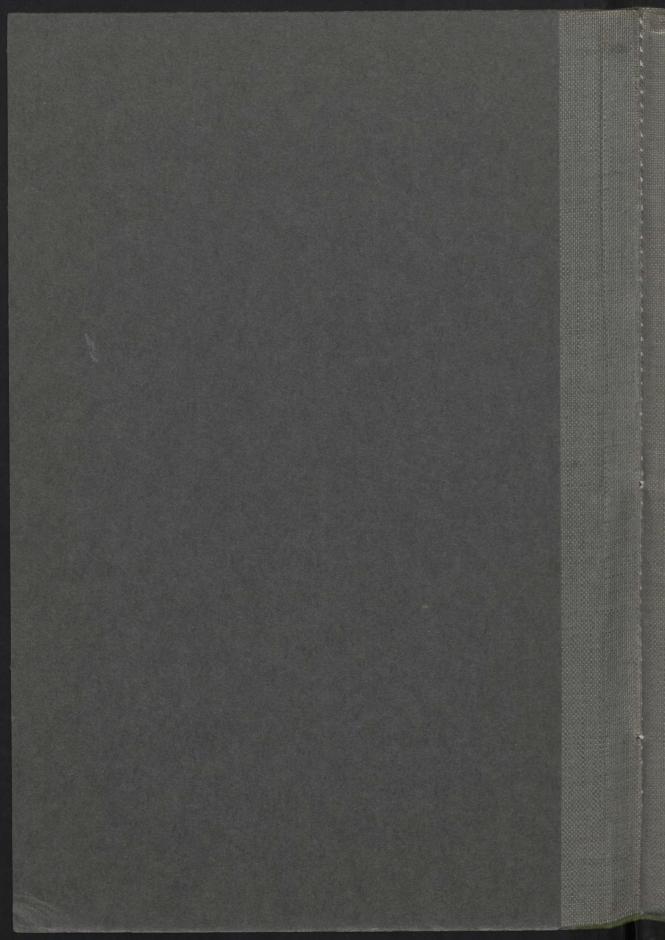


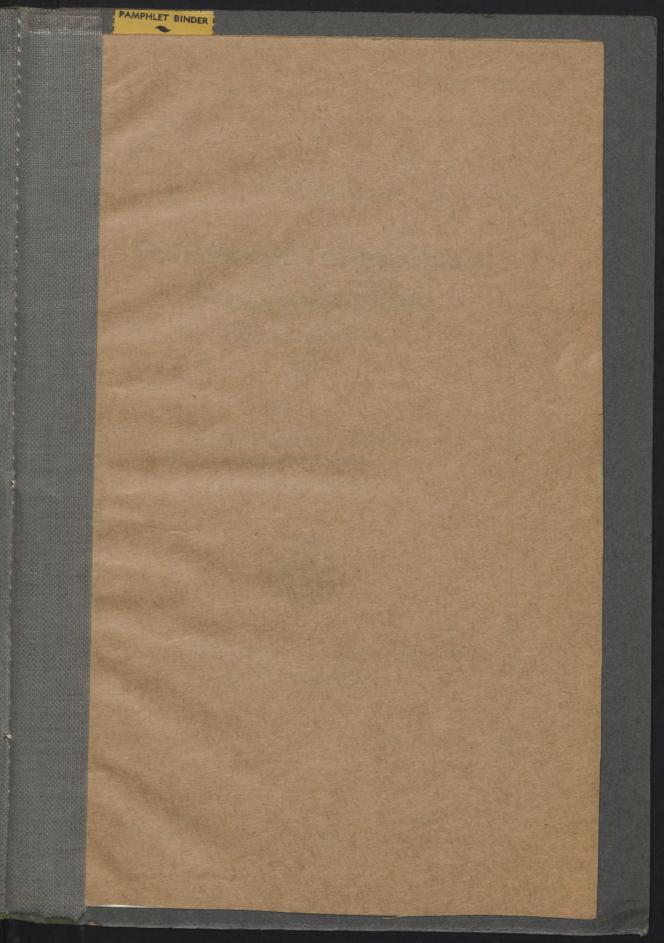
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Annual Report of the Division of Tuberculosis Hospitalization.

