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HEALTH DIVISION
REPORT FOR MONTH ENDING
JUNE 30, 1951

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Report Number ORNL-1060
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HEALTH DIVISION

REPORT FOR THE MONTH ENDING JUNE 30, 1951

J. S. Felton, M. D.

Date Issued

NOV 26 1951

OAK RIDGE NATIONAL LABORATORY
operated by

CARBIDE AND CARBON CHEMICALS COMPANY
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DISTRIBUTION OF EFFORT FOR THE MONTH OF JUNE 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
Laboratory	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 6.2 days lost per illness absence
 Disability Rate 20.3 days lost per 1000 days scheduled
 Frequency Rate 3.3 illness absences per 1000 days scheduled

Number of Patients

Employee

X-10 Dispensary 1394
 Y-12 Dispensary 214
 Total 1608

Non-employee

A.E.C. 25
 American Cyanamide 46
 Austin Co. 01
 Bechtel Corp. 0
 du Pont (Savannah)..... 32
 Foster-Wheeler 3
 Phillips Petroleum 17
 Other 41
 Total 165

Prospective employee 8

Total patients 1781

Number of Visits

Employee

X-10 Dispensary 3011
 Y-12 Dispensary 372
 Total 3383

Non-employee

A.E.C. 43
 American Cyanamide 87
 Austin Co. 1
 Bechtel Corp. 0
 duPont (Savannah) 75
 Foster-Wheeler 8
 Phillips Petroleum 33
 Other 64
 Total 311

Total visits 3694

Number of Procedures

Procedures performed at X-10 4784
 Procedures performed at Y-12 383
 Preliminary procedures 21
 Total procedures 5188

Number of Employees at the Laboratory 2987

STATISTICAL SUMMARY (Continued from page 4)

Percent Employees Visiting Dispensary	53.8
Number of Visits per Employee	1.1
Percent Visitors Visiting Dispensary	55.7
Number of Visits per Visitor	1.1
Number of Illness Absences per Employee	0.1
Ratio of Occupational to Non-occupational Procedures	1 : 0.7
Ratio of Non-occupational to Occupational Injuries, first visit	1 : 1.2
Ratio of Non-occupational to Occupational Injuries, all visits	1 : 2.3
Ratio of Occupational to Non-occupational Illnesses, first visit ...	1 : 367.
Ratio of Occupational to Non-occupational Illnesses, all visits	1 : 149.
Ratio of Occupational to Non-occupational Absences	1 : 28.5
Ratio of Occupational to Non-occupational Days Lost	1 : 11.4

PROCEDURES ACCOMPLISHED FOR THE MONTH OF JUNE 1951

	<u>No. of Procedures</u>
Non-occupational injury	138
" " " , revisit	108
Non-occupational illness	735
" " " , revisit	309
Occupational injury or exposure, chemical	11
" " " " , " , revisit	30
Occupational injury or exposure, chemical, a.o.q.*	1
" " " " , " , " , revisit	0
Occupational injury or exposure, n.o.c.**	164
" " " " , " , revisit	351
Occupational injury or exposure, n.o.c.**, a.o.q.*	0
" " " " , " , " , 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.**	2
" " , " , revisit	5
Absence due to illness or injury, non-occupational	200
" " " " " , occupational	7
Physical examination, industrial hygiene	165
Physical examination, pre-placement	62
Physical examination, rehire	9
Physical examination, periodic health	45
Physical examination, food handler	16
Physical examination, other	59
Physical examination, termination	33
Physical examination, job transfer	8
Audiogram	194
Blood donation	41
Clinical laboratory procedure †	440
Electrocardiogram	172
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	81	
Spectacles ordered, prescription	45	
Spectacles issued, prescription	28	
Orthorater examination	191	
Partial replacement	22	
Adjustment or repair	17	
Advisory service	9	
Total		393
X-ray examination:		
X-ray examination, non-occupational condition	77	
X-ray examination, occupational condition	269	
Total		346
Special study interview		18
Psychodiagnostic test		6
Consultation, non-occupational condition		243
Consultation, occupational condition		1
Consultation without patient, non-occupational		53
Consultation without patient, occupational		2
Home visit		0
Pre-marital serodiagnostic test		7
Immunization		766
Diagnostic procedure for an outside physician		29
Clinical photograph		5
Dispensary visit, patient not seen		14
GRAND TOTAL		5188

†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:

Agglutination	2
Bacteriological Smear	4
Basal Metabolism	3
Blood Cholesterol	1
Blood Glucose	3
Complete Blood Count	329
Feces - Bacteriological	19
Feces - Parasitological	17
Hematocrit	1
Kahn - Presumptive	202
Kahn - Standard	4
Kahn - Titer	4
Rbc. & Hbg.	46
Rh Factor	66
Sedimentation Rate	10
Typing - Blood	66
Urinalysis	355
Vital Capacity	53
Wbc & Differential	14
Miscellaneous	3
Total	1202

DISPOSITION FOLLOWING DISPENSARY VISITS

Return to regular work	4592
Return to modified or part-time work	297
Remain off work	8
Granted leave	198
Died in plant	0
Rejected	0
Accepted conditionally	3
Accepted	68
Sent to hospital or physician's office	22
AGGREGATE	5188

ATTENDANT

First aid attendant	0
First aid attendant and nurse	0
First aid attendant, nurse and doctor	0
Nurse	0
Nurse and doctor	2710
Doctor	190
Doctor and first aid attendant	710
Technician	1578
AGGREGATE	5188

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TIME LOST DUE TO ILLNESS ABSENCE

	<u>No. of Absences</u>	<u>No. of Days Lost</u>
Less than 1 day	19	
1 day	91	91
2 days	20	40
3 days	12	36
4 days	7	28
5 days	10	50
6 days	4	24
7 days	4	28
8 days	3	24
9 days	1	9
10 days	7	70
12 days	2	24
13 days	2	26
14 days	2	28
15 days	3	45
16 days	1	16
17 days	1	17
19 days	2	38
20 days	4	80
21 days	1	21
22 days	1	22
28 days	1	28
35 days	1	35
42 days	1	42
52 days	1	52
55 days	1	55
59 days	1	59
60 days	1	60
66 days	1	66
74 days	1	74
89 days	1	89
	207	1277

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NUMBER OF DIAGNOSES FOR ALL VISITS

No. of Diagnoses

INJURIES

Non-occupational:

Superficial injuries (abrasions, blisters, insect bites, scratches)	93
Lacerations	59
Contusions	39
Strains and sprains	46
Foreign bodies	2
Burns (thermal, chemical and radiant)	5
Fractures	23
Head injury	3
Poisoning	2
Miscellaneous	27
Total	299

Occupational:

Superficial injuries (abrasions, blisters, insect bites, scratches)	146
Lacerations	170
Contusions	77
Strains and sprains	24
Foreign bodies	22
Burns (thermal, chemical and radiant)	113
Fractures	3
Head injury	16
Miscellaneous	4
Total	575

TOTAL DIAGNOSES OF INJURY

874

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No. of Diagnoses

ILLNESSES

Non-occupational:

Respiratory	338
Digestive	205
Circulatory	75
Diseases of blood and blood-forming organs	11
Genito-urinary	69
Bones and joints	151
Diseases of skin	80
Dermatitis	31
Diseases of eye	119
Diseases of ear	43
Allergic	78
Endocrine and metabolic	38
Infectious diseases	67
Psychoneurotic disorders	64
Common benign tumors	10
Symptoms and ill-defined conditions	92
Total	1471

Occupational:

Respiratory	4
Dermatitis due to:	
Solvents	2
Chemicals	1
Other causes	1
Total	4
Diseases of eye	3
Total	11

TOTAL DIAGNOSES OF ILLNESS 1482

OPERATIONS AS CAUSE OF ABSENCE

Non-occupational	24
Occupational	1
TOTAL	25

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	<u>No. of Diagnoses</u>
No abnormal findings	16
Skin immunity and sensitization tests	4
Prophylactic inoculation and vaccination	13
Follow-up examination for tuberculosis, not needing further medical care	2
Follow-up examination after operation, injury or disease other than tuberculosis	17
Normal pregnancy	6
Medical and surgical aftercare	23
Immunizations	771
Congenital malformations	8
Total	860
TOTAL DIAGNOSES	3241
Special services <u>not</u> involving diagnoses	2151
GRAND TOTAL	5392

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ABSENCES AND TIME LOST BY GENERAL DIAGNOSIS GROUPS

	<u>No. of</u> <u>Absences</u>	<u>Days</u> <u>Lost</u>
<u>ILLNESSES:</u>		
Respiratory	50	173
Digestive	44	189
Circulatory	2	53
Diseases of blood and blood forming organs	1	6
Genito-urinary	34	112
Bones and joints	7	92
Diseases of skin	4	13
Diseases of eye	3	4
Diseases of ear	2	0
Allergic	3	14
Endocrine and metabolic	1	12
Infectious diseases	2	8
Common benign tumors	1	13
Symptoms and ill-defined conditions	17	108
<u>INJURIES:</u>		
Lacerations	3	4
Contusions	2	7
Strains and sprains	3	2
Fractures	3	26
Miscellaneous	1	2
Follow-up examination after operation, injury or disease other than tuberculosis	3	90
Normal pregnancy	1	1
Medical and surgical aftercare	2	0
Operations as cause of absences	18	347
TOTAL	207	1277

