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Progress Report

HEALTH DIVISION

REPORT FOR THE MONTH  
ENDING OCTOBER 31, 1949

OAK RIDGE NATIONAL LABORATORY

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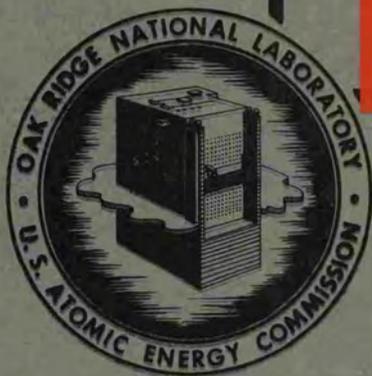
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OAK RIDGE NATIONAL LABORATORY  
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HEALTH DIVISION

REPORT FOR THE MONTH ENDING OCTOBER 31, 1949

J. S. Felton, M.D.

Date Issued APR 14 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 OCTOBER 1949

<u>Personnel</u>	<u>Monthly</u>	<u>Weekly</u>	<u>Hourly</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>			
Industrial Designer	1	0	0
<u>Industrial Hygiene Engineer</u>			
Industrial Hygiene Engineer	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>			
Office Personnel	1	8	0
<u>Custodial Personnel</u>			
Custodial Personnel	0	0	2
	<u>7</u>	<u>16</u>	<u>2</u>

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PROCEDURES ACCOMPLISHED FOR THE MONTH OF OCTOBER 1949

	<u>No. of Procedures</u>
Non-occupational injury	82
"          "          , revisit	87
Non-occupational illness	792
"          "          , revisit	468
Occupational injury or exposure, chemical	9
"          "          "          "          , "          , revisit	21
Occupational injury or exposure, chemical, a.o.q.*	0
"          "          "          "          , "          , "          , revisit	0
Occupational injury or exposure, n.o.c.**	123
"          "          "          "          , "          , revisit	313
Occupational injury, n.o.c.**, a.o.q.*	0
"          "          , "          , "          , revisit	0
Occupational injury or exposure, radiation	1
"          "          "          "          , "          , 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	192
Absence due to illness or injury, occupational	1
Physical examination, industrial hygiene	54
Physical examination, pre-placement	24
Physical examination, rehire	5
Physical examination, periodic health	12
Physical examination, job transfer	4
Physical examination, termination	15
Physical examination, food handler	0
Physical examination, other	13
Audiogram	51
Blood donation	4
Clinical laboratory procedure †	290
Electrocardiogram	11
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	19	
Spectacles ordered, prescription	18	
Spectacles issued, prescription	13	
Orthorater examination	47	
Orthorater examination, field	0	
Partial replacement	11	
Adjustment or repair	25	
Advisory service	3	
Total		136
X-ray examination:		
X-ray examination, non-occupational condition	29	
X-ray examination, occupational condition	212	
Total		241
Special study interview		40
Psychodiagnostic test		2
Consultation, non-occupational condition		134
Consultation, occupational condition		10
Consultation, without patient, non-occupational		69
Consultation, without patient, occupational		11
Home visit		0
Pre-marital serodiagnostic test		1
Immunization		74
Diagnostic procedure for an outside physician		4
GRAND TOTAL		3294

‡ The figure on page 4 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:

Basal Metabolism	2
Blood Chlorides	1
Blood Glucose	10
Blood N. P. N.	1
Complete Blood Count	176
Feces - Parasitological	2
Gastric Analysis	1
Kahn	36
Malarial Parasites	1
Red Blood Count and Hemoglobin	10
Rh Factor	31
Sedimentation Rate	8
Sperm Count	1
Stippled Cell Count	2
Urinalysis	231
Vital Capacity	34
White Blood Count and Differential	50
Typing - Blood	31
Total	628