Colo. State Dept. of Public Welfare Division of Tuberculosis Hospitalization

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STATE OF COLORADO

Division of Tuberculosis Hospitalization

ANNUAL REPORT 1955

EDWARD N. CHAPMAN, M. D., Director 1452 Pennsylvania Street Denver 3, Colorado



STATE DEPARTMENT OF PUBLIC WELFARE GUY R. JUSTIS, Director

ED JOHNSON Governor DUKE W. DUNBAR Attorney General

Publication Approved by James A. Noonan, Controller

1956

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ANNUAL REPORT FOR 1955

In Colorado the care of tuberculosis is a function of the Colorado State Department of Public Welfare. This Department operates the Division of Tuberculosis Hospitalization as a separate medical care division. As close liaison as possible is maintained between this Division and the Division of Tuberculosis Control of the Colorado State Health Department, and I am glad to report that regular conferences between the two Divisions, to discuss mutual problems, are now held each month. This is one of the new developments in 1955 and should lead not only to more efficient hospitalization of new cases, but also to a better follow-up of cases discharged, especially cases discharged against medical advice.

TABLE I

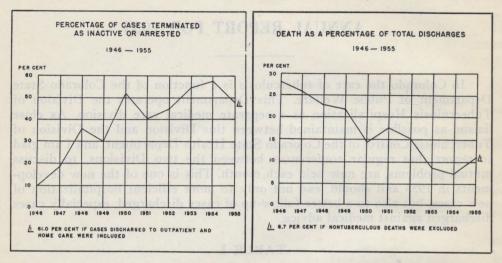
TOTAL NUMBER OF CASES GIVEN CARE FOR TUBERCULOSIS

1946	
1017	
1948	
1949	
1950	
1951	
1953	
1955	474

There was a 6% decline in the number of cases given care in 1955 by the Division of Tuberculosis Hospitalization, as compared with 1954. The results obtained this past year do not appear to be quite as good statistically as those in 1954. There are reasons for this. In the first place, the percentage of far advanced and moderately advanced cases admitted increased somewhat in 1955 over the previous year and the percentage of minimal cases declined. The chief reason why the percentage of cases discharged as inactive or arrested (see Chart A) has declined slightly over 1954, is that we are now discharging certain favorable cases to our Out-Patient Department and Home Care earlier than we have done in the past—too early to definitely classify them as

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inactive under the NTA classification. Also we have kept some cases in the sanatoria on ambulant care who are undergoing vocational rehabilitation, since this gives them a more favorable environment in which to live during their training than would a cheap hotel or boarding house. If corrections are made for these above-mentioned changes, our results would compare favorably with 1954, which was an outstanding year.

There has been a decline in the length of hospitalization during the last year. The median length of stay under hospitalization has declined from $11\frac{1}{2}$ months in 1954 to slightly under 10 months in 1955.

Until some new drug, more effective for tuberculosis than the three now commonly used, is discovered, or an improvement in surgical procedure is evolved, I do not expect much improvement over present results on a group of cases such as ours. Roughly two-thirds get well, ten percent die, and the remaining leave against medical advice or have such advanced disease, or persistently positive sputum, that they have to live out their lives in an institutional environment. The tuberculosis drugs certainly prolong the lives of those whom they do not cure.

Cases originating from Denver County increased considerably this year. This is chiefly due to the fact that, under a new policy placed in effect by Dr. Roger Mitchell, who is in charge of the Denver General Hospital Tuberculosis Ward, an attempt is made to transfer all patients eligible for the State Program to our care. It is therefore not indicative of an increase in the amount of tuberculosis in the City of Denver.

Again there was a very low percentage of cases leaving against medical advice (13.4%), which is an indication of the satisfaction on the part of patients with the type of care they receive.

TABLE II

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PERCENTAGE OF TOTAL DISCHARGES LEAVING AGAINST MEDICAL ADVICE

1946	27.5%
1947	17.0%
1948	18.0%
1949	22.4%
1950	16.5%
1951	23.0%
1952	19.2%
1953	17.0%
1954	13.4%
1955	13.4%

There were only five cases admitted in 1955 who had previously been discharged as arrested or inactive from the state care program who showed definite evidence of relapse. An additional seven were admitted because they were thought to be relapsing by their physician or clinic, but intensive study failed to reveal either gastric cultures positive for tubercle bacilli or evidence of X-ray spread. It is wrong to consider a patient as having a recurrence of tuberculosis because one positive sputum smear or culture is discovered especially if this comes at a time when a respiratory infection is present. Very few individuals are probably sterilized of all tubercle bacilli by the new drugs. A rare positive sputum is of little significance, either to the individual or to public health, unless it is accompanied by X-ray changes or persistent symptoms suggesting tuberculosis. Rehospitalization should be prompt if sputum is persistently positive or if X-ray changes suggesting a relapse of tuberculosis are present.

