

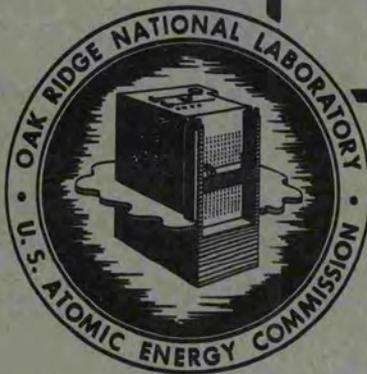
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ORNL 927
Progress Report
4a

HEALTH DIVISION
REPORT FOR THE MONTH
ENDING NOVEMBER 30, 1950



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Report Number ORNL-927

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This document consists of
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HEALTH DIVISION

REPORT FOR THE MONTH ENDING NOVEMBER 30, 1950

J. S. Felton, M.D.

Date Issued

MAY 18 1951

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OAK RIDGE NATIONAL LABORATORY
operated by
CARBIDE AND CARBON CHEMICALS COMPANY
A Division of Union Carbide and Carbon Corporation
Post Office Box P
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DISTRIBUTION OF EFFORT FOR THE MONTH OF NOVEMBER 1950

<u>Personnel</u>	<u>Monthly</u>	<u>Weekly</u>	<u>Hourly</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	7	0
Custodial Personnel	0	0	3
	<u>5</u>	<u>16</u>	<u>3</u>

Number of technical personnel added: 1
Number of technical personnel terminated : 0

ALLOCATION OF TIME

<u>Physicians</u>			
Administrative	1/3	0	0
Physical Examination	1/3	0	0
Dispensary Service	2	0	0
Health Education	1/3		
<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	7	0
<u>Custodial Personnel</u>	0	0	3
	<u>5</u>	<u>16</u>	<u>3</u>

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STATISTICAL SUMMARY

Severity Rate 4.5 days lost per illness absence
Disability Rate 16.6 days lost per 1000 days scheduled
Frequency Rate 3.7 illness absences per 1000 days scheduled

Number of Patients

Employee 1340
Non-employee 172
Total 1522

Number of Visits

Employee 2997
Non-employee
 A.E.C. 1
 Bechtel Corp. 2
 Foster-Wheeler Corp. 7
 J. A. Jones Const Co. 137
 Other 50
Total 197
Total all visits 3194

Number of Procedures 4462
Number of Employees at the Laboratory 2699
Percent of Employees Visiting Dispensary 49.6
Number of Illness Absences per Employee 0.1
Number of Visits per Employee 1.1

Ratio of Occupational to Non-occupational Procedures 1 : 0.7
Ratio of Non-occupational to Occupational Injuries, first visit .. 1 : 2.5
Ratio of Non-occupational to Occupational Injuries, all visits ... 1 : 3.9
Ratio of Occupational to Non-occupational Illnesses, first visit . *
Ratio of Occupational to Non-occupational Illnesses, all visits .. 1 : 1062
Ratio of Occupational to Non-occupational Absences 1 : 38
Ratio of Occupational to Non-occupational Days Lost 1 : 51.2

*Ratio is not given since there were no first visits for occupational illnesses during the month of November 1950.

