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OCMAP PC: OCCUPATIONAL COHORT MORTALITY ANALYSIS PROGRAM

MODULE 1: STANDARDIZED MORTALITY RATIO ANALYSIS, VERSION 2.1

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* Program Control Information *
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I. TITLES:

A. PROJECT TITLE: Monsanto Mortality Sureveillance
B. POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
C. EXPECTED NUMBERS BASED ON: U.S. White Population 1979-1987
D. CUMULATIVE EXPOSURE UNITS: Cumulative Exposure Units = YEARS

II. END OF STUDY DATE: 12/31/1989

III. PARAMETER DEFINITIONS:

PARAMETER NAME	VALUE	DEFINITION
P1	16	NO. OF AGE GROUP SUBGROUPS + 1
P2	5	NO. OF TIME PERIOD SUBGROUPS + 2
P3	3	NO. OF INTERVAL FROM ONSET OF EXPOSURE SUBGROUPS + 1
P4	3	NO. OF CUMULATIVE EXPOSURE SUBGROUPS + 1
P5	2	NO. OF RACE AND SEX COMBINATIONS

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P6	8	NO. OF CAUSE OF DEATH CATEGORIES
P7	16	MAXIMUM OF "P1","P2","P3","P4","P5", AND RECODED AGE AND TIME INTERVALS
S1	8	MAXIMUM NO. OF SUBGROUPS IN ANY ONE CAUSE OF DEATH CATEGORY
S2	8	NO. OF SELECTION VARIABLES + 2
S3	1	MAXIMUM NO. OF JOBS IN WORK HISTORY

IV. ADJUSTMENT VARIABLES:

VARIABLE	NO. OF SUBGROUPS	SUBGROUPS
A. Age Group	15	(<20) (20-24) (25-29) (30-34) (35-39) (40-44) (45-49) (50-54) (55-59) (60-64) (65-69) (70-74) (75-79) (80-84) (85+)
B. Time Period	3	(75-79) (80-84) (85-89)
C. Interval from Onset of Exposure	2	(<20) (20+)
D. Cumulative Exposure	2	(<10) (10+)
E. Sex	2	(MALE) (FEMALE)
F. Race	1	(TOTAL)

V. RECODED AGE AND TIME INTERVALS:

RECODED INTERVAL	AGE GROUP (SELECTED SUBGROUPS)	TIME PERIOD (SELECTED SUBGROUPS)
1	TOTAL (1 THROUGH 15)	TOTAL (1 THROUGH 3)

VI. DEATH RATE FILE INFORMATION:

INPUT DEVICE: DISK
LOGICAL UNIT NUMBER: 2
FILE NAME(S): US.WM US.WF
ICDA CODES: 4-DIGIT
UNKNOWN CAUSES OF DEATH CODED AS: 9999

VII. CAUSE OF DEATH SELECTION: (BASED ON 8 REVISION ICDA CODES)

CATEGORY	CAUSE OF DEATH	NO. OF SUBGROUPS	8th Revision Codes (1968-1978) ICDA CODES
1	All Causes of Death	1	(0. -999.)
3	All Malignant Neoplasms	1	(140. -209.)

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8	Cancer of Large Intestine	1	(153. -153.)
15	Cancer of Bronchus, Trachea, Lung	1	(162. -162.)
17	Cancer of Breast	1	(174. -174.)
21	Cancer of Prostate (Males only)	1	(185. -185.)
39	All Heart Disease	7	(390. -398.)(400.1-400.1) (400.9-400.9)(402. -402.) (404. -404.)(410. -414.) (420. -429.)
56	All External Causes of Death	1	(800. -999.)

VIII. DEATH RATE SELECTION VARIABLES:

VARIABLE	NO. OF SUBGROUPS	SUBGROUP
A. AGE GROUP	15	(15-19) (20-24) (25-29) (30-34) (35-39) (40-44) (45-49) (50-54) (55-59) (60-64) (65-69) (70-74) (75-79) (80-84) (85+)
B. TIME PERIOD	3	(75-79) (80-84) (85-87)
C. RACE AND SEX	2	(WHITE MALE)(WHITE FEMALE)

IX. CORRESPONDENCE BETWEEN PERSON YEARS AND DEATH RATES:

A. Age Group

PERSON YEARS	DEATH RATES
(<20)	(15-19)
(20-24)	(20-24)
(25-29)	(25-29)
(30-34)	(30-34)
(35-39)	(35-39)
(40-44)	(40-44)
(45-49)	(45-49)
(50-54)	(50-54)
(55-59)	(55-59)
(60-64)	(60-64)
(65-69)	(65-69)
(70-74)	(70-74)
(75-79)	(75-79)
(80-84)	(80-84)
(85+)	(85+)

B. Time Period

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PERSON YEARS	DEATH RATES
(75-79)	(75-79)
(80-84)	(80-84)
(85-89)	(85-87)

C. RACE AND SEX COMBINATIONS

PERSON YEARS		DEATH RATES
(TOTAL)	(MALE)	(WHITE MALE)
(TOTAL)	(FEMALE)	(WHITE FEMALE)

X. TABLE TYPES TO BE PRINTED FOR THE FOLLOWING CAUSES:

TABLE TYPE	CAUSE OF DEATH CATEGORY
3	(1)
5	(1)
6	(1)

XI. INPUT COHORT DATA INFORMATION:

A. INPUT COHORT FILE INFORMATION:

INPUT DEVICE: DISK
LOGICAL UNIT NUMBER: 1
FILE NAME: 0009.DAT

B. INPUT FORMAT FOR DESCRIPTIVE VARIABLES, RECORD TYPE 1: (7A5,2I1,I3,A1,4(2I2,I4),I3,2I1)

VARIABLE NO.	FORMAT	DATA DESCRIPTION
1-7	7A5	CASE IDENTIFICATION
8	I1	SEX
9	I1	RACE
10-11	I3,A1	CAUSE OF DEATH ICDA CODES
12-14	2I2,I4	BIRTH DATE (MONTH,DAY,YEAR)
15-17	2I2,I4	HIRE DATE (MONTH,DAY,YEAR)
18-20	2I2,I4	STARTING DATE FOR PERSON DAYS (MONTH,DAY,YEAR)
21-23	2I2,I4	STOPPING DATE FOR PERSON DAYS (MONTH,DAY,YEAR)
24	I3	NUMBER OF JOBS IN WORK HISTORY
25	I1	PRINT FLAG FOR DETAILED LISTING
26	I1	VITAL STATUS

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C. INPUT FORMAT FOR SELECTION VARIABLES, RECORD TYPE 2: (F4.0,F4.0,F2.0,F1.0,F1.0,F2.0)

VARIABLE NO.	VARIABLE LABEL	NO. OF SUBGROUPS	RANGE OF VALUES SELECTED			
1	Year of Birth	1	>=	1896.000	AND <	1971.000
2	Year of Hire	1	>=	1926.000	AND <	1990.000
3	Age	1	>=	16.00000	AND <	66.00000
4	Vital Status	1	>=	1.000000	AND <	9.000000
5	Pay Type	1	>=	1.000000	AND <	4.000000
6	Years of Service	1	>=	.0000000	AND <	64.00000

D. INPUT FORMAT FOR WORK HISTORY DATA, RECORD TYPE 3: (6I2,I3,50G15.0)

VARIABLE NO.	FORMAT	DATA DESCRIPTION
1-3	3I2	JOB STARTING DATE (MONTH,DAY,YEAR)
4-6	3I2	JOB FINISH DATE (MONTH,DAY,YEAR)
7	I3	JOB TYPE
8-67	50G15.0	JOB EXPOSURE INDICES

E. JOB TYPES SELECTED	RANGE OF JOB TYPES SELECTED
All Job Types	(0-999)

F. JOB EXPOSURE INDEX SELECTED	EXPOSURE TYPE	DAYS PER UNIT
Units: Exposure 1 - Years	1	365.2500

XII. READ, EDIT, AND WRITE SUMMARY:

376 CASES READ FROM INPUT FILE
0 CASES EXCLUDED PRIOR TO ANALYSIS

0 CASES REJECTED DUE TO VARIABLE SELECTION AND/OR JOB TYPE SELECTION

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0 CASES REJECTED DUE TO ERROR DETECTION

376 CASES CHOSEN FOR ANALYSIS (10 DEATHS)

0 CASES SELECTED FOR DETAILED LISTING
376 CASES NOT SELECTED FOR DETAILED LISTING

XIII. DISTRIBUTION OF CASES CHOSEN FOR ANALYSIS BY WORKING AND VITAL STATUS AS OF 12/31/1989:

WORKING AND VITAL STATUS	NUMBER	PERCENT	DEATH CERTIFICATE OBTAINED	DEATH CERTIFICATE OUTSTANDING
Currently Employed	107	28.5		
Terminated	185	49.2		
Alive	181	(97.8)		
Dead	1	(.5)	1	0
Unknown Status	3	(1.6)		
Retired	81	21.5		
Alive	75	(92.6)		
Dead	6	(7.4)	6	0
Unknown Status	0	(.0)		
Died While Employed	3	.8	3	0
Total	376	100.0	10	0

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PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site

POPULATION SUBGROUP
RACE: TOTAL
SEX: MALE

****
TABLE TYPE 1: AGE DISTRIBUTIONS
****

AGE GROUP	AGE AT HIRE		AGE AT FIRST EXPOSURE		AGE AT ENTRY INTO FOLLOW-UP		AGE AT DEATH	
	No.	%	No.	%	No.	%	No.	%
<20	16	5.1	16	5.1	1	.3	0	.0
20-24	119	37.7	119	37.7	38	12.0	0	.0
25-29	95	30.1	95	30.1	51	16.1	0	.0
30-34	43	13.6	43	13.6	40	12.7	0	.0
35-39	24	7.6	24	7.6	61	19.3	0	.0
40-44	11	3.5	11	3.5	42	13.3	0	.0
45-49	6	1.9	6	1.9	41	13.0	4	44.4
50-54	2	.6	2	.6	17	5.4	1	11.1
55-59	0	.0	0	.0	14	4.4	0	.0
60-64	0	.0	0	.0	11	3.5	2	22.2
65-69	0	.0	0	.0	0	.0	0	.0

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70-74	0	.0	0	.0	0	.0	2	22.2
75-79	0	.0	0	.0	0	.0	0	.0
80-84	0	.0	0	.0	0	.0	0	.0
85+	0	.0	0	.0	0	.0	0	.0
TOTAL	316	100.0	316	100.0	316	100.0	9	100.0
AVERAGE AGE	27.5		27.5		37.9		56.8	

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POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site

POPULATION SUBGROUP
RACE: TOTAL
SEX: FEMALE

****
TABLE TYPE 1: AGE DISTRIBUTIONS
****

AGE GROUP	AGE AT HIRE		AGE AT FIRST EXPOSURE		AGE AT ENTRY INTO FOLLOW-UP		AGE AT DEATH	
	No.	%	No.	%	No.	%	No.	%
<20	2	3.3	2	3.3	1	1.7	0	.0
20-24	13	21.7	13	21.7	10	16.7	0	.0
25-29	11	18.3	11	18.3	9	15.0	0	.0
30-34	12	20.0	12	20.0	9	15.0	0	.0
35-39	15	25.0	15	25.0	14	23.3	0	.0
40-44	3	5.0	3	5.0	5	8.3	0	.0
45-49	4	6.7	4	6.7	5	8.3	0	.0
50-54	0	.0	0	.0	2	3.3	0	.0
55-59	0	.0	0	.0	3	5.0	0	.0
60-64	0	.0	0	.0	2	3.3	0	.0
65-69	0	.0	0	.0	0	.0	0	.0
70-74	0	.0	0	.0	0	.0	1	100.0
75-79	0	.0	0	.0	0	.0	0	.0
80-84	0	.0	0	.0	0	.0	0	.0
85+	0	.0	0	.0	0	.0	0	.0
TOTAL	60	100.0	60	100.0	60	100.0	1	100.0
AVERAGE AGE	31.5		31.5		36.1		73.5	