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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	3383	2987	1.1
<u>SEX</u>			
Female	635	487	1.3
Male	2748	2500	1.1
<u>OCCUPATION</u>			
Life scientist	55	65	0.8
Physical scientist	468	519	0.9
Engineer	464	412	1.1
Technical assistant	485	386	1.3
Administrative and managerial personnel	154	158	1.0
Clerical	366	330	1.1
Laborer	92	108	0.9
Maintenance	72	54	1.3
Protective	152	156	1.0
Craftsman	901	658	1.4
Chemical operator	131	87	1.5
Equipment operator	43	54	0.8
<u>RACE</u>			
Colored	189	164	1.2
White	3194	2823	1.1
<u>MARITAL STATUS</u>			
Married	2701	2443	1.1
Single	609	478	1.3
Widowed	50	27	1.9
Divorced	23	39	0.6
<u>HEALTH STATUS*</u>			
H-1	569	571	1.0
H-2	2370	2115	1.1
H-3	338	250	1.4
H-5	106	51	2.1

*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.

H-5 Temporary employees, who aren't given complete physical examinations, are placed in this category since their physical status can not be determined.

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<u>DIVISION</u>	<u>No. of Visits</u>	<u>No. of Employees</u>	<u>Average</u>
Operations	66	95	0.7
Physics	106	98	1.1
Chemistry	85	106	0.8
Reactor Technology	68	89	0.8
Biology	76	113	0.7
Metallurgy	118	127	0.9
Technical Training Program	92	58	1.6
School of Reactor Technology	13	20	0.7
Health Physics	124	117	1.1
Engineering and Maintenance	1336	997	1.3
Industrial Relations	173	137	1.3
Health	23	25	0.9
General Office	131	153	6.8
Security	164	155	1.1
Directors	159	156	1.0
Analytical Chemistry, X-10	177	118	1.5
Mathematics Panel	15	22	0.7
Chemical Technology	174	135	1.3
Analytical Chemistry, Y-12	61	42	1.5
Chemical Research	42	48	0.9
Electromagnetic Research	31	55	0.6
Isotope, Research and Production	68	76	0.9
ANP	81	45	1.8
<u>AGE GROUP</u>			
18 to 19 years	12	9	1.3
20 to 29 years	1195	980	1.2
30 to 39 years	1275	1212	1.1
40 to 49 years	651	573	1.1
50 to 59 years	227	190	1.2
60 to 69 years	23	23	1.0
<u>SHIFT</u>			
Straight days	2932	2650	1.1
Rotating shifts	416	300	1.4
Straight shift	35	37	0.9
<u>PAYROLL</u>			
Hourly	1375	1092	1.3
Weekly	939	778	1.2
Monthly	1069	1117	1.0

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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>
<u>TOTAL</u>	1273	62727	2.0
<u>SEX</u>			
Male	812	52500	1.5
Female	461	10227	4.5
<u>OCCUPATION</u>			
Life scientist	4	1365	0.3
Physical scientist	93	10899	0.9
Engineer	51	8652	0.6
Technical assistant	243	8106	3.0
Administrative and managerial personnel	34	3318	1.0
Clerical personnel	175	6930	2.5
Laborer	18	2268	0.8
Maintenance personnel	13	1134	1.1
Protective personnel	53	3276	1.6
Craftsman	545	13818	3.9
Chemical operator	0	1827	0.0
Equipment operator	44	1134	3.9
<u>RACE</u>			
Colored	145	3444	4.2
White	1128	59283	1.9
<u>MARITAL STATUS</u>			
Married	1004	51303	2.0
Single	230	10038	2.3
Widowed	15	567	2.6
Divorced	24	819	2.9
<u>HEALTH STATUS*</u>			
H-1	227	11991	1.9
H-2	698	44415	1.6
H-3	348	5250	6.6
H-5	0	1071	0.0

*H-1 Physically qualified for any position.

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H-5 Temporary employees who aren't given complete physical examinations are placed in this category since their physical status cannot be determined.