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PROCEDURES ACCOMPLISHED FOR THE MONTH OF NOVEMBER 1950

	<u>No. of Procedures</u>
Non-occupational injury	73
" " , revisit	83
Non-occupational illness	747
" " , revisit	315
Occupational injury or exposure, chemical	8
" " " " , " , revisit	28
Occupational injury or exposure, chemical, a.o.q.*	4
" " " " , " , " , revisit	1
Occupational injury or exposure, n.o.c.**	171
" " " " , " , revisit	386
Occupational injury or exposure, n.o.c.**, a.o.q.*	2
" " " " , " , " , revisit	6
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	1
Absence due to illness or injury, non-occupational	228
" " " " " " , occupational	6
Physical examination, industrial hygiene	48
Physical examination, pre-placement	60
Physical examination, rehire	11
Physical examination, periodic health	27
Physical examination, food handler	5
Physical examination, other	17
Physical examination, termination	148
Physical examination, job transfer	2
Audiogram	230
Blood donation	10
Clinical laboratory procedure [†]	543
Electrocardiogram	118
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	33	
Spectacles ordered, prescription	24	
Spectacles issued, prescription	41	
Orthorater examination	101	
Orthorater examination, field	0	
Partial replacement	17	
Adjustment or repair	20	
Advisory service	10	
Total		246
X-ray examination:		
X-ray examination, non-occupational condition	13	
X-ray examination, occupational condition	292	
Total		305
Special study interview		0
Psychodiagnostic test		0
Consultation, non-occupational condition		174
Consultation, occupational condition		4
Consultation without patient, non-occupational		106
Consultation without patient, occupational		2
Home visit		0
Pre-marital serodiagnostic test		3
Immunization		333
Diagnostic procedure for an outside physician		11
GRAND TOTAL		4462

†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 Culture	1
Bacteriological Smear	4
Basal Metabolism	2
Bleeding Time	1
Blood Glucose	25
Clotting Time	1
Complete Blood Count	391
Feces - Bacteriological	3
Feces - Parasitological	10
Kahn - Presumptive	110
Kahn - Titer	2
Kahn - Standard	2
Red Blood Count and Hemaglobin	12
Reticulocyte Count	1
Rh Factor	61
Sedimentation Rate	30
Typing - Blood	61
Urinalysis	463
Vital Capacity	7
White Blood Count and Differential	20
Miscellaneous	2
Total	1209

DISPOSITION FOLLOWING DISPENSARY VISITS

Return to regular work	3289
Return to modified or part-time work	409
Remain off work	610
Granted leave	0
Died in plant	0
Rejected	0
Accepted conditionally	0
Accepted	72
Sent to hospital or physician's office	82
AGGREGATE	4462

ATTENDANT

First Aid Attendant	6
First Aid Attendant and Nurse	7
First Aid Attendant, Nurse and Doctor	1
Nurse	2004
Nurse and Doctor	202
Doctor	781
Doctor and First Aid Attendant	1
Technician	1460
Psychologist	0
AGGREGATE	4462

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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	25	0
1 day	95	95
2 days	37	74
3 days	12	36
4 days	9	36
5 days	10	50
6 days	5	30
7 days	5	35
8 days	2	16
9 days	6	54
10 days	2	20
11 days	3	33
13 days	3	39
15 days	2	30
16 days	4	64
18 days	2	36
19 days	2	38
20 days	3	60
21 days	1	21
23 days	2	46
26 days	1	26
32 days	1	32
33 days	1	33
35 days	1	35
	234	939

NUMBER OF PROCEDURES BY GENERAL DIAGNOSIS GROUPS

	<u>Number of Procedures</u>	
Illnesses:		
Allergy	21	
Blood abnormality	3	
Cardio-vascular disease	42	
Dental disorder	38	
Dermatitis	51	
Endocrine disorder	62	
Eye and ear disorder	83	
Gastro-intestinal disease	142	
Genito-urinary disease	31	
Hernia	11	
Infections and parasitic disease	90	
Menstrual disorder	27	
Nervous and mental state, neurologic disorder	24	
New growth	44	
Orthopedic disorder	148	
Pain and headache	84	
Respiratory disease	597	
Tuberculosis	3	
Miscellaneous	38	
Aggregate		1539
Injuries:		
Injuries	780	
Injuries, potential	0	
Aggregate		780
Operative procedure		48
Total		2367
Special services not involving diagnosis		2095
GRAND TOTAL		4462

ABSENCES AND TIME LOST BY GENERAL DIAGNOSIS GROUPS

	<u>No. of Absences</u>	<u>Days Lost</u>
Illnesses:		
Allergy	2	3
Blood abnormality	0	0
Cardio-vascular disease	2	30
Dental disorder	2	3
Dermatitis	1	1
Endocrine disorder	0	0
Eye and ear disorder	0	0
Gastro-intestinal disease	38	158
Genito-urinary disease	10	66
Hernia	0	0
Infections and parasitic disease	2	19
Menstrual disease	15	14
Nervous and mental state, neurologic disorder	5	61
New growth	1	2
Orthopedic disorder	4	3
Pain and headache	12	12
Respiratory disease	107	408
Tuberculosis	0	0
Miscellaneous	3	2
Injuries:		
Injuries, non-occupational	18	49
Injuries, occupational	0	0
Operative procedures	12	108
Total	234	939

