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ORNL 606

5A

HEALTH DIVISION  
REPORT FOR THE MONTH ENDING  
DECEMBER 31, 1949

OAK RIDGE NATIONAL LABORATORY

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OPERATED BY  
CARBIDE AND CARBON CHEMICALS DIVISION  
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HEALTH DIVISION

REPORT FOR THE MONTH ENDING DECEMBER 31, 1949

J. S. Felton, M.D.

Date Issued

JUL 5 1950

OAK RIDGE NATIONAL LABORATORY

operated by

CARBIDE AND CARBON CHEMICALS DIVISION

Union Carbide and Carbon Corporation

Post Office Box P

Oak Ridge, Tennessee

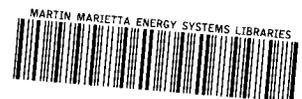
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DISTRIBUTION OF EFFORT FOR THE MONTH OF DECEMBER 1949

	<u>Monthly</u>	<u>Weekly</u>	<u>Hourly</u>
<u>Personnel</u>			
Physicians	3	0	0
Industrial Hygiene Engineer	1	0	0
Industrial Designer	1	0	0
Nurses	1	5	0
Medical Technicians	0	3	0
Office Personnel	1	8	0
Custodial Personnel	0	0	2
	<u>7</u>	<u>16</u>	<u>2</u>

Number of technical personnel added: 0

Number of technical personnel terminated: 0

ALLOCATION OF TIME

<u>Physicians</u>			
Administration	1/3	0	0
Physical Examination	1 2/3	0	0
Dispensary Service	1	0	0
<u>Industrial Designer</u>	1	0	0
<u>Industrial Hygiene Engineer</u>	1	0	0
<u>Nurses</u>			
Supervision	1/2	0	0
Dispensary Shift Nursing	1/2	5	0
<u>Medical Technicians</u>			
General Laboratory	0	1	0
Blood Studies	0	1/2	0
Urinalysis	0	1/2	0
X-ray	0	1	0
<u>Office Personnel</u>	1	8	0
<u>Custodial Personnel</u>	0	0	2
	<u>7</u>	<u>16</u>	<u>2</u>

STATISTICAL SUMMARY

Severity Rate .....	3.2 days lost per absence
Disability Rate .....	16.3 days lost per 1000 days scheduled
Frequency Rate .....	5.1 absences per 1000 days scheduled
Number of Patients .....	1206
Number of Visits .....	2673
Number of Procedures .....	3604
Number of Employees at the Laboratory .....	2037
Percent of Employees Visiting Dispensary .....	51.3
Number of Visits per Employee .....	1.2
Number of Illness Absences per Employee .....	0.1
Ratio of Occupational to Non-occupational Procedures.....	1: 1.1
Ratio of Non-occupational to Occupational Injuries, first visit...	1: 1.3
Ratio of Non-occupational to Occupational Injuries, all visits ...	1: 2.9
Ratio of Occupational to Non-occupational Illnesses, first visit..	*
Ratio of Occupational to Non-occupational Illnesses, all visits...	*
Ratio of Occupational to Non-occupational Absences.....	/
Ratio of Occupational to Non-occupational Days Lost.....	/

\* Ratios are not given since there were no occupational illnesses for the month of December.

/ Ratios are not given since there were no occupational absences or days lost for the month of December.

PROCEDURES ACCOMPLISHED FOR THE MONTH OF DECEMBER 1949

	<u>No. of Procedures</u>
Non-occupational injury	84
"          "          , revisit	61
Non-occupational illness	903
"          "          , revisit	402
Occupational injury or exposure, chemical	1
"          "          "          "          , "          , revisit	9
Occupational injury or exposure, chemical, a.o.q.*	0
"          "          "          "          , "          , "          , revisit	3
Occupational injury or exposure, n.o.c.**	107
"          "          "          "          , "          , revisit	305
Occupational injury, n.o.c.**, a.o.q.*	1
"          "          , "          , "          , revisit	0
Occupational injury or exposure, radiation	0
"          "          "          "          , "          , revisit	0
Occupational injury or exposure, radiation, a.o.q.*	0
"          "          "          "          , "          , "          , revisit	0
Occupational illness, n.o.c.**	0
"          "          , "          , revisit	0
Absence due to illness or injury, non-occupational	216
Absence due to illness or injury, occupational	0
Physical examination, industrial hygiene	30
Physical examination, pre-placement	12
Physical examination, rehire	6
Physical examination, periodic health	128
Physical examination, job transfer	4
Physical examination, termination	18
Physical examination, food handler	0
Physical examination, other	3
Audiogram	159
Blood donation	13
Clinical Laboratory procedure †	270
Electrocardiogram	68
Field clinical laboratory procedure	0

