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BIENNIAL REPORT  
OF THE  
North Carolina Sanatorium  
SANATORIUM  
AND THE  
Western North Carolina Sanatorium  
BLACK MOUNTAIN



FOR THE TWO YEARS ENDED JUNE 30, 1940

1938  
July 1 - June 30 - '40

## BOARD OF DIRECTORS

MR. L. L. GRAVELY, <i>Chairman</i>	Rocky Mount
MR. E. A. RASBERRY, <i>Vice-Chairman</i>	Snow Hill
MR. R. L. HARRIS, <i>Secretary</i>	Roxboro
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DR. THURMAN D. KITCHIN	Wake Forest
MR. LAURIE MCEACHERN	Raeford
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MRS. MAX T. PAYNE	Greensboro
DR. CARL V. REYNOLDS	Raleigh
*DR. M. L. STEVENS	Asheville
DR. T. W. M. LONG	Roanoke Rapids
DR. LESTER P. MARTIN	Mocksville

## PERSONNEL

## NORTH CAROLINA SANATORIUM

P. P. MCCAIN, M.D.	Superintendent and Medical Director
C. D. THOMAS, M.D.	Associate Superintendent and Medical Director
F. T. HARPER, M.D.	Resident Physician
C. L. GRAY, M.D.	Resident Physician
ISAAC HOROWITZ, M.D.	Resident Physician
LEOPOLD MARKS, M.D.	Resident Physician, Negro Division
G. M. WILKINS, M.D.	Assistant Physician, Negro Division
MARTHA C. NEWMAN, R.N. (1938-39)	Superintendent of Nurses
EULA RACKLEY, R.N. (1939-1940)	Superintendent of Nurses
R. G. WHARTON, D.D.S.	Dentist
H. L. SATTERWHITE	Laboratory and X-ray Technician
F. L. EUBANKS	Purchasing Officer
C. C. MOSS	Cashier
MRS. C. W. COVINGTON	Secretary to Superintendent
MISS CARRIE TOOMER	Dietitian
J. L. BEALL	Farm Superintendent
R. S. PERRY	Chief Engineer
CARRIE BROADFOOT, R.N.	Superintendent of Nurses, Negro Division

EXTENSION DEPARTMENT OF THE NORTH CAROLINA  
SANATORIUM FOR THE TREATMENT OF TUBERCULOSIS

P. P. MCCAIN, M.D.	Director
H. F. EASOM, M.D.	Chief Clinic Physician
JOHN S. DENHOLM, M.D. (1938-1939)	Clinic Physician
G. C. GODWIN, M.D.	Clinic Physician
R. T. JENKINS, M.D. (1938-1939)	Clinic Physician
L. B. SKEEN, M.D.	Clinic Physician
W. H. ROPER, M.D.	Clinic Physician

\*Deceased.

## CONSULTING STAFF NORTH CAROLINA SANATORIUM

DR. C. R. MONROE, <i>thoracic and general surgery</i> .....	Pinehurst
DR. V. K. HART, <i>bronchoscopy and laryngology</i> .....	Charlotte
DR. JAMES M. LILLY, <i>eye, ear, nose and throat</i> .....	Fayetteville
DR. W. P. MCKAY, <i>eye, ear, nose and throat</i> .....	Fayetteville
DR. O. L. MILLER, <i>orthopedic surgery</i> .....	Charlotte
DR. DAVID T. SMITH, <i>bacteriology and internal medicine</i> .....	Durham
DR. J. D. HIGHSMITH, <i>surgery</i> .....	Fayetteville
DR. DERYL HART, <i>surgery</i> .....	Durham
DR. JAMES B. BULLITT, <i>pathology</i> .....	Chapel Hill
DR. WM. DEB. MACNIDER, <i>pharmacology</i> .....	Chapel Hill

## PERSONNEL

## WESTERN NORTH CAROLINA SANATORIUM

P. P. McCAIN, M.D. ....	Superintendent
S. M. BITTINGER, M.D. ....	Associate Supt. and Medical Director
A. L. ORMOND, M.D. ....	Resident Physician
H. E. WOOD, M.D. ....	Assistant Physician
J. C. BURGE, M.D. ....	Assistant Physician
CREOLYA SNODGRASS, R.N. ....	Superintendent of Nurses
R. G. WHARTON, D.D.S. ....	Dentist
IRVIN PAGE .....	Laboratory and X-ray Technician
W. N. BANKS .....	Purchasing Officer
MRS. LAWRENCE BARNHILL .....	Secretary to Medical Director
S. J. STUTTS .....	Chief Engineer

## CONSULTING STAFF

DR. JULIAN A. MOORE, <i>thoracic surgery</i> .....	Asheville
DR. F. WEBB GRIFFITH, <i>general surgery</i> .....	Asheville
DR. JOHN T. SAUNDERS, <i>orthopedic surgery</i> .....	Asheville
DR. THOMAS R. HUFFINES, <i>genito-urinary surgery</i> .....	Asheville
DR. ARTHUR AMBLER, <i>anesthesia</i> .....	Asheville
DR. JOSEPH T. GREENE, <i>ear, nose and throat</i> .....	Asheville
DR. G. S. TENNANT, <i>diseases of the eye</i> .....	Asheville
DR. CURTIS CRUMP, <i>pathology</i> .....	Asheville
DR. A. B. CRADDOCK, <i>internal medicine</i> .....	Asheville
DR. LEWIS BEALL, <i>psychiatry</i> .....	Black Mountain
DR. CHARLES H. COCKE, <i>diseases of the chest</i> .....	Asheville
DR. PAUL H. RINGER, <i>diseases of the chest</i> .....	Asheville
*DR. M. L. STEVENS, <i>diseases of the chest</i> .....	Asheville
DR. C. C. ORR, <i>diseases of the chest</i> .....	Asheville
DR. C. D. W. COLBY, <i>diseases of the chest</i> .....	Asheville
DR. EDWARD W. SCHOENHEIT, <i>diseases of the chest</i> .....	Asheville
DR. J. W. HUSTON, <i>diseases of the chest</i> .....	Asheville
DR. WILSON PENDLETON, <i>diseases of the chest</i> .....	Asheville
DR. I. J. ARCHER, <i>diseases of the chest</i> .....	Black Mountain
DR. KARL SCHAFFLE, <i>diseases of the chest</i> .....	Asheville

\*Deceased.

**LETTER OF TRANSMITTAL**

*His Excellency*

GOV. CLYDE R. HOEY

Raleigh, N. C.

SIR:

I have the honor to transmit herewith the report of the Superintendent of Operations of the North Carolina Sanatorium and Western North Carolina Sanatorium for the Treatment of Tuberculosis for the biennium ending June 30, 1940, together with report on the status of the proposed Eastern Carolina Sanatorium to be located at Wilson, N. C.

We are happy to call attention to a decrease in the death rate from tuberculosis in the State during the past year but desire to again emphasize the need for adequate facilities for the prevention and cure of this scourge. The work of early diagnosis has been expanded and we are indebted to the private physicians, the health and welfare officers, and the school authorities for their splendid coöperation. The facilities for the care and treatment of patients have been enlarged through the completion of units at both institutions.

We have not been able to successfully work out an arrangement for Federal participation to the required extent of forty-five per cent for the construction of the Sanatorium at Wilson and we respectfully urge that the coming General Assembly make immediately available an additional sum adequate to construct an Eastern North Carolina Sanatorium to meet the great need of this section of the State.

On behalf of the Board I desire to express to the Superintendent and his staff at both institutions our thanks for and appreciation of the splendid manner in which they have performed their respective duties.

The members of the Board have been diligent and interested in the fulfillment of their responsibilities and I desire to express to them my profound appreciation of their interest in and attention to the work in which we are all engaged.

Respectfully submitted,

L. LEE GRAVELY,

*Chairman, Board of Directors.*

**REPORT OF THE SUPERINTENDENT**

*The Board of Directors of the North Carolina Sanatorium  
and of the Western North Carolina Sanatorium,*

MR. L. L. GRAVELY, *Chairman.*

Gentlemen:

Herewith is submitted the report of the North Carolina Sanatorium and of the Western North Carolina Sanatorium for the biennium ending June 30, 1940.

Separate statistical and financial reports are made of the North Carolina Sanatorium with its white, children, Negro and prison divisions and its extension department, and of the Western North Carolina Sanatorium, which is under the capable direction of the associate superintendent and medical director, Dr. S. M. Bittinger.

There has been a still further reduction in the tuberculosis mortality rate during the biennium. In 1937 the mortality rate from tuberculosis in North Carolina was 54.8 per 100,000, and in 1939 it was 51. Although North Carolina is a tuberculosis resort state and although the state has a 30% Negro population, in which the death rate is more than three times that of the white, the tuberculosis mortality rate for North Carolina was only 4.4 per 100,000 higher than the average for the United State.

Experience has shown that the control of tuberculosis depends first on early diagnosis and second on isolation and treatment of the active cases.

**EARLY DIAGNOSIS**

At both the North Carolina Sanatorium and the Western North Carolina Sanatorium diagnostic clinics are conducted daily except Sunday, and the extension department of the North Carolina Sanatorium keeps three clinic physicians in the field who work in coöperation with private physicians and with county, health, school and welfare authorities. Since school children under twelve years of age rarely have active tuberculosis, we have been limiting our school clinics to pupils twelve years of age and over and to those under twelve who have suspicious symptoms and to those who have been exposed to

known cases of active tuberculosis. The study of school and college students is made by giving the tuberculin test and by making X-ray films of the positive reactors. In recent years we have been able to get a number of the county health officers to give the tuberculin test themselves. Of the 121,911 school children and teachers studied during the biennium health officers gave the tuberculin tests to 87,145. We send our X-ray technicians from the North Carolina Sanatorium to make the X-ray films. They are brought back to the sanatorium for development and are read by our clinic physicians.