DISPOSITION FOLLOWING DISPENSARY VISITS

Return to regular work	2620
Return to modified or part-time work	505
Remain off work	81
Granted leave	0
Died in plant	0
New employee, rejected	1
New employee, accepted conditionally	1
New employee, accepted	27
Sent to hospital or physician's office	59
AGGREGATE	3294

PERSONNEL ATTENDING PATIENTS

First Aid Attendant	1
First Aid Attendant and Nurse	0
First Aid Attendant, Nurse and Doctor	2
Nurse	1577
Nurse and Doctor	123
Doctor	714
Doctor and First Aid Attendant	0
Technician	802
Psychologist	75
AGGREGATE	3294

TIME LOST DUE TO ILLNESS ABSENCE

	<u>No. of Absences</u>	<u>No. of Days Lost</u>
Less than 1 day	14	0
1 day	85	85
2 days	21	42
3 days	13	39
4 days	9	36
5 days	9	45
6 days	6	36
7 days	4	28
8 days	5	40
9 days	2	18
10 days	2	20
11 days	2	22
12 days	2	24
13 days	1	13
14 days	1	14
16 days	2	32
17 days	1	17
18 days	1	18
19 days	1	19
20 days	1	20
22 days	2	44
24 days	1	24
25 days	1	25
29 days	1	29
30 days	2	60
31 days	1	31
37 days	1	37
38 days	1	38
99 days	1	99
AGGREGATE	193	955

NUMBER OF PROCEDURES BY GENERAL DIAGNOSIS GROUPS

	<u>Number of Procedures</u>	
Illnesses:	55	
Allergy	2	
Blood abnormality	16	
Cardio-vascular disease	18	
Dental disorder	73	
Dermatitis	11	
Endocrine disorder	38	
Eye and ear disorder	130	
Gastro-intestinal disease	18	
Genito-urinary disease	1	
Hernia	133	
Infections and parasitic disease	27	
Menstrual disease	118	
Nervous and mental state, neurologic disorder	22	
New growth	86	
Orthopedic disorder	80	
Pain and headache	587	
Respiratory disease	0	
Tuberculosis	68	
Miscellaneous		1483
Aggregate		
Injuries:	629	
Injuries	0	
Injuries, potential		629
Aggregate		40
Operative procedure		
Total		2152
Special services not involving diagnosis		1142
GRAND TOTAL		3294

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	3	76
Dental disorder	2	3
Dermatitis	1	0
Endocrine disorder	0	0
Eye and ear disorder	0	0
Gastro-intestinal disease	29	51
Genito-urinary disease	8	12
Hernia	0	0
Infections and parasitic disease	3	13
Menstrual disease	12	26
Nervous and mental state, neurologic disorder	5	7
New growth	2	1
Orthopedic disorder	4	35
Pain and headache	13	17
Respiratory disease	74	270
Tuberculosis	0	0
Miscellaneous	3	10
Injuries:		
Injuries, non-occupational	8	155
Injuries, occupational	0	0
Operative procedures	20	267
Total	193	955

NUMBER OF VISITS BY PERSONAL, OCCUPATIONAL AND GROUP CHARACTERISTICS

	<u>No. of Visits</u>	<u>No. of Employees</u>	<u>Average</u>
TOTAL	2772	2018	1.4
<u>SEX</u>			
Female	571	387	1.5
Male	2201	1631	1.3
<u>OCCUPATION</u>			
Life scientist	21	51	0.4
Physical scientist	320	268	1.2
Engineer	196	185	1.1
Technical assistant	428	240	1.8
Administrative and managerial personnel	176	137	1.3
Clerical personnel	454	351	1.3
Laborer	82	70	1.2
Maintenance personnel	104	94	1.1
Protective personnel	207	155	1.3
Craftsman	600	338	1.8
Chemical operator	123	68	1.8
Equipment operator	61	61	1.0
<u>RACE</u>			
Colored	109	119	0.9
White	2663	1899	1.4
<u>MARITAL STATUS</u>			
Married	2168	1580	1.4
Single	537	395	1.4
Divorced	30	19	1.6
Widowed	37	24	1.5
<u>HEALTH STATUS*</u>			
H-1	689	521	1.3
H-2	1695	1254	1.4
H-3	388	243	1.6

\*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.

