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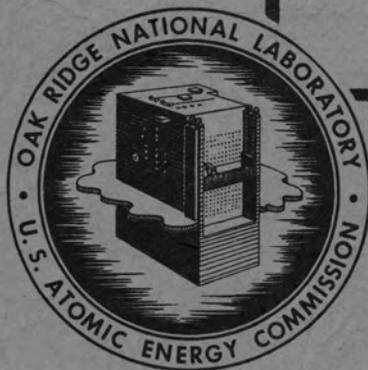
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HEALTH DIVISION
REPORT FOR MONTH ENDING
MAY 31, 1951



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HEALTH DIVISION

REPORT FOR THE MONTH ENDING MAY 31, 1951

J. S. Felton, M.D.

Date Issued

NOV 20 1951

OAK RIDGE NATIONAL LABORATORY
operated by
CARBIDE AND CARBON CHEMICALS COMPANY
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DISTRIBUTION OF EFFORT FOR THE MONTH OF MAY 1951

	<u>Monthly</u>	<u>Weekly</u>	<u>Hourly</u>
<u>Personnel</u>			
Physicians	3	0	0
Industrial Designer	1	0	0
Nurses	1	5	0
Medical Technicians	0	3	0
X-ray Technician	0	1	0
Office Personnel	0	8	0
Custodial Personnel	0	0	3
	<u>5</u>	<u>17</u>	<u>3</u>

Number of technical personnel added: 0

Number of technical personnel terminated: 0

ALLOCATION OF TIME

<u>Physicians</u>			
Administrative	1/3	0	0
Physical Examination	2/3	0	0
Dispensary Service	1 2/3	0	0
Health Education	1/3	0	0
<u>Industrial Designer</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 1/2	0
Urinalysis	0	1/2	0
<u>X-ray Technician</u>			
	0	1	0
<u>Office Personnel</u>			
	0	8	0
<u>Custodial Personnel</u>			
	0	0	3
	<u>5</u>	<u>17</u>	<u>3</u>

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STATISTICAL SUMMARY

Severity Rate 4.5 days lost per illness absence
 Disability Rate 13.6 days lost per 1000 days scheduled
 Frequency Rate 3.0 illness absences per 1000 days scheduled

Number of Patients

Employee

X-10 Dispensary 1411
 Y-12 Dispensary 220
 Total 1631

Non-employee

A.E.C. 4
 American Cyanamide 19
 Austin Co. 2
 Bechtel Corp. 10
 du Pont (Savannah) 25
 Foster-Wheeler 3
 Phillips Petroleum 30
 Other 36
 Total 129
 Total patients 1760

Number of Visits

Employee

X-10 Dispensary 3671
 Y-12 Dispensary 397
 Total 4068

Non-employee

A.E.C. 6
 American Cyanamide 41
 Austin Co. 4
 Bechtel Corp. 12
 du Pont (Savannah) 45
 Foster-Wheeler 4
 Phillips Petroleum 73
 Other 73
 Total 258
 Total visits 4326

Number of Procedures

Procedures performed at X-10 5460
 Procedures performed at Y-12 412
 Total procedures 5872

Number of Employees at the Laboratory 2896
 Percent Employees Visiting Dispensary 56.4
 Number of Visits per Employee 1.4
 Percent Visitors Visiting Dispensary 63.5
 Number of Visits per Visitor 1.3
 Number of Illness Absences per Employee 0.1

STATISTICAL SUMMARY - (Continued)

Ratio of Occupational to Non-occupational Procedures	1	:	0.5
Ratio of Non-occupational to Occupational Injuries, first visit	1	:	0.9
Ratio of Non-occupational to Occupational Injuries, all visits	1	:	1.7
Ratio of Occupational to Non-occupational Illnesses, first visit	1	:	395.
Ratio of Occupational to Non-occupational Illnesses, all visits	1	:	224.6
Ratio of Occupational to Non-occupational Absences	1	:	72
Ratio of Occupational to Non-occupational Days Lost	1	:	287.6