We use portable fluoroscopes in our adult clinics, and we find that practically all cases of tuberculosis, even those in the early, curable and non-contagious stage, can be detected by means of the fluoroscope. It is necessary to have only the suspicious and positive cases X-rayed, usually not more than one out of every ten or twelve examined. We are greatly pleased, too, that the State Board of Health has recently provided a number of the county health departments with modern stationary fluoroscopes for use both in connection with their chest and syphilitic clinics. We hope that arrangements can be made whenever these fluoroscopes are provided for a weekly tuberculosis clinic to be conducted by a local physician or by the county health officer. We have offered to train physicians in the use of the fluoroscope whenever it is not possible to secure the services of an experienced fluoroscopist locally and several have taken advantage of our offer.

The Rosenwald Fund, of which Dr. M. O. Bousfield is medical director, has also offered to pay the salary of local Negro physicians to conduct tuberculosis clinics twice a week wherever a fluoroscope is available and provided the county health department will sponsor the clinic. Durham county has already arranged for such a clinic at Lincoln hospital to be held one afternoon and one evening each week.

We have found the private physicians of the state, the county health officers and the school and welfare authorities most coöperative. The county health officers make the preliminary arrangements for our field clinics and they do the follow-up work. Private physicians have shown a readiness to avail themselves of the service which we provide for the interpretation of chest X-ray films. During the biennium at the two institutions physicians sent in 7,733 chest films for interpretation.

This has proven one of our most useful means of discovering early cases of tuberculosis.

Recently equipment has been brought forward for making miniature X-ray films of the chest. Both 4 x 5 inch and 35-millimeter size films are being used. The procedure consists in making a photograph of the fluoroscopic image of the chest, and the films are called fluorographs. When the equipment is improved and is produced in quantity it will mark a forward step in tuberculosis control, for with one machine a thousand or more X-ray films can be made a day at a small fraction of the present cost per film. At present, however, the equipment is too expensive and imperfectly developed to justify its purchase.

#### ADDITIONAL SANATORIUM BEDS FOR ISOLATION AND TREATMENT

During the biennium there has been encouraging progress in providing additional beds for the isolation and treatment of active cases both by the state and the counties. During March 1939 the Gravely wing for patients and the nurses home at the Western North Carolina Sanatorium, which were built with PWA help, were dedicated with appropriate ceremonies and with addresses by Mr. L. L. Gravely and by the Secretary of State, Mr. Thad Eure. The Gravely wing is a duplicate of the Raspberry wing and brings the total capacity of the Western North Carolina Sanatorium to 330. The new wing at the Negro division of the North Carolina Sanatorium for 100 beds, also built with PWA help, was opened last fall. During the biennium eight of the counties in the state have either built new county sanatoria or have added materially to their plants. A total of 226 beds have been added by counties during this two-year period, 172 of which were for Negroes.

Since it is impossible for patients with advanced tuberculosis in a crowded home to keep from infecting the other members of the family, it is very needful for all counties to have institutions of their own to which they can send their tuberculous patients who are not suitable for admission to the state sanatoria, or for their suitable patients while they are waiting for admission to the state institutions. Several of the other counties are seriously considering building county sanatoria in the near future.

The three State Hospitals for the Insane have also improved their facilities for caring for their tuberculous patients recently. They now have a combined capacity of 300 beds for tuberculous patients. With the 200 beds in private sanatoria North Carolina now has altogether 2,346 beds for tuberculosis. This is less than one and one-third beds per death. The National Tuberculosis Association and the United States Public Health Service have found that it is necessary to have at least two beds per death in order to control tuberculosis in a given community.

#### THE EASTERN NORTH CAROLINA SANATORIUM

During the 1939 session of the General Assembly, Senator C. W. Spruill and Senator T. W. M. Long introduced a bill for the establishment of the Eastern North Carolina Sanatorium with immediate provision for 175 patients and an eventual capacity of 350. With the valuable assistance of Hon. J. Melville Broughton, Mr. L. L. Gravely, Mr. R. E. Finch, Mr. E. A. Raspberry, Dr. Ralph McDonald and other loyal supporters the bill passed both in the Senate and in the House with hardly a dissenting vote. A provision was added, however, making the \$250,000 appropriation conditional on securing 45% of the construction cost from the federal government. It was planned to get help from the PWA, but shortly after the passage of the bill PWA was discontinued. We then applied to the WPA authorities to secure their assistance. Provision of a \$52,000 limitation on the amount contributed by the federal government for any one WPA project further complicated matters. The state WPA authorities have been most coöperative, however. They assisted us in arranging for five separate projects, approved the temporary plans and authorized detailed plans and specifications to be prepared. Mr. Walter W. Hook, our architect, now has these ready for submission to the WPA authorities. We trust that they will be approved and that work on the new institution can be begun in the near future.

The bill also provided for the appointment of a site committee consisting of three members, all of whom should reside in western North Carolina. Governor Hoey appointed Senator Joe L. Blythe, of Charlotte, as chairman, Mr. Odus M. Mull, of Shelby, as secretary, and Mr. L. L. Burgin, of Hendersonville, as the third member of the committee. It was gratifying



that almost every county in eastern North Carolina was anxious to have the institution and offered one or more sites to the committee. After visiting all sites offered, 100 or more altogether, and after making return visits with the superintendent of the sanatorium and the engineer of the Budget Bureau to several of the more favorable sites, the committee selected the site of 100 acres offered by Wilson. The site is located on a beautiful slope on the road to Rocky Mount and bordering on the city limits of Wilson. Public spirited citizens of Wilson contributed \$20,000 in cash for the purchase of the property and we now have a title to the property. The board of directors also secured an option on 24.8 additional acres adjoining the eastern border of the property at the very reasonable price of \$150.00 per acre. This option expires December 31, 1941.

After the Eastern North Carolina Sanatorium is built with its full quota of 350 beds, it is thought that it will probably not be necessary to ask the state to provide any additional beds. We will need, however, to continue to urge all counties either to provide a sanatorium of their own, or to join with one or more neighboring counties to provide an institution for their patients who are not suitable for treatment in state sanatoria until there are at least two beds per death.

#### TRAINING SCHOOL FOR NURSES

Our training schools for both white and Negro nurses supply a real need. There is a scarcity of nurses well-trained in tuberculosis work, and our graduates are always in great demand. Our training school for Negro nurses is one of only three such schools in the United States. The arrangement which we have had for some years for our white nurses to take their third year of training at the Moore County Hospital at Pinehurst and our Negro nurses to take their third year at Lincoln Hospital, Durham, continues to be quite satisfactory, and we greatly appreciate the coöperation of the authorities at these two hospitals. Miss Martha C. Newman, who had been our capable superintendent of nurses for our white training school for nine years, to our regret resigned last fall to go into private nursing, but we were fortunate to secure in her place Miss Eula Rackley, who has been serving most acceptably in her stead. We are greatly pleased over the fine recovery which Mrs. Carrie Broadfoot, our capable and long-time superin-

tendent of nurses at our Negro division, made from her serious accident last summer.

Our institution and the anti-tuberculosis cause in the state and nation sustained a great loss in the passing on last January 20th of Dr. M. L. Stevens, who had been a most active and valuable member of our board since 1935. He was a member of the building committee and chairman of the landscape committee of the Western North Carolina Sanatorium, and devoted much time and thought to promoting the interests of both sanatoria. He was a member of several of the more important state and national medical societies, he was greatly interested also in civic and religious affairs and was greatly beloved by all who knew him.

#### DONATIONS

We are grateful to the many friends of both institutions who have made generous donations of books, magazines, clothing, Christmas packages, and many other gifts. A list of these will be found in the body of the report of each institution. We are especially grateful to the Rosenwald Fund for paying the salary of one of our Negro resident physicians at North Carolina Sanatorium and to the Woman's Auxiliary of the Medical Society of the State of North Carolina for providing a free bed at the Western North Carolina Sanatorium in addition to the bed which they have been paying for at the North Carolina Sanatorium for many years. We wish also to make special mention of the generosity of Mrs. F. S. Terry, of Black Mountain, in providing a large amount of shrubbery and many valuable trees for the beautification of the grounds at our Western North Carolina Sanatorium.

I wish to express to each member of the board my sincere appreciation for your loyal and hearty support.

The various employees of both institutions have rendered faithful and loyal service. I am grateful to them all and especially to Dr. S. M. Bittinger, associate superintendent and medical director at the Western North Carolina Sanatorium, and to Dr. C. D. Thomas, assistant superintendent and associate medical director at North Carolina Sanatorium.

Respectfully submitted,

P. P. MCCAIN, *Superintendent,*  
*N. C. Sanatorium and Western N. C. Sanatorium*  
*and Director, Extension Department.*

NORTH CAROLINA SANATORIUM  
POPULATION MOVEMENT  
1938-1939

	TOTAL	WHITE ADULTS			WHITE CHILDREN			* NEGROES			Prisoners
		Men	Women	Total	Boys	Girls	Total	Men	Women	Total	
Patients in hospital at beginning of year.....	535	136	145	281	21	17	38	88	93	181	35
Admissions during year											
New admissions.....	616	159	172	331	29	26	55	92	102	194	36
Readmissions.....	80	25	35	60	0	2	2	5	7	12	6
Total admissions.....	696	184	207	391	29	28	57	97	109	206	42
Separations during year											
Apparently arrested.....	110	17	8	25	25	19	44	10	22	32	9
Quiescent.....	62	29	23	52	0	2	2	2	3	5	3
Improved.....	353	103	148	251	0	2	2	38	51	89	11
Unimproved.....	70	15	16	31	0	0	0	19	12	31	8
Died.....	68	6	11	17	0	0	0	26	19	45	6
Not tuberculous.....	31	5	5	10	3	1	4	8	6	14	3
Total separations.....	694	175	211	386	28	24	52	103	113	216	40
Patients in hospital at end of year.....	537	144	142	286	22	21	43	85	86	171	37
Average daily population.....	535										
Normal capacity.....	600										

\*—Includes Negro children as well as adults

NORTH CAROLINA SANATORIUM  
POPULATION MOVEMENT  
1938-39-40

	TOTAL	WHITE ADULTS			WHITE CHILDREN			*NEGROES			Prisoners
		Men	Women	Total	Boys	Girls	Total	Men	Women	Total	
Patients in hospital at beginning of year.....	537	144	142	286	22	21	43	85	86	171	37
Admissions during year											
New admissions.....	717	147	150	297	16	25	41	170	158	328	51
Readmissions.....	104	23	35	58	0	1	1	6	16	22	23
Total admissions.....	821	170	185	355	16	26	42	176	174	350	74
Separations during year											
Apparently arrested.....	203	14	9	23	12	18	30	59	64	123	27
Quiescent.....	67	29	23	52	2	5	7	1	2	3	5
Improved.....	241	86	124	210	3	2	5	8	11	19	7
Unimproved.....	64	12	13	25	0	0	0	5	9	16	23
Died.....	104	14	14	28	0	0	0	42	30	72	4
Not tuberculous.....	45	10	8	18	3	0	3	11	4	15	9
Total separations.....	724	165	191	356	20	25	45	130	118	248	75
Patients in hospital at end of year.....	634	149	136	285	19	21	40	130	143	273	36
Average daily population.....	585										
Normal capacity.....	650										

\*—Includes Negro children as well as adults.

