

STUDY HIGHLIGHTS

456 in study

1. RMC employees are very healthy. In general, they have the same disease incidence as the U.S. population.
2. Five major employee groups did not have any statistically significant high or low disease incidence.

.All Subsidiaries	.Extrusion
.Consumer	.R&D
.Electrical	

3. In general, all PMR's are the same as the 1974-83 study or lower.

4. Accidents are higher than normal at:

<u>Plant</u>	<u>PMR</u>
West Coast End Plant	246*
Listerhill Alloys	149**

Note: expected # have changed with monson update

10 new sign
23 no longer sign. or sign. lower

5. Lung cancer is higher than normal at 10 company locations. These locations are in all types of production environments and may reflect individual smoking preferences. Divisions affected include Can, Extrusion, Mill Products, Packaging, Primary Metals and Raw Materials.
6. The incidence of cancer is higher than normal at the following locations:

<u>Plant</u>	<u>PMR</u>
Bellwood Extrusion	175**
Jones Mill	135**
Hurricane Creek	137**
Wallkill	360*
San Francisco Can	255*
Bristol	250*
Louisville Plant 12	214*
Patterson	149*
Corporate Headquarters	139*

* Statistically significant at the 5 percent level.

**Statistically significant at the 1 percent level.

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RMC & DIVISION
PROPORTIONAL MORTALITY RATIOS
1974 - 1985 DEATHS

CAUSE OF DEATH	COMPANY	CONSTR. PRODUCTS	CAN	CONSUMER	CORPORATE & SALES	ELECT.	EXTRUSION	PLAS. PKG.	MILL PRODUCTS	PRIMARY METALS	RABCO	RAW MATERIALS	RECYCLING & RECLAMATION	RESEARCH	
Malignant Neoplasms	55*	137	176	131	116	115	102	101	80	92	114	94			
	Buccal Cavity & Pharynx	204	200	152	0	66	0	38	60	0	0	0			
	Digestive Organs & Peritoneum	104	122	244	142	159	108	114	85	175	73	83	91		
	Esophagus	73	0	137	0	357	109	111	63	59	0	0	667	0	
	Stomach	87	0	93	0	102	48	99	126	65	0	97	0	0	
	Large Intestine	100	112	333	149	116	134	131	77	82	100	69	0	0	
	Rectum	59	465	0	0	455	135	54	16*	39	435	0	0	0	
	Liver	107	0	351	0	0	140	90	161	64	417	0	0	0	
	Pancreas	123	104	625	106	192	52	119	98	117	351	172	0	435	
	Respiratory System	120	126	190	110	148	104	131	118	136	126	99	127	133	
Lung		126	155	200	110	155	104	131	118	136	126	104	133		
Skin		136	130	0	355*	0	234	131	49	136	526	248	0	0	
Prostate		111	85	0	355*	0	131	74	74	134	75	0	0	0	
Testis		141	0	0	0	0	294	135	132	0	0	0	0	0	
Bladder & Central Nervous		196	175	0	159	0	154	87	113	165	221	0	0	0	
System		137	0	0	0	0	556	0	0	286	0	0	0	0	
Thyroid		137	0	0	0	0	556	0	0	286	0	0	0	0	
Gynecologic Cancer		174	174	0	88	0	117	118	104	130	102	103	0	0	0
		Ovaries	174	174	0	88	0	117	118	104	130	102	103	0	0
	Uterus	174	174	0	88	0	117	118	104	130	102	103	0	0	0
	Endometrium & Cervix	174	174	0	88	0	117	118	104	130	102	103	0	0	0
	Leukemia & Alkalemia	128	164	0	278	0	134	106	161	201	0	0	0	0	0
	Other Lymphatic Tissues	167	167	0	118	0	119	119	163	140	0	556	0	0	0
Benign Neoplasms	78	0	0	0	0	80	0	62	149	0	110	0	0	0	

* Statistically significant at the 5 percent level.
** Statistically significant at the 1 percent level.

lower risk — change from prior study 23 no lower sign or significantly lower
10 new sign results