\*a.o.q. - alleged or questionable

\*\* n.o.c. - not otherwise classified

† - see next page

		<u>No. of Procedures</u>
Occupational vision section procedures:		
Spectacles issued, plano	22	
Spectacles ordered, prescription	12	
Spectacles issued, prescription	10	
Orthorater examination	149	
Orthorater examination, field	0	
Partial replacement	6	
Adjustment or repair	16	
Advisory service	1	216
Total		
X-ray examination:		
X-ray examination, non-occupational condition	38	
X-ray examination, occupational condition	219	
Total		257
Special study interview		31
Psychodiagnostic test		11
Consultation, non-occupational condition		124
Consultation, occupational condition		6
Consultation, without patient, non-occupational		28
Consultation, without patient, occupational		5
Home visit		0
Pre-marital serodiagnostic test		3
Immunization		109
Diagnostic procedure for an outside physician		11
GRAND TOTAL		3604

† The figure on page 5 represents the number of clinical laboratory visits. More than one laboratory procedure may be performed in one visit. The following is a breakdown of the procedures performed:

Bacteriological Smear	1
Bleeding Time	1
Blood Cholesterol	1
Blood Glucose	14
Clotting Time	1
Complete Blood Count	181
Kahn	134
Platelet Count	1
Red Blood Count and Hemaglobin	15
Rh Factor	30
Sedimentation Rate	4
Typing - Blood	30
Urinalysis	246
Vital Capacity	30
White Blood Count and Differential	23
Total	712

DISPOSITION FOLLOWING DISPENSARY VISITS

Return to regular work	3094
Return to modified or part-time work	332
Remain off work	132
Granted leave	0
Died in plant	0
New employee, rejected	0
New employee, accepted conditionally	1
New employee, accepted	17
Sent to hospital or physician's office	28
AGGREGATE	3604

PERSONNEL ATTENDING PATIENTS

First Aid Attendant	0
First Aid Attendant and Nurse	0
First Aid Attendant, Nurse and Doctor	0
Nurse	1789
Nurse and Doctor	168
Doctor	696
Doctor and First Aid Attendant	0
Technician	890
Psychologist	61
AGGREGATE	3604

TIME LOST DUE TO ILLNESS ABSENCE

	<u>No. of Absences</u>	<u>No. of Days Lost</u>
Less than 1 day	19	0
1 day	113	113
2 days	20	40
3 days	13	39
4 days	10	40
5 days	11	55
6 days	5	30
7 days	2	14
8 days	4	32
9 days	2	18
10 days	7	70
16 days	1	16
17 days	2	34
19 days	2	38
23 days	2	46
26 days	1	26
31 days	1	31
57 days	1	57
AGGREGATE	216	699

NUMBER OF PROCEDURES BY GENERAL DIAGNOSIS GROUPS

	<u>Number of Procedures</u>
Illnesses:	
Allergy	48
Blood abnormality	1
Cardio-vascular disease	17
Dental disorder	27
Dermatitis	38
Endocrine disorder	53
Eye and ear disorder	46
Gastro-intestinal disease	138
Genito-urinary disease	29
Hernia	2
Infections and parasitic disease	127
Menstrual disease	45
Nervous and mental state, neurologic disorder	844
New growth	16
Orthopedic disorder	87
Pain and headache	73
Respiratory disease	11
Tuberculosis	0
Miscellaneous	69
Aggregate	1671
Injuries:	
Injuries	584
Injuries, potential	0
Aggregate	584
Operative procedure	26
Total	2281
Special services not involving diagnosis	1323
GRAND TOTAL	3604