PROCEDURES ACCOMPLISHED FOR THE MONTH OF MAY, 1951

	<u>No. of Procedures</u>
Non-occupational injury	181
" " " , revisit	171
Non-occupational illness	790
" " " , revisit	333
Occupational injury or exposure, chemical	12
" " " " , " , revisit	15
Occupational injury or exposure, chemical, a.o.q.*	0
" " " " , " " , revisit	1
Occupational injury or exposure, n.o.c.**	156
" " " " , " , revisit	403
Occupational injury or exposure, n.o.c.**, a.o.q.*	2
" " " " , " " , revisit	1
Occupational injury or exposure, radiation	0
" " " " , " , revisit	0
Occupational injury or exposure, radiation, a.o.q.*	0
" " " " , " " , revisit	0
Occupational illness, n.o.c.**	2
" " " , " " , revisit	3
Absence due to illness or injury, non-occupational	216
" " " " " " , occupational	3
Physical examination, industrial hygiene	150
Physical examination, pre-placement	93
Physical examination, rehire	5
Physical examination, periodic health	23
Physical examination, food handler	0
Physical examination, other	22
Physical examination, termination	17
Physical examination, job transfer	15
Audiogram	346
Blood donation	0
Clinical laboratory procedure [†]	576
Electrocardiogram	326
Field clinical laboratory procedure	0

* a.o.q. - alleged or questionable

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

† see next page

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		<u>No. of Procedures</u>
Occupational vision section procedures:		
Spectacles issued, plano	118	
Spectacles ordered, prescription	63	
Spectacles issued, prescription	48	
Orthorater examination	366	
Partial replacement	30	
Adjustment or repair	41	
Advisory service	22	
Total		688
X-ray examination:		
X-ray examination, non-occupational condition	64	
X-ray examination, occupational condition	188	
Total		252
Special study interview		27
Psychodiagnostic test		9
Consultation, non-occupational condition		251
Consultation, occupational condition		2
Consultation without patient, non-occupational		32
Consultation without patient, occupational		3
Home visit		1
Pre-marital serodiagnostic test		4
Immunization		672
Diagnostic procedure for an outside physician		47
Clinical photograph		16
Dispensary visit, patient not seen		6
GRAND TOTAL		5872

*The figure on page 6 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	3
Basal Metabolism	2
Bleeding Time	1
Blood Glucose	5
Clotting Time	1
Complete Blood Count	300
Feces - Bacteriological	1
Feces - Parasitological	3
Fragility Test	1
Gastric Analysis	1
Hematocrit	1
Kahn - Presumptive	389
Kahn - Standard	5
Kahn - Titer	5
Red Blood Count and Hemoglobin	14
Rh Factor	99
Sedimentation Rate	3
Sputum	3
Typing - Blood	99
Urinalysis	313
Vital Capacity	69
White Blood Count and Differential	13
Miscellaneous	3
Total	1334

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DISPOSITION FOLLOWING DISPENSARY VISITS

Return to regular work	5225
Return to modified or part-time work	402
Remain off work	131
Granted leave	0
Died in plant	0
Rejected	0
Accepted conditionally	1
Accepted	97
Sent to hospital or physician's office	16
AGGREGATE	5872

ATTENDANT

First aid attendant	1
First aid attendant and nurse	0
First aid attendant, nurse and doctor	0
Nurse	3004
Nurse and Doctor	195
Doctor	689
Doctor and first aid attendant	0
Technician	1983
AGGREGATE	5872

TIME LOST DUE TO ILLNESS ABSENCE

	<u>No. of Absences</u>	<u>No. of Days Lost</u>
Less than 1 day	18	0
1 day	103	103
2 days	32	64
3 days	15	45
4 days	6	24
5 days	9	45
6 days	7	42
7 days	5	35
8 days	3	24
9 days	1	9
10 days	2	20
11 days	3	33
12 days	1	12
13 days	2	26
15 days	2	30
20 days	2	40
22 days	1	22
24 days	2	48
28 days	1	28
34 days	1	34
40 days	1	40
43 days	1	43
99 days	1	99
	219	866

NUMBER OF DIAGNOSES FOR ALL VISITS

Number of Diagnoses

INJURIES

Non-occupational:

Superficial injuries (abrasions, blisters, insect bites, scratches)	110
Lacerations	91
Contusions	44
Strains and sprains	85
Foreign bodies	4
Burns (thermal, chemical and radiant)	38
Fractures	26
Head injury	9
Miscellaneous	20

Total non-occupational injuries 427

Occupational:

Superficial injuries (abrasions, blisters, insect bites, scratches)	151
Lacerations	166
Contusions	87
Strains and sprains	37
Foreign bodies	27
Burns (thermal, chemical and radiant)	85
Fractures	14
Amputations	1
Head injury	25
Miscellaneous	3

Total occupational injuries 596

TOTAL DIAGNOSES OF INJURIES

1023

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Number of Diagnoses

ILLNESSES

Non-occupational:

Respiratory	384
Digestive	205
Circulatory	76
Diseases of blood and blood-forming organs	10
Genito-urinary	77
Bones and joints	163
Diseases of skin	106
Dermatitis	36
Diseases of eye	119
Diseases of ear	50
Allergic diseases	61
Endocrine and metabolic diseases	41
Infectious diseases	83
Psychoneurotic disorders	106
Common benign tumors	4
Symptoms and ill-defined conditions	60
Total non-occupational illnesses	1581

Occupational:

Dermatitis (due to chemicals)	1
Diseases of eye	3
Total occupational illnesses	4

TOTAL DIAGNOSES OF ILLNESSES 1585

No abnormal findings	17
General medical examination	1
Prophylactic inoculation and vaccination	10
Follow-up examination after operation, injury or disease other than tuberculosis	31
Follow-up examination for tuberculosis, not needing further care	2
Normal pregnancy	6
Medical and surgical aftercare	21
Immunizations	706
Impairment due to war injuries	1
Loss due to other and unspecified accidents and poisonings, except war	1
Congenital malformations	2
Pregnancy, complications of	1
Operations as cause of absences	19
Total	818
Special services not involving diagnosis	2686

GRAND TOTAL 6112

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ABSENCES AND TIME LOST BY GENERAL DIAGNOSIS GROUPS

	<u>No. of Absences</u>	<u>Days Lost</u>
<u>ILLNESSES:</u>		
Respiratory	50	157
Digestive	59	126
Circulatory	6	23
Genito-urinary	26	44
Bones and joints	10	51
Diseases of skin	1	1
Non-occupational dermatitis	1	1
Diseases of eye	4	4
Diseases of ear	2	1
Allergic	3	28
Metabolic	1	7
Infectious diseases	3	13
Psychoneurotic disorders	14	18
Symptoms and ill-defined conditions	8	86
Pregnancy, complications of	1	43
<u>INJURIES:</u>		
Lacerations	5	17
Contusions	2	26
Strains and sprains	7	51
Burns (thermal, chemical & radiant)	2	1
Miscellaneous	1	1
Absence for general medical examination	1	2
Operations as cause of absence	12	165
TOTAL	219	866

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NUMBER OF VISITS BY PERSONAL, OCCUPATIONAL AND GROUP CHARACTERISTICS

	<u>No. of Visits</u>	<u>No. of Employees</u>	<u>Average</u>
TOTAL	4068	2896	1.4
<u>SEX</u>			
Female	633	469	1.3
Male	3435	2427	1.4
<u>OCCUPATION</u>			
Life scientist	29	54	0.5
Physical scientist	490	475	1.0
Engineer	510	397	1.3
Technical assistant	649	373	1.7
Administrative and managerial personnel	200	156	1.3
Clerical	396	319	1.2
Laborer	121	108	1.1
Maintenance	80	54	1.5
Protective	176	157	1.1
Craftsman	1205	660	1.8
Chemical operator	159	89	1.8
Equipment operator	53	54	1.0
<u>RACE</u>			
Colored	219	164	1.3
White	3849	2732	1.4
<u>MARITAL STATUS</u>			
Married	3370	2373	1.4
Single	616	456	1.4
Widowed	40	27	1.5
Divorced	42	40	1.1
<u>HEALTH STATUS*</u>			
H-1	717	569	1.3
H-2	2902	2077	1.4
H-3	449	250	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.