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POPULATION SUBGROUP
RACE: TOTAL
SEX: TOTAL

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****
TABLE TYPE 1: AGE DISTRIBUTIONS
****

AGE GROUP	AGE AT HIRE		AGE AT FIRST EXPOSURE		AGE AT ENTRY INTO FOLLOW-UP		AGE AT DEATH	
	No.	%	No.	%	No.	%	No.	%
<20	18	4.8	18	4.8	2	.5	0	.0
20-24	132	35.1	132	35.1	48	12.8	0	.0
25-29	106	28.2	106	28.2	60	16.0	0	.0
30-34	55	14.6	55	14.6	49	13.0	0	.0
35-39	39	10.4	39	10.4	75	19.9	0	.0
40-44	14	3.7	14	3.7	47	12.5	0	.0
45-49	10	2.7	10	2.7	46	12.2	4	40.0
50-54	2	.5	2	.5	19	5.1	1	10.0
55-59	0	.0	0	.0	17	4.5	0	.0
60-64	0	.0	0	.0	13	3.5	2	20.0
65-69	0	.0	0	.0	0	.0	0	.0
70-74	0	.0	0	.0	0	.0	3	30.0
75-79	0	.0	0	.0	0	.0	0	.0
80-84	0	.0	0	.0	0	.0	0	.0
85+	0	.0	0	.0	0	.0	0	.0
TOTAL	376	100.0	376	100.0	376	100.0	10	100.0
AVERAGE AGE	28.2		28.2		37.6		58.5	

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POPULATION SUBGROUP
RACE: TOTAL
SEX: MALE
CUMULATIVE EXPOSURE: TOTAL
LATENCY: TOTAL

****
TABLE TYPE 2: PERSON YEARS AND ABSOLUTE NUMBER AT RISK
****

AGE GROUP		TIME-PERIOD 75-79	80-84	85-89	TOTAL
<20	PERSON YEARS	.0	.0	.9	.9
	AT RISK	0	0	1	1
20-24	PERSON YEARS	14.1	46.8	27.1	88.0
	AT RISK	20	29	9	39
25-29	PERSON YEARS	37.1	179.7	79.9	296.7
	AT RISK	44	72	38	88
30-34	PERSON YEARS	29.6	186.0	202.2	417.8

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	AT RISK	39	75	79	118
35-39	PERSON YEARS	52.7	236.2	200.7	489.7
	AT RISK	67	88	82	151
40-44	PERSON YEARS	42.7	250.2	245.7	538.6
	AT RISK	51	101	90	142
45-49	PERSON YEARS	37.5	203.4	246.1	486.9
	AT RISK	48	83	101	150
50-54	PERSON YEARS	18.7	155.8	198.7	373.2
	AT RISK	24	61	81	106
55-59	PERSON YEARS	15.0	82.9	160.3	258.2
	AT RISK	18	38	61	79
60-64	PERSON YEARS	10.2	66.0	80.1	156.3
	AT RISK	12	27	37	50
65-69	PERSON YEARS	1.2	30.1	64.2	95.5
	AT RISK	2	12	25	27
70-74	PERSON YEARS	.0	1.2	27.2	28.5
	AT RISK	0	2	12	12
75-79	PERSON YEARS	.0	.0	1.2	1.2
	AT RISK	0	0	2	2
80-84	PERSON YEARS	.0	.0	.0	.0
	AT RISK	0	0	0	0
85+	PERSON YEARS	.0	.0	.0	.0
	AT RISK	0	0	0	0
TOTAL	PERSON YEARS	259.0	1438.1	1534.4	3231.5
	AT RISK	266	302	314	316

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POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site

POPULATION SUBGROUP

RACE: TOTAL
SEX: FEMALE
CUMULATIVE EXPOSURE: TOTAL
LATENCY: TOTAL

****
TABLE TYPE 2: PERSON YEARS AND ABSOLUTE NUMBER AT RISK
****

		TIME-PERIOD			
AGE GROUP		75-79	80-84	85-89	TOTAL
<20	PERSON YEARS	.0	.0	1.6	1.6
	AT RISK	0	0	1	1

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20-24	PERSON YEARS	1.5	14.0	1.0	16.5
	AT RISK	2	9	1	10
25-29	PERSON YEARS	2.1	34.3	33.6	70.0
	AT RISK	3	16	14	19
30-34	PERSON YEARS	6.9	29.9	41.6	78.4
	AT RISK	8	14	17	27
35-39	PERSON YEARS	7.6	53.8	36.6	98.0
	AT RISK	9	22	17	28
40-44	PERSON YEARS	4.4	37.7	64.2	106.2
	AT RISK	6	15	23	29
45-49	PERSON YEARS	2.8	24.6	38.1	65.4
	AT RISK	4	10	15	21
50-54	PERSON YEARS	2.3	14.4	25.9	42.5
	AT RISK	3	8	10	13
55-59	PERSON YEARS	2.6	10.5	14.3	27.4
	AT RISK	3	5	8	11
60-64	PERSON YEARS	2.4	13.8	10.4	26.7
	AT RISK	3	5	5	8
65-69	PERSON YEARS	.0	9.7	13.8	23.5
	AT RISK	0	3	5	5
70-74	PERSON YEARS	.0	.0	8.5	8.5
	AT RISK	0	0	3	3
75-79	PERSON YEARS	.0	.0	.0	.0
	AT RISK	0	0	0	0
80-84	PERSON YEARS	.0	.0	.0	.0
	AT RISK	0	0	0	0
85+	PERSON YEARS	.0	.0	.0	.0
	AT RISK	0	0	0	0
TOTAL	PERSON YEARS	32.6	242.6	289.6	564.7
	AT RISK	35	57	60	60

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POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site

****
TABLE TYPE 2: PERSON YEARS AND ABSOLUTE NUMBER AT RISK

POPULATION SUBGROUP

RACE: TOTAL
SEX: TOTAL
CUMULATIVE EXPOSURE: TOTAL
LATENCY: TOTAL

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AGE GROUP		TIME-PERIOD 75-79	80-84	85-89	TOTAL
<20	PERSON YEARS	.0	.0	2.4	2.4
	AT RISK	0	0	2	2
20-24	PERSON YEARS	15.7	60.8	28.0	104.5
	AT RISK	22	38	10	49
25-29	PERSON YEARS	39.2	214.0	113.5	366.7
	AT RISK	47	88	52	107
30-34	PERSON YEARS	36.5	215.9	243.8	496.1
	AT RISK	47	89	96	145
35-39	PERSON YEARS	60.4	290.0	237.4	587.7
	AT RISK	76	110	99	179
40-44	PERSON YEARS	47.0	287.8	309.9	644.8
	AT RISK	57	116	113	171
45-49	PERSON YEARS	40.3	227.9	284.1	552.4
	AT RISK	52	93	116	171
50-54	PERSON YEARS	21.0	170.1	224.6	415.8
	AT RISK	27	69	91	119
55-59	PERSON YEARS	17.6	93.3	174.6	285.6
	AT RISK	21	43	69	90
60-64	PERSON YEARS	12.6	79.8	90.6	183.0
	AT RISK	15	32	42	58
65-69	PERSON YEARS	1.2	39.8	78.0	119.1
	AT RISK	2	15	30	32
70-74	PERSON YEARS	.0	1.2	35.7	37.0
	AT RISK	0	2	15	15
75-79	PERSON YEARS	.0	.0	1.2	1.2
	AT RISK	0	0	2	2
80-84	PERSON YEARS	.0	.0	.0	.0
	AT RISK	0	0	0	0
85+	PERSON YEARS	.0	.0	.0	.0
	AT RISK	0	0	0	0
TOTAL	PERSON YEARS	291.6	1680.7	1824.0	3796.3
	AT RISK	301	359	374	376

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MODULE 1: STANDARDIZED MORTALITY RATIO ANALYSIS, VERSION 2.1

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PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
EXPECTED NUMBERS BASED ON: U.S. White Population 1979-1987

POPULATION SUBGROUP

RACE: TOTAL
SEX: MALE
CUMULATIVE EXPOSURE: TOTAL
LATENCY: TOTAL

****
TABLE TYPE 3: CAUSE SPECIFIC OBSERVED AND EXPECTED NUMBERS OF DEATHS SHOWING SMR's AND DEATH RATES
****

CAUSE OF DEATH: All Causes of Death

AGE GROUP		TIME-PERIOD 75-79	80-84	85-89	TOTAL
<20	OBS	0	0	0	0
	EXP	.00	.00	.00	.00
	SMR	---	---	---	---
	RATE (COHORT)/100000	---	---	.00	.00
	RATE (STD)/100000	142.27	126.57	119.07	
20-24	OBS	0	0	0	0
	EXP	.03	.08	.04	.15
	SMR	---	---	---	---
	RATE (COHORT)/100000	.00	.00	.00	.00
	RATE (STD)/100000	185.33	169.65	157.32	
25-29	OBS	0	0	0	0
	EXP	.06	.29	.12	.47
	SMR	---	---	---	---
	RATE (COHORT)/100000	.00	.00	.00	.00
	RATE (STD)/100000	163.54	159.28	154.51	
30-34	OBS	0	0	0	0
	EXP	.05	.30	.35	.70
	SMR	---	---	---	---
	RATE (COHORT)/100000	.00	.00	.00	.00
	RATE (STD)/100000	162.79	161.85	173.84	
35-39	OBS	0	0	0	0
	EXP	.11	.46	.42	1.00
	SMR	---	---	---	---
	RATE (COHORT)/100000	.00	.00	.00	.00
	RATE (STD)/100000	217.08	196.83	209.62	
40-44	OBS	0	0	0	0
	EXP	.14	.74	.72	1.61
	SMR	---	---	---	---
	RATE (COHORT)/100000	.00	.00	.00	.00
	RATE (STD)/100000	339.59	297.41	293.84	
45-49	OBS	0	1	3	4
	EXP	.21	1.00	1.13	2.34

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	SMR	---	100.2	266.4	171.1
	RATE (COHORT)/100000	.00	491.74	1219.20	821.48
	RATE (STD)/100000	569.65	490.70	457.63	
50-54	OBS	0	0	1	1
	EXP	.17	1.28	1.50	2.96
	SMR	---	---	66.7	33.8
	RATE (COHORT)/100000	.00	.00	503.27	267.94
	RATE (STD)/100000	927.36	822.85	754.62	
55-59	OBS	0	0	0	0
	EXP	.22	1.10	1.96	3.28
	SMR	---	---	---	---
	RATE (COHORT)/100000	.00	.00	.00	.00
	RATE (STD)/100000	1454.85	1325.67	1225.85	
60-64	OBS	0	1	1	2
	EXP	.23	1.35	1.53	3.11
	SMR	---	74.3	65.5	64.3
	RATE (COHORT)/100000	.00	1515.47	1247.69	1279.49
	RATE (STD)/100000	2307.15	2039.82	1905.97	
65-69	OBS	0	0	0	0
	EXP	.04	.96	1.92	2.92
	SMR	---	---	---	---
	RATE (COHORT)/100000	.00	.00	.00	.00
	RATE (STD)/100000	3475.81	3180.47	2998.60	
70-74	OBS	0	0	2	2
	EXP	.00	.06	1.25	1.32
	SMR	---	---	159.4	152.0
	RATE (COHORT)/100000	---	.00	7348.50	7026.66
	RATE (STD)/100000	5139.15	4849.92	4610.82	
75-79	OBS	0	0	0	0
	EXP	.00	.00	.09	.09
	SMR	---	---	---	---
	RATE (COHORT)/100000	---	---	.00	.00
	RATE (STD)/100000	7653.05	7282.32	7112.07	
80-84	OBS	0	0	0	0
	EXP	.00	.00	.00	.00
	SMR	---	---	---	---
	RATE (COHORT)/100000	---	---	---	---
	RATE (STD)/100000	11365.47	11011.87	11005.21	
85+	OBS	0	0	0	0
	EXP	.00	.00	.00	.00
	SMR	---	---	---	---
	RATE (COHORT)/100000	---	---	---	---
	RATE (STD)/100000	18767.58	18529.74	18763.01	
TOTAL	OBS	0	2	7	9
	EXP	1.28	7.62	11.05	19.94