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	<u>No. of Visits</u>	<u>No. of Employees</u>	<u>Average</u>
<u>DIVISION</u>			
Operations	114	76	1.5
Physics	66	67	1.0
Chemistry	353	210	1.7
Technical	234	177	1.3
Biology	71	103	0.7
Metallurgy	54	45	1.2
Training Program	6	8	0.8
Graduate Training Program	0	0	.
Health Physics	218	113	1.9
Engineering and Maintenance	1019	657	1.6
Industrial Relations	175	177	1.0
Health	12	24	0.5
General Office	109	136	0.8
Security	206	151	1.4
Directors	117	59	2.0
Wage Standards	1	3	0.3
Mathematics Panel	17	12	1.4
<u>AGE GROUP</u>			
18 to 19 years	16	8	2.0
20 to 29 years	1066	744	1.4
30 to 39 years	1049	758	1.4
40 to 49 years	448	352	1.3
50 to 59 years	175	137	1.3
60 to 65 years	18	19	0.9
<u>SHIFT</u>			
Straight days	2245	1715	1.3
Rotating shifts	477	273	1.7
Straight shift	50	30	1.7
<u>PAYROLL</u>			
Hourly	1144	775	1.5
Weekly	782	531	1.5
Monthly	846	712	1.2

TIME LOST BY PERSONAL, OCCUPATIONAL AND GROUP CHARACTERISTICS

	<u>Days Lost</u>	<u>Scheduled Days</u>	<u>Percent Time Lost</u>
TOTAL	922	42378	2.2
<u>SEX</u>			
Female	322	8127	4.0
Male	600	34251	1.8
<u>OCCUPATION</u>			
Life scientist	6	1071	0.6
Physical scientist	135	5628	2.4
Engineer	30	3885	0.8
Technical assiatant	174	5040	3.5
Administrative and managerial personnel	81	2877	2.8
Clerical personnel	204	7371	2.8
Laborer	38	1470	2.6
Maintenance personnel	94	1974	4.8
Protective personnel	32	3255	1.0
Craftsman	113	7098	1.6
Chemical operator	6	1428	0.4
Equipment operator	9	1281	0.7
<u>RACE</u>			
Colored	69	2499	2.8
White	853	39879	2.1
<u>MARITAL STATUS</u>			
Married	566	33180	1.7
Single	252	8295	3.0
Divorced	50	399	12.5
Widowed	54	504	10.7
<u>HEALTH STATUS*</u>			
H-1	242	10941	2.2
H-2	493	26334	1.9
H-3	187	5103	3.7

\*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</u> <u>Lost</u>	<u>Scheduled</u> <u>Days</u>	<u>Percent</u> <u>Time Lost</u>
<u>DIVISION</u>			
Operations	2	1596	0.1
Physics	23	1407	1.6
Chemistry	199	4410	4.5
Technical	44	3717	1.2
Biology	86	2163	4.0
Metallurgy	15	945	1.6
Training Program	0	168	0.0
Graduate Training Program	0	0	
Health Physics	51	2373	2.1
Engineering and Maintenance	221	13797	1.6
Industrial Relations	100	3717	2.7
Health	12	504	2.4
General Office	67	2856	2.3
Security	56	3171	1.8
Directors	46	1239	3.7
Wage Standards	0	63	0.0
Mathematics Panel	0	252	0.0
<u>AGE GROUP</u>			
18 to 19 years	5	168	3.0
20 to 29 years	323	15624	2.1
30 to 39 years	356	15918	2.2
40 to 49 years	185	7392	2.5
50 to 59 years	53	2877	1.8
60 to 65 years	0	399	0.0
<u>SHIFT</u>			
Straight days	823	36015	2.3
Rotating shifts	95	5733	1.7
Straight shift	4	630	0.6
<u>PAYROLL</u>			
Hourly	258	16275	1.6
Weekly	395	11151	3.5
Monthly	269	14952	1.8