**NORTH CAROLINA SANATORIUM  
SUMMARY OF TWO YEARS' WORK**

July 1, 1938-June 30, 1940

	1938-1939	1939-1940
Letters and postals received .....	18,987	18,605
Individual letters written .....	17,852	17,694
Mimeographed letters mailed .....	1,183	1,169
Mimeographed forms prepared .....	119	100
Number of copies mimeographed .....	36,899	13,163
Articles written (approximate number words)		
Press .....	15,750	8,300
SANATORIUM SUN .....	197,500	197,000
Copies SANATORIUM SUN mailed .....	213,250	205,300
Articles copied (approximate number words) .....	34,200	34,200
Articles copied (approximate number words) .....	99,880	2,780
Patients' histories written .....	643	769
Envelopes addressed .....	25,619	25,866
Enclosures sent out .....	13,827	12,898
Literature sent out .....	28,316	25,169
Sputum cups distributed .....	185,400	149,300
Tuberculin sent physicians .....	17,084	18,491
X-ray films sent in for interpretation .....	3,264	3,072
Operations		
Phrenic operations .....	181	224
Thoracoplasty .....	49	57
Pneumonolysis .....	12	7
Major operations .....	5	7
Minor operations .....	33	25
Blood transfusions .....	46	46
Bronchoscopy .....	53	17
Pneumothorax threathments .....	12,822	10,566
Pneumo-peritoneum .....	307	1,801
Oleothonax .....	22	150

**REPORT OF P. P. McCAIN M. D.**

	1938-1939	1939-1940
Days out of office .....	42	40
Addresses delivered .....	30	31
Number in audience .....	4,530	3,340

**NORTH CAROLINA SANATORIUM**  
**REPORT OF FIELD ADULT TUBERCULOSIS CLINICS**

			1938-1939	1939-1940	TOTAL
Number of addresses delivered.....			13	9	22
Total audience.....			45,280	20,160	56,440
	1938-1939	1939-1940			
New positive cases.....	1,132	795			
Previously diagnosed positive.....	1,151	1,310			
Probable.....	161	214			
Doubtful.....	103	97			
Negative.....	11,102	10,814			
			13,649	13,230	26,879
Number of white examinations.....	10,097	9,156			
Number of colored examinations.....	3,429	3,970			
Number of Indian examinations.....	123	104			
			13,649	13,230	26,879

**REPORT OF SCHOOL TUBERCULOSIS CLINICS**

Summary of Results of School Children's Tuberculosis Clinics Conducted by the Extension Department  
of the North Carolina Sanatorium in Co-operation with Local Health and School  
Authorities During School Sessions 1926-1940

**RESULTS OF TUBERCULIN TEST**

(0.1 cc. 1:1000 dilution O. T. intracutaneously)

	White	Colored	Indian	Total
Number given tuberculin test...	368,521	98,652	921	468,094
Number positive reactors.....	58,321 (13.1%)	20,837 (21.1%)	284 (30.8%)	79,442 (16.9%)

**RESULTS OF THE STUDY OF 64,470 POSITIVE TUBERCULIN REACTORS HAVING X-RAYS**

Number of reactors having X-rays of chest.....				64,470
Number reactors diagnosed as having tuberculosis.....			7,963	
White.....	5,533			
Colored.....	2,390			
Indian.....	40			
Primary tuberculosis.....	7,246			
Reinfection tuberculosis.....	501			
Primary and reinfection tuberculosis.....	173			
Extra-pulmonary.....	33			
Extra-pulmonary and reinfection.....	6			
Extra-pulmonary and primary.....	3			
Miliary tuberculosis.....	1			
Number of reactors classified as suspicious.....			4,641	
Number of reactors classified as having no demonstrable tuberculosis.....			51,866	

## REPORT OF SCHOOL TUBERCULOSIS CLINICS

Summary of Results of School Tuberculosis Clinics Conducted by the Extension Department of the North Carolina Sanatorium in Co-operation with Local Health and School Authorities During School Sessions 1938-1939 and 1939-1940

## RESULTS OF TUBERCULIN TEST

(0.1 cc. of 1:1000 dilution of O. T. intracutaneously)

	White	Colored	Total
Number given tuberculin test.....	89,396	32,515	*121,911
Number positive reactors.....	14,476 (16%)	7,043 (22%)	21,519 (18%)

\*87,145 of these were given tuberculin tests by local health officers, the X-rays and their interpretations were made by staff of Extension Department of North Carolina Sanatorium.

## RESULTS OF THE STUDY OF 14,660 REACTORS HAVING X-RAYS

RACE	Number Having X-rays	POSITIVE		SUSPICIOUS		NEGATIVE	
		Number	%	Number	%	Number	%
White.....	9,073	1,003	10.1	316	3.4	7,754	85.4
Negro.....	5,587	651	11.6	192	3.4	4,744	84.9
Total.....	14,660	1,654	11.2	508	3.5	12,498	83.8

Primary type lesions.....	1,521
Reinfection type lesions.....	116
Primary and reinfection type lesions.....	17
Total.....	1,654

## NORTH CAROLINA SANATORIUM

## WHITE DIVISION

## MEDICAL REPORT

July 1938-July 1940

## Statistical

	1938-1939	1939-1940	TOTAL
Number of patients to be reported on (discharged).....	376	338	714
Number not tuberculous.....	10	18	28
Number of patients in Sanatorium July 1.....	286	285	571
Total number of patients treated.....	672	641	1,313
Hospital days.....	101,689	103,439	205,128





NORTH CAROLINA SANATORIUM  
 PATIENTS WHO STAYED NINETY DAYS OR OVER  
 1938-1940

CONDITION ON ADMISSION	CONDITION ON DISCHARGE														
	1938-39		1939-40		Apparently Arrested		Quiescent		Improved		Unimproved		Died		
			1938-39	1939-40	1938-39	1939-40	1938-39	1939-40	1938-39	1939-40	1938-39	1939-40	1938-39	1939-40	
Minimal.....39	A	12	17	2	1	6	10	4	6						
	B	4	6	1	2	2	3	1	1						
	C	0	0												
Moderately advanced.....249	A	24	34	4	4	11	11	9	18				1		
	B	109	82	5	3	19	12	83	64	1	2	1	1		
	C	0	0												
Far advanced.....247	A	2	1			1		1	1						
	B	99	106	2	2	7	7	83	74	5	10	4	16		
	C	23	13					14	7	3	3	6	3		
Extra-pulmonary.....1													1		
Total.....536		273	263	12	12	46	43	195	171	9	16	11	21		
Total number of days.....	1938-39	Average stay.....		1938-39		1939-40		Longest stay.....				1938-39		1939-40	
		85,524	101,732			313.17	386.8					1,493	1,461		
Number gained weight.....	1938-39		1939-40		1938-39		1939-40				1938-39		1939-40		
Average gain.....	210	198	15.69	15.92	Number lost weight.....						31	29			
Stationary.....	13	3	Average loss.....		Not weighed.....						7.54	9.06			
											19	33			



**NORTH CAROLINA SANATORIUM**  
**TUBERCULOUS COMPLICATIONS**  
 1938-1940

Adenitis (cervical).....	6	Nephritis.....	6
Adenitis (tracheobronchial).....	7	Osteitis.....	2
Anal fistula.....	15	Otitis media.....	7
Cystitis.....	1	Peritonitis.....	3
Empyema.....	20	Pharyngitis.....	1
Enteritis.....	48	Pleural fistula.....	1
Epididymitis.....	3	Pleurisy with effusion.....	30
Hydro-pneumothorax (on admission).....	6	Pott's disease.....	2
Laryngitis.....	59	Pyo-pneumothorax.....	2
Meningitis.....	2	Spontaneous pneumothorax.....	6
Miliary tuberculosis.....	1	Tracheobronchitis.....	10

