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THE MATERNITY NURSING SERVICE OF A BICOUNTY HEALTH DEPARTMENT¹

Brunswick-Greensville Health Administration Studies No. 5

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In a previous article ² a general description was given of the public health nursing work in the Brunswick-Greensville health department. These two counties are located in southern Virginia, bordering on North Carolina. The population in 1930 was approximately 34,000, 60 percent of which was colored. The personnel of the health department consisted of one full-time medical health officer who directed the work, a sanitation officer who served both counties, two public health nurses (one assigned to each county), and a part-time office clerk.³ A generalized public health nursing program, including maternal and infant hygiene, tuberculosis control, preschool and school hygiene, and communicable disease control, was carried on in each county. At the request of the State health department, the nurses were urged to devote about one-third of their time to maternal hygiene.

Seventy-five percent of all births occurring within the two counties were attended by colored midwives. About 90 percent of the colored and 40 percent of the white mothers were dependent upon the midwives for delivery care. Each midwife had been given a permit to practice by the State health department. Certain regulations as to their morals and personal health were prescribed, but no special training was required outside of assisting a physician with 1 or 2 deliveries. None of the midwives pursued any formal course of training in midwifery and many were unable to read or write.

There were no hospitals within the area; and while a few of the well-to-do women went to the hospitals in Richmond and elsewhere for delivery, a large majority of the maternity cases were cared for in their own homes and were dependent upon the midwives for delivery care.

¹ From the Office of Studies of Public Health Methods, in cooperation with the Division of Domestic Quarantine.

² McIver, Pearl: Public health nursing in a bicounty health department, Pub. Health Repts., vol. 50, p. 469. (Apr. 5, 1935.)

³ For complete description of this area, see Mountin, Joseph W.: Effectiveness and economy of county health department practice, Pub. Health Repts., vol. 49, pp. 1234-5. (Oct. 19, 1934.)

Eighteen general practicing physicians resided within the area. A demonstration prenatal clinic was conducted by a clinician from the University of Virginia in cooperation with the State medical association for a short period during the study year. This clinic was organized as an educational project for the local practicing physicians and not as a service for the community. A few of the colored mothers, who were used as clinic material, did have the benefit of a prenatal examination, but the majority of the ante-partum cases did not have medical supervision.

According to the family survey,⁴ which included a representative sample of the Brunswick-Greensville population, about 45 percent of the maternity cases consulted a physician for some purpose one or more times during pregnancy. However, two-thirds of those persons saw the physician but once and frequently the visit was made for an illness no way related to pregnancy.

The maternal mortality rate among the white mothers was 2.3 per thousand live births, as compared with 7.8 among the colored. The neonatal death rate (death rate of infants under 1 month of age per 1,000 live births) was 34 for the year in which the study was made.

CLASSES FOR MOTHERS

During the first few months of the study year the State health department conducted a correspondence course for mothers on maternity hygiene and child care. This course was later discontinued, but about 10 percent of the cases seen during those early months were enrolled for this work.

MIDWIFE SUPERVISION

Local responsibility for the supervision of the midwives was vested in the county health department, but most of the supervisory activities were delegated by the health officer to the public health nurses. In the case of a maternal death attended by a midwife or an applicant for a license, the matter was brought to the attention of the health officer. However, this happened rarely, as was shown by the records of the health officer. Over a period of 10 months,⁵ he had but three such contacts with midwives.

According to the nursing records, there were 42 midwives in Brunswick County and 25 in Greensville County during the study year. Each midwife was notified by the State health department that she might expect the nurse to supervise her work and that she must report all of her prenatal cases to the local health department.

⁴ Unpublished data collected in a study of 1,009 families in the health district.

[•] Unpublished data on the work of the health officer.

The nurse's part in the supervision of midwives consisted mainly of class and individual instruction in their homes or at the health department offices. The State health department provided each nurse with a manual of instructions for the conduct of midwife classes. Eight lessons on ante-partum, delivery, and post-partum care were outlined and, in addition, a handbook of instructions was provided for the midwives who were able to read. The midwife classes were open to others who might be interested, and frequently there were more visitors than midwives in attendance. During the study year the Brunswick County nurse had 12 class sessions, with an average attendance of 12 midwives and 15 others; the Greensville County nurse had two sessions during the year, with an average attendance of 20 midwives and 5 others.

