

MANUFACTURING CHEMISTS ASSOCIATION

1825 CONNECTICUT AVENUE, N.W. WASHINGTON, D.C. 20009 (202) 483-6126

July 22, 1974

To: Technical Task Group on Vinyl Chloride Research
Management Contacts

Subject: Retabulation of Tabershaw/Cooper Epidemiological Data

Gentlemen:

In response to a request made by Dr. Warren Muir of the Council on Environmental Quality, MCA has authorized Tabershaw/Cooper Associates, Inc. to retabulate certain data in their report in somewhat different format.

Enclosed herewith are the subject retabulations, identified as Tables 1 through 9, together with copies of the relevant correspondence.

Sincerely,



Kenneth D. Johnson, Ph.D.
Secretary
Technical Task Group on
Vinyl Chloride Research

KDJ/mb

Enclosures

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Subject to Protective Order in
Ross v. Conoco, Inc., No. 87-
14th Judicial District Court
Calcasieu Parish, Louisiana

CMA 009364

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July 12, 1974

Warren R. Muir, Ph.D.
Executive Office of the President
Council on Environmental Quality
722 Jackson Place N.W.
Washington, D.C. 20006

Dear Dr. Muir:

Due to the press of time, I am sending the tables you requested from Dr. Johnson directly to you, with copies to him.

We were unable to provide the person-years data because our program is such that we would have had to run it once for each cell in the table. It could be done, but not in the available time. The distribution of Table 9 can be used to get a rough estimate of person-years of observation for those not found, up to the date when they terminated, by assuming that date of hire and date of termination are uniformly distributed over time.

You will notice that we changed the time interval 0-4 to 1-4, since every worker in our study had at least one year in an exposed job.

I hope this arrives in time to be of use to you.

Yours sincerely,

William R. Gaffey, Ph.D.
Director of Health and
Epidemiological Studies

WRGjl
enc.

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Ross v. General Electric, No. 80-4837
14th Judicial District Court
Calcasieu Parish, Louisiana

CMA 009365

TABLE 1

DEATHS FROM MALIGNANT NEOPLASMS, BUCCAL CAVITY AND PHARYNX, VCM EPIDEMIOLOGY STUDY,
 BY YEARS EMPLOYED IN VC EXPOSED AREAS, LEVEL OF EXPOSURE INDEX (EI),
 AND YEARS FROM DATE OF HIRE TO DATE OF DEATH

Years, Hire to Death	Years Exposed							
	Total EI		1-4 EI		5-9 EI		10-14 EI	
	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5
Total	5		4		1			
1-4	1		1					
5-9								
10-14	2		2					
15-19								
20-24	2		1		1			
25-29								
≥30								

TCA, Inc. 7-12-74

Subject: Company
 Ross v. TCA, Inc.
 Lethal
 Cause

TABLE 2

DEATHS FROM MALIGNANT NEOPLASMS, DIGESTIVE ORGANS AND PERITONEUM, VCM EPIDEMIOLOGY STUDY,
BY YEARS EMPLOYED IN VC EXPOSED AREAS, LEVEL OF EXPOSURE INDEX (EI),
AND YEARS FROM DATE OF HIRE TO DATE OF DEATH

Years, Hire to Death	Years Exposed															
	Total		1-4		5-9		10-14		15-19		20-24		25-29		≥30	
	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5
Total	7	12	1	1	1	2	3	4	1	2	1	1		2		
1-4	1		1													
5-9		1				1										
10-14	2	1					2	1								
15-19	2	3			1		1	1		2						
20-24	1	4		1		1		2	1							
25-29	1	2									1	1		1		
≥30		1												1		

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Subject to Protective Order in
Ross v. Conoco, Inc., No. 50-43377
14th Judicial District Court
Calcasieu Parish, La.

TCA, Inc. 7/12/74

CMA 009367

TABLE 3

DEATHS FROM MALIGNANT NEOPLASMS, RESPIRATORY SYSTEM, VCM EPIDEMIOLOGY STUDY,
BY YEARS EMPLOYED IN VC EXPOSED AREAS, LEVEL OF EXPOSURE INDEX (EI),
AND YEARS FROM DATE OF HIRE TO DATE OF DEATH*

Years, Hire to Death	Years Exposed															
	Total EI		1-4 EI		5-9 EI		10-14 EI		15-19 EI		20-24 EI		25-29 EI		≥30 EI	
	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5
Total	11	13	2	1	4	1	2	2	3	6	2				1	
1-4	1		1													
5-9	2		2													
10-14	1	1			1		1									
15-19	3	5			2		1		1	4						
20-24	3	4			1				2	2	2					
25-29																
≥30	2	2			1		1		1						1	

*Excludes one person (employed 5-9 years) with duration and level of exposure unknown.

TCA, Inc. 7/12/74

Subject to the provisions of the
Ross v. TCA, Inc. 4837
14th Street, N.W.
Calculated by the TCA, Inc.