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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	2997	2699	1.1
<u>SEX</u>			
Female	422	442	1.0
Male	2575	2257	1.1
<u>OCCUPATION</u>			
Life scientist	21	52	0.4
Physical scientist	400	499	0.8
Engineer	184	308	0.6
Technical assistant	275	252	1.1
Administrative and managerial personnel	181	152	1.2
Clerical personnel	327	372	0.9
Laborer	273	161	1.7
Maintenance personnel	112	102	1.1
Protective personnel	167	153	1.1
Craftsman	872	519	1.7
Chemical operator	120	57	2.1
Equipment operator	65	72	0.9
<u>RACE</u>			
Colored	241	165	1.5
White	2756	2534	1.1
<u>MARITAL STATUS</u>			
Married	2528	2193	1.2
Single	396	447	0.9
Divorced	38	33	1.2
Widowed	35	26	1.3
<u>HEALTH STATUS*</u>			
H-1	577	563	1.0
H-2	2097	1852	1.1
H-3	323	284	1.1

*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.

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	<u>No. of Visits</u>	<u>No. of Employees</u>	<u>Average</u>
<u>DIVISION</u>			
Operations	99	84	1.2
Physics	90	88	1.0
Chemistry	163	206	0.8
Reactor Technology	124	137	0.9
Biology	55	106	0.5
Metallurgy	76	68	1.1
Training Program	31	31	1.0
Graduate Training Program	0	0	
Health Physics	151	114	1.3
Engineering and Maintenance	1343	963	1.4
Industrial Relations	221	189	1.2
Health	13	23	0.6
General Office	118	137	0.9
Security	177	150	1.2
Directors	64	61	1.0
Wage Standards	2	3	0.7
Mathematics Panel	10	18	0.6
Chemical Technology	94	92	1.0
Analytical Chemistry - Y-12	21	30	0.7
Materials Chemistry	33	43	0.8
Electromagnetic Research	33	55	0.6
Isotope Research and Production	60	88	0.7
ANP	19	13	1.5
<u>AGE GROUP</u>			
18 to 19 years	4	4	1.0
20 to 29 years	910	915	1.0
30 to 39 years	1163	1077	1.1
40 to 49 years	617	494	1.2
50 to 59 years	284	187	1.5
60 to 65 years	19	22	0.9
<u>SHIFT</u>			
Straight days	2534	2367	1.1
Rotating shifts	416	297	1.4
Straight shift	47	35	1.3
<u>PAYROLL</u>			
Hourly	1581	1050	1.5
Weekly	639	654	1.0
Monthly	777	995	0.8

TIME LOST BY PERSONAL, OCCUPATIONAL AND GROUP CHARACTERISTICS

	<u>Days Lost</u>	<u>Scheduled Days</u>	<u>Percent Time Lost</u>
TOTAL	939	56679	1.7
<u>SEX</u>			
Female	259	9282	2.8
Male	680	47397	1.4
<u>OCCUPATION</u>			
Life scientist	25	1092	2.3
Physical scientist	137	10479	1.3
Engineer	68	6468	1.1
Technical assistant	245	5292	4.6
Administrative and managerial personnel	29	3192	0.9
Clerical personnel	169	7812	2.2
Laborer	15	3381	0.4
Maintenance personnel	82	2142	3.8
Protective personnel	46	3213	1.4
Craftsman	94	10899	0.9
Chemical operator	12	1197	1.0
Equipment operator	17	1512	1.1
<u>RACE</u>			
Colored	88	3465	2.5
White	851	53214	1.6
<u>MARITAL STATUS</u>			
Married	742	46053	1.6
Single	190	9387	2.0
Divorced	6	693	0.9
Widowed	1	546	0.2
<u>HEALTH STATUS*</u>			
H-1	82	11823	0.7
H-2	704	38892	1.8
H-3	153	5964	2.6