A total of 167 home visits was made to midwives in the interest of the maternity program. In addition, the midwives made 68 visits to the health department offices to confer with the nurses. The latter visits were usually for the purpose of reporting prenatal cases or to secure prenatal literature or infant's clothing for some of their patients. The midwives were required to have a regulation bag and certain minimum equipment as prescribed by the Bureau of Child Hygiene of the State health department. The bags were inspected by the local nurses at intervals. Sometimes the nurses accompanied the midwives to the homes of their patients, but this type of supervision was not given very frequently.

EXTENT OF MATERNITY NURSING SERVICE

Of the 1,114 individuals who were visited by the public health nurses for all purposes during the study year, 234, or 21 percent, of them were maternity cases. Of these maternity cases, 51, or approximately 22 percent, were visited during both the ante-partum and post-partum periods;⁶ 138, or 59 percent, were visited during the ante-partum period only; and 45, or 19 percent, were not seen until after delivery. Thus there were 189 ante-partum and 96 postpartum cases registered with the public health nurses in the two counties during the study year.

During the study year, 1,036 live- and stillbirths were reported to the State Bureau of Vital Statistics from these two counties. If the recorded live- and stillbirths occurring within the area be considered as representing approximately the maternity population, it will be seen that about 22 percent of the maternity cases received one or more visits from the public health nurses during the study year.

In Rutherford County, Tenn., Mustard ⁷ reported that the nurses gave advice and service to 29 percent of all of the maternity cases

[•] Post-partum period comprised the first 6 weeks following delivery.

Mustard, H. S.: Rural health progress, p. 100. Commonwealth Fund, New York City, 1930.

occurring within the county annually over a 5-year period. In Cattaraugus County, New York, Randall ⁸ estimated that 29 percent of the maternity cases there received some service from the public health nurses during the year in which her study was made. The number of maternity cases reached by the Brunswick-Greensville nurses compares very favorably, since there were but two nurses to a population of about 34,000, while in Rutherford and Cattaraugus counties, there was about one nurse to every 6,000 of the population. However, the number of visits per case was considerably less in the Brunswick-Greensville area. The Brunswick-Greensville nurses made a total of 419 visits to the 234 maternity cases, or an average of 1.8 visits per case. The Cattaraugus and Rutherford county nurses averaged about four visits per case.

By comparing the extent of the maternity work in Brunswick-Greensville counties with the extent of the maternity work in other county health departments having a similar set-up, it is possible to estimate the relative amount of emphasis which was placed on maternity work in these two counties. Eight counties of a somewhat similar make-up were selected from the group of counties which were surveyed by the American Public Health Association⁹ for comparison. It is recognized that there may be some difference in definition of service among the several counties: nevertheless, from the data presented in table 1, it would appear that the Brunswick County nurse reached more than three times as many ante-partum cases as the average for the eight counties selected for comparison and almost twice as many post-partum cases. The Greensville County nurse visited almost twice as many ante-partum cases and about the same number of post-partum cases as the average for the eight counties selected. Several of the counties selected for comparison had a higher average number of visits per case, but only two counties had a higher total number of ante-partum visits than did Brunswick and Greensville Counties. These figures would indicate that the maternity service of the Brunswick-Greensville Health Department received more emphasis than did the maternity service in the average county health department. The State health department recommended that nurses devote one-third of their time to maternity and infancy work. It is quite probable that the Brunswick-Greensville nurses attempted to meet these recommendations, and thus the program was perhaps influenced in favor of maternity work.