**NON-TUBERCULOUS COMPLICATIONS**

Adenoma thyroid.....	1	Ischio-rectal abscess.....	1
Amputation (arm).....	1	Lipoma.....	1
Anemia (secondary).....	11	Lues.....	9
Ankylosis.....	2	Mitral regurgitation.....	1
Appendicitis.....	2	Mitral stenosis.....	1
Arteriosclerosis.....	12	Myocarditis.....	3
Arthritis.....	14	Nasal polyp.....	1
Asthma (bronchial).....	4	Nephritis.....	8
Atrophy of testicle.....	2	Neurasthenia.....	3
Auricular fibrillation.....	2	Obesity.....	1
Blindness (partial).....	3	Otitis media.....	8
Bronchitis.....	2	Paralysis (partial).....	2
Carious teeth.....	135	Pediculosis pubis.....	2
Carcinoma.....	1	Pellagra.....	1
Cataract.....	3	Pes planus.....	1
Cirrhosis of liver.....	1	Pharyngitis.....	3
Cholecystitis.....	2	Phlebitis.....	1
Colitis.....	1	Pregnancy.....	1
Congenital deformity (hands and feet).....	1	Prostatitis.....	1
Conjunctivitis.....	1	Pilonidal sinus.....	1
Cystitis.....	2	Psychosis.....	1
Cystocele.....	1	Pulmonary embolus.....	1
Deafness (partial).....	5	Pyorrhea.....	64
Diabetes mellitus.....	5	Rectocele.....	1
Diseased tonsils.....	88	Retroversion of uterus.....	1
Dysmenorrhea.....	2	Rhinitis.....	19
Eczema.....	2	Sclerosis (spinal cord).....	1
Emphysema.....	1	Scoliosis.....	2
Epilepsy.....	2	Silicosis.....	1
Erosion of cervix.....	1	Sinus (abdominal).....	1
Fracture of coccyx.....	1	Sinusitis.....	5
Goitre.....	3	Stomatitis.....	2
Hemorrhoids.....	23	Strabismus.....	3
Hernia.....	12	Subdeltoid bursitis.....	1
Hookworm.....	15	Tapeworm infection.....	1
Hydrocele.....	1	Tumor (benign).....	1
Hypertension.....	23	Varicocele.....	4
Hypertrophied prostate.....	4	Varicose veins.....	2
Iethyosis.....	2		

**NORTH CAROLINA SANATORIUM  
OCCUPATIONS**

Baker.....	1	Lawyer.....	1
Barber.....	8	Librarian.....	1
Boarding house keeper.....	1	Linotype operator.....	1
Bookkeeper.....	3	Machinist.....	6
Brick mason.....	1	Mail clerk.....	1
Bus driver.....	1	Mechanic.....	4
Butcher.....	3	Merchant.....	1
Cafe operator.....	3	Metal smith.....	3
Cannery operator.....	1	Minister.....	3
Carpenter.....	7	Painter.....	4
Civil engineer.....	1	Physician.....	2
Clerk.....	30	Plumber.....	3
Contractor.....	2	Postal clerk.....	3
Cotton mill operator.....	85	Postmaster.....	1
Deputy collector.....	1	Printer.....	3
Deputy sheriff.....	1	Radio.....	1
Dietitian.....	1	Railway mail clerk.....	3
Druggist.....	1	Railroad shop operator.....	3
Electrician.....	2	Register of deeds.....	2
Engineer.....	1	Salesman.....	8
Express messenger.....	1	Seamstress.....	6
Farmer.....	118	Steam fitter.....	1
Federal employee.....	1	Stenographer.....	14
Filling station operator.....	6	Students.....	37
Factory (tobacco) operator.....	8	Teacher.....	4
Florist.....	1	Telephone manager.....	1
Graduate nurse.....	33	Telephone operator.....	1
Granite quarry.....	3	Theatre operator.....	1
Housework.....	236	Tobacco warehouseman.....	4
Insurance salesman.....	2	Truck driver.....	4
Laborer.....	17	Upholsterer.....	1
Laundryman.....	1	Waitress.....	2

NORTH CAROLINA SANATORIUM  
PATIENTS EXAMINED IN SANATORIUM CLINIC FOR DIAGNOSIS AND CONSULTATION

	CHILDREN				WHITE		COLORED		COLORED		PRISON		TOTAL			
	WHITE		COLORED		1938-39		1939-40		1938-39		1939-40		1938-39		1939-40	
	1938-39	1939-40	1938-39	1939-40	1938-39	1939-40	1938-39	1939-40	1938-39	1939-40	1938-39	1939-40	1938-39	1939-40	1938-39	1939-40
July.....	52	39	5	10	224	252	17	52	9	12	307	365				
August.....	28	71	7	18	274	311	39	45	6	12	354	457				
September.....	60	69	52	3	222	231	35	43	8	8	377	354				
October.....	34	23	11	11	269	237	32	84	2	5	348	304				
November.....	32	29	7	16	191	201	29	19	4	8	263	273				
December.....	25	19	0	2	215	203	14	24	6	9	260	257				
January.....	44	31	21	9	247	201	40	35	4	6	356	282				
February.....	42	20	8	14	198	178	33	26	9	7	290	245				
March.....	43	49	6	9	252	207	41	185	8	5	350	455				
April.....	45	42	28	12	286	260	63	43	5	6	427	363				
May.....	50	37	29	23	151	281	44	39	6	6	280	386				
June.....	21	45	16	13	335	234	54	61	6	9	432	362				
Total.....	476	474	190	140	2,864	2,796	441	656	73	97	4,044	4,163				

CLASSIFICATION

Positive diagnosis.....	32	26	19	10	263	211	91	87	36	63	441	307
Negative diagnosis.....	360	346	144	123	1,394	1,331	265	442	34	26	2,107	2,208
Re-examinations.....	84	102	27	7	1,207	1,254	85	127	3	8	1,406	1,498
Total.....	476	474	190	140	2,864	2,796	441	656	73	97	4,044	4,163

**NORTH CAROLINA SANATORIUM**  
**SUMMARY OF MEDICAL REPORT**  
 (White Division)

July 1, 1938-July 1, 1940

	1938-1939	1939-1940	Total
<b>Patients admitted</b>			
Minimal.....	53	48	101
Moderately advanced.....	162	143	305
Far advanced.....	167	154	321
Extra-pulmonary.....	0	1	1
Primary tuberculosis.....	2	0	2
Not tuberculous.....	7	9	16
<b>Total.....</b>	<b>391</b>	<b>355</b>	<b>746</b>
<b>Patients discharged</b>			
Apparently arrested.....	25	23	48
Quiescent.....	52	52	104
Improved.....	251	210	461
Unimproved.....	31	25	56
Died.....	17	28	45
<b>Total.....</b>	<b>376</b>	<b>338</b>	<b>714</b>

**NORTH CAROLINA SANATORIUM**  
**REPORT OF X-RAY LABORATORY**  
 (All Divisions)

July 1, 1938-June 30, 1940

	White	Colored	Prison	Total
Stereoroentgenograms of chest Sanatorium patients.....	1,034	561	76	1,671
Stereoroentgenograms of chest Sanatorium clinic patients.....	252	35	0	287
Double Roentgenograms of chest Sanatorium patients.....	81	41	0	122
Double Roentgenograms of chest Sanatorium clinic patients.....	269	163	0	432
Double Roentgenograms of chest children's clinics.....	4,364	2,345	0	6,709
Single Roentgenograms of chest Sanatorium patients.....	1,768	627	170	2,565
Single Roentgenograms of chest Sanatorium clinic patients.....	1,748	296	21	2,065
Single Roentgenograms of chest children's clinics.....	161	398	0	559
Single Roentgenograms of chest adult clinics.....	6,379	3,111	0	9,490
Miscellaneous X-rays.....	632	136	33	801
<b>Total.....</b>	<b>16,688</b>	<b>7,713</b>	<b>300</b>	<b>24,701</b>
X-ray treatments.....	61	129	8	198

## NORTH CAROLINA SANATORIUM

## LABORATORY REPORT

(All Divisions)

July 1, 1938-June 30, 1940

	White	Colored	Prison	Total
Sputanalyses				
Micro.....	7,314	3,858	648	11,820
Chem.....	1,708	827	97	2,632
Total.....	9,022	4,685	745	14,452
Urinalyses				
Micro.....	1,698	770	123	2,591
Chem.....	3,402	766	123	4,291
Total.....	5,100	1,536	246	6,882
Blood				
W. B. C.....	1,119	621	117	1,857
R. B. C.....	1,078	651	113	1,842
Hemoglobin.....	1,081	645	113	1,839
C. I.....	953	606	113	1,672
Differential.....	1,067	609	117	1,793
Kline.....	988	889	119	1,996
Wassermann.....	33	45	7	85
Malaria.....	52	4	2	58
Urea.....	1	0	0	1
Type.....	26	30	0	56
Coagulation.....	49	32	1	82
Sedimentation.....	25	1	0	26
Sugar.....	84	5	0	89
Undulant fever.....	2	0	0	2
Blood chemistry.....	3	0	0	3
Culture.....	16	1	0	17
Widal.....	2	0	0	2
Laughlen.....	4	1	0	5
N. P. N.....	1	1	0	2
Platelet.....	1	0	0	1
Agglutination.....	6	0	0	6
Total.....	6,591	4,141	702	11,434
Feces.....	1,038	573	107	1,718
Phthalein.....	2	4	0	6
Gastric.....	25	6	1	32
Pleural fluid.....	369	86	12	476
B. M. R.....	16	5	0	21
Bacteriological.....	180	372	14	566
Vital capacity.....	69	38	3	110
Abdominal fluid.....	2	0	0	2
Autopsy.....	8	46	3	57
Guinea pig inoculation.....	1	5	0	6
Guinea pig autopsy.....	14	4	0	18
Spinal fluid.....	8	2	3	13
Pleural fluid culture.....	80	7	2	89
Friedmann's test.....	1	0	0	1
Stomach washings.....	0	3	0	3
Total.....	1,813	1,151	145	3,109
Milk: Bacterial count.....				22
Total examinations and tests.....				35,899

**NORTH CAROLINA SANATORIUM**  
**PERSONS FROM WHOM DONATIONS WERE RECEIVED**

*Books and Magazines:*

Mrs. N. S. Hurd, Pinehurst  
Junior Chamber of Commerce, Southern Pines  
Pinehurst Incorporated, Pinehurst  
Mr. C. C. Cranford, Asheboro  
Mrs. Alline Jeffords, Pikeville  
Mrs. R. B. Lawson, Chapel Hill  
Carey Newton Sunday School Class, First Baptist Church, Goldsboro  
American Bible Society, Richmond, Va.  
Mrs. Coy Collins, Raleigh

*Flowers:*

Ladies' Auxiliary, Hillsboro Presbyterian Church, Hillsboro  
Mr. C. A. Ballentine, Varina  
Mr. and Mrs. E. M. Harris, Aberdeen