TABLE 4

DEATHS FROM MALIGNANT NEOPLASMS, GENITAL ORGANS, VCM EPIDEMIOLOGY STUDY,
BY YEARS EMPLOYED IN VC EXPOSED AREAS, LEVEL OF EXPOSURE INDEX (EI),
AND YEARS FROM DATE OF HIRE TO DATE OF DEATH

Years, Hire to Death	Years Exposed															
	Total EI		1-4 EI		5-9 EI		10-14 EI		15-19 EI		20-24 EI		25-29 EI		≥30 EI	
	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5
Total	2	1			1		1		1							
1-4																
5-9																
10-14																
15-19																
20-24	1	1			1		1									
25-29	1								1							
≥30																

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Subject to Protective Order in
Ross v. Conoco, Inc., No. 90-4837
14th Judicial District Court
Calgary, Alberta

TCA, Inc. 7/12/74

CMA 009369

TABLE 5

DEATHS FROM MALIGNANT NEOPLASMS, URINARY ORGANS, VCM EPIDEMIOLOGY STUDY,
BY YEARS EMPLOYED IN VC EXPOSED AREAS, LEVEL OF EXPOSURE INDEX (EI),
AND YEARS FROM DATE OF HIRE TO DATE OF DEATH

Years, Hire to Death	Years Exposed							
	Total EI		1-4 EI		5-9 EI		10-14 EI	
	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5
Total	1				1			
1-4								
5-9								
10-14								
15-19								
20-24								
25-29	1				1			
≥30								

TCA, Inc. 7/12/74

CMA 009370

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TABLE 6

DEATHS FROM MALIGNANT NEOPLASMS, OTHER AND UNSPECIFIED SITE, VCM EPIDEMIOLOGY STUDY,
BY YEARS EMPLOYED IN VC EXPOSED AREAS, LEVEL OF EXPOSURE INDEX (EI),
AND YEARS FROM DATE OF HIRE TO DATE OF DEATH

Years, Hire to Death	Years Exposed															
	Total EI		1-4 EI		5-9 EI		10-14 EI		15-19 EI		20-24 EI		25-29 EI		≥30 EI	
	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5
Total	9	8	1	1	2	1	1	1	2	4	2		1	1		
1-4																
5-9	1				1											
10-14		2				1		1								
15-19	1	2							1	2						
20-24	3	2	1							2	2					
25-29	3						1		1				1			
≥30	1	2		1	1									1		

TCA, Inc. 7/12/74

Subject to Court
Ross v. Calcasieu Parish
14th Judicial District Court
Calcasieu Parish, Louisiana

Subject to Court
Ross v. Calcasieu Parish
14th Judicial District Court
Calcasieu Parish, Louisiana

CMA 009371

TABLE 7

DEATHS FROM LEUKEMIA AND ALEUKEMIA, VCM EPIDEMIOLOGY STUDY,
 BY YEARS EMPLOYED IN VC EXPOSED AREAS, LEVEL OF EXPOSURE INDEX (EI),
 AND YEARS FROM DATE OF HIRE TO DATE OF DEATH

Years, Hire to Death	Years Exposed									
	Total EI		1-4 EI		5-9 EI		10-14 EI		15-19 EI	
	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5
Total	1	2	1		1	1				
1-4		1	1							
5-9	1				1					
10-14										
15-19										
20-24		1				1				
25-29										
≥30										

TCA, Inc. 7/12/74

Subject to CONFIDENTIALITY
 Ross v. TCA, Inc.
 14th Cir. 1974
 534 F.2d 1031

CMA 009372

TABLE 8

DEATH FROM LYMPHOSARCOMA, LYMPHATIC AND HEMATOPOIETIC TISSUES, VCM EPIDEMIOLOGY STUDY,
 BY YEARS EMPLOYED IN VC EXPOSED AREAS, LEVEL OF EXPOSURE INDEX (EI),
 AND YEARS FROM DATE OF HIRE TO DATE OF DEATH

Years, Hire to Death	Years Exposed															
	Total EI		1-4 EI		5-9 EI		10-14 EI		15-19 EI		20-24 EI		25-29 EI		≥30 EI	
	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5
Total	1	5	1		1		2		2							
1-4																
5-9		1							1							
10-14		2					2									
15-19	1				1											
20-24		2	1						1							
25-29																
≥30																

TCA, Inc. 7/12/74

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 Subject to Protective Order in
 Rose v. TCA, Inc., No. 93-1357
 14th Judicial District Court
 Calhoun, Louisiana

CMA 009373

TABLE 9

DISTRIBUTION OF 1256 WORKERS LOST TO FOLLOW-UP, VCM EPIDEMIOLOGY STUDY,
BY YEARS EMPLOYED IN VC EXPOSED AREAS, LEVEL OF EXPOSURE INDEX (EI),
AND TOTAL YEARS WORKED IN PLANT*

Total Years Worked	Years Exposed													
	Total EI		1-4 EI		5-9 EI		10-14 EI		15-19 EI		20-24 EI		25-29 EI	
	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5	<1.5	≥1.5
Total	500	754	364	581	95	128	25	31	14	13	2	1		
1-4	295	564	295	564										
5-9	123	132	41	11	82	121								
10-14	33	35	7	3	4	3	22	29						
15-19	32	16	11	1	5	1	3	1	13	13				
20-24	8	4	4	2	2	1			1		1	1		
25-29	6	2	4		2	1		1						
≥30	3	1	2			1					1			

*Includes two persons (worked 1-4 years) with duration and level of exposure unknown.

TCA, Inc. 7/12/74

CHA 009374

Subject: [illegible]
 Filed: [illegible]
 12-11-74
 U.S. District Court
 Eastern District of Louisiana