ABSENCE AND TIME LOST BY GENERAL DIAGNOSIS GROUPS

	<u>No. of Absences</u>	<u>Days Lost</u>
Illnesses:		
Allergy	6	12
Blood abnormality	0	0
Cardio-vascular disease	1	57
Dental disorder	1	1
Dermatitis	1	5
Endocrine disorder	0	0
Eye and ear disorder	0	0
Gastro-intestinal disease	38	101
Genito-urinary disease	4	17
Hernia	0	0
Infections and parasitic disease	4	21
Menstrual disease	21	25
Nervous and mental state, neurologic disorder	7	73
New growth	2	6
Orthopedic disorder	5	8
Pain and headache	7	6
Respiratory disease	94	234
Tuberculosis	0	0
Miscellaneous	5	11
Injuries:		
Injuries, non-occupational	9	68
Injuries, occupational	0	0
Operative procedures	11	54
<b>Total</b>	<b>216</b>	<b>699</b>

NUMBER OF VISITS BY PERSONAL, OCCUPATIONAL AND GROUP CHARACTERISTICS

	<u>No. of Visits</u>	<u>No. of Employees</u>	<u>Average</u>
TOTAL	2456	2037	1.2
<u>SEX</u>			
Female	482	384	1.3
Male	1974	1653	1.2
<u>OCCUPATION</u>			
Life scientist	11	51	0.2
Physical scientist	230	270	0.9
Engineer	163	184	0.9
Technical assistant	370	244	1.5
Administrative and managerial personnel	119	137	0.9
Clerical personnel	327	344	1.0
Laborer	126	75	1.7
Maintenance personnel	91	94	1.0
Protective personnel	277	155	1.8
Craftsman	562	356	1.6
Chemical operator	105	67	1.6
Equipment operator	75	60	1.3
<u>RACE</u>			
Colored	114	120	1.0
White	2342	1917	1.2
<u>MARITAL STATUS</u>			
Married	1946	1607	1.2
Single	452	387	1.2
Divorced	38	19	2.0
Widowed	20	24	0.8
<u>HEALTH STATUS*</u>			
H-1	562	525	1.1
H-2	1610	1274	1.3
H-3	284	238	1.2

\*H-1 Physically qualified for any position.

H-2 Physically qualified for any position, but has minor defects.

H-3 Physically qualified for special employment only, with restrictions.

	<u>No. of Visits</u>	<u>No. of Employees</u>	<u>Average</u>
<u>DIVISION</u>			
Operations	92	78	1.2
Physics	84	67	1.3
Chemistry	227	212	1.1
Technical	181	177	1.0
Biology	86	104	0.8
Metallurgy	52	47	1.1
Training Program	3	8	0.4
Graduate Training Program	0	0	
Health Physics	161	115	1.4
Engineering and Maintenance	941	676	1.4
Industrial Relations	233	174	1.3
Health	11	24	0.5
General Office	91	134	0.7
Security	217	151	1.4
Directors	67	56	1.2
Wage Standards	3	3	1.0
Mathematics Panel	7	11	0.6
<u>AGE GROUP</u>			
18 to 19 years	6	5	1.2
20 to 29 years	943	735	1.3
30 to 39 years	916	773	1.2
40 to 49 years	421	367	1.1
50 to 59 years	145	140	1.0
60 to 65 years	25	17	1.5
<u>SHIFT</u>			
Straight days	1902	1737	1.1
Rotating shifts	528	276	1.9
Straight shift	26	24	1.1
<u>PAYROLL</u>			
Hourly	1163	793	1.5
Weekly	660	533	1.2
Monthly	633	711	0.9

TIME LOST BY PERSONAL, OCCUPATIONAL AND GROUP CHARACTERISTICS

	<u>Days Lost</u>	<u>Scheduled Days</u>	<u>Percent Time Lost</u>
TOTAL	699	42777	1.6
<u>SEX</u>			
Female	157	8064	1.9
Male	542	34713	1.6
<u>OCCUPATION</u>			
Life scientist	19	1071	1.8
Physical scientist	86	5670	1.5
Engineer	35	3864	0.9
Technical assistant	97	5124	1.9
Administrative and managerial personnel	44	2877	1.5
Clerical personnel	201	7224	2.8
Laborer	15	1575	1.0
Maintenance personnel	26	1974	1.3
Protective personnel	66	3255	2.0
Craftsman	101	7476	1.4
Chemical operator	5	1407	0.4
Equipment operator	4	1260	0.3
<u>RACE</u>			
Colored	11	2520	0.4
White	688	40257	1.7
<u>MARITAL STATUS</u>			
Married	590	33747	1.7
Single	98	8127	1.2
Divorced	9	399	2.3
Widowed	2	504	0.4
<u>HEALTH STATUS*</u>			
H-1	81	11025	0.7
H-2	529	26754	2.0
H-3	89	4998	1.8

\*H-1 Physically qualified for any position.

