual)	1	0.578	173	.442
Diseases of Cardiovascular System	14	10.223	137	.101
Diseases of Respiratory System	0	1.087	0	.330
Diseases of Digestive System	2	1.118	179	.308
All Other Diseases (Residual)	3	2.256	133	.395
External Causes of Death	1	2.330	43	.311
All Causes	28	20.889	134	

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KRUMMRICH PCB STUDY: OBSERVED AND EXPECTED DEATHS, WHITE MALES

Cause of Death	Observed	Expected	SMR	Bionomial "p"
Malignant Neoplasms	4	2.418	165	.215
Buccal Cavity and Pharynx	0	0.089	0	.915
Digestive Organs	0	0.648	0	.517
Liver	0	0.041	0	.960
All Other Digestive Organs (Residual)	0	0.608	0	.538
Respiratory System	3	0.829	362	.047
Lung	3	0.775	387	.040
All Other Respiratory Organs (Residual)	0	0.054	0	.947
Genito-urinary Organs	0	0.238	0	.787
Lymphatic and Hematopoietic Tissues	0	0.117	0	.889
Leukemia and Aleukemia	0	0.098	0	.906
Other and Unspecified Sites (Residual)	1	0.398	251	.332
Diseases of Cardiovascular System	10	6.324	158	.058
Diseases of Respiratory System	0	0.626	0	.528
Diseases of Digestive System	1	0.729	137	.525
All Other Diseases (Residual)	2	1.066	188	.289
External Causes of Death	0	1.451	0	.219
All Causes	17	12.614	135	

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KRUMMRICH PCB STUDY: OBSERVED AND EXPECTED DEATHS, NON-WHITE MALES

Cause of Death	Observed	Expected	SMR	Bionomial "p"
Malignant Neoplasms	4	1.457	275	.047
Buccal Cavity and Pharynx	0	0.055	0	.946
Digestive Organs and Peritoneum	1	0.478	209	.387
Liver	0	0.040	0	.961
All Other Digestive Organs (Residual)	1	0.439	228	.361
Respiratory System	1	0.467	214	.379
Lung	1	0.432	231	.356
All Other Respiratory Organs (Residual)	0	0.035	0	.966
Genito-urinary Organs	1	0.185	541	.170
Lymphatic and Hematopoietic Tissues	1	0.056	1786	.055
Leukemia and Aleukemia	0	0.035	0	.966
Other and Unspecified Sites (Residual)	0	0.180	0	.834
Diseases of Cardiovascular System	4	3.899	103	.587
Diseases of Respiratory System	0	0.461	0	.624
Diseases of Digestive System	1	0.389	257	.327
All Other Diseases (Residual)	1	1.190	84	.663
External Causes of Death	1	0.879	114	.600
All Causes	11	8.275	133	

DSW 153372

RATIOS OF ST. CLAIR COUNTY TO U.S. CANCER MORTALITY RATES, WHITE MALES, 1950-1969

Cause of Death	St. Clair County Rate*	U.S. Rate	Adjustment Factor
Malignant Neoplasms	196.0	174.04	1.13
Buccal Cavity and Pharynx	8.1	5.36	1.51
Digestive Organs	64.0	58.30	1.10
Liver	4.9	5.16	0.95
All Other Digestive Organs	59.1	53.14	1.11
Respiratory System	53.6	40.95	1.31
Lung	49.7	37.98	1.31
All Other Respiratory Organs	3.9	2.97	1.31
Genito-urinary Organs	29.4	29.31	1.00
Lymphatic and Hematopoietic Tissues	7.9	8.94	0.88
Leukemia and Aleukemia	9.8	8.81	1.11
Other and Unspecified Sites	11.1	10.73	1.03

*Rate per 100,000 population.