DSW 147488

STLCOPCB4039335

	SMR	---	26.3 *	63.4	45.1 *
	RATE (COHORT)/100000	.00	139.07	456.20	278.51

* SIGNIFICANT AT 5% LEVEL; ** SIGNIFICANT AT 1% LEVEL

OCMAP PC: OCCUPATIONAL COHORT MORTALITY ANALYSIS PROGRAM
MODULE 1: STANDARDIZED MORTALITY RATIO ANALYSIS, VERSION 2.1

15:10 2/23

PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
EXPECTED NUMBERS BASED ON: U.S. White Population 1979-1987

POPULATION SUBGROUP
RACE: TOTAL
SEX: FEMALE
CUMULATIVE EXPOSURE: TOTAL
LATENCY: TOTAL

****
TABLE TYPE 3: CAUSE SPECIFIC OBSERVED AND EXPECTED NUMBERS OF DEATHS SHOWING SMR's AND DEATH RATES
****

CAUSE OF DEATH: All Causes of Death

AGE GROUP		TIME-PERIOD 75-79	80-84	85-89	TOTAL
<20	OBS	0	0	0	0
	EXP	.00	.00	.00	.00
	SMR	---	---	---	---
	RATE (COHORT)/100000	---	---	.00	.00
	RATE (STD)/100000	53.13	48.77	48.75	
20-24	OBS	0	0	0	0
	EXP	.00	.01	.00	.01
	SMR	---	---	---	---
	RATE (COHORT)/100000	.00	.00	.00	.00
	RATE (STD)/100000	58.05	53.49	49.44	
25-29	OBS	0	0	0	0
	EXP	.00	.02	.02	.04
	SMR	---	---	---	---
	RATE (COHORT)/100000	.00	.00	.00	.00
	RATE (STD)/100000	60.59	55.99	54.13	
30-34	OBS	0	0	0	0
	EXP	.01	.02	.03	.05
	SMR	---	---	---	---
	RATE (COHORT)/100000	.00	.00	.00	.00
	RATE (STD)/100000	76.83	68.71	67.05	
35-39	OBS	0	0	0	0
	EXP	.01	.05	.03	.10
	SMR	---	---	---	---
	RATE (COHORT)/100000	.00	.00	.00	.00
	RATE (STD)/100000	115.74	100.05	94.72	
40-44	OBS	0	0	0	0
	EXP	.01	.06	.10	.17

DSW 147489

STLCOPCB4039336

	SMR	---	---	---	---
	RATE (COHORT)/100000	.00	.00	.00	.00
	RATE (STD)/100000	192.37	163.45	153.26	
45-49	OBS	0	0	0	0
	EXP	.01	.07	.10	.17
	SMR	---	---	---	---
	RATE (COHORT)/100000	.00	.00	.00	.00
	RATE (STD)/100000	309.32	271.86	255.33	
50-54	OBS	0	0	0	0
	EXP	.01	.06	.11	.18
	SMR	---	---	---	---
	RATE (COHORT)/100000	.00	.00	.00	.00
	RATE (STD)/100000	479.28	440.40	419.88	
55-59	OBS	0	0	0	0
	EXP	.02	.07	.09	.18
	SMR	---	---	---	---
	RATE (COHORT)/100000	.00	.00	.00	.00
	RATE (STD)/100000	724.55	686.33	657.66	
60-64	OBS	0	0	0	0
	EXP	.03	.15	.11	.28
	SMR	---	---	---	---
	RATE (COHORT)/100000	.00	.00	.00	.00
	RATE (STD)/100000	1104.44	1061.09	1034.84	
65-69	OBS	0	0	0	0
	EXP	.00	.16	.22	.38
	SMR	---	---	---	---
	RATE (COHORT)/100000	---	.00	.00	.00
	RATE (STD)/100000	1647.40	1624.91	1606.99	
70-74	OBS	0	0	1	1
	EXP	.00	.00	.21	.21
	SMR	---	---	467.5	467.5
	RATE (COHORT)/100000	---	---	11747.67	11747.67
	RATE (STD)/100000	2592.22	2542.03	2512.97	
75-79	OBS	0	0	0	0
	EXP	.00	.00	.00	.00
	SMR	---	---	---	---
	RATE (COHORT)/100000	---	---	---	---
	RATE (STD)/100000	4317.70	4058.41	4015.65	
80-84	OBS	0	0	0	0
	EXP	.00	.00	.00	.00
	SMR	---	---	---	---
	RATE (COHORT)/100000	---	---	---	---
	RATE (STD)/100000	7279.11	6973.74	6836.23	
85+	OBS	0	0	0	0
	EXP	.00	.00	.00	.00

DSW 147490

STLCOPCB4039337

	SMR	---	---	---	---
	RATE (COHORT)/100000	---	---	---	---
	RATE (STD)/100000	14609.09	14415.65	14673.01	
TOTAL	OBS	0	0	1	1
	EXP	.09	.67	1.03	1.78
	SMR	---	---	97.6	56.1
	RATE (COHORT)/100000	.00	.00	345.35	177.07

* SIGNIFICANT AT 5% LEVEL; ** SIGNIFICANT AT 1% LEVEL

OCMAP PC: OCCUPATIONAL COHORT MORTALITY ANALYSIS PROGRAM
MODULE 1: STANDARDIZED MORTALITY RATIO ANALYSIS, VERSION 2.1

PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
EXPECTED NUMBERS BASED ON: U.S. White Population 1979-1987

POPULATION SUBGROUP

RACE: TOTAL
SEX: TOTAL
CUMULATIVE EXPOSURE: TOTAL
LATENCY: TOTAL

****
TABLE TYPE 3: CAUSE SPECIFIC OBSERVED AND EXPECTED NUMBERS OF DEATHS SHOWING SMR's AND DEATH RATES
****

CAUSE OF DEATH: All Causes of Death

AGE GROUP		TIME-PERIOD 75-79	80-84	85-89	TOTAL
<20	OBS	0	0	0	0
	EXP	.00	.00	.00	.00
	SMR	---	---	---	---
	RATE (COHORT)/100000	---	---	.00	.00
20-24	OBS	0	0	0	0
	EXP	.03	.09	.04	.16
	SMR	---	---	---	---
	RATE (COHORT)/100000	.00	.00	.00	.00
25-29	OBS	0	0	0	0
	EXP	.06	.31	.14	.51
	SMR	---	---	---	---
	RATE (COHORT)/100000	.00	.00	.00	.00
30-34	OBS	0	0	0	0
	EXP	.05	.32	.38	.75
	SMR	---	---	---	---
	RATE (COHORT)/100000	.00	.00	.00	.00
35-39	OBS	0	0	0	0
	EXP	.12	.52	.46	1.10
	SMR	---	---	---	---
	RATE (COHORT)/100000	.00	.00	.00	.00
40-44	OBS	0	0	0	0

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	EXP	.15	.81	.82	1.78
	SMR	---	---	---	---
	RATE (COHORT)/100000	.00	.00	.00	.00
45-49	OBS	0	1	3	4
	EXP	.22	1.06	1.22	2.51
	SMR	---	93.9	245.3	159.3
	RATE (COHORT)/100000	.00	438.74	1055.90	724.17
50-54	OBS	0	0	1	1
	EXP	.18	1.34	1.61	3.14
	SMR	---	---	62.2	31.9
	RATE (COHORT)/100000	.00	.00	445.20	240.53
55-59	OBS	0	0	0	0
	EXP	.24	1.17	2.06	3.47
	SMR	---	---	---	---
	RATE (COHORT)/100000	.00	.00	.00	.00
60-64	OBS	0	1	1	2
	EXP	.26	1.49	1.64	3.39
	SMR	---	67.0	61.1	59.0
	RATE (COHORT)/100000	.00	1252.62	1103.85	1092.73
65-69	OBS	0	0	0	0
	EXP	.04	1.11	2.15	3.30
	SMR	---	---	---	---
	RATE (COHORT)/100000	.00	.00	.00	.00
70-74	OBS	0	0	3	3
	EXP	.00	.06	1.47	1.53
	SMR	---	---	204.2	196.2
	RATE (COHORT)/100000	---	.00	8396.60	8113.52
75-79	OBS	0	0	0	0
	EXP	.00	.00	.09	.09
	SMR	---	---	---	---
	RATE (COHORT)/100000	---	---	.00	.00
80-84	OBS	0	0	0	0
	EXP	.00	.00	.00	.00
	SMR	---	---	---	---
	RATE (COHORT)/100000	---	---	---	---
85+	OBS	0	0	0	0
	EXP	.00	.00	.00	.00
	SMR	---	---	---	---
	RATE (COHORT)/100000	---	---	---	---
TOTAL	OBS	0	2	8	10
	EXP	1.37	8.29	12.07	21.73
	SMR	---	24.1 *	66.3	46.0 **
	RATE (COHORT)/100000	.00	119.00	438.60	263.42

DSW 147492

STLCOPCB4039339

* SIGNIFICANT AT 5% LEVEL; ** SIGNIFICANT AT 1% LEVEL

OCMAP PC: OCCUPATIONAL COHORT MORTALITY ANALYSIS PROGRAM
MODULE 1: STANDARDIZED MORTALITY RATIO ANALYSIS, VERSION 2.1

PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
EXPECTED NUMBERS BASED ON: U.S. White Population 1979-1987
CUMULATIVE EXPOSURE UNITS: Cumulative Exposure Units = YEARS

SUBGROUP DATA

NUMBER AT RISK: 160
PERSON YEARS: 1351.9

POPULATION SUBGROUP

RACE: TOTAL
SEX: MALE
CUMULATIVE EXPOSURE: <10
LATENCY: <20
TIME PERIOD: TOTAL
AGE GROUP: TOTAL

****
TABLE TYPE 4: CAUSE SPECIFIC SMR'S AND CONFIDENCE INTERVALS
****

CAUSE OF DEATH (ICDA 8TH REVISION CODES)	OBS	EXP	SMR	CONFIDENCE INTERVALS 95% LIMITS LOWER	95% LIMITS UPPER	99% LIMITS LOWER	99% LIMITS UPPER
All Causes of Death	0	3.32	---	.0	111.0	.0	159.5
All Malignant Neoplasms	0	.54	---	.0	689.5	.0	990.2
Cancer of Large Intestine	0	.04	---	.0	9685.9	.0	13910.5
Cancer of Bronchus, Trachea, Lung	0	.15	---	.0	2430.9	.0	3491.2
Cancer of Breast	0	.00	---	.0	570359.6	.0	819128.5
Cancer of Prostate (Males only)	0	.01	---	.0	65200.6	.0	93638.5
All Heart Disease	0	.67	---	.0	554.1	.0	795.8
All External Causes of Death	0	1.34	---	.0	274.4	.0	394.1
Unknown Causes (In All Causes Category Only)	0						