In every case where Vocational Rehabilitation is indicated and where the individual has been willing to give the necessary time and effort, rehabilitation has been arranged. In this I want to acknowledge the help given our patients by Mr. Russell Haase of the Colorado State Department of Vocational Rehabilitation. This help has been extremely valuable.

Research has been completed in 1955 on the question as to why the cases of active tuberculosis on the state register of the Colorado State Health Department are not in hospitals. In this study, which was a combined effort of this Division, the Colorado Tuberculosis Association, the Colorado State Health Department and the Colorado State Medical Society, much of the time of Miss Gertrude Loos of our Medical Social Department was contributed. Data on every unhospitalized tuberculosis case living outside the City of Denver was obtained. If recent data could not be readily obtained from the Health Department records or from the records of private physicians, the

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patient was sought out for a personal interview. It has been the most comprehensive study yet made of this problem anywhere and the results will soon be published. There were 138 cases of active tuberculosis unhospitalized on the date selected for the study. Insofar as the results of this study touch the work of this Division, it was found that in four cases the means test acted as a barrier to hospitalization. A group of 12% of the total recommended for hospitalization were receiving welfare aid, such as Old Age Pension or Aid to the Needy Disabled, which may have influenced the individuals to remain out of the hospital. Veterans' benefits, paid the unhospitalized veteran, quite evidently was a strong influence against hospitalization. Almost one-third of the unhospitalized cases were in this category. It seems stupid and inefficient, when good beds for tuberculosis patients are empty and good care is available. to subsidize individuals with active tuberculosis so that they can live at home, prolong their own disability and spread their disease to others. With regard to the operation of the means test, county welfare departments are becoming increasingly liberal in their interpretation of the means test, and they should be, since in Colorado they have an obligation under the law to help protect public health. Hospitalization should be encouraged in every way possible.

As statistics become available from various parts of the country, home care for tuberculosis seems to be less than half as efficient in changing a positive to a negative sputum or in arresting the disease as does hospitalization. Certainly home care should not be offered to an individual without a preceding period of hospitalization during which he can be educated to the seriousness of his disease and how to protect others. His ability to take the tuberculosis drugs, without serious reaction, can then be studied. Individuals have come to us who have been on home care and who have been ideal candidates for surgery a year or so prior to hospitalization. Either this fact has not been recognized by their physician, or the surgery, if recommended, has been refused by the patient because he has not been able to see the good results of surgery as he would have done had he been in an institution. Thus the help that surgery might give is lost. Certainly most patients with positive sputum should be segregated and away from their families. The danger of infection to others is too great. Recent reports from many of our larger cities, in which home care programs have been encouraged by health departments, indicate an alarming rise in new cases of tuberculosis. Quite possibly home care is the cause.

We have limited home care under our Program strictly to cases which have had previous hospitalization and whose intelligence and home situation give every promise that treatment will be successful. These individuals must submit to close public health nursing supervision of the home and be faithful in their follow-up examinations at the clinic or hospital. We have enlarged our Out-Patient Department so that patients sent out on home care can return to the institution from which they were discharged for intensive, periodic check-up. This brings them back to the physician who handled their case originally and therefore to an individual well acquainted with the problems involved.

All our patients this past year have had medical social coverage, and this has aided in our low rate of discharge against medical advice. The faithful work of Mrs. Dorothy Adams, who has covered the institutions where there is no staff worker, has been most helpful. Miss Gertrude Loos left in October

to take a position with the National Tuberculosis Association. She had been with this Division for seven years, and her aid had been invaluable not only in her social service to patients, but also to the Director in helping with matters of policy.

We have continued to send our patients to Colorado General Hospital for chest surgery and for special studies not available in sanatoria. I wish to acknowledge the skillful assistance given our patients by Dr. Roger Mitchell, head of the Chest Medical Service there, and by Dr. Fred Harper and his Chest Surgical Staff.