⁸ Randall, M.: Maternity service by rural public health nurses. Milbank Quarterly, July 1931, p. 105

⁹ Freeman, Allen: A study of rural health practice. The Commonwealth Fund, New York City, 1933

County and State	Total births	Ante-par- tum cases	Ante-par- tum nurs- ing visits	Average number of visits ante- partum cases	Post-par- tum cases	Post-par- tum nurs- ing visits	
Limestone County, Ala	967	39	80	2.1	68	53	0.8
Talbot County, Md	393	48	51	1 .1	72	72	ĩ.ŏ
Geary County, Kans	274	26	38	1.5	Ō	Ō	
Scott County, Ky	332	57	456	8.0	50	75	1.5
Greenwood County, S. C	861	28	70	2.5	0	0	
Williamson County, Tenn_	482	57	147	2.6	59	133	2.3
Rockbridge County, Va	512	15	18	1.2	21	22	1. 0
Southampton County, Va.	757	33	33	1.0	17	17	1.0
— / · ·	4 500		000		007	070	
Total	4, 598	303	893		287	372	
Average	575	37.9	111.6	2.9	35. 9	46. 5	1. 3
Brunswick County, Va	626	122	158	1.3	59	67	1.1
Greensville County, Va	410	67	127	1.9	37	67	1.9
Citolisvino County, va	110			1. 0		••	1.0

 TABLE 1.—Visits to maternity cases in eight of the counties included in the American Public Health Association survey 1 as compared with Brunswick and Greensville Counties

¹ Freeman, Allen: A study of rural health practice. The Commonwealth Fund, New York City, 1933.

METHOD OF CASE FINDING

As previously stated, 75 percent of all births which occurred within Brunswick and Greensville Counties were attended by midwives. The midwives had been instructed by the State health department to report all of their ante-partum cases to the county health department. About 40 percent of the maternity cases seen by the nurses were reported by the midwives; and while this may not seem an especially large percentage when compared with the percentage of cases delivered by midwives, quite frequently the midwife was not engaged until labor had begun. In that event it was not possible to report the case as a prenatal case to the health department.

Twenty-eight percent of the cases coming to the attention of the nurses were reported by the patients themselves or some relative of the patient. Sometimes the patients attended a class or clinic, but more frequently they came to the health department office seeking help or wrote to the nurses asking them to call. Neighbors reported 15 percent of the cases to the health department, and about 8 percent were discovered by the nurses while visiting other members of the family. About 4 percent of the maternity cases were reported by The remaining cases were reported by the poormaster, physicians. school teachers, practical nurses, and others. In Cattaraugus County, N.Y., where physicians attend most of the births, they also reported a larger percentage of maternity cases known to the nurses. Midwives, neighbors, and visits to other members of the family were about equally important as sources of information in that county. Table 2 gives the distribution of the maternity cases visited by the nurses in Brunswick and Greensville Counties and those visited by

the nurses in Cattaraugus County, according to the source of first information.

TABLE 2.—Distribution of maternity cases visited by the nurses in Brunswick-Greensville Counties and in Cattaraugus County according to source of first information

Source of information	Brunswick- Greensville		Cattaraugus ¹	
	Number	Percent	Number	Percent
Physician Midwife Visit of other member of family Neighbor. Patient or relative	8 89 17 34 63	3.6 40.1 7.7 15.3 28.3	44 19 18 17 9	40. 4 17. 4 16. 5 15. 6 8. 3
Other	11 * 222	5. 0 100. 0	2 * 109	1.8

¹ Randall, Marian G.; Quarterly Bulletin, Milbank Memorial Fund, New York City, vol. 4, July 1931, Source of information on 12 cases unknown.
 Source of information on 22 cases unknown.

ECONOMIC STATUS OF MATERNITY CASES

About 70 percent of the maternity cases visited by the nurses were in the poor or very poor economic groups, as compared with 61 percent of the maternity cases found among the families included in the family study.¹⁰ About 50 percent of the families in the family study were in poor or very poor economic circumstances. Thus, it would appear as though there were more pregnancies in the families of the lower income groups and that the nurses tended to select maternity cases from the lower income groups for visiting.

TABLE 3.—Distribution of all families included in the family study, of all maternity cases included in the family study, and of the maternity cases visited by the Brunswick-Greensville nurses according to economic status

Economic status	All families in the		All maternity cases		Maternity cases	
	family study		in the family study		visited by nurses	
	Number	Percent	Number	Percent	Number	Percent
Comfortable	88	8.7	8	4.8	14	6.3
Moderate	420	41.6	56	34.1	54	24.1
Poor	374	37.1	72	43.6	97	43.3
Very poor	127	12.6	29	17.5	59	26.3
Total	1,009	100. 0	165	100. 0	1 224	100. 0

¹ Economic status of 10 maternity cases unknown.