* SIGNIFICANT AT 5% LEVEL; ** SIGNIFICANT AT 1% LEVEL

OCMAP PC: OCCUPATIONAL COHORT MORTALITY ANALYSIS PROGRAM
MODULE 1: STANDARDIZED MORTALITY RATIO ANALYSIS, VERSION 2.1

15:10 2/23

PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
EXPECTED NUMBERS BASED ON: U.S. White Population 1979-1987
CUMULATIVE EXPOSURE UNITS: Cumulative Exposure Units = YEARS

POPULATION SUBGROUP

RACE: TOTAL
SEX: MALE
CUMULATIVE EXPOSURE: <10

DSW 147493

STLCOPCB4039340

SUBGROUP DATA

NUMBER AT RISK: 0
PERSON YEARS: .0

LATENCY: 20+
TIME PERIOD: TOTAL
AGE GROUP: TOTAL

****
TABLE TYPE 4: CAUSE SPECIFIC SMR'S AND CONFIDENCE INTERVALS
****

CAUSE OF DEATH (ICDA 8TH REVISION CODES)	OBS	EXP	SMR	CONFIDENCE INTERVALS 95% LIMITS LOWER	95% LIMITS UPPER	99% LIMITS LOWER	99% LIMITS UPPER
All Causes of Death	0	.00	---	---	---	---	---
All Malignant Neoplasms	0	.00	---	---	---	---	---
Cancer of Large Intestine	0	.00	---	---	---	---	---
Cancer of Bronchus, Trachea, Lung	0	.00	---	---	---	---	---
Cancer of Breast	0	.00	---	---	---	---	---
Cancer of Prostate (Males only)	0	.00	---	---	---	---	---
All Heart Disease	0	.00	---	---	---	---	---
All External Causes of Death	0	.00	---	---	---	---	---
Unknown Causes (In All Causes Category Only)	0						

* SIGNIFICANT AT 5% LEVEL; ** SIGNIFICANT AT 1% LEVEL

OCMAP PC: OCCUPATIONAL COHORT MORTALITY ANALYSIS PROGRAM
MODULE 1: STANDARDIZED MORTALITY RATIO ANALYSIS, VERSION 2.1

15:10 2/23

PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
EXPECTED NUMBERS BASED ON: U.S. White Population 1979-1987
CUMULATIVE EXPOSURE UNITS: Cumulative Exposure Units = YEARS
SUBGROUP DATA

NUMBER AT RISK: 160
PERSON YEARS: 1351.9

POPULATION SUBGROUP

RACE: TOTAL
SEX: MALE
CUMULATIVE EXPOSURE: <10
LATENCY: TOTAL
TIME PERIOD: TOTAL
AGE GROUP: TOTAL

****
TABLE TYPE 4: CAUSE SPECIFIC SMR'S AND CONFIDENCE INTERVALS
****

DSW 147494

CONFIDENCE INTERVALS

STLCOPCB4039341

CAUSE OF DEATH (ICDA 8TH REVISION CODES)	OBS	EXP	SMR	95% LIMITS LOWER	95% LIMITS UPPER	99% LIMITS LOWER	99% LIMITS UPPER
All Causes of Death	0	3.32	---	.0	111.0	.0	159.5
All Malignant Neoplasms	0	.54	---	.0	689.5	.0	990.2
Cancer of Large Intestine	0	.04	---	.0	9685.9	.0	13910.5
Cancer of Bronchus, Trachea, Lung	0	.15	---	.0	2430.9	.0	3491.2
Cancer of Breast	0	.00	---	.0	570359.6	.0	819128.5
Cancer of Prostate (Males only)	0	.01	---	.0	65200.6	.0	93638.5
All Heart Disease	0	.67	---	.0	554.1	.0	795.8
All External Causes of Death	0	1.34	---	.0	274.4	.0	394.1
Unknown Causes (In All Causes Category Only)	0						

* SIGNIFICANT AT 5% LEVEL; ** SIGNIFICANT AT 1% LEVEL

OCMAP PC: OCCUPATIONAL COHORT MORTALITY ANALYSIS PROGRAM
MODULE 1: STANDARDIZED MORTALITY RATIO ANALYSIS, VERSION 2.1

15:10 2/23

PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
EXPECTED NUMBERS BASED ON: U.S. White Population 1979-1987
CUMULATIVE EXPOSURE UNITS: Cumulative Exposure Units = YEARS
SUBGROUP DATA

NUMBER AT RISK: 153
PERSON YEARS: 752.6

POPULATION SUBGROUP

RACE: TOTAL
SEX: MALE
CUMULATIVE EXPOSURE: 10+
LATENCY: <20
TIME PERIOD: TOTAL
AGE GROUP: TOTAL

****
TABLE TYPE 4: CAUSE SPECIFIC SMR'S AND CONFIDENCE INTERVALS
****

CAUSE OF DEATH (ICDA 8TH REVISION CODES)	OBS	EXP	SMR	CONFIDENCE INTERVALS 95% LIMITS LOWER	95% LIMITS UPPER	99% LIMITS LOWER	99% LIMITS UPPER
All Causes of Death	1	3.09	32.4	.8	180.4	.2	240.6
All Malignant Neoplasms	0	.69	---	.0	536.0	.0	769.7

DSW 147495

STLCOPCB4039342

Cancer of Large Intestine	0	.05	---	.0	7020.3	.0	10082.2
Cancer of Bronchus, Trachea, Lung	0	.25	---	.0	1504.9	.0	2161.2
Cancer of Breast	0	.00	---	.0	432293.1	.0	620842.7
Cancer of Prostate (Males only)	0	.01	---	.0	34337.9	.0	49314.8
All Heart Disease	0	.98	---	.0	377.0	.0	541.5
All External Causes of Death	1	.66	151.7	3.8	845.5	.8	1127.4
Unknown Causes (In All Causes Category Only)	0						

* SIGNIFICANT AT 5% LEVEL; ** SIGNIFICANT AT 1% LEVEL

OCMAP PC: OCCUPATIONAL COHORT MORTALITY ANALYSIS PROGRAM 15:10 2/23
MODULE 1: STANDARDIZED MORTALITY RATIO ANALYSIS, VERSION 2.1

PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
EXPECTED NUMBERS BASED ON: U.S. White Population 1979-1987
CUMULATIVE EXPOSURE UNITS: Cumulative Exposure Units = YEARS
SUBGROUP DATA

NUMBER AT RISK: 156
PERSON YEARS: 1126.9

POPULATION SUBGROUP

RACE: TOTAL
SEX: MALE
CUMULATIVE EXPOSURE: 10+
LATENCY: 20+
TIME PERIOD: TOTAL
AGE GROUP: TOTAL

****
TABLE TYPE 4: CAUSE SPECIFIC SMR'S AND CONFIDENCE INTERVALS
****

CAUSE OF DEATH (ICDA 8TH REVISION CODES)	OBS	EXP	SMR	CONFIDENCE INTERVALS 95% LIMITS LOWER	95% LIMITS UPPER	99% LIMITS LOWER	99% LIMITS UPPER
All Causes of Death	8	13.53	59.1	25.5	116.5	19.0	137.3
All Malignant Neoplasms	3	3.91	76.7	15.8	224.2	8.6	280.7
Cancer of Large Intestine	1	.33	299.1	7.5	1666.5	1.5	2222.2
Cancer of Bronchus, Trachea, Lung	1	1.56	64.1	1.6	357.1	.3	476.2
Cancer of Breast	0	.00	---	.0	84036.4	.0	120689.9
Cancer of Prostate (Males only)	0	.19	---	.0	1947.0	.0	2796.2
All Heart Disease	4	5.22	76.7	20.9	196.3	12.9	241.4

DSW 147496

STLCOPCB4039343

All External Causes of Death	0	.98	---	.0	378.0	.0	542.9

Unknown Causes (In All Causes Category Only) 0

* SIGNIFICANT AT 5% LEVEL; ** SIGNIFICANT AT 1% LEVEL

OCMAP PC: OCCUPATIONAL COHORT MORTALITY ANALYSIS PROGRAM 15:10 2/23
MODULE 1: STANDARDIZED MORTALITY RATIO ANALYSIS, VERSION 2.1

PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
EXPECTED NUMBERS BASED ON: U.S. White Population 1979-1987
CUMULATIVE EXPOSURE UNITS: Cumulative Exposure Units = YEARS
SUBGROUP DATA

NUMBER AT RISK: 204
PERSON YEARS: 1879.6

POPULATION SUBGROUP

RACE: TOTAL
SEX: MALE
CUMULATIVE EXPOSURE: 10+
LATENCY: TOTAL
TIME PERIOD: TOTAL
AGE GROUP: TOTAL

****
TABLE TYPE 4: CAUSE SPECIFIC SMR'S AND CONFIDENCE INTERVALS
****

CAUSE OF DEATH (ICDA 8TH REVISION CODES)	OBS	EXP	SMR	CONFIDENCE INTERVALS 95% LIMITS LOWER	95% LIMITS UPPER	99% LIMITS LOWER	99% LIMITS UPPER
All Causes of Death	9	16.62	54.1	24.8	102.8	18.8	120.3
All Malignant Neoplasms	3	4.60	65.2	13.5	190.7	7.4	238.7
Cancer of Large Intestine	1	.39	258.5	6.5	1440.2	1.3	1920.4
Cancer of Bronchus, Trachea, Lung	1	1.81	55.4	1.4	308.6	.3	411.6
Cancer of Breast	0	.01	---	.0	70358.9	.0	101046.7
Cancer of Prostate (Males only)	0	.20	---	.0	1842.5	.0	2646.1
All Heart Disease	4	6.20	64.6	17.6	165.3	10.8	203.3
All External Causes of Death	1	1.63	61.2	1.5	340.8	.3	454.5

Unknown Causes (In All Causes Category Only) 0

* SIGNIFICANT AT 5% LEVEL; ** SIGNIFICANT AT 1% LEVEL

OCMAP PC: OCCUPATIONAL COHORT MORTALITY ANALYSIS PROGRAM 15:10 2/23
MODULE 1: STANDARDIZED MORTALITY RATIO ANALYSIS, VERSION 2.1
POPULATION SUBGROUP

DSW 147497

STLCOPCB4039344

PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
EXPECTED NUMBERS BASED ON: U.S. White Population 1979-1987
CUMULATIVE EXPOSURE UNITS: Cumulative Exposure Units = YEARS
SUBGROUP DATA

NUMBER AT RISK: 265
PERSON YEARS: 2104.6

RACE: TOTAL
SEX: MALE
CUMULATIVE EXPOSURE: TOTAL
LATENCY: <20
TIME PERIOD: TOTAL
AGE GROUP: TOTAL

****
TABLE TYPE 4: CAUSE SPECIFIC SMR'S AND CONFIDENCE INTERVALS
****

CAUSE OF DEATH (ICDA 8TH REVISION CODES)	OBS	EXP	SMR	CONFIDENCE INTERVALS 95% LIMITS LOWER	95% LIMITS UPPER	99% LIMITS LOWER	99% LIMITS UPPER
All Causes of Death	1	6.41	15.6 *	.4	86.9	.1	115.9
All Malignant Neoplasms	0	1.22	---	.0	301.6	.0	433.1
Cancer of Large Intestine	0	.09	---	.0	4070.2	.0	5845.5
Cancer of Bronchus, Trachea, Lung	0	.40	---	.0	929.5	.0	1334.9
Cancer of Breast	0	.00	---	.0	245910.2	.0	353166.8
Cancer of Prostate (Males only)	0	.02	---	.0	22492.3	.0	32302.6
All Heart Disease	0	1.64	---	.0	224.4	.0	322.2
All External Causes of Death	1	2.00	49.9	1.2	278.1	.2	370.9
Unknown Causes (In All Causes Category Only)	0						

