

INTERNATIONAL LEAD ZINC RESEARCH ORGANIZATION, INC.



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8-133

September 11, 1975

Dr. Ronald D. Snee
E. I. DuPont De Nemours & Company, Inc.
Petroleum Laboratory
Wilmington, Delaware 19898

Dear Ron:

Enclosed is a copy of the individual data for the Williams Study. The air lead measurements represent the mean of 10 samples collected daily for a two week period. The blood lead measurements represent the mean of 5 samples collected on a daily basis for the second week of the air sampling period.

I wish to thank you and Jim Lucas for your participation in the meeting on Wednesday. I feel that the meeting was worthwhile and provided us with valuable input on some of the pertinent studies. If you have any comments after looking at the Williams Study please do not hesitate to contact us.

Sincerely,

Donald R. Lynam, Ph. D.
Manager, Environmental Health

np

TEH 0470604

M.K. Williams Data

TABLE 1

Mean Eight-Hour Lead-in-Air Concentration (Pb-in-Air) and Mean Values of I and Departmental Means and Their Standard Errors.

cor = corrected to specific gravity of 1.024

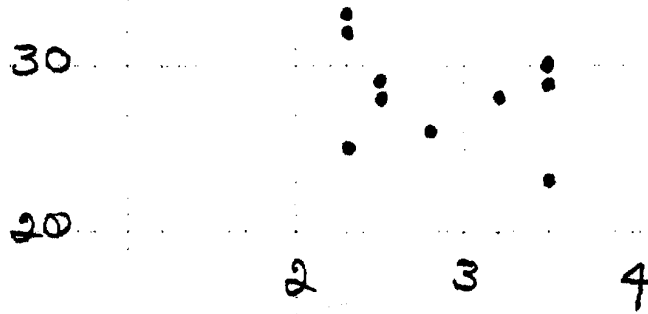
uncor = uncorrected

Job	Man	Pb-in-Air (mg/m ³)	BL (ug/100 ml)	UL (ug/l) cor	uncor	UCP (Donath)
Machine pasting	G.J.H.	.234	74.8	166.1	135.8	5.9
	G.R.	.166	72.2	160.2	130.0	3.4
	S.D.	.248	93.0	195.0	154.0	5.8
	F.B.	.129	56.8	80.6	65.6	4.1
	L.J.D.	.234	73.6	144.8	146.4	3.1
	D.W.R.	.296	74.6	235.8	200.8	5.1
	Mean	.218	74.2	163.8	138.8	4.6
	S.E.	.025	4.7	21.2	17.9	0.49
Hand pasting	E.H.R.	.159	51.2	74.6	75.8	2.1
	K.R.F.	.298	85.6	164.7	79.2	5.3
	R.D.B.	.166	45.6	65.6	65.4	3.4
	T.E.C.	.104	70.4	114.2	92.0	2.7
	J.T.L.	.233	-	102.5	66.3	4.2
	K.A.L.	.096	-	173.1	148.2	2.7
	A.J.K.	.069	-	115.7	58.2	2.9
	A.J.H.	.068	-	79.8	73.4	2.4
	Mean	.150	63.2	111.7	82.3	3.2
	S.E.	.029	9.2	14.1	10.1	0.37
Forming	R.D.	.084	69.4	106.4	74.2	4.3
	F.W.L.	.200	73.2	95.6	76.2	5.8
	T.J.H.	.121	61.0	137.3	112.5	3.4
	P.G.C.	.159	59.4	146.3	117.4	4.6
	E.F.H.	.176	64.6	133.7	117.2	3.8
	J.A.O.	.079	44.6	78.0	79.4	2.4
	A.D.	.146	63.2	110.9	102.4	3.9
	S.R.B.	.131	63.6	110.7	98.2	3.9
	G.W.	.111	67.6	107.9	81.4	1.9
	Mean	.134	63.0	114.0	95.4	3.8
	S.E.	.013	2.7	7.2	6.0	0.38
Casting	J.D.S.	.040	-	73.0	69.4	1.9
	A.B.	.046	-	79.5	73.8	1.8
	E.T.	.055	-	76.4	68.7	1.5
	A.G.P.	.055	-	105.0	72.6	2.2
	J.C.	.053	-	82.8	78.8	1.6
	W.C.W.	.061	-	111.9	97.5	2.0
	Mean	.052	-	87.9	76.8	1.8
	S.E.	.003	-	6.8	4.4	0.11
Plastics Dept. B	R.P.B.	.008	32.4	38.9	37.6	2.3
	D.W.S.	.012	27.6	39.5	30.6	2.3
	R.J.S.	.008	24.6	34.5	36.0	2.8
	G.J.S.	.009	28.0	32.1	27.8	1.3
	S.W.	.008	33.0	29.1	27.4	2.6
	Mean	.009	29.1	34.8	31.9	2.3
	S.E.	.0008	1.6	2.0	2.1	0.26
Plastics Dept. A	E.J.R.	.013	22.5	37.5	28.6	2.3
	J.M.	.013	30.0	29.6	25.0	1.5
	H.T.G.	.009	28.8	28.2	20.7	1.8
	S.W.	.013	29.0	45.5	33.2	2.2
	F.C.G.	.010	25.8	31.5	24.6	1.4
	Mean	.012	27.2	34.5	26.4	1.8
	S.E.	.0008	1.4	3.2	2.1	0.18

Don Lynam: This is a rural area. air Pb $\leq 1 \mu\text{g}/\text{m}^3$ probably?

TEH 0470605

WILLIAMS
CONTROL GROUP



TEH 0470606

DUP050083422