10 See footnote 4.

ANTE-PARTUM VISITS

STAGE OF PREGNANCY WHEN FIRST SEEN BY THE NURSES

It is generally agreed that ante-partum supervision should begin early in pregnancy if it is to be of greatest value; yet getting in touch with patients during the early months of pregnancy is often one of the most difficult problems of the public health nurse. From table 4 it will be seen that 22, or about 12 percent, of the 189 ante-partum cases visited by the public health nurses in the Brunswick-Greensville area were seen before the end of the third month. About 62 percent of the cases were not seen until the last 3 months of pregnancy.

 TABLE 4.—Distribution of ante-partum cases visited by the nurses according to the month of pregnancy when the case was first visited

·····		cond, and months	Fourth, fifth, and sixth months		Seventh, eighth, and ninth months		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total	22	11.6	50	26. 5	117	61. 9	189	100. 0

Table 5 shows that the source of first information about the majority of those cases visited during the first 3 months was the patient herself, or some relative of the patient. Midwives reported about 40 percent of the ante-partum cases to the nurses, but 54, or about 73 percent, of those cases were not referred to the nurses until the last 3 months of pregnancy. It is quite probable that the patients did not engage the midwives until late in pregnancy.

 TABLE 5.—Source of first information about ante-partum cases visited for the first time during certain months of pregnancy according to the source of first information about the case

Source of information	and	second, third nths	and	h, fifth, sixth aths	and	n, eighth, ninth aths	To	tal
	Num- ber	Per- cent	Num- ber	Per- cent	Num- ber	Per- cent	Num- ber	Per- cent
Patient or patient's relative Midwife Physician Neighbors Visits to others in family Other	14 5 0 1 2 0	63. 6 22. 7 4. 5 9. 1	14 15 2 9 4 6	28. 0 30. 0 4. 0 18. 0 8. 0 12. 0	30 54 2 15 8 8	25.6 46.2 1.7 12.8 6.8 6.8	58 74 4 25 14 14	30. 7 39. 2 2. 1 13. 2 7. 4 7. 4
Total	22	100. 0	50	100. 0	117	100. 0	189	100. 0

The 189 ante partum cases visited by the nurses received a total of 285 home and 39 office visits during the study year. This gives an average of 1.7 visits per case. However, 65 percent of the cases

received but one visit. Only 2 cases received more than 5 visits; one of those was visited 8 times and one 12 times. The Greensville County nurse had a visit frequency average of about 2.0 per case, as compared to 1.5 per case for the Brunswick County nurse. However, the percentages of cases receiving but one visit were practically the same in both counties. Six, or approximately 9 percent, of the Greensville cases received 30 percent of the total ante partum visits which were made during the year.

The month of pregnancy in which the first contact was made may influence the number of visits which will be made to a given case. There may be little opportunity to make more than one visit to those patients who are not seen until the ninth month of pregnancy. Others may not have been "present" during the study year for more than one or two months. For instance, those patients who were in their third or fourth month of pregnancy when the study closed would not normally receive more than one or two visits, even though the first contact was made early in pregnancy. Table 6 shows the number of visits to ante-partum cases distributed according to the number of months they were known to the nurse.

 TABLE 6.—Distribution of ante-partum cases and visits according to the number of months during the study year in which the cases were known to the public health nurses

	N	Vis	Average num- ber of times		
Total months of study year during which patient was known to the nurses	Number of patients	Home	Office	Total	patient was seen by the nurse
1 or less	58	62	15	77	1.:
2.	59	77	16	93	1.:
3.	26	48	2	50	1.:
4	20	36	3	39	1.
	10	34	2	36	3.
	6	7	0	7	1.
7	5	10	0	10	2. (
3.	3	8	1	9	3. (
More than 8	2	3	0	3	1. !
Total	189	285	39	324	1. 1

From table 6 it is evident that the average number of visits to those patients who were known to the nurses for 6 or more months was not significantly greater than the average number of visits to those who were known to the nurses for 2 months or less.