*Miscellaneous:*

Pinehurst School Junior Red Cross, Pinehurst  
Mrs. J. A. Bizzell, Chapel Hill  
Mr. J. M. Gibson, Montgomery, Ala.  
Mrs. Franklin, New York  
Mr. Alexander Weinstein, Raleigh

*Cash Donations:*

Mr. S. Donald Sherrerd, Pinehurst  
Miss Mingle, State Board of Health, Raleigh



NORTH CAROLINA SANATORIUM  
CHILDREN'S DIVISION  
MEDICAL REPORT

Statistical

	1932-1939	1939-1940	Total
Number of patients to be reported on (discharged).....	48	42	90
Number not tuberculous.....	4	3	7
Number of patients in Sanatorium July 1.....	43	40	83
Total number of patients treated.....	95	85	180

SUMMARY MEDICAL REPORT

	1938-1939	1939-1940	Total
Patients admitted			
Reinfection type tuberculosis.....	16	11 <sub>f</sub>	27
	1938-1939	1939-1940	
Minimal.....	9	10	
Moderately advanced.....	7	1	
Far advanced.....	0	0	
Primary tuberculosis.....	41	30	71
Not tuberculous.....	0	1	1
Total.....	57	41	98
Patients discharged			
Apparently healed.....	44	30	74
Apparently inactive.....	2	7	9
Improved.....	2	5	7
Total.....	48	42	90

## SEX AND AGE

	1938-1939	1939-1940	Total
Sex			
Male .....	25	17	42
Female .....	23	25	48
Total .....	48	42	90
Age			
22 months to 9 years .....	15	16	31
10 to 18 years .....	33	26	59
Total .....	48	42	90

## TUBERCULOUS COMPLICATIONS

Adentis (tracheobronchial) .....	14	Pleurisy with effusion .....	1
Osteitis of tibia .....	1		

## NON-TUBERCULOUS COMPLICATIONS

Bronchitis (chronic) .....	1	Paralysis (facial) .....	1
Cariou teeth .....	12	Pediculosis .....	2
Diseased tonsils .....	20	Phinosis .....	2
Dwarf tapeworm .....	1	Pneumonitis .....	1
Heart disease .....	1	Scabies .....	2
Hookworm disease .....	5	Secondary anemia .....	1
Lues .....	1	Round worm infection .....	1
Otitis media .....	2		

## NORTH CAROLINA SANATORIUM

## NEGRO DIVISION

## MEDICAL REPORT

## Statistical

	1938-1939	1939-1940	Total
Number of patients to be reported on (discharged) .....	202	233	435
Number not tuberculous .....	14	15	29
Number of patients in Sanatorium July 1 .....	171	273	444
Total number of patients treated .....	387	521	908
Hospital days .....	64,591	77,476	142,067

NORTH CAROLINA SANATORIUM  
PATIENTS WHO STAYED LESS THAN NINETY DAYS

CONDITION ON ADMISSION	CONDITION ON DISCHARGE															
	1938-39		1939-40		Apparently Arrested		Quiescent		Improved		Unimproved		Died			
	1938-39	1939-40	1938-39	1939-40	1938-39	1939-40	1938-39	1939-40	1938-39	1939-40	1938-39	1939-40	1938-39	1939-40		
Minimal.....10	A 5 B 1 C 0	A 3 B 1 C 0	1	1	5	1					1			1		
Moderately advanced.....13	A 3 B 1 C 0	A 2 B 7 C 0	1	1	3	1			1		2					
Far advanced.....55	A 1 B 11 C 18	A 1 B 7 C 17	1	1	1	6			1		2		1	1		
Primary tuberculosis.....15	5	10	1	10	4											
Total.....93	45	48	2	17	21	2	0	2	2	11	5		11	22		
Total number of days.....	1,985	1,767	Average stay.....		44		36.81		Shortest stay.....				1	2		
													8	2		
Number gained weight..... Average gain..... Stationary.....	1938-39		1939-40		1938-39		1939-40		1938-39		1939-40		1938-39		1939-40	
	21	14	5.42	3.9	0	4	Number lost weight.....		12		11		7.48		6.6	
	0	4			Average loss.....		Not weighed.....		12		19		7.48		6.6	

NORTH CAROLINA SANATORIUM  
PATIENTS WHO STAYED NINETY DAYS OR OVER  
1938-1940

CONDITION ON ADMISSION		CONDITION ON DISCHARGE														
		1938-1939		1939-40		Apparently Arrested		Quiescent		Improved		Unimproved		Died		
						1938-39	1939-40	1938-39	1939-40	1938-39	1939-40	1938-39	1939-40	1938-39	1939-40	
Minimal.....	26	A	10	A	10	4	10			5						
		B	1	B	5	1	5									
		C	0	C	0											
Moderately advanced.....	74	A	13	A	9	2	8			9	1			2		
		B	21	B	30	8	25	1		10	3	1		1	2	
		C	1	C	0										1	
Far advanced.....	204	A	0	A	2		2									
		B	58	B	90	4	40	4	1	23	12	10	9	17	28	
		C	29	C	25	2	2			6	1	9	2	12	20	
Primary tuberculosis.....	38					5	14			14				1		
		Total.....	157	185	30	106	5	1	68	17	20	11	34	50		
Total number of days.....		1938-39	1939-40		1938-39		1939-40		1938-39		1939-40		1938-39		1939-40	
		54,591	64,263		347.7		347.5		Longest stay.....				1,249		1,217	
Number gained weight.....		1938-39	1939-40		1938-39		1939-40		1938-39		1939-40		1938-39		1939-40	
		104	113		Number lost weight.....								19		27	
Average gain.....		15.75	15.06		Average loss.....								14.75		9.5	
		2	6		Not weighed.....								32		39	



**NORTH CAROLINA SANATORIUM**  
**OCCUPATIONS**  
**1938-1940**

Barber .....	2	Mechanic .....	2
Bookkeeper .....	1	Mill work .....	3
Butler .....	1	Minister .....	1
Carpenter .....	2	Musician .....	1
Chauffeur .....	5	Nurse .....	2
Clerk .....	2	Orderly .....	2
Cook .....	14	Painter .....	1
Dry cleaner .....	3	Porter .....	1
Farmer .....	110	Seamstress .....	1
Filling station .....	4	Secretary .....	1
Furniture factory .....	2	Shoe shine .....	1
Granite quarry .....	2	Student .....	106
Hotel boy .....	2	Student nurse .....	2
Housework .....	85	Teacher .....	5
Janitor .....	3	Tobacco factory .....	9
Laborer .....	45	Truck driver .....	3
Laundress .....	3	Undertaker .....	1
Maids .....	4	Waiter .....	3

**NORTH CAROLINA SANATORIUM**  
**TUBERCULOUS COMPLICATIONS**  
**1938-1940**

Adenitis (cervical) .....	10	Meningitis .....	1
Adenitis (tracheobronchial) .....	24	Osteitis .....	5
Empyema .....	7	Otitis media .....	6
Enteritis .....	39	Peritonitis .....	9
Epididymitis .....	1	Pleurisy with effusion .....	28
Isechio-rectal abscess .....	16	Pott's disease .....	2
Keratitis .....	1	Scrofula .....	4
Laryngitis .....	54	Tuberculoma of the brain .....	1

**NON-TUBERCULOUS COMPLICATIONS**

Abdominal sinus .....	1	Iritis .....	1
Alopecia .....	1	Kyphosis (dorsal) .....	1
Amputation (leg) .....	1	Laceration of cervix .....	9
Anemia (secondary) .....	4	Measles .....	1
Anemia sickle cell .....	1	Mastoiditis .....	1
Arthritis .....	1	Myocarditis .....	1
Arteriosclerosis .....	2	Nasal polyp .....	1
Asthma .....	1	Nephritis .....	4
Carious teeth .....	144	Osteoma femur .....	1
Cystocele .....	2	Otitis media .....	2
Deafness (partial) .....	5	Peptic ulcer .....	2
Decubitus ulcer .....	3	Pharyngitis .....	1
Diseased tonsils .....	93	Phimosis .....	1
Endocarditis .....	8	Phlebitis .....	1
Epilepsy .....	1	Pregnancy .....	3
Erosion of cervix .....	3	Psychosis .....	1
Goitre .....	12	Pulmonary embolus .....	1
Harelip .....	1	Pyodermia .....	1
Hemorrhoids .....	18	Pyorrhea .....	77
Hernia .....	7	Syphilis .....	42
Hook worm .....	3	Tenia saginata .....	2
Hypertension .....	5	Varicose veins .....	1
Inguinal adenitis .....	1		

## NORTH CAROLINA SANATORIUM

## SUMMARY MEDICAL REPORT

(Negro Division)

	1938-1939	1939-1940	Total
Patients admitted			
Minimal.....	53	26	79
Moderately advanced.....	162	56	218
Far advanced.....	167	221	388
Extra-pulmonary.....	1	0	1
Primary tuberculosis.....	2	32	34
Not tuberculous.....	7	14	21
Total.....	391	350	741
Patients discharged			
Apparently arrested.....	32	123	155
Quiescent.....	5	3	8
Improved.....	89	19	108
Unimproved.....	31	16	47
Died.....	45	72	117
Total.....	202	233	435

## PERSONS FROM WHOM DONATIONS WERE RECEIVED

Mrs. W. C. Fownes, Jr., Pinehurst  
 Mrs. Robert C. Dye, Fayetteville  
 Iredell County School Teachers, Statesville  
 Lend-A-Hand Book Mission, Boston, Mass.  
 Mrs. Mary C. Holliday, Statesville  
 Miss Mary Phillips, Aberdeen  
 Mr. S. B. Chapin, Myrtle Beach, S. C.  
 Mrs. F. L. Terry, Black Mountain  
 Mrs. W. C. Andrews, Southern Pines  
 Moore County Ladies' Auxiliary, Southern Pines  
 Mr. P. T. Kelsey, Southern Pines  
 Miss Bair, Southern Pines  
 Mrs. Frankie Cameron, Southern Pines  
 Miss Gladys Hussey, Southern Pines  
 Miss Barbara Backer, Southern Pines  
 Mrs. P. L. Kirk, Southern Pines