H-2 Physically qualified for any position, but has minor defects.

H-3 Physically qualified for special employment only, with restrictions.

	<u>Days Lost</u>	<u>Scheduled Days</u>	<u>Percent Time Lost</u>
<u>DIVISION</u>			
Operations	15	1638	0.9
Physics	33	1407	2.3
Chemistry	103	4452	2.3
Technical	51	3717	1.4
Biology	29	2184	1.3
Metallurgy	29	987	2.9
Training Program	0	168	0.0
Graduate Training Program	0	0	
Health Physics	29	2415	1.2
Engineering and Maintenance	175	14196	1.2
Industrial Relations	90	3654	2.5
Health	17	504	3.4
General Office	21	2814	0.7
Security	86	3171	2.7
Directors	21	1176	1.8
Wage Standards	0	63	0.0
Mathematics Panel	0	231	0.0
<u>AGE GROUP</u>			
18 to 19 years	5	105	4.8
20 to 29 years	212	15435	1.4
30 to 39 years	279	16233	1.7
40 to 49 years	83	7707	1.1
50 to 59 years	113	2940	3.8
60 to 65 years	7	357	2.0
<u>SHIFT</u>			
Straight days	594	36477	1.6
Rotating shifts	99	5796	1.7
Straight shift	6	504	1.2
<u>PAYROLL</u>			
Hourly	204	16653	1.2
Weekly	294	11193	2.6
Monthly	201	14931	1.3

EMPLOYEES WITH ONE OR MORE ILLNESS ABSENCE BY PERSONAL, OCCUPATIONAL AND  
GROUP CHARACTERISTICS

	<u>Absentees</u>	<u>No. of Employees</u>	<u>Percent Absentees</u>
<b>TOTAL</b>	190	2037	9.3
<b><u>SEX</u></b>			
Female	76	384	19.8
Male	114	1653	6.9
<b><u>OCCUPATION</u></b>			
Life scientist	1	51	2.0
Physical scientist	9	270	3.3
Engineer	14	184	7.6
Technical assistant	53	244	21.7
Administrative and managerial personnel	6	137	4.4
Clerical personnel	54	344	15.7
Laborer	4	75	5.3
Maintenance personnel	9	94	9.6
Protective personnel	11	155	7.1
Craftsman	22	356	6.2
Chemical operator	3	67	4.5
Equipment operator	4	60	6.7
<b><u>RACE</u></b>			
Colored	8	120	6.7
White	182	1917	9.5
<b><u>MARITAL STATUS</u></b>			
Married	136	1607	8.5
Single	47	387	12.1
Divorced	5	19	26.3
Widowed	2	24	8.3
<b><u>HEALTH STATUS*</u></b>			
H-1	33	525	6.3
H-2	138	1274	10.8
H-3	19	238	8.0

\*H-1 Physically qualified for any position.

H-2 Physically qualified for any position, but has minor defects.