The history of previous pregnancies is commonly accepted as a criterion for selecting cases for prenatal nursing service. It is usually assumed that those who are pregnant for the first time, or who have had previous stillbirths or miscarriages, need more nursing service than do those who have had previous uncomplicated pregnancies. However, the average number of visits per case to the 44 women who were pregnant for the first time was 1.1, while the average number of

visits to the 95 women who had had previous uncomplicated pregnancies was 1.6. The average number of visits to the 50 women who gave histories of previous stillbirths or miscarriages was 1.8, but the difference in the frequency of visits to these various types of cases may not be important. These data appear to indicate that no special effort was made to visit those ante-partum cases with histories of previous complications more frequently than those cases with histories of previous uncomplicated pregnancies.

Twenty-two of the ante-partum cases received three or more visits. A special analysis was made of the 22 families represented by these cases to see whether there were any apparent reasons why these few cases received more than the usual one or two visits. Fourteen of the 22 cases receiving three or more visits lived in Greensville County. and all but three of them lived in the village of Emporia. Eleven were colored. The majority were classed as "poor" in economic status, but only three were listed as receiving material aid. Eight of the 14 cases were under medical supervision. A special check was made to see whether there were other members of the family under supervision who might require a number of nursing visits. It was thought that the additional prenatal visits might perchance be incidental to visits to acute communicable disease or tuberculosis, cases of which usually have a fairly high visit frequency rate; but no tuberculosis or other communicable disease cases were found in any of these families. In one family a preschool health supervision case was visited five times in regard to a tonsillectomy, but there were very few other individuals from these homes who received nursing visits of any type, and only a few of those who were visited received more than one visit. Three of the 14 cases receiving three or more visits were under treatment for syphilis, one was a heart case, and one had pellagra. One case, with no apparent complications. was visited four times during the fifth month and was then not revisited until after delivery. Thus, there was no apparent reason why these Greensville County cases should have received more visits than the other ante-partum cases unless convenient location was a factor.

Of the 8 cases receiving three or more visits in Brunswick County, 1 was an active tuberculosis case, 1 had an attack of appendicitis during the ante-partum stage, 1 was scheduled to have a Caesarian section, and another was an obesity case requiring special treatment. Five visits were made to one home in the interest of typhoid-fever control. The ante-partum visits appeared to be incidental to the typhoid-control visits. There were no apparent reasons for the repeated visits in the other three cases. In Brunswick County as in Greensville, the majority of the cases receiving three or more visits were under medical supervision. However, location probably was not a factor in Brunswick County as none of the cases lived in the

SERVICES RENDERED TO ANTE-PARTUM CASES

Five main types of ante-partum information or service were recorded. This classification included—

Advice in regard to medical examination and care;

Instruction on preparation for delivery;

Instruction on preparation of baby's layette;

Instruction on diet and personal hygiene; and

Distribution of literature.

One of the objectives of the public health nurses was to secure a medical examination for every ante-partum case. The importance of having an examination by a physician early in pregnancy, even though a midwife had been engaged for the delivery, was explained to 85 of the 189 ante-partum patients who were visited by the nurses.

Eighty, or about 44 percent, of the ante-partum patients visited by the nurses consulted a physician one or more times during pregnancy. As previously stated, a limited number of colored cases were examined at the demonstration clinic held in Brunswick County. The private physicians of Greensville County made free prenatal examinations occasionally, when requested to do so by the nurse, but the number was not large. Table 7 gives the distribution of antepartum cases visited by the nurses according to medical care and economic status.

Economic status	Had some medical supervision		Had no medical supervision		Total	
	Number	Percent	Number	Percent	Number	Percent
Comfortable Moderate Poor Very poor	7 24 34 15	70. 0 48. 0 42. 5 34. 9	3 26 46 28	30. 0 52. 0 57. 5 65. 1	10 50 80 43	100. 0 100. 0 100. 0 100. 0
Total	80	43. 7	103	56.3	183	100. 0

 TABLE 7.—Distribution of ante-partum cases visited by the nurses according to economic status ¹ and medical supervision

¹ Economic status unknown for 6 cases.