*H-1 Physically qualified for any position.
H-2 Physically qualified for any position, but has minor defects.
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<u>DIVISION</u>	<u>Days Lost</u>	<u>Scheduled Days</u>	<u>Percent Time Lost</u>
Operations	7	1764	0.4
Physics	25	1848	1.4
Chemistry	56	4326	1.3
Reactor Technology	29	2877	1.0
Biology	82	2226	3.7
Metallurgy	26	1428	1.8
Training Program	4	651	0.6
Graduate Training Program	0	0	
Health Physics	73	2394	3.0
Engineering and Maintenance	175	20223	0.9
Industrial Relations	76	3969	1.9
Health	8	483	1.7
General Office	72	2877	2.5
Security	54	3150	1.7
Directors	36	1281	2.8
Wage Standards	0	63	0.0
Mathematics Panel	5	378	1.3
Chemical Technology	47	1932	2.4
Analytical Chemistry - Y-12	9	630	1.4
Materials Chemistry	5	903	0.6
Electromagnetic Research	68	1155	5.9
Isotope Research and Production	80	1848	4.3
ANP	2	273	0.7
<u>AGE GROUP</u>			
18 to 19 years	0	84	0.0
20 to 29 years	391	19215	2.0
30 to 39 years	308	22617	1.4
40 to 49 years	160	10374	1.5
50 to 59 years	77	3927	2.0
60 to 65 years	3	462	0.6
<u>SHIFT</u>			
Straight days	798	49707	1.6
Rotating shifts	123	6237	2.0
Straight shift	18	735	2.4
<u>PAYROLL</u>			
Hourly	281	22050	1.3
Weekly	356	13734	2.6
Monthly	302	20895	1.4

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

	<u>Absentees</u>	<u>No. of Employees</u>	<u>Percent Absentees</u>
TOTAL	210	2699	7.8
<u>SEX</u>			
Female	79	442	17.9
Male	131	2257	5.8
<u>OCCUPATION</u>			
Life scientist	2	52	3.8
Physical scientist	38	499	8.6
Engineer	11	308	3.6
Technical assistant	40	252	15.9
Administrative and managerial personnel	6	152	3.9
Clerical personnel	57	372	15.3
Laborer	6	161	3.7
Maintenance personnel	8	102	7.8
Protective personnel	11	153	7.2
Craftsman	23	519	4.4
Chemical operator	4	57	7.0
Equipment operator	4	72	5.6
<u>RACE</u>			
Colored	10	165	6.1
White	200	2534	7.9
<u>MARITAL STATUS</u>			
Married	150	2193	6.8
Single	54	447	12.1
Divorced	5	33	15.2
Widowed	1	26	3.8
<u>HEALTH STATUS*</u>			
H-1	25	563	4.4
H-2	157	1852	8.5
H-3	28	284	9.9

*H-1 Physically qualified for any position.

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

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	<u>Absentees</u>	<u>No. of Employees</u>	<u>Percent Absentees</u>
<u>DIVISION</u>			
Operations	5	84	6.0
Physics	6	88	6.8
Chemistry	22	206	10.7
Reactor Technology	14	137	10.2
Biology	5	106	4.7
Metallurgy	8	68	11.8
Training Program	2	31	6.5
Graduate Training Program	0	0	.
Health Physics	18	114	15.8
Engineering and Maintenance	44	963	4.6
Industrial Relations	17	189	9.0
Health	2	23	8.7
General Office	12	137	8.8
Security	18	150	12.0
Directors	7	61	11.5
Wage Standards	0	3	0.0
Mathematics Panel	1	18	5.6
Chemical Technology	10	92	10.9
Analytical Chemistry - Y-12	1	30	3.3
Materials Chemistry	2	43	4.7
Electromagnetic Research	3	55	5.5
Isotope Research and Production	12	88	13.6
ANP	1	13	7.7
<u>AGE GROUP</u>			
18 to 19 years	0	4	0.0
20 to 29 years	102	915	11.1
30 to 39 years	67	1077	6.2
40 to 49 years	31	494	6.3
50 to 59 years	9	187	4.8
60 to 65 years	1	22	4.5
<u>SHIFT</u>			
Straight days	180	2367	7.6
Rotating shifts	28	297	9.4
Straight shift	2	35	5.7
<u>PAYROLL</u>			
Hourly	54	1050	5.1
Weekly	101	654	15.4
Monthly	55	995	5.5

