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HEALTH DIVISION

REPORT FOR THE MONTH ENDING

JULY 31, 1949

OAK RIDGE NATIONAL LABORATORY

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OAK RIDGE NATIONAL LABORATORY

OPERATED BY

CARBIDE AND CARBON CHEMICALS CORPORATION

FOR THE

ATOMIC ENERGY COMMISSION

OAK RIDGE, TENNESSEE

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HEALTH DIVISION

REPORT FOR THE MONTH ENDING JULY 31, 1949

J. S. Felton, M. D.

DATE ISSUED

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O A K R I D G E N A T I O N A L L A B O R A T O R Y

Operated by

Carbide and Carbon Chemicals Corporation

for the
Atomic Energy Commission
Post Office Box P
Oak Ridge, Tennessee

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DISTRIBUTION OF EFFORT FOR THE MONTH OF JULY 1949

	<u>Monthly</u>	<u>Weekly</u>	<u>Hourly</u>
<u>Personnel</u>			
Physicisns	3	0	0
Industrial Hygiene Engineer	1	0	0
Artist-Illustrator	1	0	0
Nurses	1	5	0
Medical Technicians	0	2	0
Office Personnel	1	8	0
Custodial Personnel	0	0	2
	<u>7</u>	<u>15</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>Artist-Illustrator</u>	1	0	0
<u>Industrial Hygiene Engineer</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	1/2	0
Urinalysis	0	1/2	0
<u>Office Personnel</u>	1	8	0
<u>Custodial Personnel</u>	0	0	2
	<u>7</u>	<u>15</u>	<u>2</u>

PROCEDURES ACCOMPLISHED FOR THE MONTH OF JULY 1949

	<u>No. of Procedures</u>
Non-occupational injury	167
" " , revisit	140
Non-occupational illness	679
" " , revisit	400
Occupational injury or exposure, chemical	13
" " " " , revisit	18
Occupational injury or exposure, chemical, a.o.q.*	1
" " " " , " " , revisit	0
Occupational injury or exposure, n.o.c.**	98
" " " " , " , revisit	321
Occupational injury, n.o.c.**, a.o.q.*	0
" " , " , " , 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	0
Absence due to illness or injury, non-occupational	179
Absence due to illness or injury, occupational	1
Physical examination, industrial hygiene	88
Physical examination, pre-placement	22
Physical examination, rehire	4
Physical examination, periodic health	4
Physical examination, job transfer	0
Physical examination, termination	38
Physical examination, food handler	0
Physical examination, other	1
Audiogram	66
Blood donation	3
Clinical laboratory procedure †	267
Electrocardiogram	17
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 procedure:	
Spectacles issued, plano	50
Spectacles ordered, prescription	31
Spectacles issued, prescription	22
Orthorater examination	40
Orthorater examination, field	0
Partial replacement	23
Adjustment or repair	34
Advisory service	27
Total	227
X-ray examination:	
X-ray examination, non-occupational condition	25
X-ray examination, occupational condition	146
Total	171
Special study interview	0
Psychodiagnostic test	8
Consultation, non-occupational condition	102
Consultation, occupational condition	1
Consultation, without patient, non-occupational	10
Consultation, without patient, occupational	1
Home visit	0
Pre-marital serodiagnostic test	5
Immunization	240
Disgnostic procedure for an outside physician	9
GRAND TOTAL	3307

* 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:

Bacteriological smear	4
Basal Metabolism	4
Blood cholesterol	2
Blood glucose	3
Blood uric acid	1
Complete blood count	156
Feces - parasitological	1
Kahn	49
P.S.P.	1
Red blood count and hemaglobin	13
Rh factor	40
Sedimentation rate	11
Sputum	1
Typing - blood	40
Urinalysis	197
Vital capacity	5
White blood count and differential	31
Total	559

DISPOSITION FOLLOWING DISPENSARY VISITS

Return to regular work	2568
Return to modified or part-time work	449
Remain off work	198
Granted leave	3
Died in plant	1
New employee, rejected	
New employee, accepted conditionally	
New employee, accepted	26
Sent to hospital or physician's office	62
AGGREGATE	3307

PERSONNEL ATTENDING PATIENTS

First Aid Attendant	3
First Aid Attendant and Nurse	0
First Aid Attendant, Nurse and Doctor	0
Nurse	1689
Nurse and Doctor	205
Doctor	612
Doctor and First Aid Attendant	0
Technician	755
Psychologist	43
AGGREGATE	3307