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	<u>Days Lost</u>	<u>Scheduled Days</u>	<u>Percent Time Lost</u>
<u>DIVISION</u>			
Operations	3	1995	0.2
Physics	15	2058	0.7
Chemistry	8	2226	0.4
Reactor Technology	2	1869	0.1
Biology	35	2373	1.5
Metallurgy	5	2667	0.2
Technical Training Program	0	1218	0.0
School of Reactor Technology	0	420	0.0
Health Physics	104	2457	4.2
Engineering and Maintenance	544	20937	2.6
Industrial Relations	142	2877	4.9
Health	12	525	2.3
General Office	16	3213	0.5
Security	87	3255	2.7
Directors	32	3276	1.0
Analytical Chemistry, X-10	29	2478	1.2
Mathematics Panel	2	462	0.4
Chemical Technology	8	2835	0.3
Analytical Chemistry, Y-12	15	882	1.7
Chemical Research	76	1008	7.5
Electromagnetic Research	19	1155	1.6
Isotope, Research and Production	6	1596	0.4
ANP	113	945	12.0
<u>AGE GROUP</u>			
18 to 19 years	1	189	0.5
20 to 29 years	298	20580	1.4
30 to 39 years	591	25452	2.3
40 to 49 years	349	12033	2.9
50 to 59 years	34	3990	0.9
60 to 69 years	0	483	0.0
<u>SHIFT</u>			
Straight days	1136	55650	2.0
Rotating shifts	93	6300	1.5
Straight shift	44	777	5.7
<u>PAYROLL</u>			
Hourly	673	22932	2.9
Weekly	438	16338	2.7
Monthly	162	23457	0.7

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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	183	2987	6.1
<u>SEX</u>			
Male	104	2500	4.2
Female	79	487	16.2
<u>OCCUPATION</u>			
Life scientist	2	65	3.1
Physical scientist	17	519	3.3
Engineer	17	412	4.1
Technical assistant	46	386	11.9
Administrative and managerial personnel	6	158	3.8
Clerical personnel	42	330	12.7
Laborer	4	108	3.7
Maintenance personnel	2	54	3.7
Protective personnel	7	156	4.5
Craftsman	37	658	5.6
Chemical operator	1	87	1.1
Equipment operator	2	54	3.7
<u>RACE</u>			
Colored	11	164	6.7
White	172	2823	6.1
<u>MARITAL STATUS</u>			
Married	131	2443	5.4
Single	42	478	8.8
Widowed	8	27	29.6
Divorced	2	39	5.1
<u>HEALTH STATUS*</u>			
H-1	30	571	5.3
H-2	129	2115	5.1
H-3	24	250	9.6
H-5	0	51	0.0

*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.

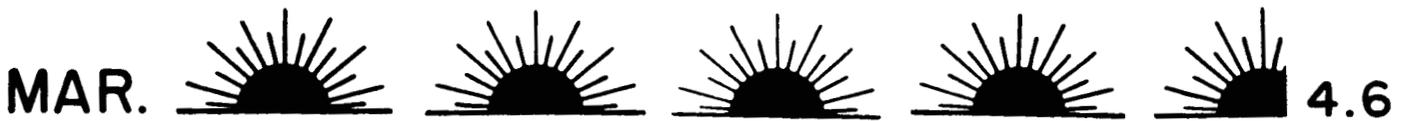
H-5 Temporary employees who aren't given complete physical examinations are placed in this category since their physical status cannot be determined.

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<u>DIVISION</u>	<u>Absentees</u>	<u>No. of Employees</u>	<u>Percent Absentees</u>
Operations	5	95	5.3
Physics	5	98	5.1
Chemistry	2	106	1.9
Reactor Technology	3	89	3.4
Biology	3	113	2.7
Metallurgy	6	127	4.7
Technical Training Program	0	58	0.0
School of Reactor Technology	0	20	0.0
Health Physics	16	117	13.7
Engineering and Maintenance	53	997	5.3
Industrial Relations	10	137	7.3
Health	4	25	16.0
General Office	7	153	4.9
Security	16	155	10.3
Directors	11	156	7.1
Analytical Chemistry, X-10	10	118	8.5
Mathematics Panel	2	22	9.1
Chemical Technology	7	135	5.2
Analytical Chemistry, Y-12	6	42	14.3
Chemical Research	5	48	10.4
Electromagnetic Research	3	55	5.5
Isotope, Research and Production	6	76	7.9
ANP	3	45	6.7
<u>AGE GROUP</u>			
18 to 19 years	2	9	22.2
20 to 29 years	77	980	7.9
30 to 39 years	69	1212	5.7
40 to 49 years	29	573	5.1
50 to 59 years	6	190	3.2
60 to 69 years	0	23	0.0
<u>SHIFT</u>			
Straight days	166	2650	6.3
Rotating shifts	15	300	5.0
Straight shift	2	37	5.4
<u>PAYROLL</u>			
Hourly	53	1092	4.9
Weekly	94	778	12.1
Monthly	36	1117	3.2

