

IWS - 32.186

REGION - 4

RESULTS OF AIR SAMPLES
JOHNS-MANVILLE
MARSHVILLE, NORTH CAROLINA

DECEMBER, 1967

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Dust concentration were measured at the Johns-Manville Company (SIC-2283), in Marshville, North Carolina, in December, 1967. Sampling was performed with a membrane filter. The breathing zone membrane filter samples ranged from 107.7 to 0.0 fibers per cubic centimeter (f/cc) for the card tender and slubber operator, respectively. The personal membrane filter samples ranged from 48.9 to 0.1 (f/cc) for the card tender and inspector, respectively.

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PRELIMINARY REPORT
UNITED STATES PUBLIC HEALTH SERVICE
OCCUPATIONAL HEALTH PROGRAM

Dust concentrations as measured by membrane filter breathing-zone and personal samples at John-Menville, Marshville, North Carolina, December, 1967.

OPERATION		IMPINGER		MEMBRANE FILTER	
		SAMPLE #	mppcf	SAMPLE #	Total Fibers/cc 5 M +
Fiber Preparation					
Blender	B			228	35.0 19.0
Mixer	P			2	27.5 14.5
	B			105	81.5 39.6
Scrap Grinder	P			14	15.8 9.4
	B			106	56.4 29.7
Stock Hauler	P			1	9.5 3.7
Carding					
Card Tender	P			4	48.9 23.2
				7	1.7 0.9
				10	41.2 17.5
				31	5.7 2.8
				34	18.1 8.1
				41	29.3 12.0
	B			11	69.4 37.4
				215	3.0 2.3
				261	107.7 51.8
Fixer	P			6	37.3 23.8
				9	25.8 9.9
Slubber Operator	P			13	3.9 1.3
				59	6.2 4.0
	B			23	0.0 0.0
Spinning					
Ring Spinner	P			46	13.4 12.9
				47	16.6 11.7
				63	13.3 9.8
				234	15.9 11.1
				238	23.9 17.0
				240	2.1 1.4
	B			111	3.0 2.7
				252	- -
Male Spinner	P			29	10.2 6.0
				32	8.7 4.9
				36	33.9 19.1
				38	13.5 8.9
				39	18.5 11.7
				40	14.8 10.6
				66	15.8 11.1
	B			118	31.6 21.3
				208	19.4 9.5

NOTES: B - Breathing zone membrane filter samples
P - Personal membrane filter samples collected by a sampling pump worn by the worker.

OPERATION		IMPINGER		MEMBRANE FILTER		
		SAMPLE #	mppcf	SAMPLE #	Total Fibers/cc	54 +
Service Man	P			35	15.6	11.2
Doffer	P			30	10.9	6.5
				37	23.2	16.4
Twisting Twister	P			18	23.4	9.5
				19	2.1	1.9
				20	12.9	8.0
				21	6.4	4.0
				27	7.9	3.5
				28	27.7	14.3
				58	21.4	14.8
	B			108	34.3	16.8
				114		
				208	64.6	34.5
Doffer	P			22	5.6	3.8
Service Man	P			62	-	-
Winding Spooler Operator	P			3	3.7	1.7
				5	30.6	12.8
				8	6.2	3.4
				25	3.1	1.8
				26	16.3	9.8
Cap Winder	P			75	2.9	1.8
Quill Winder	P			76	6.0	4.2
Weaving Foreman	P			50	5.2	3.1
Cloth Weaver	P			49	3.6	1.9
				60	13.3	9.8
				64	11.7	8.0
				237	2.5	1.3
				239	4.5	3.4
	B			113	11.0	5.9
				116	12.9	9.1
Creeler	P			67	11.6	7.5
Clean Up	P			73	13.8	10.1
Fixer	P			74	7.3	4.9

OPERATION		IMPINGER		MEMBRANE FILTER		
		SAMPLE #	mppcf	SAMPLE #	Total	Fibers/cc 5 μ +
Weaving						
Tape Weaver	P			51	13.9	6.3
				52	10.0	6.6
				61	-	-
				69	9.1	5.8
				70	22.1	15.8
				235	20.9	15.8
				236	11.9	7.6
				241	-	-
	B			56	57.5	36.6
				217	69.2	43.9
Setup Man	P			68	9.8	6.5
Creeler	P			71	5.9	4.2
Inspecting						
Inspector	P			48	4.7	2.6
				53	0.1	0.1
				54	0.1	0.1
				55	10.3	5.8
				65	4.0	2.8
				242	8.2	5.2
				243	10.2	6.6
Miscellaneous						
Rope Machine Oper.	P			16	18.6	10.5
				17	0.3	0.1
				33	17.9	11.0
Shipper	P			15	21.7	15.8
				43	4.1	2.4
				44	7.9	5.2
Dryer	P			45	8.2	4.2
Clean-up	P			42	14.9	9.3
Stock Clerk	P			72	4.6	3.0