## NORTH CAROLINA SANATORIUM

## PRISON DIVISION

## MEDICAL REPORT

	1938-1939	1939-1940	Total
Number of patients to be reported on (discharged) .....	37	66	103
Number not tuberculous .....	3	9	12
Number of patients in Sanatorium July 1 .....	37	36	73
Total number of patients treated .....	77	111	188
Hospital days .....	13,705	14,861	28,566

## SUMMARY MEDICAL REPORT

	1938-1939	1939-1940	Total
<b>Patients admitted</b>			
Minimal .....	1	7	8
Moderately advanced .....	10	25	35
Far advanced .....	24	34	58
Extra-pulmonary .....	0	1	1
Primary type tuberculosis .....	0	1	1
Not tuberculous .....	7	4	11
Total .....	42	72	114
<b>Patients discharged</b>			
Apparently arrested .....	9	27	36
Quiescent .....	3	5	8
Improved .....	11	7	18
Unimproved .....	8	23	31
Died .....	6	4	10
Total .....	37	66	103

72  
36



## THE NORTH CAROLINA SANATORIUM

## Revenue and Expenditures

## EXTENSION FUND

For the Two Years Ended June 30, 1939-40

	Fiscal Year 1938-1939	Fiscal Year 1939-1940
Revenue		
Appropriation .....	\$ 24,769.00	\$ 25,370.00
Institutional receipts .....	49.75	56.00
Total revenue .....	\$ 24,845.75	\$ 25,426.00
Expenditures		
Salaries and wages .....	\$ 16,051.26	\$ 14,542.92
Supplies and materials .....	551.59	602.36
Postage, telephone and telegraph .....	845.80	893.32
Travel expense .....	4,675.61	4,947.41
Printing and binding .....	1,557.43	1,187.56
Equipment .....	600.95	1,782.13
	\$ 24,282.64	\$ 23,955.70
Unexpended balance .....	\$ 563.11	\$ 1,470.39

## THE NORTH CAROLINA SANATORIUM

## Revenue and Expenditures

## MAINTENANCE FUND

	Fiscal Year 1938-1939	Fiscal Year 1939-1940
Revenue		
Appropriation .....	\$ 211,431.00	\$ 201,917.00
Institutional receipts .....	101,384.86	110,928.31
Fire loss .....	14,396.87	
Transfer .....	1,800.00	
Total revenue .....	\$ 329,012.73	\$ 312,845.31
Expenditures		
Administration .....	\$ 13,125.13	\$ 13,040.32
Professional care .....	57,735.12	60,478.12
Custodial care .....	145,019.45	149,710.78
Operation of plant .....	25,867.06	28,732.98
Maintenance of plant .....	19,901.94	16,351.15
Agriculture .....	35,837.91	37,362.89
Additions and betterments .....	12,684.64	1,457.20
	\$ 310,271.25	\$ 307,133.44
Unexpended balance .....	\$ 18,741.48	\$ 5,711.87

**THE NORTH CAROLINA SANATORIUM**  
**AVERAGE POPULATION AND MAINTENANCE PER CAPITA COST**  
**For the Two Years Ended June 30, 1939-1940**

	Fiscal Year 1938-1939	Fiscal Year 1939-1940
Administration.....	\$ 24.63	\$ 22.29
Professional care and treatment.....	108.31	103.39
Custodial care.....	272.08	255.90
Operation of plant.....	48.72	49.12
Maintenance of plant.....	37.34	27.95
Agriculture.....	67.24	63.87
Additions and betterments.....	23.80	2.48
<b>Totals.....</b>	<b>\$ 582.12</b>	<b>\$ 525.00</b>
From appropriation.....	\$ 361.52	\$ 335.38
From own receipts.....	220.60	189.62
<b>Average number of patients.....</b>	<b>533</b>	<b>585</b>

**WESTERN NORTH CAROLINA SANATORIUM**  
**POPULATION MOVEMENT**  
**1938-1939**

	WHITE ADULTS			
	Total	Men	Women	Total
1. Patients in hospital at beginning of year.....	126	64	62	126
Admissions during year				
New admissions.....	367	164	203	367
Readmissions.....	2	0	2	2
Transfers from Eastern Sanatorium.....	11	6	5	11
Total admissions.....	380	170	210	380
Separations during year				
Apparently arrested.....	7	2	5	7
Quiescent.....	53	22	31	53
Improved.....	83	39	44	83
Unimproved.....	33	18	15	33
Died.....	12	10	2	12
Not classified.....	4	3	1	4
Not tuberculous.....	23	13	10	23
Total separations.....	215	107	108	215
Patients in hospital at end of year.....	291	127	164	291
Average daily population.....				184
Normal capacity.....				300*

\*—Capacity 300 at end of June 1939 after opening of New Wing in February, 1939.

## WESTERN NORTH CAROLINA SANATORIUM

## POPULATION MOVEMENT

1939-1940

	WHITE ADULTS			
	Total	Men	Women	Total
Patients in hospital at beginning of year .....	302	136	166	302
Admissions during year				
New admissions .....	313	129	184	313
Readmissions .....	13	8	5	13
Transfers from Eastern Sanatorium .....	18	6	12	18
Total admissions .....	344	143	201	344
Separations during year				
Apparently arrested .....	9	1	8	9
Quiescent .....	102	32	70	102
Improved .....	143	65	78	143
Unimproved .....	28	14	14	28
Died .....	21	10	11	21
Not classified .....	0	0	0	0
Not tuberculous .....	30	13	17	30
Total separations .....	333	135	198	333
Patients in hospital at end of year .....	302	136	166	302
Average daily population .....				297
Normal capacity .....				300

## WESTERN NORTH CAROLINA SANATORIUM

## SUMMARY OF TWO YEARS' WORK

July 1, 1938-June 30, 1940

	1938-1939	1939-1940
Letters and postals received .....	7,217	8,313
Individual letters written .....	8,996	10,844
Articles copied (approximate number of words) .....	4,950	15,250
Patients' histories written .....	316	279
Approximate number of words in patients' histories .....	473,000	418,500
Envelopes addressed .....	10,295	11,637
Enclosures sent out .....	1,960	850
Literature sent out .....	499	376
Sputum cups distributed .....	9,900	15,350
Tuberculin sent to physicians .....	4,440	2,010
X-ray films sent for interpretation .....	597	800
<b>Operations</b>		
Report of phrenic operations .....	143	168
Report of pneumolyses .....	3	8
Report of thoracoplasties .....	66	88
Report of thoracotomies .....	1	0
Lobectomy .....	1	0
Pneumonectomy .....	0	1
Rib resection and drainage .....	2	1
Appendectomy .....	2	8
Bronchoscopy .....	36	78
Major .....	15	11
Minor .....	5	53
Blood transfusions .....	4	9

## REPORT OF DR. S. M. BITTINGER, M. D.

	1938-1939	1939-1940
Days out of office .....	31	35
Addresses delivered .....	4	3
Number in audience .....	480	200

**WESTERN NORTH CAROLINA SANATORIUM**  
**REPORT OF TUBERCULOSIS CLINICS—X-RAY**

	1938-1939			1939-1940		
	White	Colored	Total	White	Colored	Total
Childhood type positive.....	32	5	37	126	0	126
Childhood type (suspicious).....	14	1	15	33	3	36
Adult and childhood type (healed).....	2	2	4	1	0	1
Adult type positive.....	0	1	1	1	0	1
Adult type (suspicious).....	0	0	0	0	4	4
Negative.....	173	19	192	528	31	559
<b>Total.....</b>	<b>221</b>	<b>28</b>	<b>249</b>	<b>689</b>	<b>38</b>	<b>727</b>

**MEDICAL REPORT**

Statistical

	1938-1939	1939-1940	Total
Number of patients to be reported on (discharged).....	215	333	548
Number not classified.....	4	0	4
Number not tuberculous.....	23	30	53
Number of patients in Sanatorium July 1st.....	291	302	593
<b>Total number of patients treated.....</b>	<b>533</b>	<b>665</b>	<b>1,198</b>
Hospital days.....	67,032	108,779	175,811

**WESTERN NORTH CAROLINA SANATORIUM**

**HISTORY OF HEMORRHAGE**

	1938-39	1939-40	Total	
Negative.....	129	189	318	
Positive {	Previous.....	76	137	213
	Previous and during residence.....	9	7	16
	During residence only.....	1	0	1

**RESULT OF SPUTUM EXAMINATIONS**

	1938-39	1939-40	Total
Negative or no sputum.....	80	114	194
Positive			
On admission.....	24	53	77
During residence.....	8	9	17
On discharge.....	1	3	4
On admission and during residence.....	29	57	86
During residence and on discharge.....	3	6	9
On admission, during residence and on discharge.....	70	91	161

## WESTERN NORTH CAROLINA SANATORIUM

## SEX, AGE AND CIVIL CONDITION

1938-39

SEX	AGE—1938-39						CIVIL CONDITION				
	12-19	20-29	30-39	40-49	50-59	60-65	Single	Married	Widowed	Divorced	
Male.....	107										
Female.....	108										
Total.....	215	16	76	77	24	15	7	54	153	6	2

1939-40

SEX	AGE—1939-40						CIVIL CONDITION				
	13-19	20-29	30-39	40-49	50-59	60-67	Single	Married	Widowed	Divorced	
Male.....	133										
Female.....	200										
Total.....	333	29	112	110	53	23	6	87	229	15	2