* SIGNIFICANT AT 5% LEVEL; ** SIGNIFICANT AT 1% LEVEL

OCMAP PC: OCCUPATIONAL COHORT MORTALITY ANALYSIS PROGRAM
MODULE 1: STANDARDIZED MORTALITY RATIO ANALYSIS, VERSION 2.1

15:10 2/23

PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
EXPECTED NUMBERS BASED ON: U.S. White Population 1979-1987
CUMULATIVE EXPOSURE UNITS: Cumulative Exposure Units = YEARS
SUBGROUP DATA

NUMBER AT RISK: 156
PERSON YEARS: 1126.9

POPULATION SUBGROUP
RACE: TOTAL
SEX: MALE
CUMULATIVE EXPOSURE: TOTAL
LATENCY: 20+
TIME PERIOD: TOTAL
AGE GROUP: TOTAL

****

DSW 147498

STLCOPCB4039345

TABLE TYPE 4: CAUSE SPECIFIC SMR'S AND CONFIDENCE INTERVALS
****

CAUSE OF DEATH (ICDA 8TH REVISION CODES)	OBS	EXP	SMR	CONFIDENCE INTERVALS 95% LIMITS LOWER	95% LIMITS UPPER	99% LIMITS LOWER	99% LIMITS UPPER
All Causes of Death	8	13.53	59.1	25.5	116.5	19.0	137.3
All Malignant Neoplasms	3	3.91	76.7	15.8	224.2	8.6	280.7
Cancer of Large Intestine	1	.33	299.1	7.5	1666.5	1.5	2222.2
Cancer of Bronchus, Trachea, Lung	1	1.56	64.1	1.6	357.1	.3	476.2
Cancer of Breast	0	.00	---	.0	84036.4	.0	120689.9
Cancer of Prostate (Males only)	0	.19	---	.0	1947.0	.0	2796.2
All Heart Disease	4	5.22	76.7	20.9	196.3	12.9	241.4
All External Causes of Death	0	.98	---	.0	378.0	.0	542.9
Unknown Causes (In All Causes Category Only)	0						

* SIGNIFICANT AT 5% LEVEL; ** SIGNIFICANT AT 1% LEVEL

OCMAP PC: OCCUPATIONAL COHORT MORTALITY ANALYSIS PROGRAM
MODULE 1: STANDARDIZED MORTALITY RATIO ANALYSIS, VERSION 2.1

15:10 2/23

PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
EXPECTED NUMBERS BASED ON: U.S. White Population 1979-1987
CUMULATIVE EXPOSURE UNITS: Cumulative Exposure Units = YEARS
SUBGROUP DATA

NUMBER AT RISK: 316
PERSON YEARS: 3231.5

POPULATION SUBGROUP

RACE: TOTAL
SEX: MALE
CUMULATIVE EXPOSURE: TOTAL
LATENCY: TOTAL
TIME PERIOD: TOTAL
AGE GROUP: TOTAL

****
TABLE TYPE 4: CAUSE SPECIFIC SMR'S AND CONFIDENCE INTERVALS
****

CAUSE OF DEATH (ICDA 8TH REVISION CODES)	OBS	EXP	SMR	CONFIDENCE INTERVALS 95% LIMITS LOWER	95% LIMITS UPPER	99% LIMITS LOWER	99% LIMITS UPPER

DSW 147499

STLCOPCB4039346

All Causes of Death	9	19.94	45.1 *	20.6	85.7	15.7	100.3
All Malignant Neoplasms	3	5.13	58.4	12.1	170.8	6.6	213.8
Cancer of Large Intestine	1	.42	235.3	5.9	1311.1	1.2	1748.3
Cancer of Bronchus, Trachea, Lung	1	1.96	51.1	1.3	284.7	.3	379.6
Cancer of Breast	0	.01	---	.0	62632.6	.0	89950.6
Cancer of Prostate (Males only)	0	.21	---	.0	1791.9	.0	2573.4
All Heart Disease	4	6.86	58.3	15.9	149.3	9.8	183.5
All External Causes of Death	1	2.98	33.6	.8	187.0	.2	249.4
Unknown Causes (In All Causes Category Only)	0						

* SIGNIFICANT AT 5% LEVEL; ** SIGNIFICANT AT 1% LEVEL

OCMAP PC: OCCUPATIONAL COHORT MORTALITY ANALYSIS PROGRAM
MODULE 1: STANDARDIZED MORTALITY RATIO ANALYSIS, VERSION 2.1

15:10 2/23

PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
EXPECTED NUMBERS BASED ON: U.S. White Population 1979-1987
CUMULATIVE EXPOSURE UNITS: Cumulative Exposure Units = YEARS
SUBGROUP DATA

NUMBER AT RISK: 51
PERSON YEARS: 424.2

POPULATION SUBGROUP

RACE: TOTAL
SEX: FEMALE
CUMULATIVE EXPOSURE: <10
LATENCY: <20
TIME PERIOD: TOTAL
AGE GROUP: TOTAL

****
TABLE TYPE 4: CAUSE SPECIFIC SMR'S AND CONFIDENCE INTERVALS
****

				CONFIDENCE INTERVALS			
				95% LIMITS		99% LIMITS	
CAUSE OF DEATH (ICDA 8TH REVISION CODES)	OBS	EXP	SMR	LOWER	UPPER	LOWER	UPPER
All Causes of Death	0	.61	---	.0	605.3	.0	869.4
All Malignant Neoplasms	0	.24	---	.0	1565.7	.0	2248.6
Cancer of Large Intestine	0	.01	---	.0	26496.0	.0	38052.6
Cancer of Bronchus, Trachea, Lung	0	.04	---	.0	9403.9	.0	13505.5
Cancer of Breast	0	.07	---	.0	5170.9	.0	7426.2

DSW 147500

STLCOPCB4039347

Cancer of Prostate (Males only)	0	.00	---	---	---	---	---
All Heart Disease	0	.09	---	.0	4314.0	.0	6195.6
All External Causes of Death	0	.12	---	.0	3088.5	.0	4435.6

Unknown Causes (In All Causes Category Only) 0

* SIGNIFICANT AT 5% LEVEL; ** SIGNIFICANT AT 1% LEVEL

OCMAP PC: OCCUPATIONAL COHORT MORTALITY ANALYSIS PROGRAM 15:10 2/23
MODULE 1: STANDARDIZED MORTALITY RATIO ANALYSIS, VERSION 2.1

PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
EXPECTED NUMBERS BASED ON: U.S. White Population 1979-1987
CUMULATIVE EXPOSURE UNITS: Cumulative Exposure Units = YEARS
SUBGROUP DATA

NUMBER AT RISK: 0
PERSON YEARS: .0

POPULATION SUBGROUP

RACE: TOTAL
SEX: FEMALE
CUMULATIVE EXPOSURE: <10
LATENCY: 20+
TIME PERIOD: TOTAL
AGE GROUP: TOTAL

****
TABLE TYPE 4: CAUSE SPECIFIC SMR'S AND CONFIDENCE INTERVALS
****

CAUSE OF DEATH (ICDA 8TH REVISION CODES)	OBS	EXP	SMR	CONFIDENCE INTERVALS 95% LIMITS LOWER	95% LIMITS UPPER	99% LIMITS LOWER	99% LIMITS UPPER
All Causes of Death	0	.00	---	---	---	---	---
All Malignant Neoplasms	0	.00	---	---	---	---	---
Cancer of Large Intestine	0	.00	---	---	---	---	---
Cancer of Bronchus, Trachea, Lung	0	.00	---	---	---	---	---
Cancer of Breast	0	.00	---	---	---	---	---
Cancer of Prostate (Males only)	0	.00	---	---	---	---	---
All Heart Disease	0	.00	---	---	---	---	---
All External Causes of Death	0	.00	---	---	---	---	---

Unknown Causes (In All Causes Category Only) 0

* SIGNIFICANT AT 5% LEVEL; ** SIGNIFICANT AT 1% LEVEL

DSW 147501

STLCOPCB4039348

OCMAP PC: OCCUPATIONAL COHORT MORTALITY ANALYSIS PROGRAM
MODULE 1: STANDARDIZED MORTALITY RATIO ANALYSIS, VERSION 2.1

15:10 2/23

PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
EXPECTED NUMBERS BASED ON: U.S. White Population 1979-1987
CUMULATIVE EXPOSURE UNITS: Cumulative Exposure Units = YEARS
SUBGROUP DATA

NUMBER AT RISK: 51
PERSON YEARS: 424.2

POPULATION SUBGROUP
RACE: TOTAL
SEX: FEMALE
CUMULATIVE EXPOSURE: <10
LATENCY: TOTAL
TIME PERIOD: TOTAL
AGE GROUP: TOTAL

****
TABLE TYPE 4: CAUSE SPECIFIC SMR'S AND CONFIDENCE INTERVALS
****

CAUSE OF DEATH (ICDA 8TH REVISION CODES)	OBS	EXP	SMR	CONFIDENCE INTERVALS 95% LIMITS LOWER	95% LIMITS UPPER	99% LIMITS LOWER	99% LIMITS UPPER
All Causes of Death	0	.61	---	.0	605.3	.0	869.4
All Malignant Neoplasms	0	.24	---	.0	1565.7	.0	2248.6
Cancer of Large Intestine	0	.01	---	.0	26496.0	.0	38052.6
Cancer of Bronchus, Trachea, Lung	0	.04	---	.0	9403.9	.0	13505.5
Cancer of Breast	0	.07	---	.0	5170.9	.0	7426.2
Cancer of Prostate (Males only)	0	.00	---	---	---	---	---
All Heart Disease	0	.09	---	.0	4314.0	.0	6195.6
All External Causes of Death	0	.12	---	.0	3088.5	.0	4435.6
Unknown Causes (In All Causes Category Only)	0						

* SIGNIFICANT AT 5% LEVEL; ** SIGNIFICANT AT 1% LEVEL

OCMAP PC: OCCUPATIONAL COHORT MORTALITY ANALYSIS PROGRAM
MODULE 1: STANDARDIZED MORTALITY RATIO ANALYSIS, VERSION 2.1

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PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
EXPECTED NUMBERS BASED ON: U.S. White Population 1979-1987
CUMULATIVE EXPOSURE UNITS: Cumulative Exposure Units = YEARS
SUBGROUP DATA

NUMBER AT RISK: 14

POPULATION SUBGROUP
RACE: TOTAL
SEX: FEMALE
CUMULATIVE EXPOSURE: 10+
LATENCY: <20
TIME PERIOD: TOTAL
AGE GROUP: TOTAL

DSW 147502

STLCOPCB4039349

PERSON YEARS: 56.7

****
TABLE TYPE 4: CAUSE SPECIFIC SMR'S AND CONFIDENCE INTERVALS
****

CAUSE OF DEATH (ICDA 8TH REVISION CODES)	OBS	EXP	SMR	CONFIDENCE INTERVALS 95% LIMITS LOWER	95% LIMITS UPPER	99% LIMITS LOWER	99% LIMITS UPPER
All Causes of Death	0	.20	---	.0	1885.6	.0	2708.1
All Malignant Neoplasms	0	.08	---	.0	4352.4	.0	6250.7
Cancer of Large Intestine	0	.01	---	.0	60496.6	.0	86882.9
Cancer of Bronchus, Trachea, Lung	0	.02	---	.0	21015.2	.0	30181.3
Cancer of Breast	0	.02	---	.0	16078.1	.0	23090.8
Cancer of Prostate (Males only)	0	.00	---	---	---	---	---
All Heart Disease	0	.04	---	.0	8940.9	.0	12840.6
All External Causes of Death	0	.02	---	.0	22585.3	.0	32436.1
Unknown Causes (In All Causes Category Only)	0						