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	<u>No. of Visits</u>	<u>No. of Employees</u>	<u>Average</u>
<u>DIVISION</u>			
Operations	115	93	1.2
Physics	134	96	1.4
Chemistry	100	101	1.0
Reactor Technology	69	83	0.8
Biology	86	108	0.8
Metallurgy	173	120	1.4
Technical Training Program	36	18	2.0
School of Reactor Technology	20	20	1.0
Health Physics	155	114	1.4
Engineering and Maintenance	1795	1000	1.8
Industrial Relations	184	131	1.4
Health	27	25	1.1
General Office	103	145	0.7
Security	185	157	1.2
Directors	184	154	1.2
Analytical Chemistry, X-10	191	116	1.6
Mathematics Panel	21	21	1.0
Chemical Technology	223	135	1.7
Analytical Chemistry, Y-12	48	40	1.2
Chemical Research	46	44	1.0
Electromagnetic Research	32	55	0.6
Isotope, Research and Production	63	75	0.8
ANP	78	45	1.7
<u>AGE GROUP</u>			
18 to 19 years	5	9	0.6
20 to 29 years	1340	960	1.4
30 to 39 years	1593	1169	1.4
40 to 49 years	801	548	1.5
50 to 59 years	291	189	1.5
60 to 69 years	38	21	1.8
<u>SHIFT</u>			
Straight days	3531	2559	1.4
Rotating shifts	473	301	1.6
Straight shift	64	36	1.8
<u>PAYROLL</u>			
Hourly	1768	1097	1.6
Weekly	1145	750	1.9
Monthly	1155	1049	1.1

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TIME LOST BY PERSONAL, OCCUPATIONAL AND GROUP CHARACTERISTICS

	<u>Days Lost</u>	<u>Scheduled Days</u>	<u>Percent Time Lost</u>
TOTAL	865	63712	1.4
<u>SEX</u>			
Male	613	53394	1.1
Female	252	10318	2.4
<u>OCCUPATION</u>			
Life scientist	6	1188	0.5
Physical scientist	31	10450	0.3
Engineer	55	8734	0.6
Technical assistant	139	8206	1.7
Administrative and managerial personnel	34	3432	1.0
Clerical personnel	189	7018	2.7
Laborer	26	2376	1.1
Maintenance personnel	10	1188	0.8
Protective personnel	18	3454	0.5
Craftsman	333	14520	2.3
Chemical operator	9	1958	0.5
Equipment operator	15	1188	1.3
<u>RACE</u>			
Colored	43	3608	1.2
White	822	60104	1.4
<u>MARITAL STATUS</u>			
Married	700	52206	1.3
Single	114	10332	1.1
Widowed	48	594	8.1
Divorced	3	880	0.3
<u>HEALTH STATUS*</u>			
H-1	124	12518	1.0
H-2	585	45672	1.3
H-3	156	5500	2.8

*H-1 Physically qualified for any position.

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

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	<u>Days Lost</u>	<u>Scheduled Days</u>	<u>Percent Time Lost</u>
<u>DIVISION</u>			
Operations	10	2046	0.5
Physics	50	2112	2.4
Chemistry	3	2222	0.1
Reactor Technology	9	1826	0.5
Biology	6	2376	0.3
Metallurgy	18	2640	0.7
Technical Training Program	0	396	0.0
School of Reactor Technology	0	440	0.0
Health Physics	45	2508	1.8
Engineering and Maintenance	418	22000	1.9
Industrial Relations	32	2882	1.1
Health	8	550	1.5
General Office	22	3190	0.7
Security	70	3454	2.0
Directors	38	3388	1.1
Analytical Chemistry, X-10	47	2552	1.8
Mathematics Panel	7	462	1.5
Chemical Technology	44	2970	1.1
Analytical Chemistry, Y-12	20	880	2.3
Chemical Research	13	968	1.3
Electromagnetic Research	10	1210	0.8
Isotope, Research and Production	6	1650	0.4
ANP	0	990	0.0
<u>AGE GROUP</u>			
18 to 19 years	2	198	1.0
20 to 29 years	269	21120	1.3
30 to 39 years	273	25718	1.1
40 to 49 years	126	12056	1.0
50 to 59 years	193	4158	4.6
60 to 69 years	2	462	0.4
<u>SHIFT</u>			
Straight days	776	56298	1.4
Rotating shifts	79	6622	1.2
Straight shift	10	792	1.3
<u>PAYROLL</u>			
Hourly	411	24134	1.7
Weekly	361	16500	2.2
Monthly	93	23078	0.4