## WESTERN NORTH CAROLINA SANATORIUM

## SUMMARY OF MEDICAL REPORT

July 1, 1938 to June 30, 1940

	1938-39	1939-40	Total
Patients admitted			
Minimal.....	9	16	25
Moderately advanced.....	114	106	220
Far advanced.....	230	189	419
Childhood tuberculosis.....	1	1	2
Extra-pulmonary.....	0	1	1
Not tuberculous.....	10	7	17
Not classified.....	16	24	40
Total.....	380	344	724
Patients discharged			
Apparently arrested.....	7	9	16
Quiescent.....	53	102	155
Improved.....	83	143	226
Unimproved.....	33	28	61
Died.....	12	21	33
Not tuberculous.....	23	30	53
Not classified.....	4	0	4
Total.....	215	333	548

**WESTERN NORTH CAROLINA SANATORIUM****CLASSIFICATION OF VARIOUS TYPES OF NON-TUBERCULOUS  
CASES—1938-1940**

1. Arteriovenous aneurism (femoral artery and vein) .....	1
2. Bronchiectasis .....	16
3. Bronchopneumonia .....	1
4. Empyema (chronic) .....	1
5. Lung abscess .....	4
6. Pleurisy with effusion .....	1
7. Pneumonitis .....	10
8. Pneumonitis (suppurative) .....	1
9. Pulmonary fibrosis (chronic) .....	2
10. Pulmonary malignancy (metastatic sarcoma, probable) .....	1
11. Silicosis .....	4
12. Spontaneous pneumothorax (non-tuberculous) .....	1
13. Tracheobronchial tuberculosis (healed) .....	3
14. No pulmonary disease of any kind .....	7
<b>TOTAL</b> .....	<b>53</b>

WESTERN NORTH CAROLINA SANATORIUM  
PATIENTS WHO STAYED LESS THAN NINETY DAYS  
1938-1940

CONDITION ON ADMISSION	CONDITION ON DISCHARGE													
	1938-39		1939-40		Apparently Arrested		Quiescent		Improved		Unimproved		Died	
	1938-39	1939-40	1938-39	1939-40	1938-39	1939-40	1938-39	1939-40	1938-39	1939-40	1938-39	1939-40	1938-39	1939-40
Minimal.....	10		A 4 B 3 C 0	2 1	1	1	1	1	1					
Moderately advanced.....	54		A 6 B 19 C 0	6 23 0	1 2	1 2	4 13	3 18	1 3	2 3			1	
Far advanced.....	80		A 0 B 22 C 21	0 21 16	0		0							
Total.....	144		72	72	3	3	3	5	34	40	26	20	6	4
Non-tuberculous.....	50		22	28					10	16	10	4	2	1
Not classified.....	4		4	0					6	2	12	11	3	3
Total.....	198		98	100										
Total number of days.....	3,733		3,905		Average stay.....		38.09	39.05	Shortest stay.....				1	1
Number gained weight.....	45		45		Number lost weight.....		Not weighed						21	23
Average gain.....	5.04		6.25		Average loss.....		Not weighed						3.4	5.1
Stationary.....	4		7										28	25





## WESTERN NORTH CAROLINA SANATORIUM

## REPORT OF X-RAY LABORATORY

July 1, 1938 to June 30, 1940

	White	Colored	Total
Stereoroentgenograms of chest Sanatorium patients .....	714	-----	714
Stereoroentgenograms of chest Sanatorium clinic patients .....	58	-----	58
Stereoroentgenograms of chest children's clinics .....	5	-----	5
Double Roentgenograms of chest Sanatorium patients .....	5	-----	5
Double Roentgenograms of chest Sanatorium clinic patients .....	18	4	22
Double Roentgenograms of chest children's clinics .....	648	-----	648
Single Roentgenograms of chest Sanatorium patients .....	1,865	-----	1,865
Single Roentgenograms of chest Sanatorium clinic patients .....	1,157	111	1,268
Single Roentgenograms of chest children's clinics .....	442	3	445
Single Roentgenograms of chest adult clinics .....	463	29	492
Miscellaneous X-rays .....	262	4	266
X-ray reprints .....	26	-----	26
Total .....	5,663	151	5,814
Treatments .....	45	-----	45

## WESTERN NORTH CAROLINA SANATORIUM

## LABORATORY REPORT

July 1, 1939 to June 30, 1940

	White	Colored	Total
<b>Sputanalyses</b>			
Micro. ....	5,103		5,103
Chem. ....	1,139		1,139
Total .....	6,242		6,242
<b>Urinalyses</b>			
Micro. ....	1,826		1,826
Chem. ....	3,551		3,551
Total .....	5,377		5,377
<b>Blood</b>			
W. B. C. ....	1,326		1,326
R. B. C. ....	1,207		1,207
Hemoglobin .....	1,181		1,181
Color index .....	1,154		1,154
Differential count .....	1,291		1,291
Kline .....	1,104	77	1,181
N. P. N. ....	127		127
Laughlen .....	17		17
Urea .....	3		3
Typing .....	332		332
Bleeding and coagulation .....	6		6
Sedimentation index .....	1,857		1,857
Icterus index .....	2		2
Blood sugar .....	15		15
Vandenbergh .....	1		1
Vital capacity .....	312		312
Total .....	9,935		10,012
<b>Feces</b>			
Phthalein .....	1,012		1,012
Gastric .....	91		91
Pleural fluid .....	7		7
Pleural and spinal fluid .....	152		152
B. M. R. ....	10		10
Bacteriological smears .....	33		33
Gram stain .....	357		357
Autogenous vaccines .....	4		4
Cultures .....	3		3
Autopsies .....	511		511
Total .....	14		14
Total .....	2,194		2,194
Total examinations and tests .....			23,825

## WESTERN NORTH CAROLINA SANATORIUM

## PATIENTS EXAMINED IN SANATORIUM CLINIC FOR DIAGNOSIS AND CONSULTATION

July 1, 1939 to June 30, 1940

	CHILDREN		WHITE		COLORED		TOTAL	
	1938-39	1939-40	1938-39	1939-40	1938-39	1939-40	1938-39	1939-40
July.....	19	38	107	203	0	3	126	244
August.....	16	37	104	236	0	4	120	277
September.....	24	46	111	218	1	6	136	270
October.....	27	25	124	127	2	21	153	173
November.....	12	59	98	196	1	11	111	266
December.....	20	32	89	123	3	2	112	157
January.....	21	8	138	90	8	2	167	100
February.....	17	31	150	159	7	12	174	202
March.....	42	34	136	185	21	15	199	234
April.....	37	41	149	218	3	9	189	268
May.....	40	57	171	295	7	15	218	367
June.....	39	21	237	134	8	8	284	163
Total.....	314	429	1,614	2,184	61	108	1,989	2,721

## CLASSIFICATION

Positive diagnosis.....	25	11	153	136	13	22	191	169
Negative diagnosis.....	247	353	987	1,353	43	57	1,277	1,763
Re-examinations.....	42	65	474	695	5	29	521	789
Total.....	314	429	1,614	2,184	61	108	1,989	2,721

## WESTERN NORTH CAROLINA SANATORIUM

### OCCUPATIONS—1938-1940

Auditor .....	1	Miner .....	6
Baker .....	1	Nurse .....	10
Barber .....	4	Office work .....	1
Beautician .....	1	Painter .....	1
Bookkeeper .....	1	Plumber .....	1
Carpenter .....	4	Postal clerk .....	1
Cashier .....	1	Produce grader .....	1
Clerk .....	10	Prison guard .....	1
Conductor .....	1	Refinisher .....	1
Contractor .....	1	Real estate dealer .....	1
Construction work .....	2	Reporter .....	2
Cook .....	1	Salesman .....	14
Dentist .....	1	Saw mill worker .....	1
Dry cleaner .....	2	Seamstress .....	1
Dye plant worker .....	1	Service station work .....	3
Electrician .....	6	Stenographer .....	5
Farmer .....	67	Stone worker .....	2
First-aid attendant .....	1	Student .....	21
Gift shop .....	1	Tanner .....	1
Grocer .....	1	Taxidermist .....	1
Housework .....	174	Teacher .....	9
Laborer .....	10	Telephone operator .....	1
Lather .....	1	Textile .....	84
Laundryman .....	1	Truck driver .....	5
Lawyer .....	2	Upholsterer .....	1
Machinist .....	4	Waiter .....	5
Mechanic .....	6	W. P. A. ....	3
Merchant .....	2		

### TUBERCULOUS COMPLICATIONS

Adenitis (cervical) .....	4	Miliary tuberculosis of throat .....	1
Anal fistula .....	16	Nephritis .....	6
Ankylosis .....	1	Obliterative pleuritis .....	1
Bronchial fistula .....	2	Oleoathorax .....	1
Cold abscess .....	2	Otitis media (chronic) .....	6
Draining sinus .....	1	Peri-anal fistula .....	1
Empyema .....	4	Peritonitis .....	2
Enteritis .....	23	Pharyngitis .....	4
Hydropneumothorax .....	14	Pleurisy with effusion .....	22
Hydrothorax (obliterative) .....	3	Pleurisy (fibrinous) .....	1
Interstitial keratitis .....	1	Pott's disease .....	1
Ischiorectal abscess (with fistula) .....	2	Pyopneumothorax .....	7
Laryngitis .....	44	Spontaneous pneumothorax .....	11
Meningitis .....	2	Tracheobronchial tuberculosis .....	11
		Tuberculous pneumonia .....	1