* SIGNIFICANT AT 5% LEVEL; ** SIGNIFICANT AT 1% LEVEL

OCMAP PC: OCCUPATIONAL COHORT MORTALITY ANALYSIS PROGRAM 15:10 2/23
MODULE 1: STANDARDIZED MORTALITY RATIO ANALYSIS, VERSION 2.1

PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
EXPECTED NUMBERS BASED ON: U.S. White Population 1979-1987
CUMULATIVE EXPOSURE UNITS: Cumulative Exposure Units = YEARS
SUBGROUP DATA

NUMBER AT RISK: 9
PERSON YEARS: 83.9

POPULATION SUBGROUP
RACE: TOTAL
SEX: FEMALE
CUMULATIVE EXPOSURE: 10+
LATENCY: 20+
TIME PERIOD: TOTAL
AGE GROUP: TOTAL

****
TABLE TYPE 4: CAUSE SPECIFIC SMR'S AND CONFIDENCE INTERVALS
****

CONFIDENCE INTERVALS
95% LIMITS 99% LIMITS

DSW 147503

STLCOPCB4039350

CAUSE OF DEATH (ICDA 8TH REVISION CODES)	OBS	EXP	SMR	LOWER	UPPER	LOWER	UPPER
All Causes of Death	1	.98	102.2	2.6	569.4	.5	759.3
All Malignant Neoplasms	0	.36	---	.0	1022.6	.0	1468.7
Cancer of Large Intestine	0	.03	---	.0	10738.2	.0	15421.8
Cancer of Bronchus, Trachea, Lung	0	.08	---	.0	4504.8	.0	6469.6
Cancer of Breast	0	.07	---	.0	5092.7	.0	7314.0
Cancer of Prostate (Males only)	0	.00	---	---	---	---	---
All Heart Disease	1	.30	333.2	8.3	1856.8	1.7	2475.9
All External Causes of Death	0	.03	---	.0	12092.0	.0	17366.0
Unknown Causes (In All Causes Category Only)	0						

* SIGNIFICANT AT 5% LEVEL; ** SIGNIFICANT AT 1% LEVEL

OCMAP PC: OCCUPATIONAL COHORT MORTALITY ANALYSIS PROGRAM 15:10 2/23
MODULE 1: STANDARDIZED MORTALITY RATIO ANALYSIS, VERSION 2.1

PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
EXPECTED NUMBERS BASED ON: U.S. White Population 1979-1987
CUMULATIVE EXPOSURE UNITS: Cumulative Exposure Units = YEARS
SUBGROUP DATA

NUMBER AT RISK: 21
PERSON YEARS: 140.5

POPULATION SUBGROUP

RACE: TOTAL
SEX: FEMALE
CUMULATIVE EXPOSURE: 10+
LATENCY: TOTAL
TIME PERIOD: TOTAL
AGE GROUP: TOTAL

****
TABLE TYPE 4: CAUSE SPECIFIC SMR'S AND CONFIDENCE INTERVALS
****

				CONFIDENCE INTERVALS			
				95% LIMITS		99% LIMITS	
CAUSE OF DEATH (ICDA 8TH REVISION CODES)	OBS	EXP	SMR	LOWER	UPPER	LOWER	UPPER
All Causes of Death	1	1.17	85.2	2.1	474.5	.4	632.8
All Malignant Neoplasms	0	.45	---	.0	828.1	.0	1189.2
Cancer of Large Intestine	0	.04	---	.0	9119.5	.0	13097.0
Cancer of Bronchus, Trachea, Lung	0	.10	---	.0	3709.6	.0	5327.6

DSW 147504

STLCOPCB4039351

Cancer of Breast	0	.10	---	.0	3867.6	.0	5554.6
Cancer of Prostate (Males only)	0	.00	---	---	---	---	---
All Heart Disease	1	.34	293.0	7.3	1632.3	1.5	2176.6
All External Causes of Death	0	.05	---	.0	7875.5	.0	11310.5
Unknown Causes (In All Causes Category Only)	0						

* SIGNIFICANT AT 5% LEVEL; ** SIGNIFICANT AT 1% LEVEL

OCMAP PC: OCCUPATIONAL COHORT MORTALITY ANALYSIS PROGRAM
MODULE 1: STANDARDIZED MORTALITY RATIO ANALYSIS, VERSION 2.1

15:10 2/23

PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
EXPECTED NUMBERS BASED ON: U.S. White Population 1979-1987
CUMULATIVE EXPOSURE UNITS: Cumulative Exposure Units = YEARS
SUBGROUP DATA

NUMBER AT RISK: 53
PERSON YEARS: 480.9

POPULATION SUBGROUP

RACE: TOTAL
SEX: FEMALE
CUMULATIVE EXPOSURE: TOTAL
LATENCY: <20
TIME PERIOD: TOTAL
AGE GROUP: TOTAL

****
TABLE TYPE 4: CAUSE SPECIFIC SMR'S AND CONFIDENCE INTERVALS
****

				CONFIDENCE INTERVALS			
				95% LIMITS		99% LIMITS	
CAUSE OF DEATH (ICDA 8TH REVISION CODES)	OBS	EXP	SMR	LOWER	UPPER	LOWER	UPPER
All Causes of Death	0	.81	---	.0	458.2	.0	658.1
All Malignant Neoplasms	0	.32	---	.0	1151.5	.0	1653.7
Cancer of Large Intestine	0	.02	---	.0	18425.9	.0	26462.6
Cancer of Bronchus, Trachea, Lung	0	.06	---	.0	6496.7	.0	9330.4
Cancer of Breast	0	.09	---	.0	3912.5	.0	5619.0
Cancer of Prostate (Males only)	0	.00	---	---	---	---	---
All Heart Disease	0	.13	---	.0	2910.0	.0	4179.2
All External Causes of Death	0	.14	---	.0	2717.0	.0	3902.0
Unknown Causes (In All Causes Category Only)	0						

DSW 147505

STLCOPCB4039352

* SIGNIFICANT AT 5% LEVEL; ** SIGNIFICANT AT 1% LEVEL

OCMAP PC: OCCUPATIONAL COHORT MORTALITY ANALYSIS PROGRAM
MODULE 1: STANDARDIZED MORTALITY RATIO ANALYSIS, VERSION 2.1

15:10 2/23

PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
EXPECTED NUMBERS BASED ON: U.S. White Population 1979-1987
CUMULATIVE EXPOSURE UNITS: Cumulative Exposure Units = YEARS

POPULATION SUBGROUP
RACE: TOTAL
SEX: FEMALE
CUMULATIVE EXPOSURE: TOTAL
LATENCY: 20+
TIME PERIOD: TOTAL
AGE GROUP: TOTAL

SUBGROUP DATA
NUMBER AT RISK: 9
PERSON YEARS: 83.9

****
TABLE TYPE 4: CAUSE SPECIFIC SMR'S AND CONFIDENCE INTERVALS
****

CAUSE OF DEATH (ICDA 8TH REVISION CODES)	OBS	EXP	SMR	CONFIDENCE INTERVALS 95% LIMITS LOWER	95% LIMITS UPPER	99% LIMITS LOWER	99% LIMITS UPPER
All Causes of Death	1	.98	102.2	2.6	569.4	.5	759.3
All Malignant Neoplasms	0	.36	---	.0	1022.6	.0	1468.7
Cancer of Large Intestine	0	.03	---	.0	10738.2	.0	15421.8
Cancer of Bronchus, Trachea, Lung	0	.08	---	.0	4504.8	.0	6469.6
Cancer of Breast	0	.07	---	.0	5092.7	.0	7314.0
Cancer of Prostate (Males only)	0	.00	---	---	---	---	---
All Heart Disease	1	.30	333.2	8.3	1856.8	1.7	2475.9
All External Causes of Death	0	.03	---	.0	12092.0	.0	17366.0
Unknown Causes (In All Causes Category Only)	0						

* SIGNIFICANT AT 5% LEVEL; ** SIGNIFICANT AT 1% LEVEL

OCMAP PC: OCCUPATIONAL COHORT MORTALITY ANALYSIS PROGRAM
MODULE 1: STANDARDIZED MORTALITY RATIO ANALYSIS, VERSION 2.1

15:10 2/23

PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
EXPECTED NUMBERS BASED ON: U.S. White Population 1979-1987
CUMULATIVE EXPOSURE UNITS: Cumulative Exposure Units = YEARS

POPULATION SUBGROUP
RACE: TOTAL
SEX: FEMALE
CUMULATIVE EXPOSURE: TOTAL

STLCOPCB4039353

DSW 147506

SUBGROUP DATA

NUMBER AT RISK: 60
PERSON YEARS: 564.7

LATENCY: TOTAL
TIME PERIOD: TOTAL
AGE GROUP: TOTAL

****
TABLE TYPE 4: CAUSE SPECIFIC SMR'S AND CONFIDENCE INTERVALS
****

CAUSE OF DEATH (ICDA 8TH REVISION CODES)	OBS	EXP	SMR	CONFIDENCE INTERVALS 95% LIMITS LOWER	95% LIMITS UPPER	99% LIMITS LOWER	99% LIMITS UPPER
All Causes of Death	1	1.78	56.1	1.4	312.4	.3	416.6
All Malignant Neoplasms	0	.68	---	.0	541.6	.0	777.9
Cancer of Large Intestine	0	.05	---	.0	6784.4	.0	9743.5
Cancer of Bronchus, Trachea, Lung	0	.14	---	.0	2660.2	.0	3820.5
Cancer of Breast	0	.17	---	.0	2212.7	.0	3177.7
Cancer of Prostate (Males only)	0	.00	---	---	---	---	---
All Heart Disease	1	.43	234.3	5.9	1305.3	1.2	1740.6
All External Causes of Death	0	.17	---	.0	2218.5	.0	3186.1
Unknown Causes (In All Causes Category Only)	0						

* SIGNIFICANT AT 5% LEVEL; ** SIGNIFICANT AT 1% LEVEL

OCMAP PC: OCCUPATIONAL COHORT MORTALITY ANALYSIS PROGRAM
MODULE 1: STANDARDIZED MORTALITY RATIO ANALYSIS, VERSION 2.1

15:10 2/23

PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
EXPECTED NUMBERS BASED ON: U.S. White Population 1979-1987
CUMULATIVE EXPOSURE UNITS: Cumulative Exposure Units = YEARS

POPULATION SUBGROUP
RACE: TOTAL
SEX: TOTAL
CUMULATIVE EXPOSURE: <10
LATENCY: <20
TIME PERIOD: TOTAL
AGE GROUP: TOTAL

SUBGROUP DATA

NUMBER AT RISK: 211
PERSON YEARS: 1776.1

****
TABLE TYPE 4: CAUSE SPECIFIC SMR'S AND CONFIDENCE INTERVALS
****

DSW 147507

CONFIDENCE INTERVALS

STLCOPCB4039354

CAUSE OF DEATH (ICDA 8TH REVISION CODES)	OBS	EXP	SMR	95% LIMITS LOWER	95% LIMITS UPPER	99% LIMITS LOWER	99% LIMITS UPPER
All Causes of Death	0	3.93	--- *	.0	93.8	.0	134.8
All Malignant Neoplasms	0	.77	---	.0	478.7	.0	687.5
Cancer of Large Intestine	0	.05	---	.0	7093.0	.0	10186.7
Cancer of Bronchus, Trachea, Lung	0	.19	---	.0	1931.6	.0	2774.1
Cancer of Breast	0	.07	---	.0	5124.4	.0	7359.5
Cancer of Prostate (Males only)	0	.01	---	.0	65200.6	.0	93638.5
All Heart Disease	0	.75	---	.0	491.0	.0	705.2
All External Causes of Death	0	1.46	---	.0	252.0	.0	362.0
Unknown Causes (In All Causes Category Only)	0						