TIME LOST DUE TO ILLNESS ABSENCE

	<u>No. of Absences</u>	<u>No. of Days Lost</u>
Less than 1 day	20	0
1 day	98	98
2 days	12	24
3 days	11	33
4 days	7	28
5 days	7	35
6 days	4	24
7 days	3	21
8 days	3	24
9 days	1	9
10 days	3	30
11 days	1	11
12 days	1	12
13 days	1	13
14 days	2	28
19 days	1	19
20 days	2	40
30 days	1	30
60 days	1	60
99 days	1	99
AGGREGATE	180	638

NUMBER OF PROCEDURES BY GENERAL DIAGNOSIS GROUPS

	<u>Number of Procedures</u>	
Illnesses:		
Allergy	90	
Blood abnormality	3	
Cardio-vascular disease	19	
Dental disorder	17	
Dermatitis	103	
Endocrine disorder	11	
Eye and ear disorder	49	
Gastro-intestinal disease	199	
Genito-urinary disease	29	
Hernia	2	
Infections and parasitic disease	132	
Menstrual disease	33	
Nervous and mental state, neurologic disorder	84	
New growth	44	
Orthopedic disorder	83	
Pain and headache	65	
Respiratory disease	263	
Tuberculosis	2	
Miscellaneous	108	
Aggregate		1336
Injuries:		
Injuries	755	
Injuries, potential	0	
Aggregate		755
Operative procedure		28
Total		2119
Special services not involving diagnosis		1188
GRAND TOTAL		3307

ABSENCES AND TIME LOST BY GENERAL DIAGNOSIS GROUPS

	<u>No. of Absences</u>	<u>Days Lost</u>
Illnesses:		
Allergy	4	10
Blood abnormality	0	0
Cardio-vascular disease	4	16
Dental disorder	4	1
Dermatitis	3	2
Endocrine disorder	0	0
Eye and ear disorder	3	5
Gastro-intestinal disease	62	96
Genito-urinary disease	7	8
Hernia	0	0
Infections and parasitic disease	4	31
Menstrual disease	10	10
Nervous and mental state, neurologic disorder	4	9
New growth	3	8
Orthopedic disorder	5	12
Pain and headache	2	2
Respiratory disease	33	75
Tuberculosis	1	99
Miscellaneous	3	19
Injuries:		
Injuries	16	93
Injuries, potential	0	0
Operative procedures	12	142
Total	180	638

NUMBER OF VISITS BY PERSONAL, OCCUPATIONAL AND GROUP CHARACTERISTICS

	<u>No. of Visits</u>	<u>No. of Employees</u>	<u>Average</u>
TOTAL	2658	2034	1.3
<u>SEX</u>			
Female	595	396	1.5
Male	2063	1638	1.3
<u>OCCUPATION</u>			
Life scientist	27	51	.5
Physical scientist	276	276	1.0
Engineer	192	189	1.0
Technical assistant	399	242	1.6
Administrative and managerial personnel	144	138	1.0
Clerical personnel	396	353	1.1
Laborer	140	70	2.0
Maintenance personnel	100	94	1.1
Protective personnel	179	159	1.1
Craftsman	569	334	1.7
Chemical operator	163	68	2.4
Equipment operator	73	60	1.2
<u>RACE</u>			
Colored	122	115	1.1
White	2536	1919	1.3
<u>MARITAL STATUS</u>			
Married	1992	1566	1.3
Single	591	423	1.4
Divorced	45	19	2.4
Widowed	30	26	1.2
<u>HEALTH STATUS*</u>			
H-1	605	525	1.2
H-2	1685	1263	1.3
H-3	368	246	1.5

*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>No. of Visits</u>	<u>No. of Employees</u>	<u>Average</u>
<u>DIVISION</u>			
Operations	93	75	1.2
Physics	77	76	1.0
Chemistry	287	209	1.4
Technical	311	182	1.7
Biology	68	97	0.7
Metallurgy	22	43	0.5
Training Program	26	32	0.8
Graduate Training Program	0	0	
Health Physics	189	112	1.7
Engineering, Maintenance & Construction	990	652	1.5
Personnel and Service	233	183	1.3
Health	9	23	0.4
General Office	124	136	0.9
Security	163	156	1.0
Directors	65	55	1.2
Wage Standards	1	3	0.3
<u>AGE GROUP</u>			
18 to 19 years	8	9	0.9
20 to 29 years	1126	778	1.4
30 to 39 years	890	746	1.2
40 to 49 years	429	349	1.2
50 to 59 years	168	134	1.3
60 to 65 years	37	18	2.1
<u>SHIFT</u>			
Straight days	2069	1725	1.2
Rotating shifts	541	280	1.9
Straight shift	48	29	1.7
<u>PAYROLL</u>			
Hourly	1213	777	1.6
Weekly	741	531	1.4
Monthly	704	726	1.0