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>
TOTAL	174	2018	8.6
<u>SEX</u>			
Female	87	387	22.5
Male	87	1631	5.3
<u>OCCUPATION</u>			
Life scientist	2	51	3.9
Physical scientist	11	268	4.1
Engineer	6	185	3.2
Technical assistant	42	240	17.5
Administrative and managerial personnel	10	137	7.3
Clerical personnel	63	351	17.9
Laborer	4	70	5.7
Maintenance personnel	9	94	9.6
Protective personnel	4	155	2.6
Craftsman	18	338	5.3
Chemical operator	3	68	4.4
Equipment operator	2	61	3.3
<u>RACE</u>			
Colored	11	119	9.2
White	163	1899	8.6
<u>MARITAL STATUS</u>			
Married	110	1580	7.0
Single	52	395	13.2
Divorced	6	19	31.6
Widowed	6	24	25.0
<u>HEALTH STATUS*</u>			
H-1	41	521	7.9
H-2	107	1254	8.5
H-3	26	243	10.7

\*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.

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	<u>Absentees</u>	<u>No. of Employees</u>	<u>Percent Employees</u>
<u>DIVISION</u>			
Operations	2	76	2.6
Physics	6	67	9.0
Chemistry	33	210	15.7
Technical	14	177	7.9
Biology	9	103	8.7
Metallurgy	5	45	11.1
Training Program	0	8	0.0
Graduate Training Program	0	0	
Health Physics	11	113	9.7
Engineering and Maintenance	43	657	6.5
Industrial Relations	12	177	6.8
Health	3	24	12.5
General Office	10	136	7.4
Security	13	151	8.6
Directors	13	59	22.0
Wage Standards	0	3	0.0
Mathematics Panel	0	12	0.0
<u>AGE GROUP</u>			
18 to 19 years	1	8	12.5
20 to 29 years	94	744	12.6
30 to 39 years	58	758	7.7
40 to 49 years	18	352	5.1
50 to 59 years	3	137	2.2
60 to 65 years	0	19	0.0
<u>SHIFT</u>			
Straight days	151	1715	8.8
Rotating shifts	20	273	7.3
Straight shift	3	30	10.0
<u>PAYROLL</u>			
Hourly	38	775	4.9
Weekly	101	531	19.0
Monthly	35	712	4.9

