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**HEALTH DIVISION REPORT**  
**FOR MONTH ENDING NOVEMBER 30, 1951**



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OAK RIDGE NATIONAL LABORATORY  
OPERATED BY  
CARBIDE AND CARBON CHEMICALS COMPANY  
A DIVISION OF UNION CARBIDE AND CARBON CORPORATION



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HEALTH DIVISION

REPORT FOR THE MONTH ENDING NOVEMBER 30, 1951

J. S. Felton, M. D.

DATE ISSUED

JUN 24 1956

OAK RIDGE NATIONAL LABORATORY  
Operated by  
CARBIDE AND CARBON CHEMICALS COMPANY  
A Division of Union Carbide and Carbon Corporation  
Post Office Box P  
Oak Ridge, Tennessee

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DISTRIBUTION OF EFFORT FOR THE MONTH OF NOVEMBER 1951

<u>Personnel</u>	<u>Monthly</u>	<u>Weekly</u>	<u>Hourly</u>
Physicians	2	0	0
Nurses	1	6	0
Medical Technicians	0	4	0
X-ray Technician	0	1	0
Office Personnel	0	8	0
Custodial Personnel	0	0	3
	<u>3</u>	<u>19</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	2/3	0	0
Health Education	1/3	0	0
<u>Nurses</u>			
Supervision	1/2	0	0
Dispensary Shift Nursing	1/2	6	0
<u>Medical Technicians</u>			
General Laboratory	0	2	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

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STATISTICAL SUMMARY

Severity Rate . . . . . 3.6 days lost per illness absence  
Disability Rate . . . . . 14.5 days lost per 1000 days scheduled  
Frequency Rate . . . . . 4.0 illness absences per 1000 days  
scheduled

Number of patients

Employee . . . . . 1591  
Non-employee  
A.E.C. . . . . 63  
American Cyanamide . . . . . 17  
du Pont (Savannah) . . . . . 34  
Foster-Wheeler . . . . . 4  
Phillips Petroleum . . . . . 3  
Other . . . . . 32  
Total . . . . . 153  
Prospective employees . . . . . 9  
Total patients . . . . . 1753

Number of patients seen at X-10 Dispensary . . . . . 1480  
Number of patients seen at Y-12 Dispensary . . . . . 273  
Total patients . . . . . 1753

Number of visits

Employee  
X-10 Dispensary . . . . . 2858  
Y-12 Dispensary . . . . . 465  
Total . . . . . 3323  
Non-employee  
A.E.C. . . . . 70  
American Cyanamide . . . . . 20  
du Pont (Savannah) . . . . . 59  
Foster-Wheeler . . . . . 4  
Phillips Petroleum . . . . . 4  
Other . . . . . 72  
Total . . . . . 229  
Total visits . . . . . 3552

Number of procedures

Procedures performed at X-10 . . . . . 4171  
Procedures performed at Y-12 . . . . . 482  
Preliminary procedures . . . . . 55  
Total procedures . . . . . 4708

Number of Employees at the Laboratory . . . . . 3032

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STATISTICAL SUMMARY (Continued from page 4)

Percent Employees visiting Dispensary . . . . .	52.2
Number of Visits per Employee . . . . .	1.1
Percent of Visitors Visiting Dispensary . . . . .	31.3
Number of Visits per Visitor . . . . .	.4
Number of Illness Absences per Employee . . . . .	.1
Ratio of Occupational to Non-occupational Procedures . . . . .	1 : 0.9
Ratio of Non-occupational to Occupational Injuries, first visit . . . . .	1 : 1.6
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 . . . . .	1 : 130
Ratio of Occupational to Non-occupational Days Lost . . . . .	**

\*Ratio is not shown since there were no occupational illnesses during the month of November 1951.

\*\* Ratio is not shown since there were no occupational absences during the month of November 1951.