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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	193	2896	6.7
<u>SEX</u>			
Male	103	2427	4.2
Female	90	469	19.2
<u>OCCUPATION</u>			
Life scientist	2	54	3.7
Physical scientist	9	475	1.9
Engineer	19	397	4.8
Technical assistant	52	373	13.9
Administrative and managerial personnel	9	156	5.8
Clerical personnel	52	319	16.3
Laborer	4	108	3.7
Maintenance personnel	4	54	7.4
Protective personnel	4	157	2.5
Craftsman	31	660	4.7
Chemical operator	3	89	3.4
Equipment operator	4	54	7.4
<u>RACE</u>			
Colored	12	164	7.3
White	181	2732	6.6
<u>MARITAL STATUS</u>			
Married	143	2373	6.0
Single	43	456	9.4
Widowed	4	27	14.8
Divorced	3	40	7.5
<u>HEALTH STATUS*</u>			
H-1	22	569	3.9
H-2	145	2077	7.0
H-3	26	250	10.4

*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>DIVISION</u>	<u>Absentees</u>	<u>No. of Employees</u>	<u>Percent Absentees</u>
Operations	7	93	7.5
Physics	6	96	6.3
Chemistry	3	101	3.0
Reactor Technology	4	83	4.8
Biology	4	108	3.7
Metallurgy	4	120	3.3
Technical Training Program	0	18	0.0
School of Reactor Technology	0	20	0.0
Health Physics	10	114	8.8
Engineering and Maintenance	49	1000	4.9
Industrial Relations	13	131	9.9
Health	3	25	12.0
General Office	6	145	4.1
Security	14	157	8.9
Directors	15	154	9.7
Analytical Chemistry, X-10	15	116	12.9
Mathematics Panel	5	21	23.8
Chemical Technology	17	135	12.6
Analytical Chemistry, Y-12	5	40	12.5
Chemical Research	6	44	13.6
Electromagnetic Research	3	55	5.5
Isotope, Research and Production	4	75	5.3
ANP	0	45	0.0
<u>AGE GROUP</u>			
18 to 19 years	2	9	22.2
20 to 29 years	85	960	8.9
30 to 39 years	72	1169	6.2
40 to 49 years	22	548	4.0
50 to 59 years	10	189	5.3
60 to 69 years	2	21	9.5
<u>SHIFT</u>			
Straight days	171	2559	6.7
Rotating shifts	18	301	6.0
Straight shift	4	36	11.1
<u>PAYROLL</u>			
Hourly	49	1097	4.5
Weekly	113	750	15.1
Monthly	31	1049	3.0