STATISTICAL SUMMARY

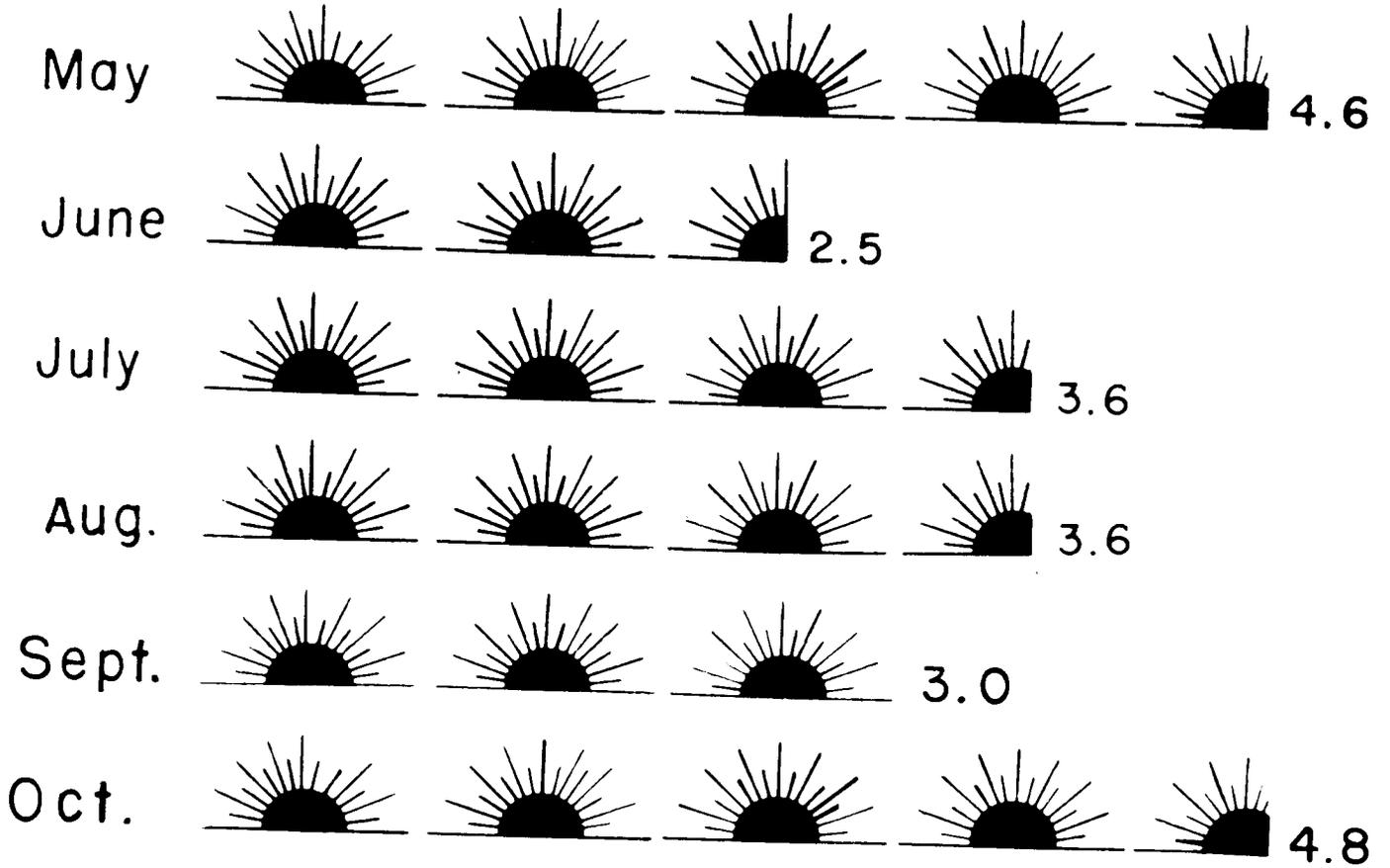
Severity Rate .....	4.8 days lost per absence
Disability Rate .....	21.8 days lost per 1000 days scheduled
Frequency Rate .....	4.5 absences per 1000 days scheduled
Number of Patients .....	1123
Number of Visits .....	2886
Number of Procedures .....	3294
Number of Employees at Laboratory .....	2018
Percent of Employees Visiting Dispensary .....	55.6
Number of Visits per Employee .....	1.4
Number of Illness Absences per Employee .....	0.1
Ratio of Occupational to Non-occupational Procedures .....	1 : 1.3
Ratio of Non-occupational to Occupational Injuries, First Visit ....	1 : 1.6
Ratio of Non-occupational to Occupational Injuries, All Visits ....	1 : 2.8
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 .....	1 : 192
Ratio of Occupational to Non-occupational Days Lost .....	1 : 29.8