PROCEDURES ACCOMPLISHED FOR THE MONTH OF NOVEMBER 1951

	<u>No. of Procedures</u>
Non-occupational injury	88
" " " " , revisit	70
Non-occupational illness	905
" " " " , revisit	428
Occupational injury or exposure, chemical	19
" " " " " " , revisit	12
Occupational injury or exposure, chemical, a.o.q.*	0
" " " " " " , revisit	0
Occupational injury or exposure, n.o.c. **	122
" " " " " " , revisit	296
Occupational injury or exposure, n.o.c.**, a.o.q.*	3
" " " " " " , revisit	3
Occupational injury or exposure, radiation	0
" " " " " " , revisit	1
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	260
" " " " " " , occupational	2
Physical examination, industrial hygiene	22
Physical examination, pre-placement	42
Physical examination, rehire	2
Physical examination, periodic health	224
Physical examination, food handler	18
Physical examination, other	38
Physical examination, termination'	41
Physical examination, job transfer	12
Audiogram	194
Blood donation	15
Clinical laboratory procedure /	334
Electrocardiogram	173
Field clinical laboratory procedure	87

\* 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	26	
Spectacles ordered, prescription	42	
Spectacles issued, prescription	19	
Orthorater examination	165	
Partial replacement	11	
Adjustment or repair	20	
Advisory service	17	
Total		300
X-ray examination:		
X-ray examination, non-occupational condition	29	
X-ray examination, occupational condition	204	
Total		233
Special study interview		3
Clinical photograph		3
Dispensary visit, patient not seen		7
Psychodiagnostic services		44
Balistocardiogram		0
Consultation, occupational condition		4
Consultation, non-occupational condition		180
Consultation, without patient, occupational		2
Consultation, without patient, non-occupational		67
Premarital serodiagnostic		6
Immunizations		421
Diagnostic procedure for outside physician		27
GRAND TOTAL		4708

∕ 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	1
Bacteriological culture	2
Bacteriological smear	3
Basal Metabolism	1
Blood cholesterol	1
Blood glucose	7
Blood - N.P.N.	2
Complete blood count	363
Feces - Bacteriological	81
Feces - occult blood	1
Feces - food handler	19
Kahn	209
P.S.P.	1
Red blood count and hemaglobin	15

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	<u>No. of Procedures</u>
Rh factor	119
Sedimentation rate	14
Typing - blood	119
Urinalysis	380
Stippled cell count	1
White blood count and differential	5
Vital capacity	1
Total	1345

DISPOSITION FOLLOWING DISPENSARY VISIT

Return to regular work	4122
Return to modified or part-time work	195
Death	0
Remain off work	326
Granted leave	0
Died in plant	0
Rejected	1
Accepted conditionally	1
Accepted	42
Sent to hospital or physicians office	21
Total	4708

ATTENDANT

Psychiatrist	15
First aid attendant	0
First aid attendant and nurse	0
First aid attendant, nurse and doctor	1
Nurse	2363
Nurse and doctor	223
Doctor	745
Doctor and first aid attendant	0
Technician	1340
Psychologist	21
Total	4708

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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	0
1 day	123	123
2 days	45	90
3 days	19	57
4 days	10	40
5 days	9	45
6 days	4	24
7 days	4	28
8 days	4	32
9 days	2	18
10 days	3	30
11 days	1	11
12 days	3	36
13 days	1	13
14 days	4	56
15 days	1	15
16 days	2	32
20 days	2	40
21 days	1	21
23 days	1	23
26 days	1	26
26 days	1	29
29 days	1	55
55 days	1	84
84 days		
	262	928

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NUMBER OF DIAGNOSES FOR ALL VISITS

	<u>No. of Diagnoses</u>
<u>INJURIES</u>	
Non-occupational:	
Superficial injuries (abrasions, blisters, insect bites, scratches)	47
Lacerations	55
Contusions	23
Strains and sprains	24
Foreign body	8
Burns (thermal, chemical and radiant)	15
Fractures	6
Amputations	2
Head injury	3
Miscellaneous	4
Total	187
Occupational:	
Superficial injuries (abrasions, blisters, insect bites, scratches)	103
Lacerations	123
Contusions	44
Strains and sprains	47
Foreign body	20
Burns (thermal, chemical and radiant)	90
Fractures	17
Head injury	25
Poisonings by other gases and vapors	2
Miscellaneous	2
Total	473
TOTAL DIAGNOSES OF INJURY	<u>660</u>