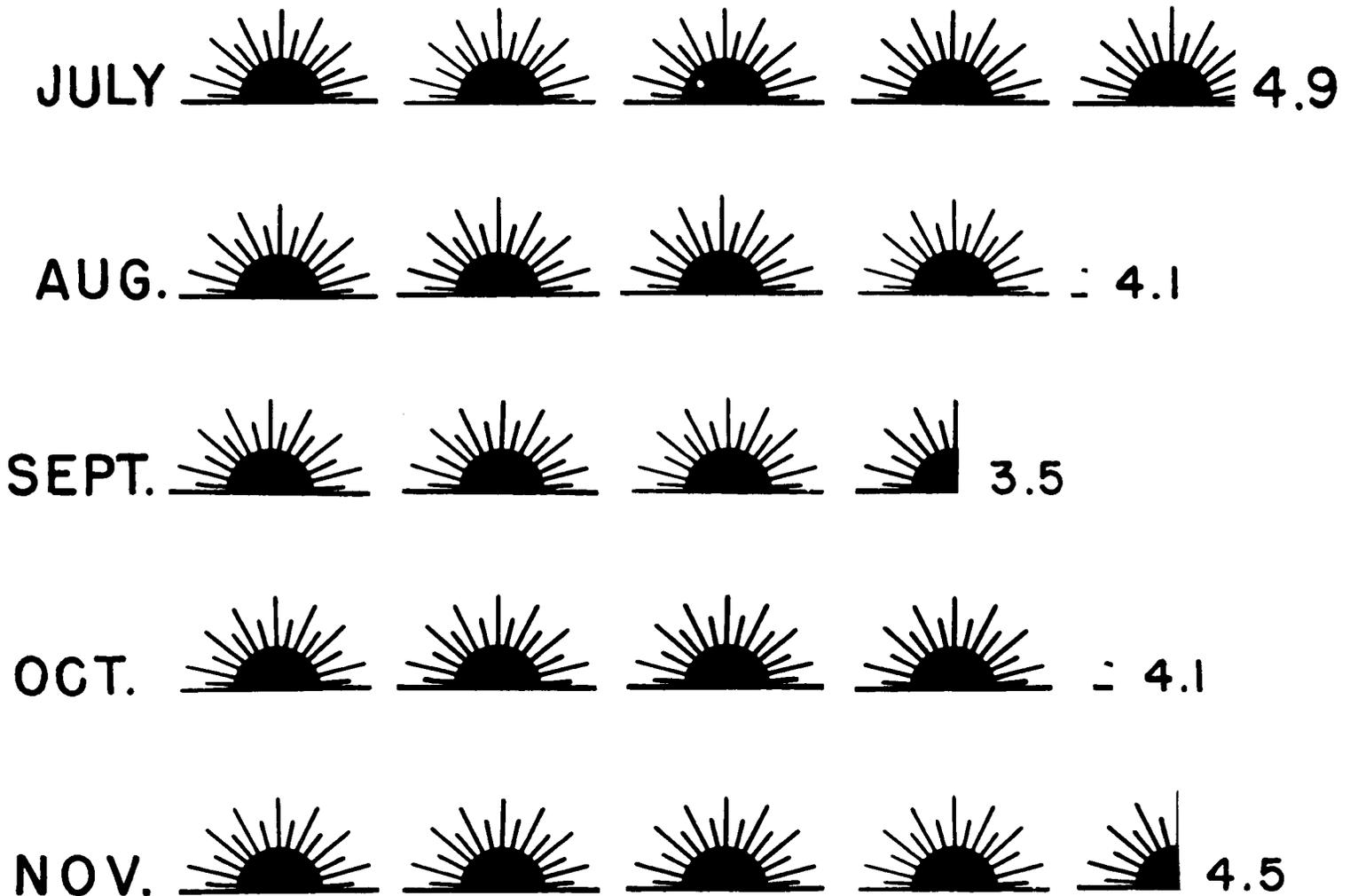
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SEVERITY RATE