Hospitalization of our patients has been carried on at the following institutions which have been approved by the Colorado State Board of Public Welfare and by the Director for the care of state patients:

Colorado General Hospital, Denver Cragmor Sanatorium, Colorado Springs Craig Colony, Lakewood (ambulant care only) Glockner-Penrose Hospital, Colorado Springs Lutheran Sanatorium, Wheatridge Mennonite Hospital, La Junta National Jewish Hospital, Denver (children only) St. Mary's Hospital, Grand Junction (temporary care only) Sunnyrest Sanatorium, Colorado Springs (ambulant care only) Swedish National Sanatorium, Englewood

Regular conferences are held with the staffs of these institutions by the Director of the Division and others on his staff. Thus each patient's case is discussed at least once every two months by a group composed of the physician in charge of the patient, a chest surgeon, the head nurse, medical social worker, occupational therapist, and by the Director. Conferences of a similar nature are held every month on cases undergoing home care in the Denver Home Care pilot study group. The services of Dr. K. V. Kuiper have been valuable to our patients in the Denver area who have needed psychiatric consultation. The net cost of care in 1955 under the Division of Tuberculosis Hospitalization was \$467,202.79, which cost was divided equally between the state and the counties from which the patients originated.

I wish to take this opportunity to thank the members of the Colorado State Board of Public Welfare and the Executive Director, Mr. Guy R. Justis, for unfailing support of our Division during the year, and my own staff for their interest and devotion to their work without which our results could not have been accomplished.

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SURGICAL PROCEDURES PERFORMED ON TUBERCULOSIS PATIENTS COLORADO STATE DEPARTMENT OF PUBLIC WELFARE

1955

PROCEDURE	NUMBER	PROCEDURE	NUMBER
Amputation of finger	1	Hemorrhoidectomy	1
Appendectomy		Inguinal herniorraphy	
Arthrodesis of hip		Laminectomy	
Arthrodesis of toe		Laminectomy with costo)
		transversectomy	1
Biopsy Breast amputation	1	Lobectomy	15
		Nephrectomy	3
Cataract		Plombage	1
Cholecystojejuniostomy		Pneumonectomy	1
Cholecystectomy	2	Rachiotomy	1 1 1 1 1 1
Choledochotomy	1	Radical mastoidectomy .	
Cutaneous ureterostomy		Resection (lung)	4
Decortication	ndo Sorl e	Resection of sigmoid poly	vp. 1
Delivery		Revision of prosthesis	1
Duodenotomy	1	Sequestrectomy	1
Esophageal diverticulum	1	Skin graft	2
Excision tumor of		Spinal fusion	5
mediastinum	ton 1 hids y	Thoracoplasty	
Exploration of fusion	1	Thoracotomy	7
Exploratory laparotomy	(and (tena) (and	Thyroidectomy	1
Gastric resection	1	Tracheotomy	1

EXPENDITURES DIVISION OF TUBERCULOSIS HOSPITALIZATION COLORADO STATE DEPARTMENT OF PUBLIC WELFARE

1955

Total amount expended for patients in sanatoria Amount expended for Out-Patient Department Amount expended for transportation Amount expended for burials	\$4,367.88 1,039.54 	\$448,783.43
Amount expended for Home Care	6,320.00	11,927.42
Total gross amount expended Patient days Average cost per day	58,751 \$ 7.64	\$460,710.85
Partial reimbursement by patients and relatives		6,491.94
Total net amount expended	and an horizon of	\$467,202.79

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TUBERCULOSIS HOSPITALIZATION

ANNUAL STATISTICAL REPORT

Year of 1955

Period: 12-25-54 through 12-24-55

I. Compiled Monthly Reports

A. Applications

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	Pending at the beginning of year		5
	Received during the year	Cases	242
	Total	ImnX	247
	Disposed of during the year	Addie	242
	Approved for sanatoria		
	New		
	Readmission		
x	Reopened		
	Approved for home care	17	
	New		
1	Readmission 3		
1	Reopened 3	10	
	Not placed under care	19	
	Disapproved 9		
	Death before approval		
	Refused to be hospitalized 1		
	Denied for home care		
	Admitted directly to outpatient	1	
	Pending at the end of the year	A	5
	Cases Under Care-Sanatoria		
	Number in sanatoria at beginning of year		162
	Added during the year		215
	Approved applications		
	Transferred from outpatient	10	
	Total	under J	377

Discharged	110	
Death	25	
Left against advice Disciplinary	10	
Nontuberculous		
No longer in need	10	
Transferred to outpatient	27	
Transferred to home care	4	
Number in sanatoria at end of year		154