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<u>ILLNESSES</u>	<u>No. of Diagnoses</u>
Non-occupational:	
Respiratory	785
Digestive	221
Circulatory	106
Diseases of blood and blood forming organs	8
Genito-urinary	81
Bones and joints	174
Diseases of skin	139
Dermatitis	13
Diseases of eye	166
Diseases of ear	44
Allergic, endocrine, and metabolic diseases	66
Diseases of thyroid gland	95
Infectious diseases	99
Psychoneurotic disorders	12
Common benign tumors	8
Symptoms and ill-defined conditions	134
Total	2151
Occupational:	
Dermatitis:	
Due to other chemicals	4
Other causes	1
Total	5
TOTAL DIAGNOSES OF ILLNESS	2156
No abnormal findings	31
Absence for general medical examinations	1
Skin immunity and sensitization tests	1
Prophylactic inoculation and vaccination	11
Follow-up examination for tuberculosis, not needing further medical care	2
Of inactive pulmonary tuberculosis not known to have been active	1
Follow-up examination after operation, injury or disease, other than tuberculosis	39

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	<u>No. of Diagnoses</u>
Normal pregnancy	4
Medical and surgical aftercare	51
Other chronic diseases in mother	1
Immunizations	445
Loss due to other and unspecified accidents	1
Congenital malformations	18
Operations as cause of absence	20
Complications of pregnancy	1
Neoplasms	11
Total	638
TOTAL DIAGNOSES	3454
Special services <u>not</u> involving diagnoses	1621
GRAND TOTAL	<u>5075</u>

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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	120	337
Digestive	43	55
Circulatory	4	31
Disease of blood and blood forming organ	1	8
Genito-urinary	31	45
Bones and joints	8	42
Diseases of skin	5	4
Diseases of eye	1	1
Allergic, endocrine and metabolic	3	15
Infectious diseases	5	37
Psychoneurotic disorders	2	7
Symptoms and ill-defined conditions	12	32
<u>INJURIES:</u>		
Superficial injuries (abrasions, blisters, insect bites, scratches)	1	6
Contusions	3	1
Strains and sprains	2	61
Burns (thermal, chemical and radiant)	1	84
Fractures	1	0
Head injury	1	2
Absence for general medical examination	1	8
Follow-up examination after operation, injury or disease other than tuberculosis	2	15
Medical and surgical aftercare	1	29
Other chronic disease in mother	1	14
Operations as cause of absences	11	81
Complications of pregnancy	1	12
Neoplasms	1	1
TOTAL	262	928

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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	3323	3032	1.1
<u>SEX</u>			
Male	2740	2515	1.1
Female	583	517	1.1
<u>OCCUPATION</u>			
Life scientist	58	62	.9
Physical scientist	522	519	1.0
Engineer	366	434	.8
Technical assistant	544	420	1.3
Administrative and managerial	170	154	1.1
Clerical	367	360	1.0
Laborer	115	117	1.0
Maintenance	48	57	.8
Protective	266	167	1.6
Craftsman	697	602	1.2
Chemical operator	118	86	1.4
Equipment operator	52	54	1.0
<u>RACE</u>			
White	3152	2865	1.1
Colored	168	165	1.0
Oriental	3	2	1.5
<u>MARITAL STATUS</u>			
Married	2660	2442	1.1
Single	581	528	1.1
Widowed	48	37	1.3
Divorced	34	25	1.4
<u>HEALTH STATUS*</u>			
H-1	605	590	1.0
H-2	2424	2202	1.1
H-3	279	230	1.2
H-4	1	1	1.0
H-5	14	9	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.

H-4 Physically unqualified for position applied for.

H-5 Temporary employees, who are not given a complete physical examination.