Days Lost Per Absence

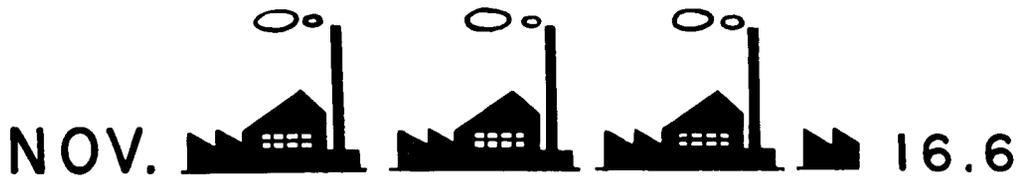
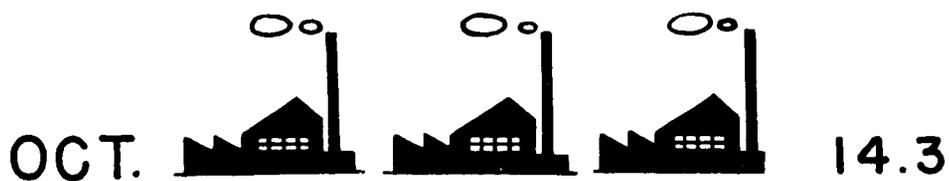
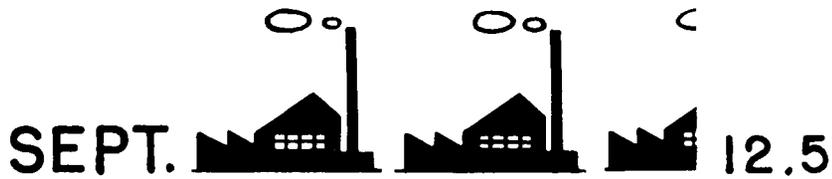
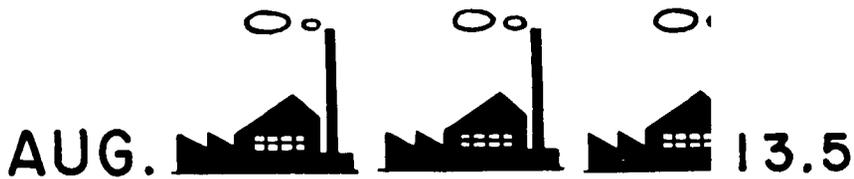
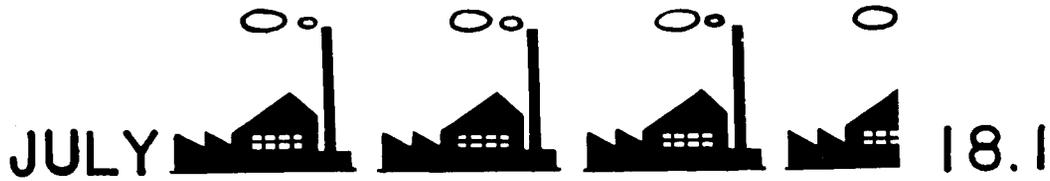
EACH SYMBOL REPRESENTS 1 DAY



DISABILITY RATE

Days Lost Per 1,000 Days Scheduled

EACH SYMBOL REPRESENTS 5%



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FREQUENCY RATE

Illness Absences Per 1,000 Days Scheduled

EACH SYMBOL REPRESENTS 1 DAY

JULY



AUG.



SEPT.



OCT.



NOV.



PERCENT OF EMPLOYEES VISITING DISPENSARY

EACH SYMBOL REPRESENTS 10%