DSW 153373

RATIOS OF ST. CLAIR COUNTY TO U.S. CANCER MORTALITY RATES, NON-WHITE MALES, 1950-1969

Cause of Death	St. Clair County Rate*	U.S. Rate	Adjustment Factor
Malignant Neoplasms	185.8	184.28	1.01
Buccal Cavity and Pharynx	5.4	5.42	1.00
Digestive Organs	74.3	68.30	1.09
Liver	8.1	6.91	1.17
All Other Digestive Organs	66.2	61.39	1.08
Respiratory System	42.4	39.94	1.06
Lung	38.2	36.67	1.04
All Other Respiratory Organs	4.2	3.27	1.28
Genito-urinary Organs	30.9	35.41	0.87
Lymphatic and Hematopoietic Tissues	5.6	7.73	0.72
Leukemia and Aleukemia	6.7	5.77	1.16
Other and Unspecified Sites	4.4	6.48	0.68

*Rate per 100,000 population.

DSW 153374

KRUMMRICH PCB STUDY: OBSERVED AND EXPECTED CANCER DEATHS (ALL MALES) BASED ON ST. CLAIR COUNTY ADJUSTMENT*

Cause of Death	Observed	Expected	SMR	Binomial "p"
Malignant Neoplasms	8	4.204	190	.049
Buccal Cavity and Pharynx	0	0.189	0	.827
Digestive Organs	1	1.234	81	.649
Liver	0	0.086	0	.917
All Other Digestive Organs (Residual)	1	1.149	87	.680
Respiratory System	4	1.581	253	.071
Lung	4	1.464	273	.056
All Other Respiratory Organs (Residual)	0	0.116	0	.890
Genito-Urinary Organs	1	0.473	211	.379
Lymphatic and Hematopoietic Tissues	1	0.157	637	.146
Leukemia and Aleukemia	0	0.127	0	.880
Other and Unspecified Sites (Residual)	1	0.422	237	.346

*Expected number of deaths multiplied by ratio of St. Clair County to U.S. Cancer Mortality Rate

DSW 153375

KRUMMRICH PCB STUDY: OBSERVED AND EXPECTED CANCER DEATHS (WHITE MALES) BASED ON ST. CLAIR COUNTY ADJUSTMENT*

Cause of Death	Observed	Expected	SMR	Binomial "p"
Malignant Neoplasms	4	2.732	146	.287
Buccal Cavity and Pharynx	0	0.134	0	.874
Digestive Organs	0	0.713	0	.483
Liver	0	0.039	0	.962
All Other Digestive Organs (Residual)	0	0.675	0	.502
Respiratory System	3	1.086	276	.091
Lung	3	1.015	296	.077
All Other Respiratory Organs (Residual)	0	0.071	0	.931
Genito-Urinary Organs	0	0.312	0	.730
Lymphatic and Hematopoietic Tissues	0	0.117	0	.889
Leukemia and Aleukemia	0	0.086	0	.917
Other and Unspecified Sites (Residual)	1	0.410	244	.340

*Expected number of deaths multiplied by ratio of St. Clair County to U.S. Cancer Mortality Rate

DSW 153376

KRUMMRICH PCB STUDY: OBSERVED AND EXPECTED CANCER DEATHS (NON-WHITE MALES) BASED ON ST. CLAIR COUNTY ADJUSTMENT*

Cause of Death	Observed	Expected	SMR	Bionomial "p"
Malignant Neoplasms	4	1.472	272	.049
Buccal Cavity and Pharynx	0	0.055	0	.946
Digestive Organs	1	0.521	192	.414
Liver	0	0.047	0	.954
All Other Digestive Organs (Residual)	1	0.474	211	.384
Respiratory System	1	0.495	202	.397
Lung	1	0.449	223	.368
All Other Respiratory Organs (Residual)	0	0.045	0	.956
Genito-urinary Organs	1	0.161	621	.150
Lymphatic and Hematopoietic Tissues	1	0.040	2500	.039
Leukemia and Aleukemia	0	0.041	0	.960
Other and Unspecified Sites	0	0.012	0	.988

*Expected number of deaths multiplied by ratio of St. Clair County to U.S. Cancer Mortality Rate

DSW 153377