TIME LOST BY PERSONAL, OCCUPATIONAL AND GROUP CHARACTERISTICS

	<u>Days Lost</u>	<u>Scheduled Days</u>	<u>Percent Time Lost</u>
TOTAL	637	40680	1.6
<u>SEX</u>			
Female	170	7920	2.1
Male	467	32760	1.4
<u>OCCUPATION</u>			
Life scientist	2	1020	0.2
Physical scientist	68	5520	1.2
Engineer	27	3780	0.7
Technical assistant	81	4840	1.7
Administrative and managerial personnel	25	2760	0.9
Clerical personnel	244	7060	3.5
Laborer	16	1400	1.1
Maintenance personnel	29	1880	1.5
Protective personnel	4	3180	0.1
Craftsman	112	6680	1.7
Chemical operator	4	1360	0.3
Equipment operator	25	1200	2.1
<u>RACE</u>			
Colored	38	2300	1.7
White	599	38380	1.6
<u>MARITAL STATUS</u>			
Married	438	31320	1.4
Single	161	8460	1.9
Divorced	28	380	7.4
Widowed	10	520	1.9
<u>HEALTH STATUS*</u>			
H-1	133	10500	1.3
H-2	338	25260	1.3
H-3	166	4920	3.4

*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.

	<u>Days Lost</u>	<u>Scheduled Days</u>	<u>Percent Time Lost</u>
<u>DIVISION</u>			
Operations	6	1500	0.4
Physics	32	1520	2.1
Chemistry	75	4180	1.8
Technical	54	3640	1.5
Biology	12	1940	0.6
Metallurgy	7	860	0.8
Training Program	0	640	0.0
Graduate Training Program	0	0	
Health Physics	36	2240	1.6
Engineering, Maintenance & Construction	192	13040	1.5
Personnel and Service	41	3660	1.1
Health	1	460	0.2
General Office	139	2720	5.1
Security	23	3120	0.7
Directors	19	1100	1.7
Wage Standards	0	60	0.0
<u>AGE GROUP</u>			
18 to 19 years	1	180	0.6
20 to 29 years	273	15560	1.8
30 to 39 years	259	14920	1.7
40 to 49 years	30	6980	0.4
50 to 59 years	64	2680	2.4
60 to 65 years	10	360	2.8
<u>SHIFT</u>			
Straight days	608	34500	1.8
Rotating shifts	26	5600	0.5
Straight shift	3	580	0.5
<u>PAYROLL</u>			
Hourly	218	15540	1.4
Weekly	289	10620	2.7
Monthly	130	14520	0.9

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	158	2034	7.8
<u>OCCUPATION</u>			
Life scientist	1	51	2.0
Physical scientist	8	276	2.9
Engineer	9	189	4.8
Technical assistant	41	242	16.9
Administrative and managerial personnel	7	138	5.1
Clerical personnel	54	353	15.3
Laborer	5	70	7.1
Maintenance personnel	6	94	6.4
Protective personnel	6	159	3.8
Craftsman	14	334	4.2
Chemical operator	3	68	4.4
Equipment operator	4	60	6.7
<u>RACE</u>			
Colored	8	115	7.0
White	150	1919	7.8
<u>MARITAL STATUS</u>			
Married	96	1566	6.1
Single	52	423	12.3
Divorced	8	19	42.1
Widowed	2	26	7.7
<u>HEALTH STATUS*</u>			
H-1	32	525	6.1
H-2	105	1263	8.3
H-3	21	246	8.5
<u>SEX</u>			
Female	74	396	18.7
Male	84	1638	5.1

*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.