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<u>DIVISION</u>	<u>No. of Visits</u>	<u>No. of Employees</u>	<u>Average</u>
Operations	105	94	1.1
Physics	123	93	1.3
Chemistry	130	112	1.2
Reactor Experimental Engineering	87	88	1.0
Biology	137	112	1.2
Metallurgy	142	136	1.0
Reactor Projects		0	
Education Relations and Training	85	67	1.3
Health Physics	130	110	1.2
Engineering and Maintenance	1078	956	1.1
Industrial Relations	179	155	1.2
Health	24	25	1.0
General Office	102	147	.7
Laboratory Protection	271	181	1.5
Directors	62	39	1.6
Analytical Chemistry	175	174	1.0
Math Panel	12	24	.5
Chemical Technology	125	136	.9
Information and Reports	62	71	.9
Materials Chemistry	67	59	1.1
Research Director	64	73	.9
Electromagnetic Research	29	50	.6
Isotope Research and Production	41	62	.7
ANP	89	66	1.3
Assistant Research Director	4	2	2.0
<u>AGE GROUP</u>			
18 to 19 years	20	14	1.4
20 to 29 years	1113	990	1.1
30 to 39 years	1370	1240	1.1
40 to 49 years	583	576	1.0
50 to 59 years	208	190	1.1
60 to 69 years	29	22	1.3
<u>SHIFT</u>			
Straight days	2845	2708	1.1
Rotating shifts	435	288	1.5
Straight shift	43	36	1.2
<u>PAYROLL</u>			
Hourly	1253	1057	1.2
Weekly	976	817	1.2
Monthly	1094	1158	.9

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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	926	63672	1.5
<u>SEX</u>			
Male	556	52815	1.1
Female	370	10857	3.4
<u>OCCUPATION</u>			
Life scientist	18	1302	1.4
Physical scientist	68	10899	.6
Engineer	104	9114	1.1
Technical assistant	227	8820	2.6
Administrative and managerial personnel	49	3234	1.5
Clerical personnel	185	7560	2.4
Laborer	12	2457	.5
Maintenance personnel	20	1197	1.7
Protective personnel	7	3507	.2
Craftsman	188	12642	1.5
Chemical operator	27	1806	1.5
Equipment operator	21	1134	1.9
<u>RACE</u>			
White	896	60165	1.5
Colored	30	3465	.9
Oriental		42	
<u>MARITAL STATUS</u>			
Married	736	51282	1.4
Single	148	11088	1.3
Widowed	15	777	1.9
Divorced	27	525	5.1
<u>HEALTH STATUS*</u>			
H-1	162	12390	1.3
H-2	580	46242	1.3
H-3	181	4830	3.7
H-4		21	
H-5	3	189	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.

H-4 Physically unqualified for position applied for.

H-5 Temporary employees who are not given complete physical examinations.

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	<u>Days Lost</u>	<u>Scheduled Days</u>	<u>Percent Time Lost</u>
<u>DIVISION</u>			
Operations	27	1974	1.4
Physics	8	1953	.4
Chemistry	16	2352	.7
Reactor Experimental Engineering	9	1848	.5
Biology	32	2352	1.4
Metallurgy	27	2856	.9
Reactor Projects			
Education Relations and Training	1	1407	.1
Health Physics	28	2310	1.2
Engineering and Maintenance	308	20076	1.5
Industrial Relations	42	3255	1.3
Health	14	525	2.7
General Office	69	3087	2.2
Laboratory Protection	7	3801	.2
Directors	3	819	.4
Analytical Chemistry	92	3654	2.5
Math Panel	6	504	1.2
Chemical Technology	20	2856	.7
Information and Reports	46	1491	3.1
Materials Chemistry	5	1239	.4
Research Director	19	1533	1.2
Electromagnetic Research	98	1050	9.3
Isotope Research and Production	3	1302	.2
ANP	46	1386	3.3
Assistant Research Director		42	
<u>AGE GROUP</u>			
18 to 19 years	3	294	1.0
20 to 29 years	224	20790	1.1
30 to 39 years	369	26040	1.4
40 to 49 years	254	12096	2.1
50 to 59 years	76	3990	1.9
60 to 69 years		462	
<u>SHIFT</u>			
Straight days	852	56868	1.5
Rotating shifts	58	6048	1.0
Straight shifts	16	756	2.1
<u>PAYROLL</u>			
Hourly	274	22197	1.2
Weekly	455	17157	2.7
Monthly	197	24318	.8