* SIGNIFICANT AT 5% LEVEL; ** SIGNIFICANT AT 1% LEVEL

OCMAP PC: OCCUPATIONAL COHORT MORTALITY ANALYSIS PROGRAM 15:10 2/23
MODULE 1: STANDARDIZED MORTALITY RATIO ANALYSIS, VERSION 2.1

PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
EXPECTED NUMBERS BASED ON: U.S. White Population 1979-1987
CUMULATIVE EXPOSURE UNITS: Cumulative Exposure Units = YEARS
SUBGROUP DATA

NUMBER AT RISK: 0
PERSON YEARS: .0

POPULATION SUBGROUP

RACE: TOTAL
SEX: TOTAL
CUMULATIVE EXPOSURE: <10
LATENCY: 20+
TIME PERIOD: TOTAL
AGE GROUP: TOTAL

****
TABLE TYPE 4: CAUSE SPECIFIC SMR'S AND CONFIDENCE INTERVALS
****

CAUSE OF DEATH (ICDA 8TH REVISION CODES)	OBS	EXP	SMR	CONFIDENCE INTERVALS 95% LIMITS LOWER	95% LIMITS UPPER	99% LIMITS LOWER	99% LIMITS UPPER
All Causes of Death	0	.00	---	---	---	---	---
All Malignant Neoplasms	0	.00	---	---	---	---	---

STLCOPCB4039355

DSW 147508

Cancer of Large Intestine	0	.00	---	---	---	---	---
Cancer of Bronchus, Trachea, Lung	0	.00	---	---	---	---	---
Cancer of Breast	0	.00	---	---	---	---	---
Cancer of Prostate (Males only)	0	.00	---	---	---	---	---
All Heart Disease	0	.00	---	---	---	---	---
All External Causes of Death	0	.00	---	---	---	---	---
Unknown Causes (In All Causes Category Only)	0						

* SIGNIFICANT AT 5% LEVEL; ** SIGNIFICANT AT 1% LEVEL

OCMAP PC: OCCUPATIONAL COHORT MORTALITY ANALYSIS PROGRAM
MODULE 1: STANDARDIZED MORTALITY RATIO ANALYSIS, VERSION 2.1

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PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
EXPECTED NUMBERS BASED ON: U.S. White Population 1979-1987
CUMULATIVE EXPOSURE UNITS: Cumulative Exposure Units = YEARS
SUBGROUP DATA

NUMBER AT RISK: 211
PERSON YEARS: 1776.1

POPULATION SUBGROUP

RACE: TOTAL
SEX: TOTAL
CUMULATIVE EXPOSURE: <10
LATENCY: TOTAL
TIME PERIOD: TOTAL
AGE GROUP: TOTAL

****
TABLE TYPE 4: CAUSE SPECIFIC SMR'S AND CONFIDENCE INTERVALS
****

CAUSE OF DEATH (ICDA 8TH REVISION CODES)	OBS	EXP	SMR	CONFIDENCE INTERVALS 95% LIMITS LOWER	95% LIMITS UPPER	99% LIMITS LOWER	99% LIMITS UPPER
All Causes of Death	0	3.93	--- *	.0	93.8	.0	134.8
All Malignant Neoplasms	0	.77	---	.0	478.7	.0	687.5
Cancer of Large Intestine	0	.05	---	.0	7093.0	.0	10186.7
Cancer of Bronchus, Trachea, Lung	0	.19	---	.0	1931.6	.0	2774.1
Cancer of Breast	0	.07	---	.0	5124.4	.0	7359.5
Cancer of Prostate (Males only)	0	.01	---	.0	65200.6	.0	93638.5
All Heart Disease	0	.75	---	.0	491.0	.0	705.2

DSW 147509

STLCOPCB4039356

All External Causes of Death	0	1.46	---	.0	252.0	.0	362.0
Unknown Causes (In All Causes Category Only)	0						

* SIGNIFICANT AT 5% LEVEL; ** SIGNIFICANT AT 1% LEVEL

OCMAP PC: OCCUPATIONAL COHORT MORTALITY ANALYSIS PROGRAM
MODULE 1: STANDARDIZED MORTALITY RATIO ANALYSIS, VERSION 2.1

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PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
EXPECTED NUMBERS BASED ON: U.S. White Population 1979-1987
CUMULATIVE EXPOSURE UNITS: Cumulative Exposure Units = YEARS
SUBGROUP DATA

NUMBER AT RISK: 167
PERSON YEARS: 809.3

POPULATION SUBGROUP

RACE: TOTAL
SEX: TOTAL
CUMULATIVE EXPOSURE: 10+
LATENCY: <20
TIME PERIOD: TOTAL
AGE GROUP: TOTAL

****
TABLE TYPE 4: CAUSE SPECIFIC SMR'S AND CONFIDENCE INTERVALS
****

				CONFIDENCE INTERVALS			
				95% LIMITS		99% LIMITS	
CAUSE OF DEATH (ICDA 8TH REVISION CODES)	OBS	EXP	SMR	LOWER	UPPER	LOWER	UPPER
All Causes of Death	1	3.28	30.4	.8	169.7	.2	226.2
All Malignant Neoplasms	0	.77	---	.0	477.2	.0	685.3
Cancer of Large Intestine	0	.06	---	.0	6290.3	.0	9033.9
Cancer of Bronchus, Trachea, Lung	0	.26	---	.0	1404.3	.0	2016.8
Cancer of Breast	0	.02	---	.0	15501.6	.0	22262.8
Cancer of Prostate (Males only)	0	.01	---	.0	34337.9	.0	49314.8
All Heart Disease	0	1.02	---	.0	361.8	.0	519.6
All External Causes of Death	1	.68	148.1	3.7	825.0	.7	1100.1
Unknown Causes (In All Causes Category Only)	0						

* SIGNIFICANT AT 5% LEVEL; ** SIGNIFICANT AT 1% LEVEL

OCMAP PC: OCCUPATIONAL COHORT MORTALITY ANALYSIS PROGRAM
MODULE 1: STANDARDIZED MORTALITY RATIO ANALYSIS, VERSION 2.1

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POPULATION SUBGROUP

STLCOPCB4039357

DSW 147510

PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
EXPECTED NUMBERS BASED ON: U.S. White Population 1979-1987
CUMULATIVE EXPOSURE UNITS: Cumulative Exposure Units = YEARS
SUBGROUP DATA

NUMBER AT RISK: 165
PERSON YEARS: 1210.8

POPULATION SUBGROUP

RACE: TOTAL
SEX: TOTAL
CUMULATIVE EXPOSURE: 10+
LATENCY: 20+
TIME PERIOD: TOTAL
AGE GROUP: TOTAL

****
TABLE TYPE 4: CAUSE SPECIFIC SMR'S AND CONFIDENCE INTERVALS
****

CAUSE OF DEATH (ICDA 8TH REVISION CODES)	OBS	EXP	SMR	CONFIDENCE INTERVALS 95% LIMITS LOWER	95% LIMITS UPPER	99% LIMITS LOWER	99% LIMITS UPPER
All Causes of Death	9	14.51	62.0	28.4	117.7	21.6	137.8
All Malignant Neoplasms	3	4.27	70.2	14.5	205.3	7.9	257.0
Cancer of Large Intestine	1	.37	271.2	6.8	1511.3	1.4	2015.2
Cancer of Bronchus, Trachea, Lung	1	1.64	60.9	1.5	339.3	.3	452.5
Cancer of Breast	0	.08	---	.0	4801.7	.0	6896.1
Cancer of Prostate (Males only)	0	.19	---	.0	1947.0	.0	2796.2
All Heart Disease	5	5.52	90.6	29.4	211.5	19.5	256.5
All External Causes of Death	0	1.01	---	.0	366.6	.0	526.5
Unknown Causes (In All Causes Category Only)	0						

* SIGNIFICANT AT 5% LEVEL; ** SIGNIFICANT AT 1% LEVEL

OCMAP PC: OCCUPATIONAL COHORT MORTALITY ANALYSIS PROGRAM
MODULE 1: STANDARDIZED MORTALITY RATIO ANALYSIS, VERSION 2.1

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PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
EXPECTED NUMBERS BASED ON: U.S. White Population 1979-1987
CUMULATIVE EXPOSURE UNITS: Cumulative Exposure Units = YEARS
SUBGROUP DATA

NUMBER AT RISK: 225
PERSON YEARS: 2020.1

POPULATION SUBGROUP

RACE: TOTAL
SEX: TOTAL
CUMULATIVE EXPOSURE: 10+
LATENCY: TOTAL
TIME PERIOD: TOTAL
AGE GROUP: TOTAL

****

DSW 147511

STLCOPCB4039358

TABLE TYPE 4: CAUSE SPECIFIC SMR'S AND CONFIDENCE INTERVALS
****

CAUSE OF DEATH (ICDA 8TH REVISION CODES)	OBS	EXP	SMR	CONFIDENCE INTERVALS 95% LIMITS LOWER	95% LIMITS UPPER	99% LIMITS LOWER	99% LIMITS UPPER
All Causes of Death	10	17.80	56.2	26.9	103.3	20.9	120.2
All Malignant Neoplasms	3	5.04	59.5	12.3	173.8	6.7	217.6
Cancer of Large Intestine	1	.43	234.0	5.9	1303.9	1.2	1738.6
Cancer of Bronchus, Trachea, Lung	1	1.90	52.5	1.3	292.5	.3	390.1
Cancer of Breast	0	.10	---	.0	3666.1	.0	5265.1
Cancer of Prostate (Males only)	0	.20	---	.0	1842.5	.0	2646.1
All Heart Disease	5	6.54	76.5	24.8	178.5	16.5	216.5
All External Causes of Death	1	1.68	59.5	1.5	331.3	.3	441.8
Unknown Causes (In All Causes Category Only)	0						

* SIGNIFICANT AT 5% LEVEL; ** SIGNIFICANT AT 1% LEVEL

OCMAP PC: OCCUPATIONAL COHORT MORTALITY ANALYSIS PROGRAM
MODULE 1: STANDARDIZED MORTALITY RATIO ANALYSIS, VERSION 2.1

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PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
EXPECTED NUMBERS BASED ON: U.S. White Population 1979-1987
CUMULATIVE EXPOSURE UNITS: Cumulative Exposure Units = YEARS
SUBGROUP DATA

NUMBER AT RISK: 318
PERSON YEARS: 2585.4

POPULATION SUBGROUP

RACE: TOTAL
SEX: TOTAL
CUMULATIVE EXPOSURE: TOTAL
LATENCY: <20
TIME PERIOD: TOTAL
AGE GROUP: TOTAL

****
TABLE TYPE 4: CAUSE SPECIFIC SMR'S AND CONFIDENCE INTERVALS
****

DSW 147512

CAUSE OF DEATH (ICDA 8TH REVISION CODES)	OBS	EXP	SMR	CONFIDENCE INTERVALS 95% LIMITS LOWER	95% LIMITS UPPER	99% LIMITS LOWER	99% LIMITS UPPER

STLCOPCB4039359

All Causes of Death	1	7.22	13.9 *	.3	77.2	.1	103.0
All Malignant Neoplasms	0	1.54	---	.0	239.0	.0	343.2
Cancer of Large Intestine	0	.11	---	.0	3333.8	.0	4787.9
Cancer of Bronchus, Trachea, Lung	0	.45	---	.0	813.1	.0	1167.8
Cancer of Breast	0	.10	---	.0	3851.3	.0	5531.0
Cancer of Prostate (Males only)	0	.02	---	.0	22492.3	.0	32302.6
All Heart Disease	0	1.77	---	.0	208.3	.0	299.2
All External Causes of Death	1	2.14	46.7	1.2	260.5	.2	347.4
Unknown Causes (In All Causes Category Only)	0						