	<u>Absentees</u>	<u>No. of Employees</u>	<u>Percent Absentees</u>
<u>DIVISION</u>			
Operations	3	75	4.0
Physics	7	76	9.2
Chemistry	29	209	13.9
Technical	19	182	10.4
Biology	1	97	1.0
Metallurgy	3	43	7.0
Training Program	0	32	0.0
Graduate Training Program	0	0	
Health Physics	13	112	11.6
Engineering, Maintenance & Construction	38	652	5.8
Personnel and Service	16	183	8.7
Health	1	23	4.3
General Office	10	136	7.4
Security	11	156	7.1
Directors	7	55	12.7
Wage Standards	0	3	0.0
<u>AGE GROUP</u>			
18 to 19 years	2	9	22.2
20 to 29 years	91	778	11.7
30 to 39 years	45	746	6.0
40 to 49 years	9	349	2.6
50 to 59 years	3	18	16.7
60 to 65 years	8	134	6.0
<u>SHIFT</u>			
Straight days	135	1725	7.8
Rotating shifts	21	280	7.5
Straight shift	2	29	6.9
<u>PAYROLL</u>			
Hourly	39	777	5.0
Weekly	90	531	16.9
Monthly	29	726	4.0

STATISTICAL SUMMARY

Severity Rate-----3.6 days lost per absence
Disability Rate-----10.7 days lost per 1000 days scheduled
Frequency Rate-----4.4 absences per 1000 days scheduled

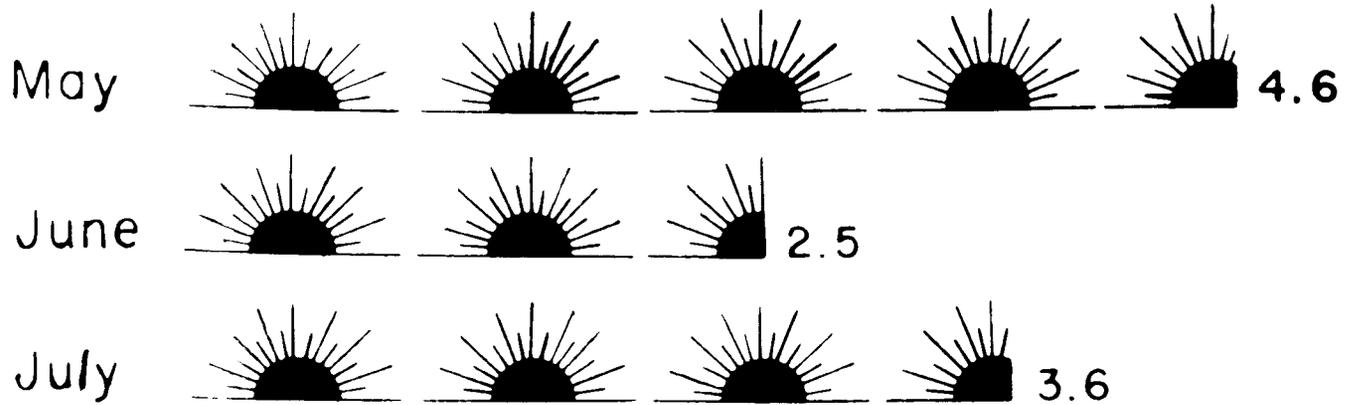
Number of Patients-----1165
Number of Visits-----2773
Number of Procedures-----3307

Number of Employees at Laboratory-2034

Percent of Employees Visiting Dispensary----57.3
Number of Visits per Employee-----1.4
Number of Illness Absences per Employee-----0.1