RMC & DIVISION
PROPORTIONAL MORTALITY RATIOS
1974 - 1985 DEATHS

CAUSE OF DEATH	COMPANY	CONSTR. PRODUCTS	CAN	CONSUMER & SALES	CORPORATE & SALES	ELECT.	EXTRUSION	FLX. PEG.	MILL PRODUCTS	PRIMARY METALS	RASCO MATERIALS	RECYCLING & RECLAIM-NATION	RESEARCH
Infective & Parasitic Disease	109	0	88	0	115	286	118	96	71	149	0	455	714
Allergic, Endocrine, Metabolic, Nutritional Disease	70**	130	79	0	82	236	59	91	66	43*	0	0	303
Diseases of Blood & Blood Forming Organs	74*	0	0	0	0	0	88	230	67	42	0	0	0
Mental Psychoneurotic & Personality Disorders	61	337	61	0	161	0	105	49	35	42	485	0	0
Diseases of Nervous System & Sense Organs	107	0	124	625	189	0	114	158	92	106	0	0	625
Diseases of Circulatory System	36	93	89	82	93	120	96	100	103	96	75	89	99
Chronic Rheumatic Heart Disease	115	0	0	0	159	417	50	93	176	77	476	0	0
Arteriosclerotic Heart Disease	26	109	102	77	105	141	99	91	94	31	75	114	128
Vascular Lesions of CNS	32	38	50	120	126	52	93	104	115	37	35	89	0
Respiratory Diseases	322*	55	43	0	100	44	114	100	87	38	99	73	85
Pneumonia	36	60	92	0	46	0	155	102	112	85	0	286	0
Emphysema	84	0	0	0	0	0	95	50	65	123	392	0	0
Asthma	59	0	0	0	0	0	192	0	139	0	0	0	0
Diseases of Digestive System	47**	55	61	154	107	40	82	69	65*	67*	45	66	111
Gastric & Duodenal Ulcer	53	0	0	0	0	0	112	40	46	116	0	0	0
Cirrhosis of Liver	52**	51	38	0	127	62	108	53	54*	34**	0	0	192
Diseases of Genito-Urinary System	86	108	0	0	0	0	93	66	110	115	179	0	0
Accidents	108	85	125	93	30	81	105	77	104	115	29	145	0
Motor Vehicle Accidents	86	175	115	0	0	103	98	59	82	90	0	108	0
Suicide	70**	54	71	0	0	72	42	96	79	62	0	125	0
TOTAL DEATHS	4,156	82	142	14	107	44	467	682	1178	979	48	28	18

* Statistically significant at the 5 percent level.