* SIGNIFICANT AT 5% LEVEL; ** SIGNIFICANT AT 1% LEVEL

OCMAP PC: OCCUPATIONAL COHORT MORTALITY ANALYSIS PROGRAM
MODULE 1: STANDARDIZED MORTALITY RATIO ANALYSIS, VERSION 2.1

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PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
EXPECTED NUMBERS BASED ON: U.S. White Population 1979-1987
CUMULATIVE EXPOSURE UNITS: Cumulative Exposure Units = YEARS
SUBGROUP DATA

NUMBER AT RISK: 165
PERSON YEARS: 1210.8

POPULATION SUBGROUP

RACE: TOTAL
SEX: TOTAL
CUMULATIVE EXPOSURE: TOTAL
LATENCY: 20+
TIME PERIOD: TOTAL
AGE GROUP: TOTAL

****
TABLE TYPE 4: CAUSE SPECIFIC SMR'S AND CONFIDENCE INTERVALS
****

				CONFIDENCE INTERVALS			
				95% LIMITS		99% LIMITS	
CAUSE OF DEATH (ICDA 8TH REVISION CODES)	OBS	EXP	SMR	LOWER	UPPER	LOWER	UPPER
All Causes of Death	9	14.51	62.0	28.4	117.7	21.6	137.8
All Malignant Neoplasms	3	4.27	70.2	14.5	205.3	7.9	257.0
Cancer of Large Intestine	1	.37	271.2	6.8	1511.3	1.4	2015.2
Cancer of Bronchus, Trachea, Lung	1	1.64	60.9	1.5	339.3	.3	452.5
Cancer of Breast	0	.08	---	.0	4801.7	.0	6896.1

STLCOPCB4039360

DSW 147513

Cancer of Prostate (Males only)	0	.19	---	.0	1947.0	.0	2796.2
All Heart Disease	5	5.52	90.6	29.4	211.5	19.5	256.5
All External Causes of Death	0	1.01	---	.0	366.6	.0	526.5
Unknown Causes (In All Causes Category Only)	0						

* SIGNIFICANT AT 5% LEVEL; ** SIGNIFICANT AT 1% LEVEL

OCMAP PC: OCCUPATIONAL COHORT MORTALITY ANALYSIS PROGRAM
MODULE 1: STANDARDIZED MORTALITY RATIO ANALYSIS, VERSION 2.1

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PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
EXPECTED NUMBERS BASED ON: U.S. White Population 1979-1987
CUMULATIVE EXPOSURE UNITS: Cumulative Exposure Units = YEARS
SUBGROUP DATA

NUMBER AT RISK: 376
PERSON YEARS: 3796.3

POPULATION SUBGROUP

RACE: TOTAL
SEX: TOTAL
CUMULATIVE EXPOSURE: TOTAL
LATENCY: TOTAL
TIME PERIOD: TOTAL
AGE GROUP: TOTAL

****
TABLE TYPE 4: CAUSE SPECIFIC SMR'S AND CONFIDENCE INTERVALS
****

				CONFIDENCE INTERVALS			
				95% LIMITS		99% LIMITS	
CAUSE OF DEATH (ICDA 8TH REVISION CODES)	OBS	EXP	SMR	LOWER	UPPER	LOWER	UPPER
All Causes of Death	10	21.73	46.0 **	22.1	84.6	17.1	98.5
All Malignant Neoplasms	3	5.81	51.6	10.6	150.8	5.8	188.8
Cancer of Large Intestine	1	.48	208.6	5.2	1162.4	1.0	1550.0
Cancer of Bronchus, Trachea, Lung	1	2.10	47.7	1.2	265.9	.2	354.5
Cancer of Breast	0	.17	---	.0	2137.2	.0	3069.3
Cancer of Prostate (Males only)	0	.21	---	.0	1791.9	.0	2573.4
All Heart Disease	5	7.29	68.6	22.3	160.1	14.8	194.1
All External Causes of Death	1	3.15	31.8	.8	177.1	.2	236.2
Unknown Causes (In All Causes Category Only)	0						

* SIGNIFICANT AT 5% LEVEL; ** SIGNIFICANT AT 1% LEVEL

DSW 147514

STLCOPCB4039361

PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
EXPECTED NUMBERS BASED ON: U.S. White Population 1979-1987
CUMULATIVE EXPOSURE UNITS: Cumulative Exposure Units = YEARS

POPULATION SUBGROUP
RACE: TOTAL
SEX: MALE
TIME PERIOD: TOTAL
AGE GROUP: TOTAL

****
TABLE TYPE 5: MORTALITY BY CUMULATIVE EXPOSURE AND LATENCY
****

CAUSE OF DEATH: All Causes of Death

LATENCY		CUMULATIVE-EXPOSURE <10	10+	TOTAL	
<20	OBS	0	1	1	
	EXP	3.32	3.09	6.41	
	SMR (SIG)	---	32.4	15.6	*
	AT RISK	160	153	265	
	PERSON YRS	1351.9	752.6	2104.6	
20+	OBS	0	8	8	
	EXP	.00	13.53	13.53	
	SMR (SIG)	---	59.1	59.1	
	AT RISK	0	156	156	
	PERSON YRS	.0	1126.9	1126.9	
TOTAL	OBS	0	9	9	
	EXP	3.32	16.62	19.94	
	SMR (SIG)	---	54.1	45.1	*
	AT RISK	160	204	316	
	PERSON YRS	1351.9	1879.6	3231.5	

* SIGNIFICANT AT 5% LEVEL; ** SIGNIFICANT AT 1% LEVEL

	INTERVAL FROM ONSET OF EXPOSURE (DECEDENTS ONLY)	CUMULATIVE EXPOSURE (DECEDENTS ONLY)
MINIMUM	13.89589	12.75017
MAXIMUM	48.45480	40.06845
MEAN	29.81126	26.03848

DSW 147515
STLCOPCB4039362

PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
EXPECTED NUMBERS BASED ON: U.S. White Population 1979-1987
CUMULATIVE EXPOSURE UNITS: Cumulative Exposure Units = YEARS

RACE: TOTAL
SEX: FEMALE
TIME PERIOD: TOTAL
AGE GROUP: TOTAL

****
TABLE TYPE 5: MORTALITY BY CUMULATIVE EXPOSURE AND LATENCY
****

CAUSE OF DEATH: All Causes of Death

LATENCY		CUMULATIVE-EXPOSURE <10	10+	TOTAL
<20	OBS	0	0	0
	EXP	.61	.20	.81
	SMR (SIG)	---	---	---
	AT RISK	51	14	53
	PERSON YRS	424.2	56.7	480.9
20+	OBS	0	1	1
	EXP	.00	.98	.98
	SMR (SIG)	---	102.2	102.2
	AT RISK	0	9	9
	PERSON YRS	.0	83.9	83.9
TOTAL	OBS	0	1	1
	EXP	.61	1.17	1.78
	SMR (SIG)	---	85.2	56.1
	AT RISK	51	21	60
	PERSON YRS	424.2	140.5	564.7

* SIGNIFICANT AT 5% LEVEL; ** SIGNIFICANT AT 1% LEVEL

	INTERVAL FROM ONSET OF EXPOSURE (DECEDENTS ONLY)	CUMULATIVE EXPOSURE (DECEDENTS ONLY)
MINIMUM	45.78082	37.26762
MAXIMUM	45.78082	37.26762
MEAN	45.78082	37.26762

PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
EXPECTED NUMBERS BASED ON: U.S. White Population 1979-1987

POPULATION SUBGROUP
RACE: TOTAL
SEX: TOTAL

DSW 147516

STLCOPCB4039363

CUMULATIVE EXPOSURE UNITS: Cumulative Exposure Units = YEARS

TIME PERIOD: TOTAL
AGE GROUP: TOTAL

****
TABLE TYPE 5: MORTALITY BY CUMULATIVE EXPOSURE AND LATENCY
****

CAUSE OF DEATH: All Causes of Death

LATENCY		CUMULATIVE-EXPOSURE <10	10+	TOTAL
<20	OBS	0	1	1
	EXP	3.93	3.28	7.22
	SMR (SIG)	--- *	30.4	13.9 *
	AT RISK	211	167	318
	PERSON YRS	1776.1	809.3	2585.4
20+	OBS	0	9	9
	EXP	.00	14.51	14.51
	SMR (SIG)	---	62.0	62.0
	AT RISK	0	165	165
	PERSON YRS	.0	1210.8	1210.8
TOTAL	OBS	0	10	10
	EXP	3.93	17.80	21.73
	SMR (SIG)	--- *	56.2	46.0 **
	AT RISK	211	225	376
	PERSON YRS	1776.1	2020.1	3796.3

* SIGNIFICANT AT 5% LEVEL; ** SIGNIFICANT AT 1% LEVEL

	INTERVAL FROM ONSET OF EXPOSURE (DECEDENTS ONLY)	CUMULATIVE EXPOSURE (DECEDENTS ONLY)
MINIMUM	13.89589	12.75017
MAXIMUM	48.45480	40.06845
MEAN	31.40822	27.16140

OCMAP PC: OCCUPATIONAL COHORT MORTALITY ANALYSIS PROGRAM
MODULE 1: STANDARDIZED MORTALITY RATIO ANALYSIS, VERSION 2.1

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PROJECT TITLE: Monsanto Mortality Sureveillance
POPULATION SELECTED: MARS Population Working between 1979 and 1989 at Anniston Site
CUMULATIVE EXPOSURE UNITS: Cumulative Exposure Units = YEARS

DSW 147517

****
TABLE TYPE 6: CAUSE OF DEATH LISTING

STLCOPCB4039364

****

CAUSE OF DEATH: All Causes of Death
ICDA 8TH REVISION CODES: 0. TO 999.

COUNT NO.	CASE ID	SEX	RACE	COD	DATE OF BIRTH	DATE OF HIRE	DATE OF FIRST EXP.	DATE OF SEPARATION	DATE OF DEATH	AGE AT DEATH	DURATION OF EXP.	CUMULATIVE EXPOSURE	LATENCY
1	256222409S	1	1	153.8	12/24/1924	12/18/1950	12/18/1950	6/ 1/1981	5/20/1988	63.4	30.5	30.45311	37.4
2	413507647M	1	1	410.9	4/30/1933	5/24/1958	5/24/1958	4/ 7/1983	4/ 7/1983	50.0	24.9	24.87337	24.9
3	416489477E	1	2	816.0	5/18/1938	2/ 4/1974	2/ 4/1974	11/ 5/1986	12/24/1987	49.6	12.8	12.75017	13.9
4	419053464W	1	1	162.1	3/14/1917	8/20/1947	8/20/1947	4/ 1/1979	8/22/1987	70.5	31.6	31.61396	40.0
5	419169752A	1	1	410.9	1/29/1921	8/21/1947	8/21/1947	11/30/1981	10/27/1982	61.8	34.3	34.27789	35.2
6	420524855H	1	1	427.2	12/19/1941	3/22/1965	3/22/1965	2/13/1987	2/13/1987	45.2	21.9	21.90007	21.9
7	422166299B	1	1	412.3	7/23/1918	2/ 4/1941	2/ 4/1941	3/ 1/1981	7/ 7/1989	71.0	40.1	40.06845	48.5
8	423228431H	2	1	412.3	5/27/1915	1/25/1943	1/25/1943	5/ 2/1980	10/24/1988	73.5	37.3	37.26762	45.8
9	423440055T	1	1	571.9	2/ 3/1939	2/ 8/1965	2/ 8/1965	11/ 1/1981	11/ 3/1989	50.8	16.7	16.72827	24.8
10	423460069G	1	1	151.9	10/ 8/1937	4/28/1965	4/28/1965	1/ 1/1987	1/ 1/1987	49.3	21.7	21.68104	21.7

10 CASES LISTED

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