SEVERITY RATE Days Lost Per Absence

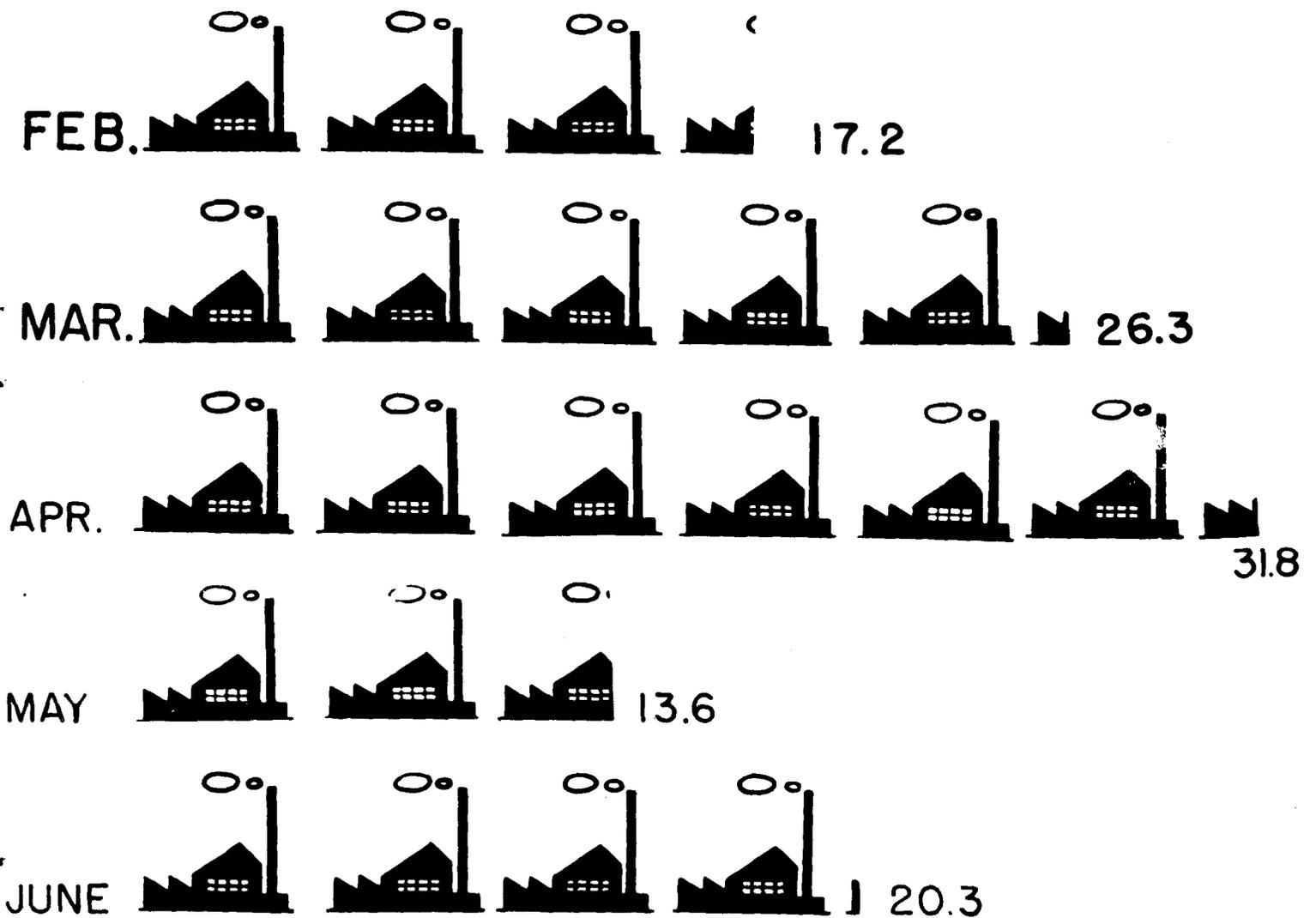
EACH SYMBOL REPRESENTS 1 DAY



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



PERCENT OF EMPLOYEES VISITING DISPENSARY

EACH SYMBOL REPRESENTS 10%