Since 70 percent of the maternity cases were among the poor or very poor economic groups, it was thought that inability to pay for medical services might have influenced the number who had no medical care. It may be noted in table 7 that 30 percent of those who were in comfortable circumstances and 52 percent of those who were in moderate circumstances did not consult a physician during pregnancy. This appears to indicate that not all of the mothers appreciated the importance of having a medical examination during pregnancy.

Since about 97 percent of the maternity cases in the Brunswick-Greensville area were delivered at home, the preparation for home delivery was regarded by the nurses as an important objective of the ante-partum visit. Practically all of the cases visited received instruction in the preparation for delivery. This instruction was in accordance with the information contained in the printed instructions issued by State and Federal health agencies. Copies of the printed instructions were left with those patients who could read. The nurses did little demonstration of the actual preparation themselves, but the midwives were encouraged to visit and actually show their prospective patients how to make newspaper bed pads and how to prepare and sterilize dressings.

Instructions on diet and general hygiene were given to about 95 percent of the cases who were visited by the nurses. A few cases were seen so late in pregnancy that diet instructions would have had little effect, and on a few records the nurses indicated that the mothers did not appear to benefit by instruction. Quite frequently the nurses were obliged to arrange for material relief for the maternity cases. Food and clothing were the articles most frequently provided, and the arrangements were usually made through the county supervisor of the poor.

The preparation of the baby's layette was discussed with practically all of the ante-partum cases. Many of those who were not seen until the last month of pregnancy had prepared their layettes before the nurse visited them, but the nurse usually inspected their work and suggested additions when indicated. A number of the mothers were financially unable to get the minimum amount of supplies. The colored mothers' clubs, as a rule, made it their business to prepare baby layettes from used flour or sugar sacks, and these layettes were given to the nurse to be distributed at her discretion.

The Greensville County nurse made blood-pressure readings on 92 percent of her ante-partum cases. Arrangements were made for a medical examination when the readings were found to be abnormally high. Urinalyses were not done by either of the nurses, but specimens were collected from 69 percent of the cases and sent to the State laboratory for examination.

POST-PARTUM VISITS

Only 96 of the 234 maternity cases carried by the Brunswick-Greensville nurses were seen by the nurses during the 6 weeks' period following delivery. Since there were 1,036 live and stillbirths in that area during the study year, about 9 percent of the maternity cases received visits during the post-partum period. Forty-five of the 96 post-partum cases were not known to the nurses during the ante-partum period and received their first visit from the nurses after delivery. Midwives reported 15, or about 33 percent, of those post-partum cases who were not seen during the ante-partum period. According to the midwives' statements, these patients did not engage them prior to delivery but, instead, called them after labor had begun. Neighbors reported about 20 percent of the post-partum cases and physicians reported about 9 percent of the cases to the health department, while relatives of the patients reported about 11 percent of the cases. Most of the remaining cases were found by the nurses while visiting the homes for other purposes.

One hundred and thirty-four visits were made to the 96 maternity cases visited during the post-partum period by the Brunswick-Greensville nurses, giving an average of 1.4 visits per case. However, 79 percent of the post-partum cases received but one visit. A few cases received from four to six visits each. According to the appraisal form,¹¹ full credit is given for post-partum nursing visits if there are 500 visits per 1,000 births. The Brunswick-Greensville rate is only slightly better than 100 visits per 1,000 births.

Thirty-seven, or approximately 39 percent, of the post-partum cases carried by the nurses were visited during the first week following delivery. Thirty, or about 31 percent, of them received their first postpartum visits during the second week after delivery. Thus approximately 70 percent of the post-partum cases receiving nursing service were visited during the lying-in period, the most productive period for a post-partum visit. Eleven cases were visited during the third week and the remaining 18 cases were visited before the end of the sixth week following delivery.