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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	240	3032	7.9
<u>SEX</u>			
Male	136	2515	5.4
Female	104	517	2.0
<u>OCCUPATION</u>			
Life scientist	3	62	4.8
Physical scientist	21	519	4.0
Engineer	31	434	7.1
Technical assistant	60	420	14.3
Administrative and managerial	10	154	6.5
Clerical personnel	62	360	17.2
Laborer	5	117	4.3
Maintenance personnel	3	57	5.3
Protective personnel	7	167	4.2
Craftsman	29	602	4.8
Chemical operator	5	86	5.8
Equipment operator	4	54	7.4
<u>RACE</u>			
White	233	2865	8.1
Colored	7	165	4.2
Oriental		2	
<u>MARITAL STATUS</u>			
Married	175	2442	7.2
Single	57	528	10.8
Widowed	3	37	8.1
Divorced	5	25	20.0
<u>HEALTH STATUS*</u>			
H-1	36	590	6.1
H-2	178	2202	8.1
H-3	25	230	10.9
H-4		1	
H-5	1	9	11.1

\*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-4 Physically unqualified for position applied for.

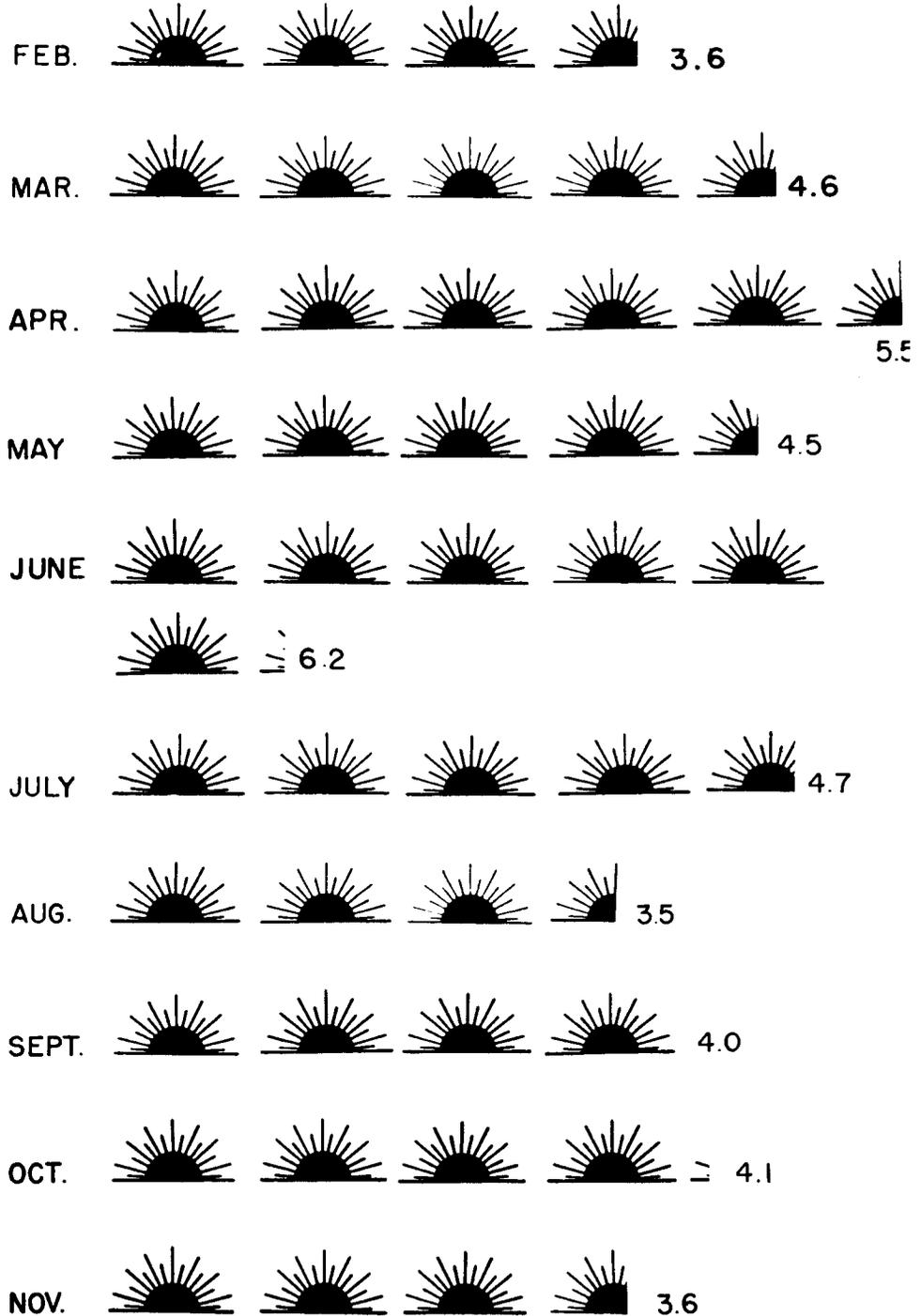
H-5 Temporary employees who are not given complete physical examinations.