**Statistically significant at the 1 percent level.

○ Lower risk — change from prior study

BMC & DIVISION
1974 - 1985 DEATHS

CAUSE OF DEATH	COMPANY	CONSTR. PRODUCTS	CAN	CORPORATE & SALES		ELECT.	EXTRUSION	FLEX. PKG.	MILL PRODUCTS	PRIMARY METALS	RASCQ MATERIALS	RECYCLING & RECLAM- NATION		RESEARCH
				CONSUMER										
Total Observed Deaths	4,156	82	142	14	107	44	467	682	1,176	979	48	331	28	18
Malignant Neoplasms (Percent)	1,109 (26.7%)	26 (31.7%)	48 (33.8%)	6 (42.9%)	37 (34.6%)	12 (27.3%)	120 (27.4%)	174 (25.5%)	275 (23.3%)	262 (26.8%)	25 (47.9%)	99 (29.9%)	6 (21.4%)	4 (22.2%)
Buccal Cavity & Pharynx	15	1	2	0	1	0	2	0	3	4	0	0	0	0
Digestive Organs & Peritoneum	244	5	9	2	10	4	31	48	61	49	5	15	1	1
Esophagus	19	0	1	0	0	1	3	4	5	4	0	0	1	0
Stomach	33	0	1	0	1	0	0	2	6	14	0	0	0	0
Large Intestine	90	2	4	1	4	1	16	21	18	17	1	5	0	0
Rectum	13	2	0	0	0	1	1	2	1	2	1	0	0	0
Liver	21	0	2	0	0	0	3	3	9	3	1	0	0	0
Pancreas	62	1	1	1	4	1	3	10	14	14	2	7	0	1
Respiratory System	442	6	16	2	9	6	43	72	116	110	7	45	2	2
Lung	428	8	17	2	9	6	41	71	114	106	7	43	2	2
Skin	21	0	1	0	2	0	4	3	2	5	1	3	0	0
Prostate	85	4	1	0	6	0	14	9	17	26	3	5	0	0
Testis	4	0	0	0	0	0	0	1	1	1	1	0	0	0
Brain & Central Nervous System	33	1	2	0	1	0	4	3	7	9	2	4	0	0
Thyroid	2	0	0	0	0	0	1	0	0	1	0	0	0	0
Lymphoproliferative Cancer	109	3	7	0	2	0	11	16	24	27	1	13	3	0
Lymphosarcoma & Reticulosarcoma	22	0	2	0	1	0	2	3	5	6	0	0	0	0
Leukemia & Aleukemia	37	1	5	0	0	0	5	5	7	8	1	3	2	0
Other Lymphatic Tissues	44	1	0	0	1	0	4	6	12	10	0	8	1	0
Benign Neoplasms	9	0	0	0	0	0	1	0	2	4	0	1	0	0

RMC & DIVISION
1974 - 1985 DEATHS

CAUSE OF DEATH	COMPANY	CONSTR. PRODUCTS	CAN	CONSUMER	CORPORATE & SALES	ELECT.	EXTRUSION	FLEX. PKG.	MILL PRODUCTS	PRIMARY METALS	RASCO	RAW MATERIALS	RECYCLING & RECLAMATION	RESEARCH
Infective & Parasitic Diseases	34	0	1	0	1	1	4	5	7	12	0	2	1	1
Allergic, Endocrine, Metabolic, Nutritional Diseases	54	2	2	0	2	2	5	13	15	8	0	6	0	1
Diseases of Blood & Blood Forming Organs	8	0	0	0	0	0	1	4	2	1	0	0	0	0
Mental Psychoneurotic & Personality Disorders	18	2	1	0	1	0	3	2	3	3	2	1	0	0
Diseases of Nervous System & Sense Organs	42	0	2	1	2	0	5	10	10	10	0	1	0	1
Diseases of Circulatory System	2,014	37	50	5	49	23	227	353	601	455	16	164	8	9
Chronic Rheumatic Heart Disease	21	0	0	0	1	1	1	3	9	3	1	2	0	0
Arteriosclerotic Heart Disease	1,286	29	39	3	53	19	138	216	357	296	10	97	7	8
Vascular Lesions of CNS	268	2	3	1	10	1	28	55	93	54	1	29	0	0
Respiratory Diseases	245	3	3	0	7	1	38	48	70	51	3	17	1	1
Pneumonia	84	1	2	0	1	0	15	16	29	17	0	4	1	0
Emphysema	41	0	0	0	3	0	6	4	9	14	2	3	0	0
Asthma	3	0	0	0	0	0	1	0	2	0	0	0	0	0
Diseases of Digestive System	122	2	5	1	5	1	16	19	34	29	1	5	1	1
Gastric & Duodenal Ulcer	9	0	0	0	0	0	2	1	2	4	0	0	0	0
Cirrhosis of Liver	51	1	2	0	3	1	11	7	15	8	0	1	0	1
Diseases of Genito-Urinary System	44	1	0	0	0	0	5	6	17	14	1	0	0	0
Accidents	218	4	20	1	1	3	21	19	67	59	1	14	7	0
Motor Vehicle Accidents	80	4	10	0	0	2	9	6	19	22	0	5	3	0
Suicide	49	1	4	0	0	1	3	8	14	11	0	4	2	0
TOTAL DEATHS	4,156	82	142	14	107	44	467	682	1178	979	48	351	28	18