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Progress Report
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HEALTH DIVISION
REPORT FOR THE MONTH
ENDING MAY 31, 1950

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CARBIDE AND CARBON CHEMICALS DIVISION
UNION CARBIDE AND CARBON CORPORATION



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Report Number ORNL-770
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HEALTH DIVISION

REPORT FOR THE MONTH ENDING MAY 31, 1950

J. S. Felton, M. D.

Date Issued

DEC 14 1950

OAK RIDGE NATIONAL LABORATORY
operated by
CARBIDE AND CARBON CHEMICALS DIVISION
Union Carbide and Carbon Corporation
Post Office Box P
Oak Ridge, Tennessee

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DISTRIBUTION OF EFFORT FOR THE MONTH OF MAY 1950

<u>Personnel</u>	<u>Monthly</u>	<u>Weekly</u>	<u>Hourly</u>
Physicians	2	0	0
Industrial Hygiene Engineer	1	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	2
	<u>5</u>	<u>16</u>	<u>2</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	0	0
<u>Industrial Designer</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 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	2
	<u>5</u>	<u>16</u>	<u>2</u>

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STATISTICAL SUMMARY

Severity Rate 4.9 days lost per absence
 Disability Rate 16.7 days lost per 1000 days scheduled
 Frequency Rate 3.4 absences per 1000 days scheduled

Number of Patients

Employee 1063
 Non-employee 122
 Total 1085

Number of Visits

Employee 2662
 Non-employee
 J. A. Jones Const. Co. 70
 A. E. C. 14
 Austin Co. 7
 Other 80
 Total 171

Total all visits 2833

Number of Procedures 3962
 Number of Employees at the Laboratory 2199
 Percent of Employees Visiting Dispensary 48.3
 Number of Visits per Employee 1.2
 Number of Illness Absences per Employee 0.1

Ratio of Occupational to Non-occupational Procedures 1 : 0.6
 Ratio of Non-occupational to Occupational Injuries, first visit . 1 : 1.0
 Ratio of Non-occupational to Occupational Injuries, all visits .. 1 : 1.9
 Ratio of Occupational to Non-occupational Illnesses, first visit. 1 : 305.0
 Ratio of Occupational to Non-occupational Illnesses, all visits. 1 : 92.6
 Ratio of Occupational to Non-occupational Absences 1 : 77.0
 Ratio of Occupational to Non-occupational Days Lost *

*Ratio is not given since the occupational time lost was less than one day.

PROCEDURES ACCOMPLISHED FOR THE MONTH OF MAY 1950

	<u>No. of Procedures</u>
Non-occupational injury	124
" " , revisit	127
Non-occupational Illness	611
" " , revisit	315
Occupational injury or exposure, chemical	4
" " " " , " , revisit	19
Occupational injury or exposure, chemical, a.o.q.*	2
" " " " , " , " , revisit	1
Occupational injury or exposure, n.o.c.**	129
" " " " , " , revisit	322
Occupational injury or exposure, n.o.c.**, a.o.q.*	1
" " " " , " , " , 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	8
Absence due to illness or injury, non-occupational	155
Absence due to illness or injury, occupational	2
Physical examination, industrial hygiene	31
Physical examination, pre-placement	52
Physical examination, rehire	29
Physical examination, periodic health	44
Physical examination, job transfer	4
Physical examination, food handler	1
Physical examination, other	16
Physical examination, termination	49
Audiogram	166
Blood donation	6
Clinical laboratory procedure †	402
Electrocardiogram	120
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	67	
Spectacles ordered, prescription	30	
Spectacles issued, prescription	41	
Orthorater examination	128	
Orthorater examination, field	0	
Partial replacement	13	
Adjustment or repair	31	
Advisory service	5	
Total		315
X-ray examination:		
X-ray examination, non-occupational condition	18	
X-ray examination, occupational condition	259	
Total		277
Special study interview		0
Psychodiagnostic test		5
Consultation, non-occupational condition		177
Consultation, occupational condition		12
Consultation, without patient, non-occupational		45
Consultation, without patient, occupational		5
Home visit		0
Pre-marital serodiagnostic test		4
Immunization		367
Diagnostic procedure for an outside physician		12
GRAND TOTAL		3962

* 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:

Agglutination	2
Bacteriological Smear	3
Basal Metabolism	6
Blood Chlorides	1
Blood Cholesterol	2
Blood Creatinin	1
Blood Glucose	43
Blood N.P.N.	3
Complete Blood Count	233
Feces - Parasitological	7
Hematocrit	4
Kahn - Titer	9
Kahn	130
Phenolsulfonphthalein	3
Red Blood Count and Hemaglobin	9
Rh Factor	60
Sedimentation Rate	23
Typing - Blood	60
Urinalysis	346
Vital Capacity	22
White Blood Count and Differential	35
Total	1002

DISPOSITION FOLLOWING DISPENSARY VISITS

Return to regular work	3167
Return to modified or part-time work	390
Remain off work	280
Granted leave	0
Died in plant	1
Rejected	1
Accepted conditionally	0
Accepted	61
Sent to hospital or physicians office	62
AGGREGATE	3962

PERSONNEL ATTENDING PATIENTS

First Aid Attendant	0
First Aid Attendant and Nurse	0
First Aid Attendant, Nurse and Doctor	3
Nurse	1697
Nurse and Doctor	185
Doctor	589
Doctor and First Aid Attendant	0
Technician	1448
Psychologist	40
AGGREGATE	3962

TIME LOST DUE TO ILLNESS ABSENCE

	<u>No. of Absences</u>	<u>No. of Days Lost</u>
Less than 1 day	13	0
1 day	65	65
2 days	18	36
3 days	8	24
4 days	4	16
5 days	10	50
6 days	3	18
7 days	6	42
8 days	2	16
9 days	2	18
10 days	7	70
11 days	3	33
12 days	3	36
13 days	1	13
15 days	3	45
17 days	1	17
19 days	1	19
24 days	1	24
25 days	2	50
30 days	1	30
34 days	1	34
35 days	1	35
78 days	1	78
	<u>157</u>	<u>769</u>

NUMBER OF PROCEDURES BY GENERAL DIAGNOSIS GROUPS

	<u>Number of Procedures</u>
Illnesses:	
Allergy	37
Blood abnormality	6
Cardio-vascular disease	23
Dental disorder	20
Dermatitis	60
Endocrine disorder	53
Eye and ear disorder	96
Gastro-intestinal disease	117
Genito-urinary disease	28
Hernia	4
Infections and parasitic disease	97
Menstrual disease	36
Nervous and mental state, neurologic disorder	68
New growth	21
Orthopedic disorder	147
Pain and headache	83
Respiratory disease	318
Tuberculosis	1
Miscellaneous	66
Aggregate	1281
Injuries	
Injuries	729
Injuries, potential	0
Aggregate	729
Operative procedure	43
Total	2053
Special services not involving diagnosis	1909
GRAND TOTAL	3962

ABSENCES AND TIME LOST BY GENERAL DIAGNOSIS GROUPS

	<u>No. of</u> <u>Absences</u>	<u>Days</u> <u>Lost</u>
Illnesses:		
Allergy	1	5
Blood abnormality	0	0
Cardio-vascular disease	1	10
Dental disorder	1	2
Dermatitis	1	2
Endocrine disorder	1	15
Eye and ear disorder	6	56
Gastro-intestinal disease	33	134
Genito-urinary disease	5	32
Hernia	0	0
Infections and parasitic disease	5	19
Menstrual disease	17	17
Nervous and mental state, neurologic disorder	2	9
New growth	1	15
Orthopedic disorder	4	7
Pain and headache	5	82
Respiratory disease	54	206
Tuberculosis	0	0
Miscellaneous	5	13
Injuries:		
Injuries, non-occupational	5	138
Injuries, occupational	2	0
Operative procedures	8	137
Total	157	769

NUMBER OF VISITS BY PERSONAL, OCCUPATIONAL AND GROUP CHARACTERISTICS

	<u>No. of Visits</u>	<u>No. of Employees and Other Personnel</u>	<u>Average</u>
TOTAL	2833	2318	1.2
<u>SEX</u>			
Female	456	402	1.1
Male	2377	1916	1.2
<u>OCCUPATION</u>			
Life scientist	16	50	0.3
Physical scientist	425	362	1.2
Engineer	204	213	1.0
Technical assistant	287	207	1.4
Administrative and managerial personnel	192	156	1.2
Clerical personnel	286	343	0.8
Laborer	189	116	1.6
Maintenance personnel	157	119	1.3
Protective personnel	195	159	1.2
Craftsman	671	451	1.5
Chemical operator	102	58	1.8
Equipment operator	89	70	1.3
Trainees, Army personnel and others, n.o.c.*	20	14	1.4
<u>RACE</u>			
Colored	177	137	1.3
White	2656	2181	1.2
<u>MARITAL STATUS</u>			
Married	2223	1860	1.2
Single	506	404	1.3
Divorced	47	29	1.6
Widowed	57	25	2.3
<u>HEALTH STATUS</u>**			
H-1	594	546	1.1
H-2	1896	1499	1.3
H-3	285	240	1.2
Unclassified	58	33	1.8