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<u>DIVISION</u>	<u>Absentees</u>	<u>No. of Employees</u>	<u>Percent Absentees</u>
Operations	5	94	5.3
Physics	5	93	5.4
Chemistry	5	112	4.5
Reactor Experimental Engineering	5	88	5.7
Biology	6	112	5.4
Metallurgy	12	136	8.8
Reactor Projects			
Education Relations and Training	2	67	3.0
Health Physics	17	110	15.5
Engineering and Maintenance	63	956	6.6
Industrial Relations	13	155	8.4
Health	2	25	8.0
General Office	15	147	10.2
Laboratory Protection	7	181	3.9
Directors	3	39	7.7
Analytical Chemistry	32	174	18.4
Math Panel	2	24	8.3
Chemical Technology	9	136	6.6
Information and Reports	9	71	12.7
Materials Chemistry	5	59	8.5
Research Director	11	73	15.1
Electromagnetic R search	5	50	10.0
Isotope Research and Production	2	62	3.2
ANP	5	66	7.6
Assistant Research Directors		2	
<u>AGE GROUP</u>			
18-19 years	2	14	14.3
20-29 years	101	990	10.2
30-39 years	96	1240	7.7
40-49 years	34	576	5.9
50-59 years	7	190	3.7
60-69 years		22	
<u>SHIFT</u>			
Straight days	221	2708	8.2
Rotating shifts	17	288	5.9
Straight shifts	2	36	5.6
<u>PAYROLL</u>			
Hourly	52	1057	4.9
Weekly	134	817	16.4
Monthly	54	1158	4.7