SERVICES RENDERED TO POST-PARTUM CASES

Advice on post-partum nursing care was given to the attendant on 89 percent of the cases. The attendant was usually some member of the household, as it was not customary for the midwives to remain in the home and give nursing care to the mother. Those post-partum cases seen before delivery were often given some instruction prior to delivery. As was previously stated, 29 of the post-partum cases were seen for the first time more than two weeks after delivery. Practically no demonstrations of nursing care were given.

While advice on general hygiene and nutrition was given almost universally to ante-partum cases, only 25 percent of the post-partum cases received this instruction. According to the nursing records, nutrition was never discussed on a post-partum visit if the case had been visited during the ante-partum period and the subject had been

¹¹ American Public Health Association Appraisal Form for Rural Health Work, p. 61. American Public Health Association, New York City, 1932.

discussed at that time. While proper food habits of the mother during the post-partum period may not be as important as during the antepartum period, the diet of the mother during puerperium is one of the factors in the maintenance of breast feeding and is worthy of consideration. Approximately 23 percent of the post-partum cases were given literature on infant care.

From the nursing records it would appear that the importance of a post-partum examination was not emphasized as a routine practice by the nurses when making post-partum visits. The records showed that the need for a post-partum examination was explained to but 50 percent of the cases visited. Since but one visit was made to a majority of the post-partum cases, and that usually early, a complete record could not be obtained as to how many might have had postpartum examinations. Of the 165 maternity cases included in the family survey,¹² only 9, or about 5 percent, reported post-partum examinations. From these data it would appear that post-partum examinations were not often made in the Brunswick-Greensville area.

WHAT HAPPENED TO THE MATERNITY CASES WHO WERE VISITED BY THE BRUNSWICK-GREENSVILLE NURSES?

Of the 234 maternity cases visited by the Brunswick-Greensville nurses, 96 were seen by the nurses following delivery, and on this number only were the nurses able to supply delivery history. In order to get this information on the 138 patients seen only during the antepartum period, an analysis was made of the birth records in the State bureau of vital statistics. Delivery information was obtained for 119 of the 138 cases. A few of those who were not found in the records of the bureau of vital statistics were not due to be delivered until after the check had been made. Mistakes in names or the possibility that some of the pregnancies resulted in miscarriages which were not reported to the bureau of vital statistics may have accounted for the others who were not found. Delivery history was therefore obtained from 215 of the 234 maternity cases visited by the nurses.

Table 8 gives a comparison of the outcome of the pregnancies occurring among those families included in the family survey ¹³ and those who were visited by the nurses. Of the 215 cases in which delivery information was obtained in connection with the nursing study, 192, or approximately 89 percent, resulted in full-term live babies. Of the 167 pregnancies occurring among the families included in the family survey, 142, or approximately 85 percent, resulted in full-term live babies. In 16, or about 7 percent, of the cases visited by the nurses, stillbirths occurred, while 15, or about 9 percent, of the pregnancies reported in the family survey resulted in stillbirths.

¹² See footnote 4.

¹³ See footnote 4.

Only 4, or about 2 percent, of the cases visited by the nurses miscarried before the end of the twenty-eighth week of pregnancy, while 7, or about 4 percent, of those included in the family survey resulted in miscarriages. These figures are too small to warrant any conclusions concerning the effect of the nursing service. Furthermore, the family survey is likely to reveal quite nearly the true number of interrupted pregnancies; while in a nursing service, where many pregnancies come to the nurses' attention late, miscarriages and stillbirths would tend to be missed.

 TABLE 8.—Comparison of the results of pregnancy among 215 maternity cases visited by the public health nurses and those maternity cases included in the family study

Result	Maternity of by n		Maternity cases in family study		
	Number	Percent	Number	Percent	
Live births	195 16 4	90.7 7.4 1.9	145 15 7	86. 8 9. 0 4. 2	
Total	215	100. 0	167	100. 0	

Of the 215 patients visited by the nurses and for whom delivery information was obtained, 20 miscarried or gave birth to still-born Ten of the 20 gave histories of previous stillbirths or misbabies. carriages, 6 were first pregancies, and 4 had had previous live births but gave no history of previous stillbirths or miscarriages. A check on the historics of the past pregnancies of all (234) maternity patients visited by the nurses revealed that 62, or approximately 27 percent. did give histories of previous stillbirths or miscarriages. In the family survey,¹⁴ only 15 percent of the maternity cases gave histories of previous stillbirths or miscarriages. Thus it would appear that there may have been some selection of maternity cases in Brunswick-Greensville Counties on the basis of the history of previous complications, even though there was no increase in the number of visits per case on this basis.