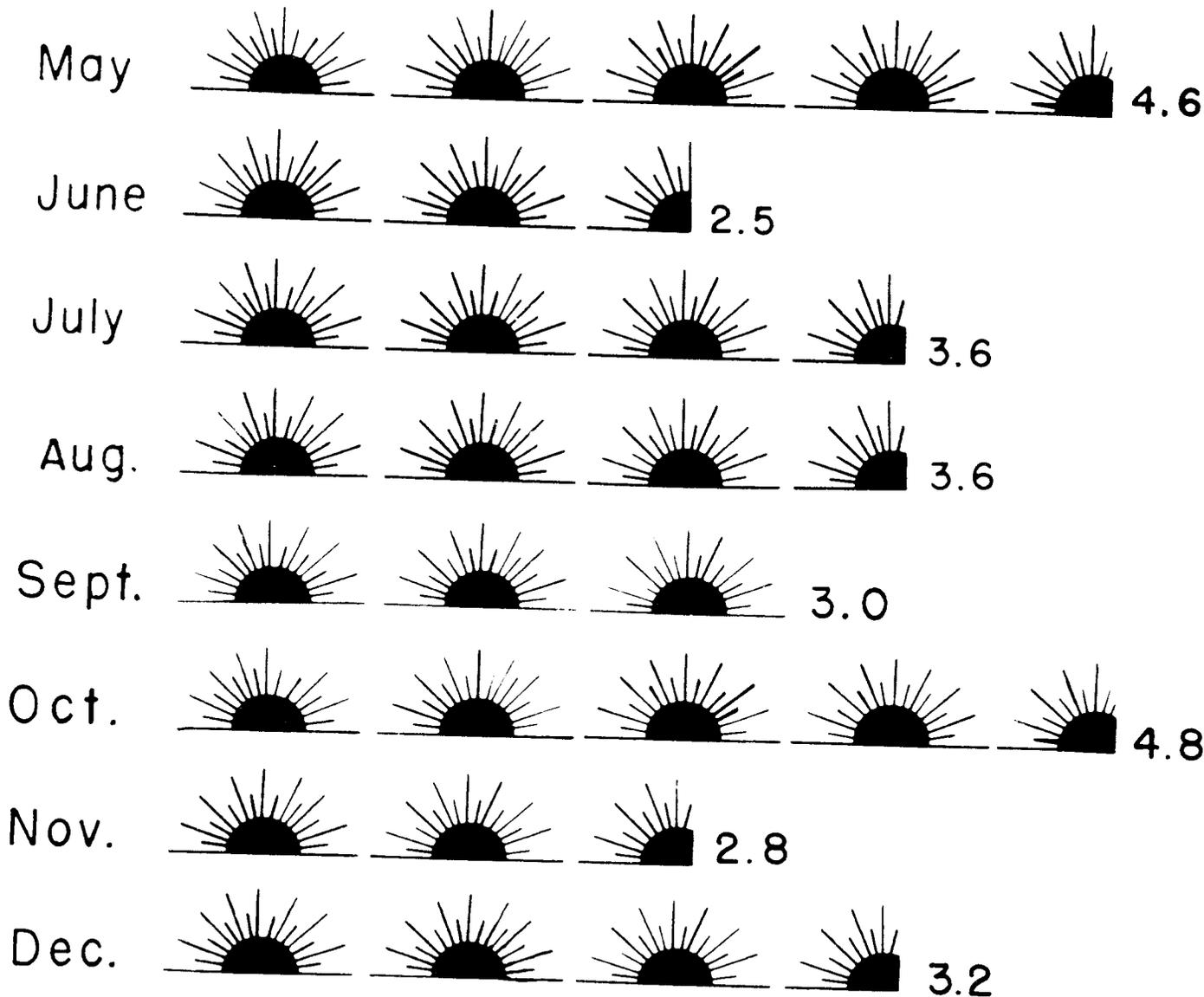
H-3 Physically qualified for special employment only, with restrictions.

	<u>Absentees</u>	<u>No. of Employees</u>	<u>Percent Employees</u>
<u>DIVISION</u>			
Operations	5	78	6.4
Physics	6	67	9.0
Chemistry	41	212	19.3
Technical	16	177	9.0
Biology	8	104	7.7
Metallurgy	5	47	10.6
Training Program	0	8	0.0
Graduate Training Program	0	0	
Health Physics	10	115	8.7
Engineering and Maintenance	51	676	7.5
Industrial Relations	14	174	8.0
Health	2	24	8.3
General Office	9	134	6.7
Security	19	151	12.6
Directors	4	56	7.1
Wage Standards	0	3	0.0
Mathematics Panel	0	11	0.0
<u>AGE GROUP</u>			
18 to 19 years	1	5	20.0
20 to 29 years	93	735	12.7
30 to 39 years	68	773	8.8
40 to 49 years	17	367	4.6
50 to 59 years	10	140	7.1
60 to 65 years	1	17	5.9
<u>SHIFT</u>			
Straight days	163	1737	9.4
Rotating shifts	25	276	9.1
Straight shift	2	24	8.3
<u>PAYROLL</u>			
Hourly	45	793	5.7
Weekly	108	533	20.3
Monthly	37	711	5.2