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

# SEVERITY RATE

## Days Lost Per Absence

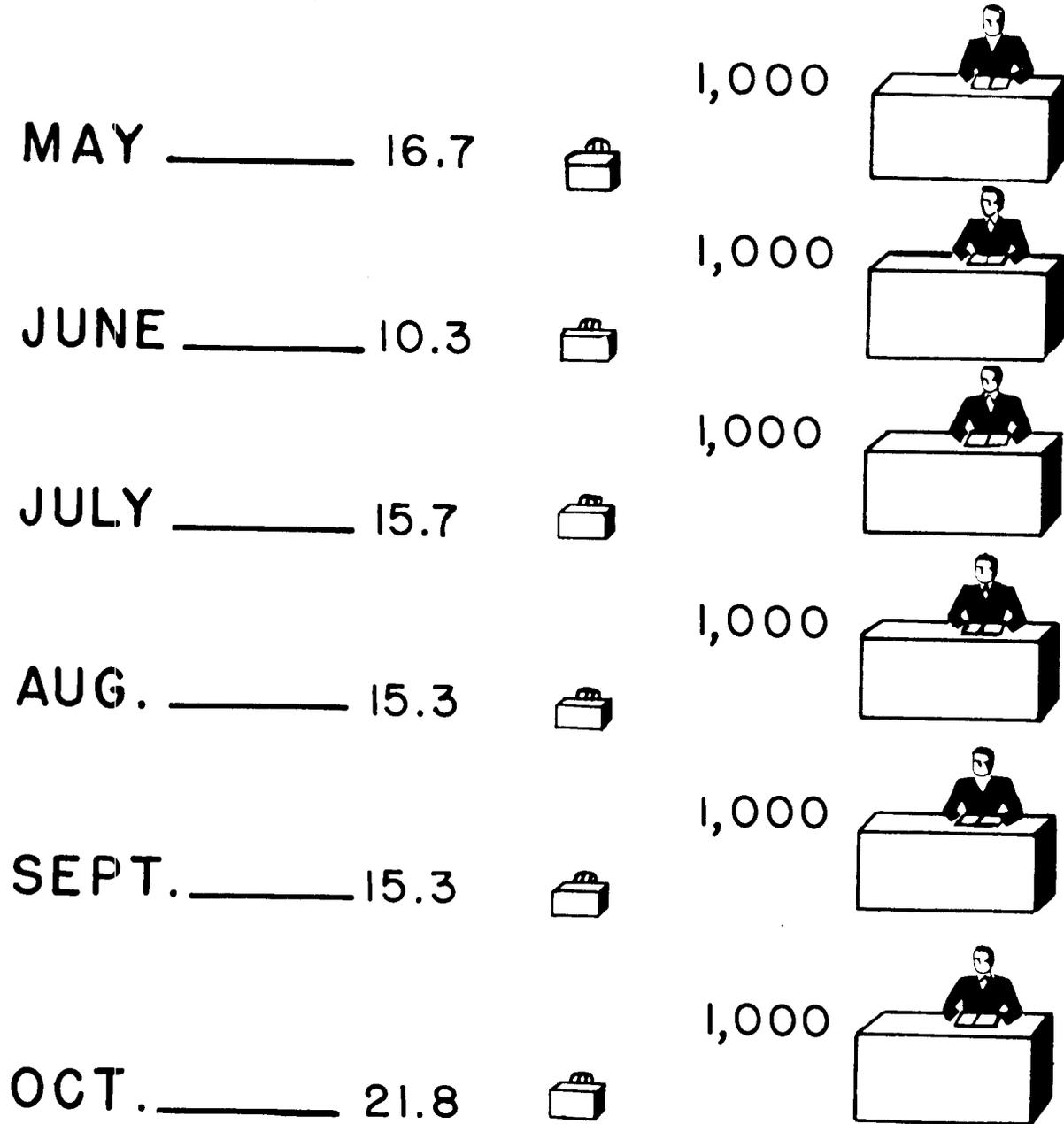
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# DISABILITY RATE