C. Cases Under Care-Outpatient

Number under care at the beginning of year	T	34
Added during the year	Dim	28
Approved applications Transferred from sanatoria	1 27	
Total		62
Terminated during the year		23
Discharged	12	
Transferred to home care	1	
Transferred to sanatoria	10	
Number under care at the end of the year		39

D. Home Care Cases

Under care at the beginning of the year	
Added during the year	
Approved applications	17
Transferred from outpatient	
Transferred from sanatoria	4
Total	
Terminated	2 m rodute 7
Discharged	
Left against advice	
Disciplinary	
Under care at the end of the year	

1.	Sanatoria	Total	Inactive	Arrested	Active
	Pulmonary	105	38	63	4
	Pulmonary plus bone	1			1
	Pulmonary plus meningeal	the I care		1	
	Pulmonary plus glandular		2 1	1	
	Pul. plus renal plus meningeal	1		1	
	Total	110	39	66	5
2.	Outpatient	T. T	7		ent oulder
	Derlander	Total	Inactive	Arrested	Active
	Pulmonary	8	7	1	S GA
	Bone	1			ohejos
	Renal	1	1		
	Pulmonary plus bone	2	2	203	San
	Total	12	10	1	1
3.	Home Care				
		Total	Inactive	Arrested	Activ
	Pulmonary	11	10		1
	Bone	. 1 \$		1	
	Renal	1	1	anning d	
	Total	13	11		1

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TUBERCULOUS PATIENTS RECEIVING CARE IN SANATORIA AND OUTPATIENT DEPARTMENTS, COLORADO STATE DEPARTMENT OF PUBLIC WELFARE, BY COUNTIES, 1955

Country	Und beg	der care a ginning of	at the 1955	Added during 1955			Total under care during 1955		
County -	Sana- toria	Out- patient	Home care	Sana- toria	Out- patient	Home care	Sana- toria	Out- patient	Home
Total	162	34	13	215	28	22	377	62	35
Adams	2	1	1	4	2	en <u>al</u> p	6	3	
Alamosa		1						1	:
Arapahoe	2			10	3		12	3	
Bent				2			2		
Boulder	7	1		3	1		10	2	· · · · ·
Chaffee				1			3	dine	
Cheyenne		1		1			1		
Clear Creek				1			1		
Conejos	4			6			7		
Costilla	1			0			1	Remo	
Crowley				2			4	Lucin .	
DI		1		4	2	o and	4		
D		10	13	95	8	21			21
Denver			15	95	0	21	150	18	34
Elbert		1						1	
El Paso		1		12			22	1	
Fremont				3			4		
Garfield							1		
Gilpin				1			2		
Huerfano	1	2		1			2	2	
Jefferson	4			4	2	1	8	2	1
Lake							1		
La Plata	1		· · · · · ·	3			4		
Larimer		1			1		4	2	
Las Animas		2		9	2		16	4	
Logan				1	1		1	1	
Mesa	6	1		8			14	1	
Moffat		181					1	-	
Montezuma	1						1		
Montrose	1			2			3		
Morgan	3						3		
0				2	1		11	2	
Otero				4				2	
Ouray	1						1	1	
Prowers	16	1 7		4		·	5	1	
Pueblo		7		20	1		36	8	
Rio Blanco				2			2		
Rio Grande				6			11		
Saguache	2			2	1		4	1	
Washington				1			1		
Weld	13	3		5	3		18	6	

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TUBERCULOUS PERSONS PLACED UNDER CARE COLORADO STATE DEPARTMENT OF PUBLIC WELFARE BY AGE AND STAGE, 1955

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					PUI	LMONA	ARY					NON-PI	ULMON	IARY
AGE	TOTAL CASES	Total Pul- monary	Mini- mal	Moder- ately ad- vanced	Far ad- vanced	Silico	Miliary	Primary	Pleural effus- ion	Pul- monary plus other TB compli- cations	Evalua- tion	Gland- ular	Bone	Renal
Total	205	187	13	58	94	3	3	6	3	7	8	5	2	3
0-9	11	10	2				1	6	1	1912 49		1	1	
10-19	11	8		4	1		1		1	1	2	1		
20-29	32	25	5	8	12						2	3		2
30-39	25	22	2	7	11				1	1	1	1		1
40-49	51	49	1	20	25	1				2	1		1	
50-59	39	38	1	10	- 22	-1	1	~ · · · · · ·		3	1	inin +		
60-69	16	16	1	2	12	1	'						12.88	
70-79	12	11		3	8						1			
80 and over	8	8	1	4	3									