*n.o.c. - not otherwise classified

**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 and Other Personnel</u>	<u>Average</u>
<u>DIVISION</u>			
Operations	105	88	1.2
Physics	90	80	1.1
Chemistry	263	215	1.2
Reactor Technology	160	120	1.3
Biology	83	106	0.8
Metallurgy	68	57	1.2
Training Program	20	15	1.3
Graduate Training Program	0	0	
Health Physics	131	119	1.1
Engineering and Maintenance	1179	855	1.4
Industrial Relations	258	179	1.4
Health	13	24	0.5
General Office	98	141	0.7
Security	133	156	0.9
Directors	89	59	1.5
Wage Standards	2	3	0.7
Mathematics Panel	18	16	1.1
Chemical Technology	118	82	1.4
Visitors, n.o.c.*	5	3	1.7
<u>AGE GROUP</u>			
18 to 19 years	8	4	2.0
20 to 29 years	993	787	1.3
30 to 39 years	1015	905	1.1
40 to 49 years	573	434	1.3
50 to 59 years	211	165	1.3
60 to 65 years	33	23	1.4
<u>SHIFT</u>			
Straight days	2331	2012	1.2
Rotating shifts	438	277	1.6
Straight shift	64	29	2.2
<u>PAYROLL</u>			
Hourly	1297	894	1.5
Weekly	689	630	1.1
Monthly	840	787	1.1
Semi-monthly	7	7	1.0

TIME LOST BY PERSONAL, OCCUPATIONAL AND GROUP CHARACTERISTICS

	<u>Days Lost</u>	<u>Scheduled Days</u>	<u>Percent Time Lost</u>
TOTAL	769	48678	1.6
<u>SEX</u>			
Female	279	8442	3.3
Male	490	40236	1.2
<u>OCCUPATION</u>			
Life scientist	0	1050	0.0
Physical scientist	94	7602	1.2
Engineer	49	4473	1.1
Technical assistant	99	4347	2.3
Administrative and managerial personnel	57	3276	1.7
Clerical personnel	208	7203	2.9
Laborer	37	2436	1.5
Maintenance personnel	12	2499	0.5
Protective personnel	41	3339	1.2
Craftsman	144	9471	1.5
Chemical operator	16	1218	1.3
Equipment operator	12	1470	0.8
Trainees, Army personnel and others, n.o.c.*	0	294	0.0
<u>RACE</u>			
Colored	35	2877	1.2
White	734	45801	1.6
<u>MARITAL STATUS</u>			
Married	577	39060	1.5
Single	102	8484	1.2
Divorced	82	609	13.5
Widowed	8	525	1.5
<u>HEALTH STATUS**</u>			
H-1	103	11466	0.9
H-2	588	31479	1.9
H-3	78	5040	1.5
Unclassified	0	693	0.0

*n.o.c. Not otherwise classified.

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	<u>Days Lost</u>	<u>Scheduled Days</u>	<u>Percent Time Lost</u>
<u>DIVISION</u>			
Operations	3	1848	0.2
Physics	49	1680	2.9
Chemistry	54	4515	1.2
Reactor Technology	54	2520	2.1
Biology	7	2226	0.3
Metallurgy	27	1197	2.3
Training Program	0	315	0.0
Graduate Training Program	0	0	
Health Physics	36	2499	1.4
Engineering and Maintenance	365	17955	2.0
Industrial Relations	24	3759	0.6
Health	0	504	0.0
General Offices	18	2961	0.6
Security	38	3276	1.2
Director	26	1239	2.1
Wage Standards	0	63	0.0
Mathematics Panel	17	336	5.1
Chemical Technology	51	1722	3.0
Visitors, n.o.c.*	0	63	0.0
<u>AGE GROUP</u>			
18 to 19 years	0	84	0.0
20 to 29 years	259	16527	1.6
30 to 39 years	375	19005	2.0
40 to 49 years	97	9114	1.1
50 to 59 years	33	3465	1.0
60 to 65 years	5	483	1.0
<u>SHIFT</u>			
Straight days	693	42252	1.6
Rotating shifts	75	5817	1.3
Straight shift	1	609	0.2
<u>PAYROLL</u>			
Hourly	245	18774	1.3
Weekly	333	13230	2.5
Monthly	191	16527	1.2
Semi-monthly	0	147	0.0