# SEVERITY RATE Days Lost Per Absence

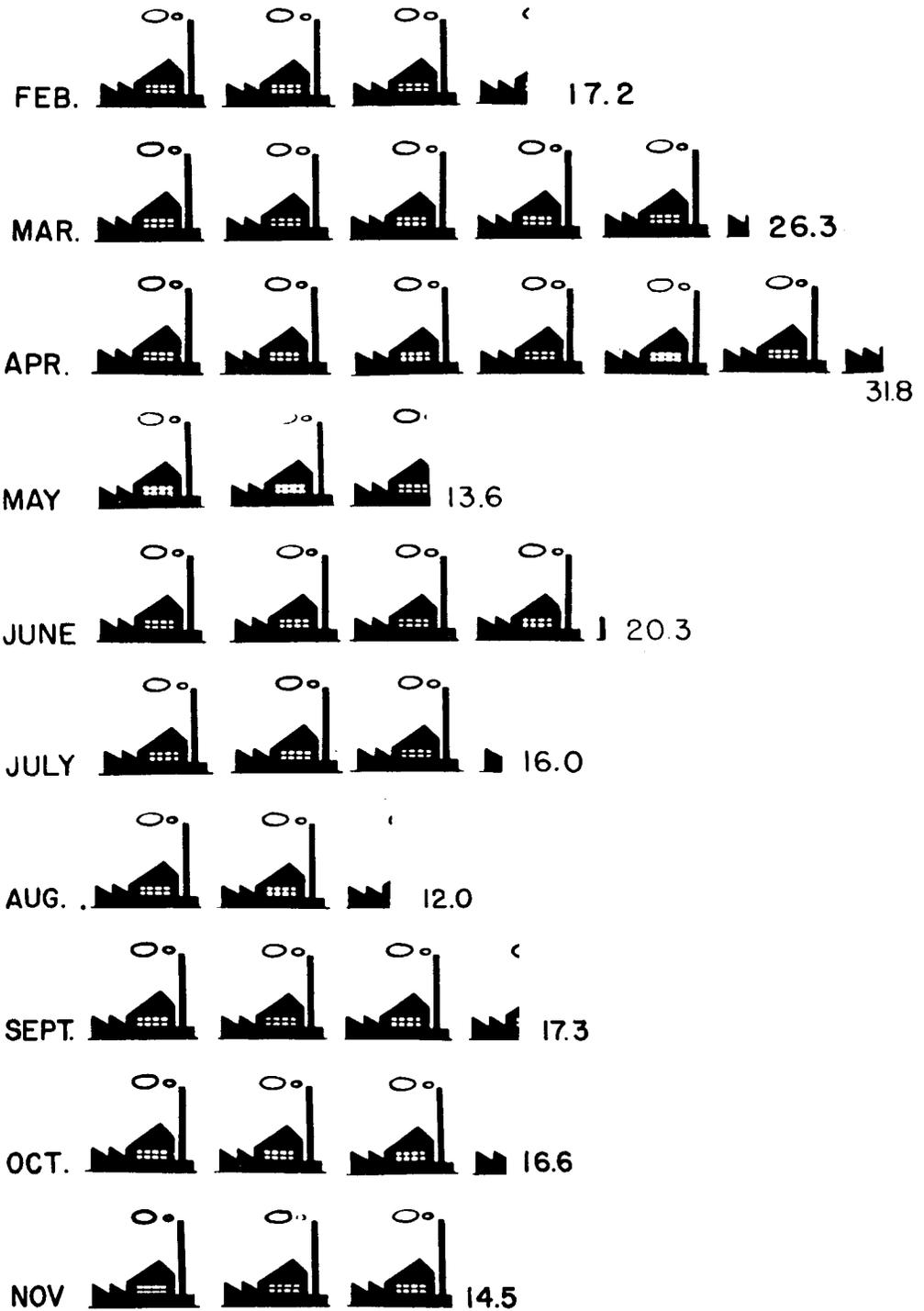
EACH SYMBOL REPRESENTS 1 DAY



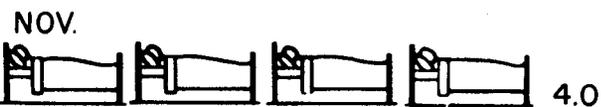
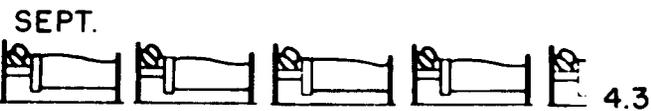
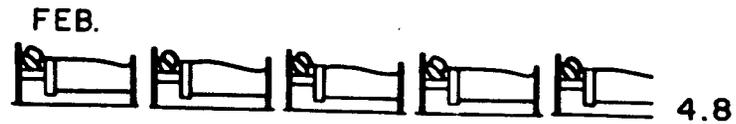
# DISABILITY RATE

## Days Lost Per 1,000 Days Scheduled

EACH SYMBOL REPRESENTS 5 DAYS



# FREQUENCY RATE Illness Absences Per 1,000 Days Scheduled



# PERCENT OF EMPLOYEES VISITING DISPENSARY

EACH SYMBOL REPRESENTS 10%