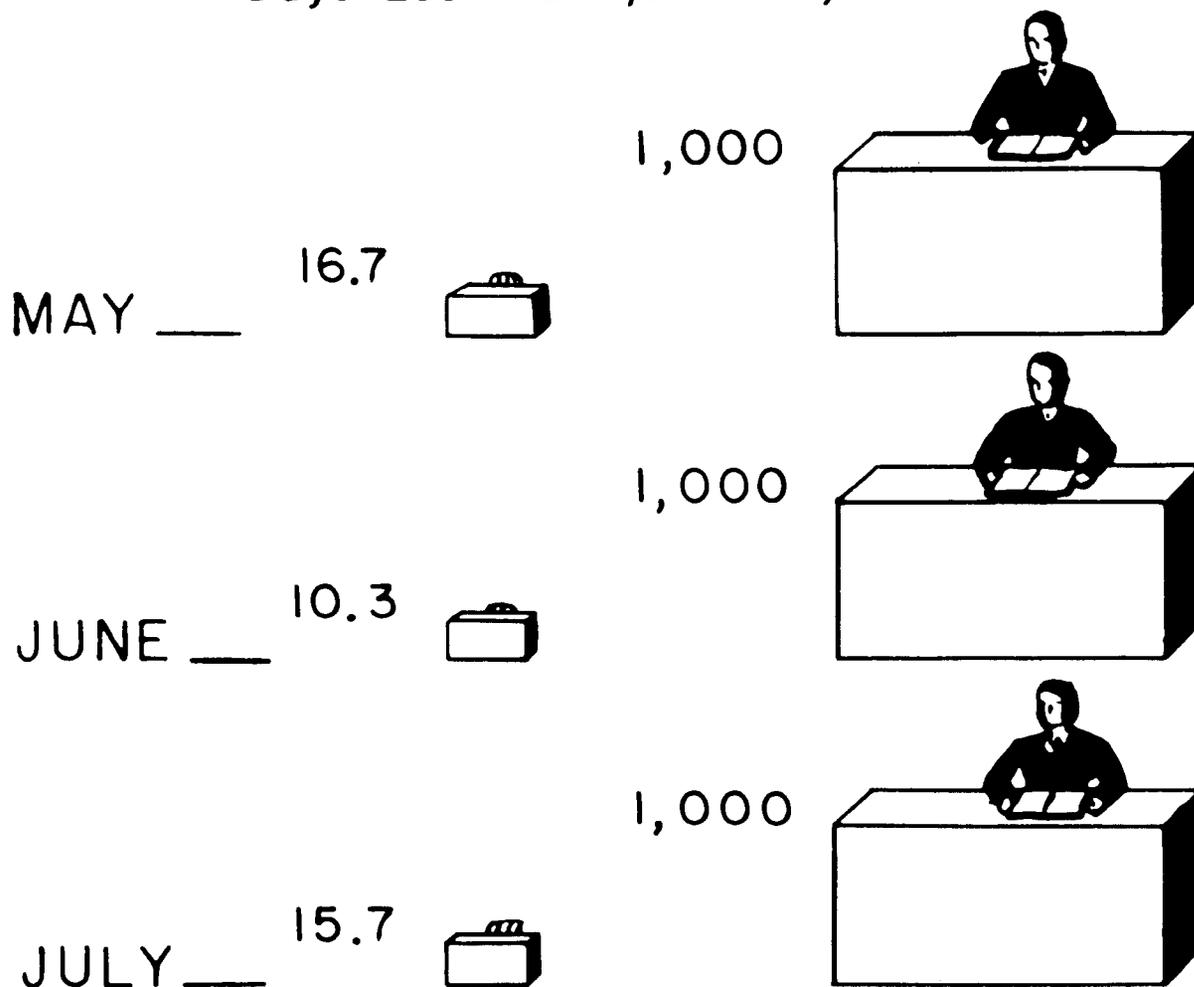
SEVERITY RATE

Days Lost Per Absence



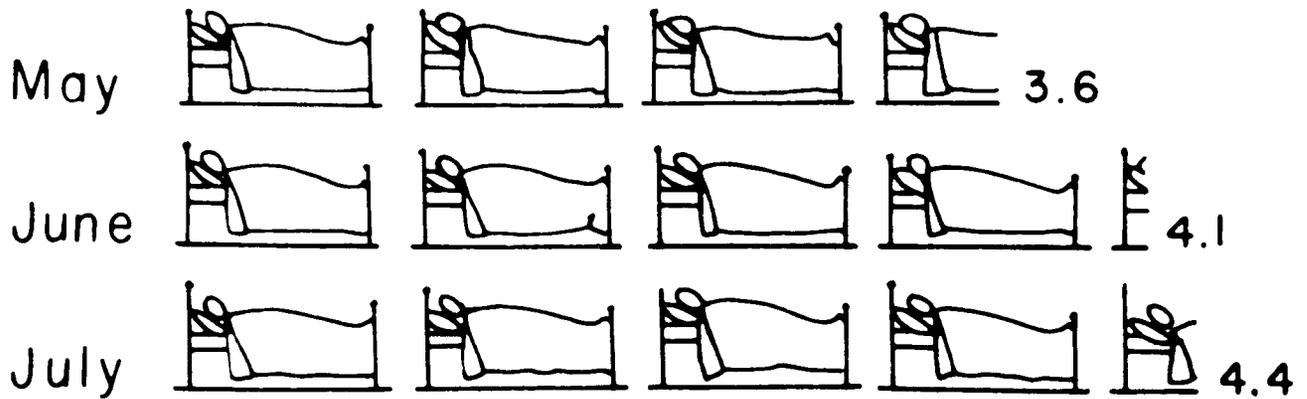
DISABILITY RATE

Days Lost Per 1,000 Days Scheduled



FREQUENCY RATE

Illness Absences Per 1,000 Days Scheduled



PERCENT OF EMPLOYEES VISITING DISPENSARY