## NON-TUBERCULOUS COMPLICATIONS

Acne .....	12	Kyphosis .....	4
Acute appendicitis .....	4	Laceration of perineum .....	25
Adenoma .....	5	Lipoma .....	1
Adentia .....	13	Lupus .....	1
Anal Fissure .....	1	Lues .....	18
Anemia (secondary) .....	27	Malnutrition .....	7
Ankylosis .....	1	Mitral regurgitation .....	2
Antiflexion of uterus .....	1	Myocarditis .....	4
Arcus Senilis .....	2	Nephritis .....	2
Arthritis .....	10	Nostalgia .....	1
Arteriosclerosis .....	1	Obesity .....	3
Artificial eye .....	1	Otitis Media .....	16
Blepharitis .....	6	Paralysis of left arm (partial) ..	1
Blindness (traumatic) .....	1	Paresis .....	1
Bronchiectasis .....	7	Paresis of left eye lid .....	1
Cardiac hypertrophy .....	1	Pellagra .....	1
Carious teeth .....	181	Pelvic Cellulitis (chronic) .....	1
Chloasma .....	1	Perforation of nasal septum (postoperative) .....	2
Clubbed fingers .....	1	Phlebitis .....	1
Conjunctivitis .....	2	Photophobia .....	1
Colitis (ulcerative) .....	1	Pneumoconiosis .....	3
Cyst (scalp) .....	1	Pneumonitis .....	3
Cystitis .....	2	Postoperative abscess of chest wall .....	1
Cystocele .....	18	Pregnancy .....	2
Deafness (partial) .....	12	Procidentia (partial) .....	2
Defective speech .....	1	Prostatitis (chronic) .....	2
Defective vision .....	6	Psoriasis .....	1
Diabetes Mellitus .....	5	Psycho-neurosis .....	1
Dermatitis .....	3	Pyelitis .....	2
Diseased tonsils .....	42	Rectocele .....	15
Endeervicitis .....	29	Rhinitis .....	18
Endometritis (hypertrophic) ..	1	Ring worm (eczematoid) .....	1
Epididymitis .....	2	Round worm infestation .....	4
Epithelioma (squamous cell) ..	4	Salpingitis .....	1
Empyema .....	2	Scoliosis .....	9
Erythematosis .....	1	Sebaceous cyst on back .....	1
Funnel breast .....	3	Sinusitis (chronic) .....	8
Glossitis .....	1	Strabismus .....	2
Hemorrhoids .....	48	Stricture of anus .....	1
Hepatitis .....	1	Trichomonas vaginalis .....	5
Herpes Zoster .....	1	Ulcer of nasal septum .....	4
Hookworm .....	9	Ulnar paralysis .....	1
Hypertension .....	13	Varicocele .....	1
Hyperthyroidism .....	4	Varicose veins .....	1
Infantile vagina and uterus ..	1	Wound infection .....	5
Inguinal hernia .....	5		
Keratitis .....	1		

**WESTERN NORTH CAROLINA SANATORIUM****PERSONS FROM WHOM DONATIONS WERE RECEIVED***Books and Magazines:*

Mr. and Mrs. E. C. Applegate, Asheville, N. C.  
Mr. Eugene Byrd, Black Mountain, N. C.  
Farm School Library, Swannanoa, N. C.  
American Legion, Oteen, N. C.  
Mrs. Max T. Payne, Greensboro, N. C.  
Mrs. I. M. Gordon, Pilot Mountain, N. C.  
Mrs. O. N. Swanson, Pilot Mountain, N. C.  
Rev. Guy Marlowe, Black Mountain, N. C.  
Mrs. Lee Gravely, Rocky Mount, N. C.  
Miss Laura M. Fleming, Black Mountain, N. C.  
Mrs. J. B. Nichols, Swannanoa, N. C.  
Mr. Hubert P. Lane, Cramerton, N. C.  
Mrs. Francis Griffith, Ridgecrest, N. C.  
Mr. C. C. Crawford, Asheboro, N. C.  
Mr. W. H. Kirkendall, Black Mountain, N. C.  
Miss Frances Whittemore, Reidsville, N. C.  
Mrs. M. L. Stevens, Asheville, N. C.  
Rev. W. Greenwood, Black Mountain, N. C.  
Mr. A. C. Thompson, Address not given  
Miss Ina Jean Church, Wilkesboro, N. C.  
Miss Iola Hamlet, Blanche, N. C.  
Mrs. Mae Jones, Asheville, N. C.  
Mrs. Mae Jones, Asheville, N. C.  
Miss Grace Brizendine, Rocky Mount, N. C.  
Mrs. W. B. Hart, Hickory, N. C.  
Mrs. Lucy O'Neal Mawyer, Danville, Va.  
Mrs. J. O. Rodgers, Asheville, N. C.  
Mrs. James I. Story, Marshall, N. C.  
Mr. Tom Dornin, Durham, N. C.  
Mr. W. H. Sherrill, Thomasville, N. C.  
Miss Tazzie Coble, Burlington, N. C.  
Miss Irma Quigg, Asheville, N. C.  
Miss Fannie Pearl Felmet, Waynesville, N. C.  
Mrs. E. W. Abee, Morganton, N. C.  
Dr. Margaret Burns, Asheville, N. C.  
Mr. A. F. White, Asheville, N. C.  
Dr. A. D. Cooper, Durham, N. C.  
Mr. Fred Gaither, Harmony, N. C.  
Miss Elvern Pennington, Asheville, N. C.  
Mr. L. Glasser, Asheville, N. C.  
Mr. O. N. Swanson, Pilot Mountain, N. C.  
Tea & Topic Club, Black Mountain, N. C.  
American Legion, Oteen N. C.  
Mrs. J. W. Gorham, Asheville, N. C.  
Biltmore Chapter of Eastern Star, Biltmore, N. C.  
Mrs. G. R. Royal, Asheville, N. C.

Mr. W. C. Honeycutt, Black Mountain, N. C.  
 Mr. John Leeman, Swannanoa, N. C.  
 Mrs. Minnie C. Pickens, Asheville, N. C.  
 Mrs. Upshaw, Black Mountain, N. C.  
 Mr. Ronald Finch, Black Mountain, N. C.  
 Mr. Carter Uzzell, Black Mountain, N. C.  
 Mrs. Alfred Tyson, Black Mountain, N. C.  
 Mr. Fred Magnant, Swannanoa, N. C.  
 Mr. and Mrs. Whiting, Oteen, N. C.  
 Mr. and Mrs. C. Muchette, Oteen, N. C.  
 Mr. R. L. Woodward, Black Mountain, N. C.  
 Mrs. Lyons Lee, Asheville, N. C.  
 Black Mountain Baptist Church  
 Black Mountain Methodist Church  
 Episcopal Church, Black Mountain, N. C.  
 Swannanoa Presbyterian Church  
 Dr. and Mrs. M. L. Stevens, Asheville, N. C.  
 Rev. Bell, Pastor of Presbyterian Church, Black Mountain, N. C.

*Flowers, Shrubs, and Bulbs:*

Mrs. F. S. Terry, Black Mountain, N. C.  
 Mrs. George Troutman, Hazelwood, N. C.  
 Mountain Orphanage, Black Mountain, N. C.  
 Plant, Flower & Fruit Guild, Asheville, N. C.  
 State Test Farm, Swannanoa, N. C.  
 Mrs. D. B. Alexander, Swannanoa, N. C.  
 Putman Dahlia Farm, Black Mountain, N. C.  
 Nettle's Nursery, Asheville, N. C.  
 Middlemount Gardens, Inc., Asheville, N. C.  
 Nightingale Club, Montreat College  
 Mrs. W. H. Arthur, Asheville, N. C.  
 Mrs. T. J. Hunter, Swannanoa, N. C.  
 Mrs. Fred Magnant, Swannanoa, N. C.  
 Swannanoa School  
 Mrs. S. M. Wolfe, Swannanoa, N. C.  
 Mrs. Perry Alexander, Swannanoa, N. C.  
 Mr. J. B. Nichols, Swannanoa, N. C.  
 Mrs. D. T. Alexander, Swannanoa, N. C.

*Miscellaneous:*

Chums Cove Missionary Society, Asheville, N. C.  
 Mrs. William R. Owens, Asheville, N. C.  
 Mrs. Fred Magnant, Swannanoa, N. C.  
 Junior Circle Presbyterian Church, Swannanoa, N. C.  
 Mr. Lawrence G. Barnhill, Black Mountain, N. C.  
 Mr. L. T. Brewer, Address not given.  
 Man's Store, Asheville, N. C.  
 Bon Marche, Asheville, N. C.



Mrs. H. T. Warren, Durham, N. C.  
Miss Leona Harrison, Asheville, N. C.  
Mr. Eugene Byrd, Black Mountain, N. C.  
Young Woman's Auxiliary, Calvary Baptist Church, Asheville, N. C.  
Mrs. Mary Hedrick, Mountain Orphanage, Black Mountain, N. C.  
Plant, Flower & Fruit Guild, Asheville, N. C.  
Episcopal Church, Black Mountain, N. C.  
Swannanoa Presbyterian Church  
Nightingale Club, Montreat, N. C.

The hospital is deeply indebted to a number of individuals who contributed cash for a Christmas fund. Also, there were numbers of articles donated for benefit parties, the proceeds of which were placed in the Christmas fund, this fund being used for indigent patients in the hospital.

## WESTERN NORTH CAROLINA SANATORIUM

## Revenues and Expenditures

## MAINTENANCE FUND

For the Two Years Ended June 30, 1939 and 1940

	Fiscal Year 1938-39	Fiscal Year 1939-40
Revenues		
Appropriation .....	\$ 122,890.00	\$ 133,775.00
Institutional receipts .....	37,126.21	59,545.99
	\$ 160,016.21	\$ 193,320.99
Expenditures		
Administration .....	\$ 15,049.04	\$ 15,885.60
Professional care and treatment .....	35,414.34	42,565.43
Custodial care .....	78,845.68	90,731.17
Operation of plant .....	13,372.32	15,051.95
Maintenance of plant .....	4,125.20	4,461.15
Agriculture .....	—2.95	—
Additions and betterments .....	2,340.25	2,149.89
	\$ 149,143.88	\$ 170,845.19

## AVERAGE POPULATION AND MAINTENANCE PER CAPITA COST

For the Two Years Ended June 30, 1939 and 1940

	Fiscal Year 1938-39	Fiscal Year 1939-40
Administration .....	\$ 81.79	\$ 53.49
Professional care and treatment .....	192.47	143.31
Custodial care .....	428.51	305.49
Maintenance of plant .....	22.42	15.02
Agriculture .....	—0.02	—
Additions and betterments .....	12.72	7.24
Operation of plant .....	72.67	50.68
	\$ 810.56	\$ 575.23
Average number patients .....	184	297

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