Pulmonary Cases

•	Number	Percentag
Total	187	100.00
Far advanced	94	50.27
Moderately advanced	58	31.02
Minimal	13	6.95
All other	22	11.76

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CASES DISCHARGED AS ARRESTED OR INACTIVE IN 1955 BY TOTAL LENGTH OF HOSPITALIZATION

	Number of 7 months	fotal number of persons	r Arrested	Inactive	
Consey	Total	105	66	39	
	1	4	torian continue	4	initiate entit
		2 3	2	1	
	2 3	3		3	
	4	7	4	3	
	5	6	6		
	6	- 4 -	- 1300 4 T		
	7	8		4	
	8	8 7	8 7	~ L. 2 × 10	
	.9	6		854855	
	10	6	6 5 3	1	
	10	5	2	2	
	11	5 7	5	4	
	12			3	
		6	2	3 1 2	
	14	4	4 5 2 2	2	
	15	.6	2	4	
	16	1		1	03
	17	3	2	1	
	18	1		1	
	19	2 3	1 - 10	1	
	21			3	
	23	1	1		
	26	3		3	
	36	1		N 1 2	
	38	2	1	1	
	50	1		1	
	51	· · · · · · · · · · · · · · · · · · ·	= = 1=		
	52	1		1	
	56	2		2	
	62	<u>1</u>	1 00 = 1 m	34551	
	108	î	î		
15.0					0
	Arro	sted:	1955	1954	
		Average	12.6 Mo.	12.3	
	3	Median	8.3 mo.	8.7	
	Inac	tive:			
		Average	18.0 mo.	18.3	
		Median	14.1 mo.	13.7	
	Tota		11.1 110.	10.1	
			116	14.0	
		Average	14.6 mo.	14.0	
		Median	9.9 mo.	11.5	

Prepared by Division of Research and Statistics Colorado State Department of Public Welfare January 23, 1956

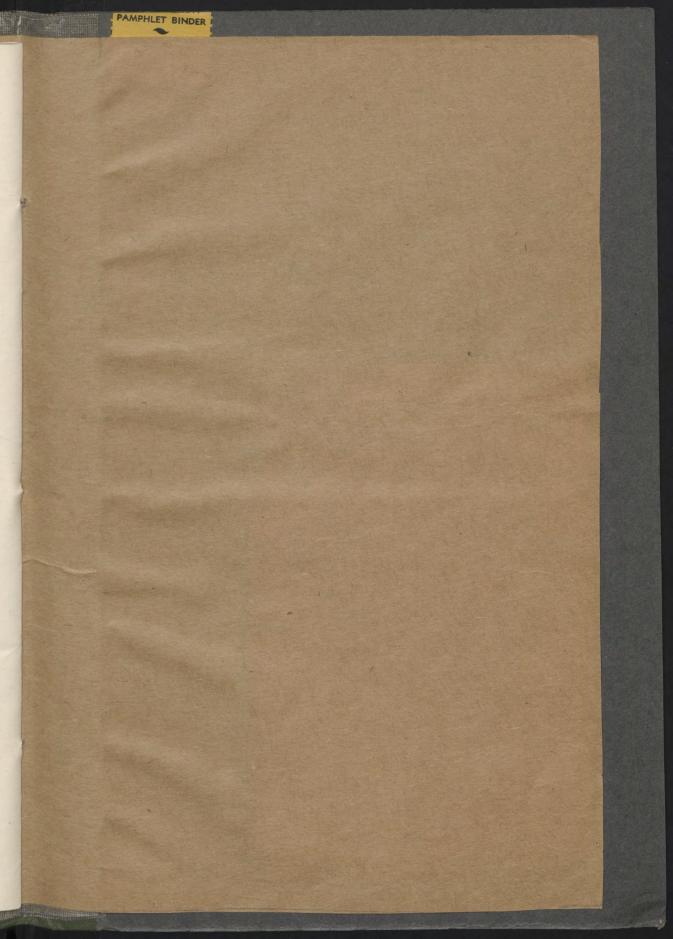
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APPROVALS BY OCCUPATION

Occupation	Number	Percentage
Total		100.00
Housewives	42	20.49
Foodhandlers and service	39	19.02
None	23	11.22
Semi-skilled labor	22	10.73
Agriculture	19	9.27
Unskilled labor	18	8.78
Office and sales people	17	8.29
Skilled labor	16	7.81
Professional	9	4.39

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