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

	<u>Absentees</u>	<u>No. of Employees and Other Personnel</u>	<u>Average</u>
TOTAL	144	2318	6.2
<u>SEX</u>			
Female	71	402	17.7
Male	73	1916	3.8
<u>OCCUPATION</u>			
Life scientist	0	50	0.0
Physical scientist	22	362	6.1
Engineer	9	213	4.2
Technical assistant	19	207	9.2
Administrative and managerial personnel	9	156	5.8
Clerical personnel	50	343	14.6
Laborer	5	116	4.3
Maintenance personnel	5	119	4.2
Protective personnel	5	159	3.1
Craftsman	16	451	3.5
Chemical operator	2	58	3.4
Equipment operator	3	70	2.9
Trainees, Army personnel and others, n.o.c.*	0	14	0.0
<u>RACE</u>			
Colored	6	137	4.4
White	138	2181	6.3
<u>MARITAL STATUS</u>			
Married	101	1860	5.4
Single	35	404	8.7
Divorced	5	29	17.2
Widowed	3	25	12.0
<u>HEALTH STATUS**</u>			
H-1	20	546	3.7
H-2	103	1499	6.9
H-3	21	240	8.8
Unclassified	0	33	0.0

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	<u>Absentees</u>	<u>No. of Employees and Other Personnel</u>	<u>Average</u>
<u>DIVISION</u>			
Operations	2	88	2.3
Physics	5	89	6.3
Chemistry	21	215	9.8
Reactor Technology	11	120	9.2
Biology	1	106	0.9
Metallurgy	5	57	8.8
Training Program	0	15	0.0
Graduate Training Program	0	0	
Health Physics	12	119	10.1
Engineering and Maintenance	40	855	4.7
Industrial Relations	11	179	6.1
Health	0	24	0.0
General Office	8	141	5.7
Security	8	156	5.1
Director	11	59	18.6
Wage Standards	0	3	0.0
Mathematics Panel	3	16	18.8
Chemical Technology	6	82	7.3
Visitors, n.o.c.*	0	3	0.0
<u>AGE GROUP</u>			
18 to 19 years	0	4	0.0
20 to 29 years	75	787	9.5
30 to 39 years	46	905	5.1
40 to 49 years	14	434	3.2
50 to 59 years	8	165	5.8
60 to 65 years	1	23	4.3
<u>SHIFT</u>			
Straight days	127	2012	6.3
Rotating shifts	15	277	5.4
Straight shift	2	29	6.9
<u>PAYROLL</u>			
Hourly	32	894	3.6
Weekly	79	630	12.5
Monthly	33	787	4.2
Semi-monthly	0	7	0.0