# SEVERITY RATE

## Days Lost Per Absence

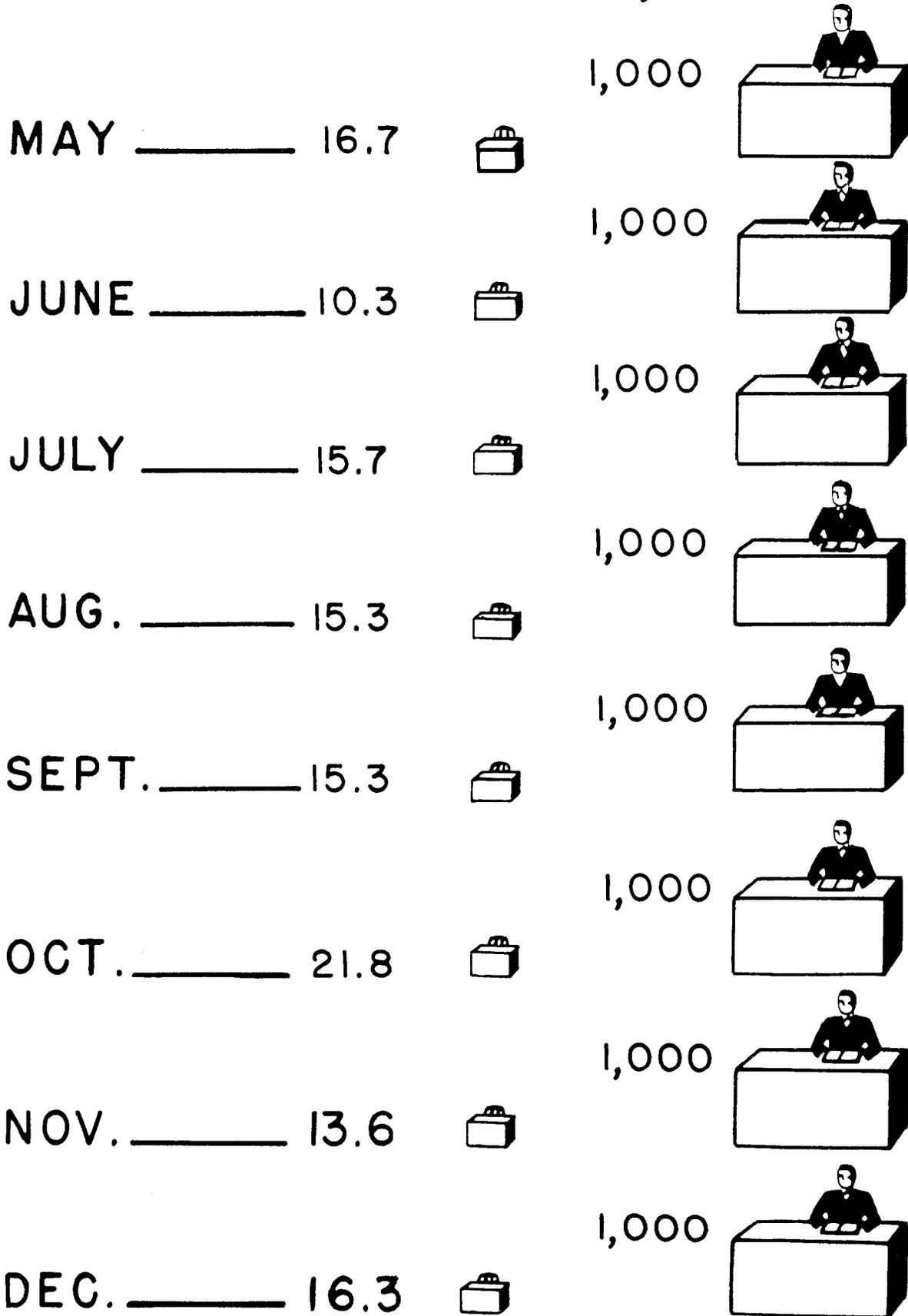
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# DISABILITY RATE

