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NATIONAL INST. FOR OCCUPATIONAL SAFETY AND HEALTH, CINCINNATI, OH. DIV. OF FIELD STUDIES AND CLINICAL INVESTIGATIONS

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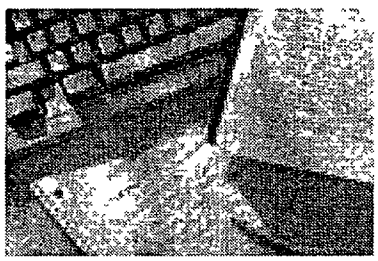


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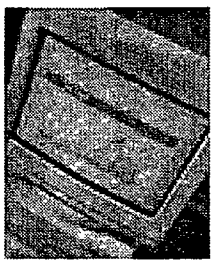
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U.S.P.H.S. SURVEY

ABEX CORPORATION
American Brakeblok Division
Winchester, Virginia

February, 1972

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Division of Field Studies & Clinical Investigations
March 7, 1972 Plant #15

ABEX CORPORATION
American Brakeblok Division
Winchester, Virginia

U.S.P.H.S. Survey
February 7-11, 1972
Left-Right Paired Samples

SAMPLE #	LOCATION OR JOB	# COUNTS DONE ON SAMPLE	MEAN # FIBERS >5μ/FIELD	DIFFERENCE BETWEEN PAIRS IN MEAN # FIBERS >5μ/FIELD	Δ%	MEAN CONCENTRATION >5μ FIBERS/ml
1-Left	Wet Mixer	4	.43	.07	15	.78
1-Right		4	.50			.87
2-Left	Compound Operator	2	.28	.15	43	.43
2-Right		2	.43			.64
3-Left	Compound Operator	4	.81	.45	77	1.54
3-Right		4	.36			.69
4-Left	Weigher	2	.95	.10	11	1.91
4-Right		2	.85			1.70
5-Left	Compound Operator	3	1.08	0	0	2.52
5-Right		2	1.08			2.52
6-Left	Strip Grinder	2	1.65	.45	32	2.44
6-Right		2	1.20			1.78
7-Left	Surface Grinder	2	.75	.05	7	1.20
7-Right		3	.70			1.12
8-Left	Strip Grinder	2	.70	.08	11	1.11
8-Right		2	.78			1.22

American Brakeblok Division
Winchester, Virginia
February 7-11, 1972
Left-Right Paired Samples

SAMPLE #	LOCATION OR JOB	# COUNTS DONE ON SAMPLE	MEAN # FIBERS >5μ/FIELD	DIFFERENCE BETWEEN PAIRS IN MEAN # FIBERS >5μ/FIELD Δ	%	MEAN CONCENTRATION >5μ FIBERS/cc
9-Left	Strip Grinder	2	1.10	.49	57	1.71
9-Right		4	.61			.94
10-Left	Strip Grinder	3	.88	.20	26	1.43
10-Right		2	.68			1.07
11-Left	Strip Grinder	2	1.10	.10	9	1.77
11-Right		2	1.20			1.92
12-Left	Multiple Drill	2	1.20	.12	10	1.97
12-Right		2	1.32			2.16
13-Left	Multiple Drill	2	.95	.02	2	1.59
13-Right		2	.93			1.54
14-Left	Multiple Drill	2	.48	.05	10	.80
14-Right		3	.53			.90
15-Left	Drill Press	2	.73	.23	37	1.26
15-Right		2	.50			.87
16-Left	Hand Drill Operator	2	.18	.55	120	.30
16-Right		2	.73			1.30
17-Left	Drill Press	2	.58	.13	25	1.00
17-Right		2	.45			.79
18-Left	Branding Machine	2	.60	.15	22	.78
18-Right		2	.75			.97
19-Left*	Hot Press	2	1.73	.22	12	1.64
19-Right*		2	1.95			1.86
20-Left*	Hot Press	2	3.75	.72	21	3.75
20-Right*		2	3.03			3.00

American Brakeblok Division
Winchester, Virginia
February 7-11, 1972
Left-Right Paired Samples

SAMPLE #	LOCATION OR JOB	# COUNTS DONE ON SAMPLE	MEAN # FIBERS >5μ/FIELD	DIFFERENCE BETWEEN PAIRS IN MEAN # FIBERS >5μ/FIELD Δ	%	MEAN CONCENTRATIO >5μ FIBERS/f
21-Left*	Hot Press	2	2.68	.45	16	2.69
21-Right*		2	3.13			3.17
22-Left*	Preformer	2	1.98	.73	45	2.97
22-Right*		2	1.25			1.88
23-Left	Extruder Operator **	2	.30	.05	16	.45
23-Right		2	.35			.50

* Heavy Particulate Background

** Only one of group that is left handed, #23

Have 11 pairs where the left is greater than the right
Have 11 pairs where the right is greater than the left
Have 1 pair where exactly the same

23 paired samples total

If a difference of .10 fibers/field is considered not significant, then have:
12 pairs not significantly different
6 pairs with the left side higher
5 pairs with the right side higher

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