SEVERITY RATE Days Lost Per Absence

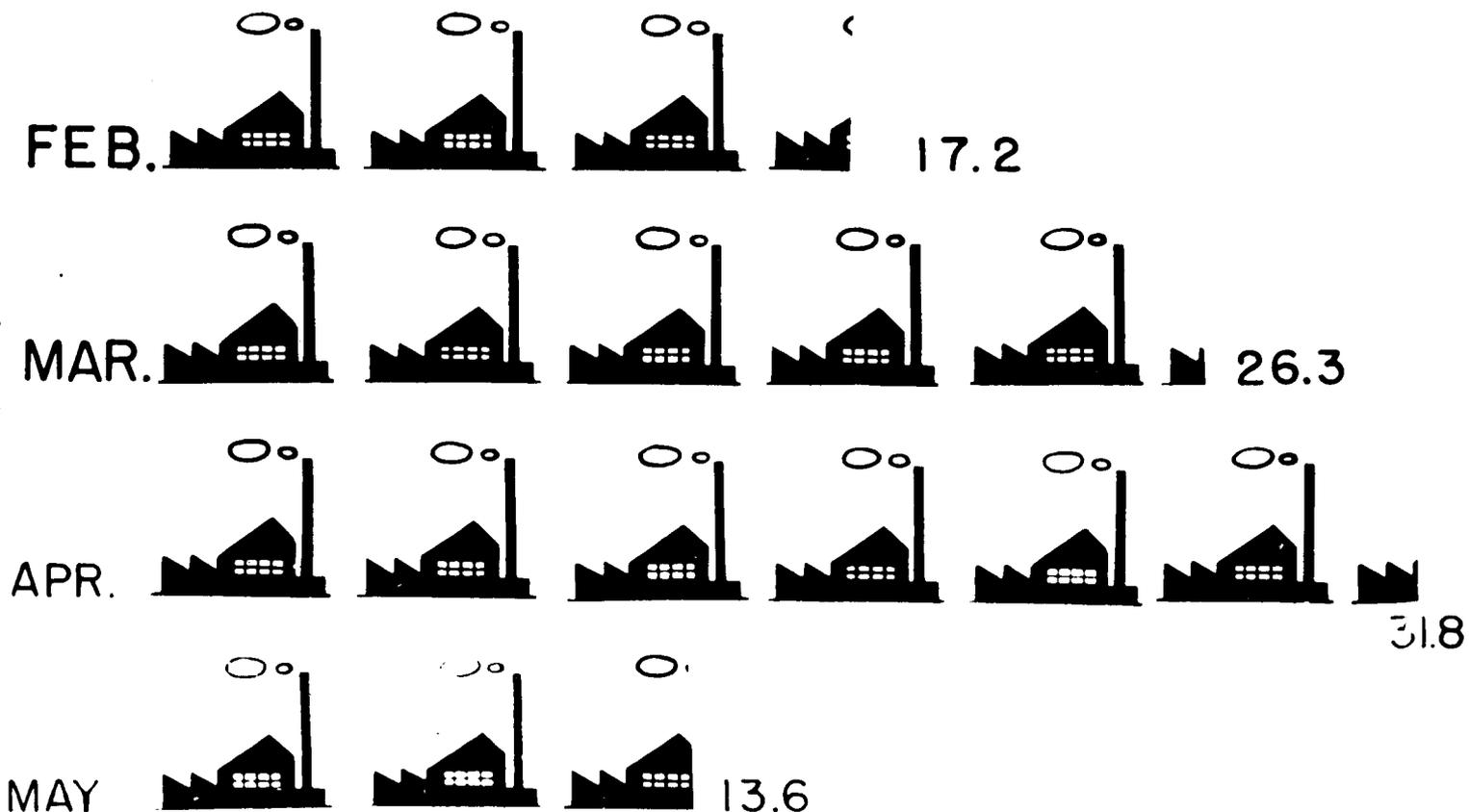
EACH SYMBOL REPRESENTS 1 DAY



DISABILITY RATE

Days Lost Per 1,000 Days Scheduled

EACH SYMBOL REPRESENTS 5 %

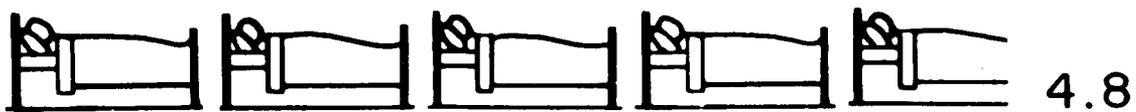


FREQUENCY RATE

Illness Absences Per 1,000 Days Scheduled

EACH SYMBOL REPRESENTS 1 DAY

FEB.



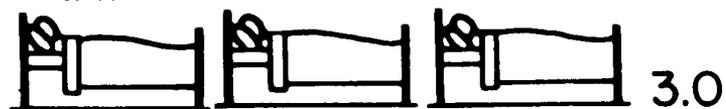
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PERCENT OF EMPLOYEES VISITING DISPENSARY

EACH SYMBOL REPRESENTS 10%