Days Lost Per 1,000 Days Scheduled

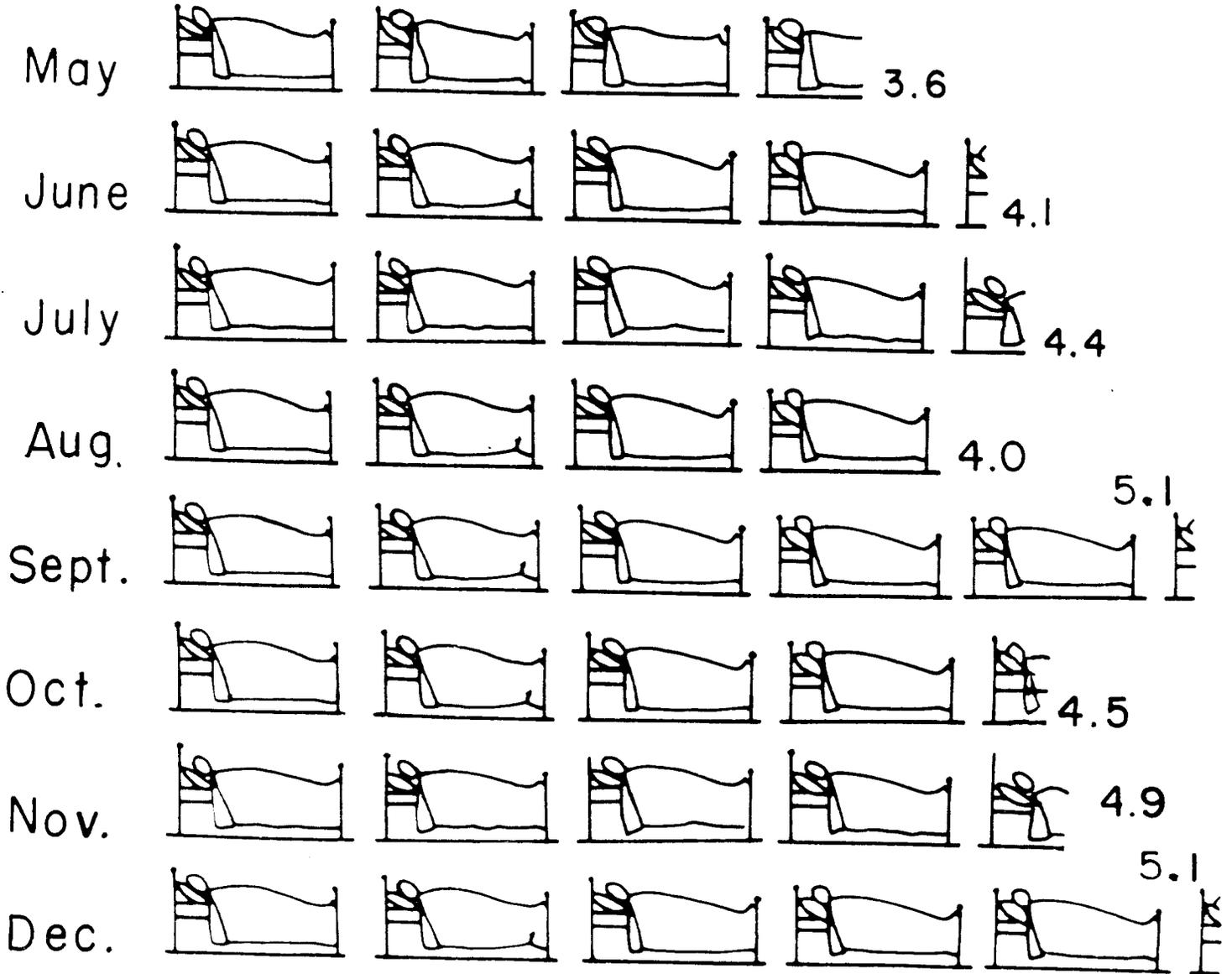
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# FREQUENCY RATE

Illness Absences Per 1,000 Days Scheduled

Dwg. 8418  
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# PERCENT OF EMPLOYEES VISITING DISPENSARY

Dwg. 8419  
Unclassified