Days Lost Per 1,000 Days Scheduled

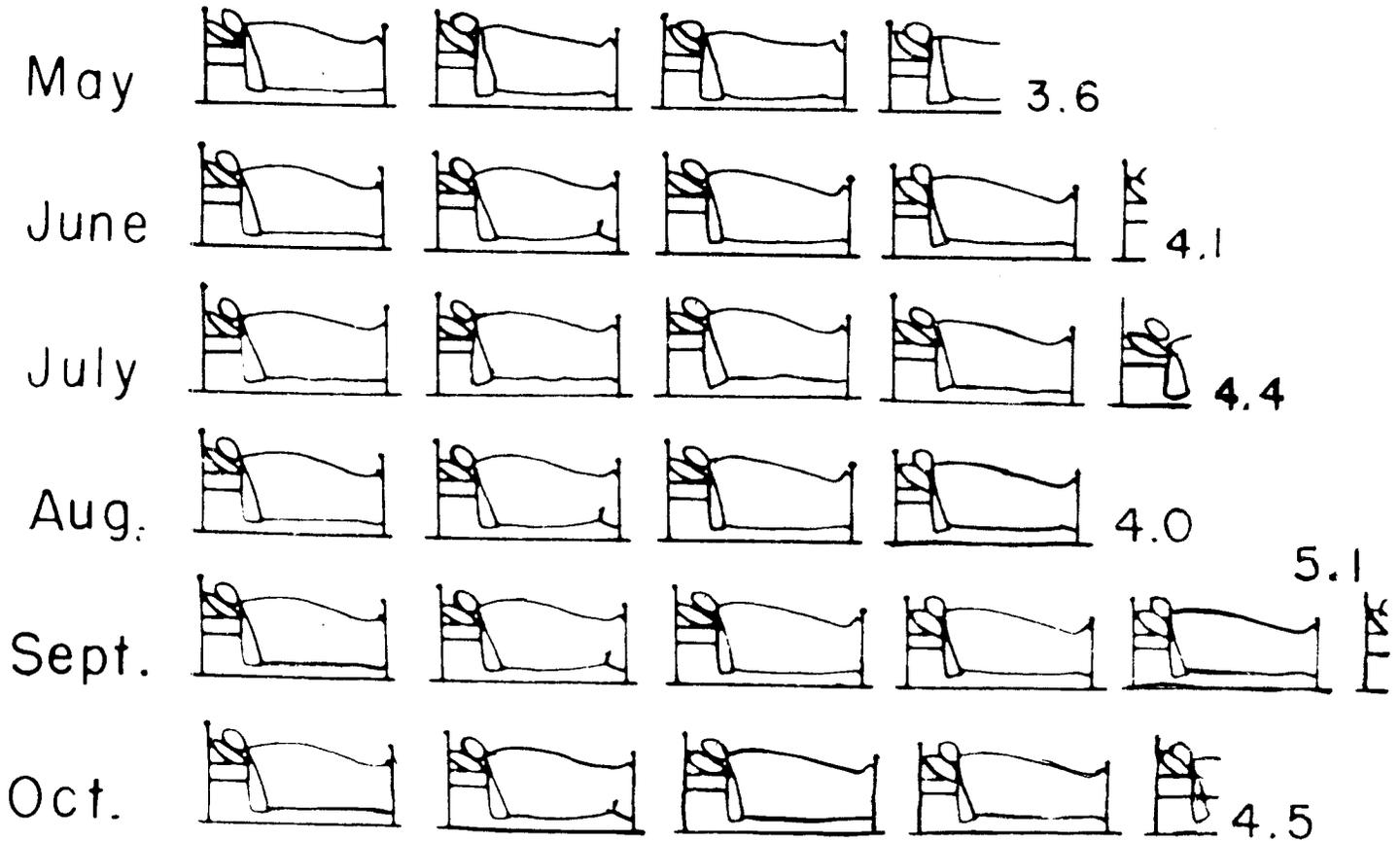
Dwg. 8409  
Unclassified



# FREQUENCY RATE

Illness Absences Per 1,000 Days Scheduled

Dwg. 8410  
Unclassified



# PERCENT OF EMPLOYEES VISITING DISPENSARY

Dwg. 8411  
Unclassified