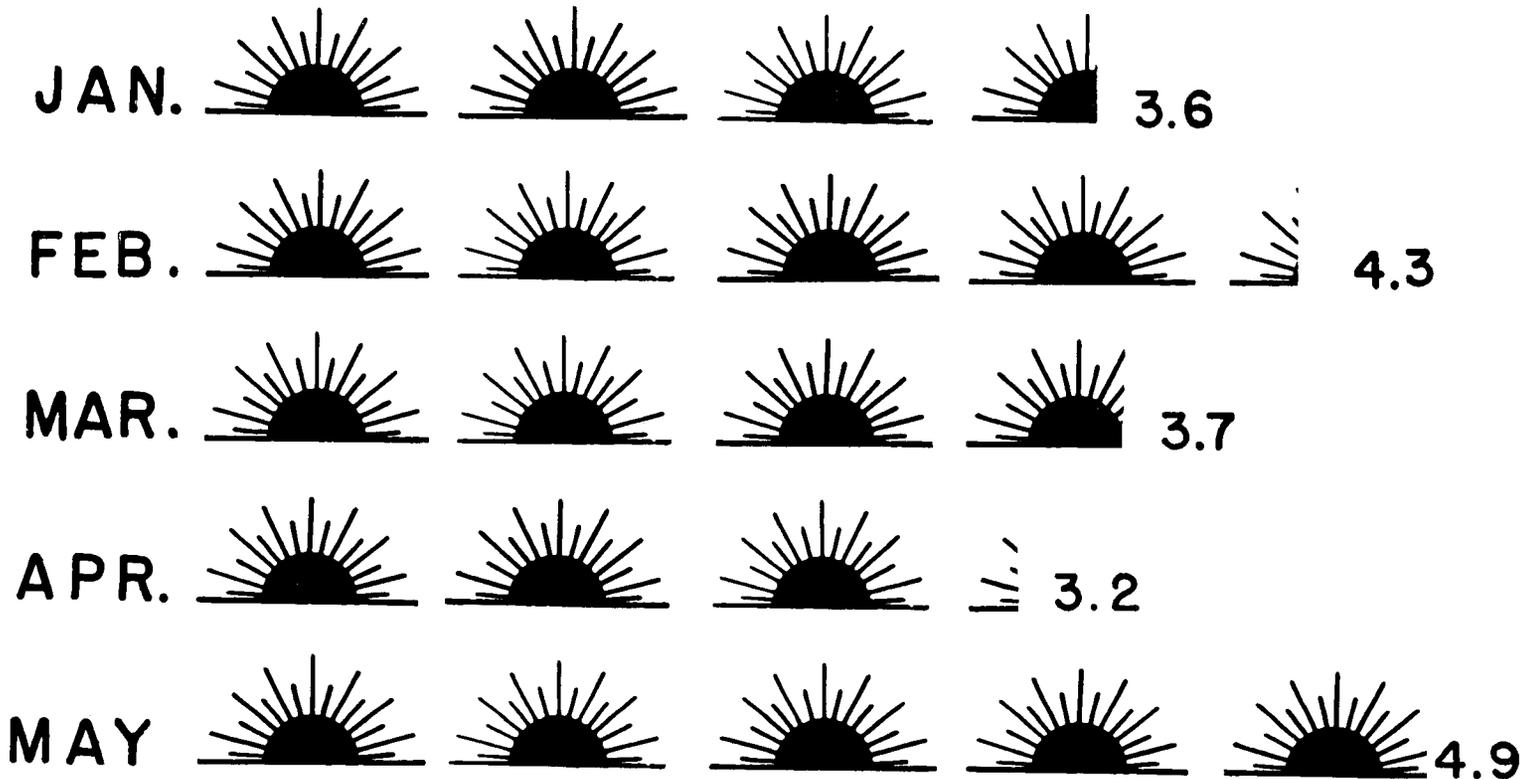
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Dwg. 9659
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SEVERITY RATE

Days Lost Per Absence

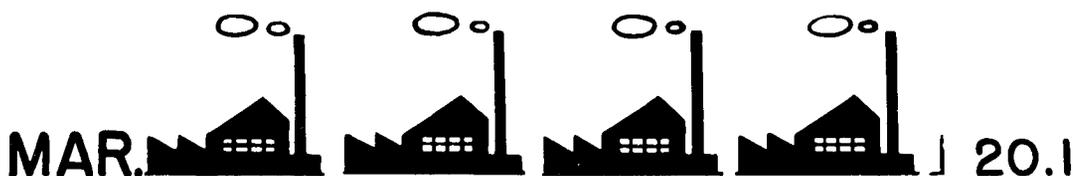
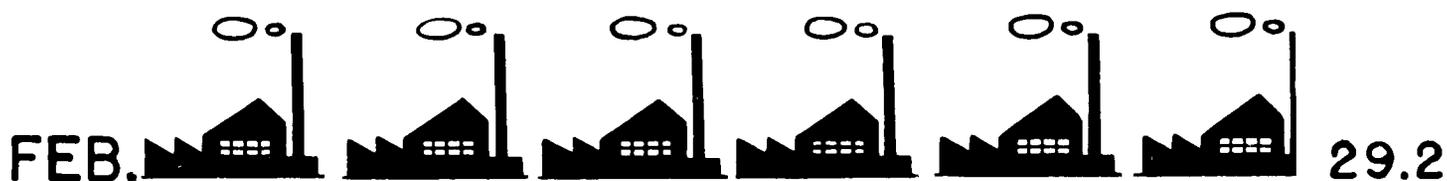
EACH SYMBOL REPRESENTS 1 DAY



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

JAN.



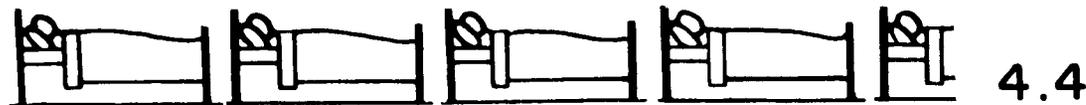
FEB.



MAR.



APR.



MAY



PERCENT OF EMPLOYEES VISITING DISPENSARY

EACH SYMBOL REPRESENTS 10 %