Five, or 31 preent, of the 16 stillbirths occurring among those cases visited by the nurses were attended by physicians; 4, or 25 percent, by physicians and midwives; and 7, or 44 percent, by midwives alone. It is probable that the physicians were not called until quite late in labor for those cases which were attended by both physicians and midwives. Thus midwives delivered without medical assistance 44 percent of the stillbirths occurring among those cases visited by the nurses, and they assisted with the delivery of an additional 25 percent. The midwives delivered without medical assistance 68 per-

¹⁴ See footnote 4.

cent of the cases visited by the nurses, so that proportionately their stillbirth rate was not higher than that of the physicians.

According to the records of the State bureau of vital statistics, the percentages of stillbirths in the whole State of Virginia (4.2) and for the Brunswick-Greensville district (4.6) are less than the percentage of stillbirths recorded among the cases visited by the nurses (7.4). However, the percentage of stillbirths among the maternity cases included in the family survey ¹⁴ (9.0), which included a representative sample of the Brunswick-Greensville population, is somewhat higher than that for those visited by the nurses. Therefore it is probable that the reporting of stillbirths to the State bureau of vital statistics may not be complete.

According to the records of the State bureau of vital statistics, no maternal deaths occurred among the 244 maternity patients known to the nurses. However, according to the nursing records, one maternity patient who had been visited by the nurses died in a hospital outside of the study area and was not charged to the Brunswick-Greensville area.

SUMMARY

Two nurses, rendering a generalized type of public health nursing service to a population of approximately 34,000 people, reached through their home and office visits about 22 percent of the maternity cases occurring within the area during the study year. This percentage compares very favorably with the percentage of maternity cases reached each year by the nurses in Cattaraugus County, N. Y., and Rutherford County, Tenn., where the average population per nurse was about 6,000.

Because of the large colored population and the large percentage (75 percent) of births attended by untrained midwives, maternity hygiene was considered by the local and the State health departments to be one of the most important problems confronting the community. This area had a neonatal death rate of 34.1 per 1,000 live births, and, according to the Appraisal Form for Rural Health Work, at least 25 percent of all maternity cases should have been under ante-partum supervision if the maternity needs of the community were to have been met. Only 189, or about 18 percent, of all maternity cases occurring within the area received advice or service from the nurses during the ante-partum period, and the amount of service rendered to some of the cases was extremely limited. The appraisal form recommends five nursing visits during the ante-partum period and three visits during the post-partum period. The average number of antepartum visits per case was 1.7, and the average number of postpartum visits per case was 1.4. However, when one considers the

¹⁴ See footnote 4.

fact that there were but two nurses engaged on a generalized type of public health nursing program for 34,000 people scattered over 864 square miles, the extent of the maternity nursing service in this area would indicate that it received a reasonable share of the public health nursing service available to the people of that area.

These data represent the findings from a study of but one rural health department and do not warrant any widespread conclusions or recommendations. However, the study does suggest a number of questions which health administrators and public health nurses may wish to consider when planning a maternity nursing program.

First, what is the extent of the maternity problem and what percentage of the maternity cases should the nurses visit per year? If it is decided that 25 percent of the maternity cases should be receiving visits from the public health nurses, which 25 percent should be selected? Will any 25 percent be satisfactory or should a special effort be made to visit those women who are pregnant for the first time or who have had complications with previous pregnancies?

Second, the appraisal form recommends that each maternity case receive approximately five ante-partum and three post-partum visits. Should all maternity cases have the same number of visits? Will there be any variation in the individual needs of different women? Is it possible to reach a point of "diminishing returns" in prenatal visits, that is, are some prenatal cases visited unnecessarily frequently? On the other hand, if only one visit is made per case, are the results worth while?

Third, in those communities where a large proportion of the maternity cases are dependent upon midwives for delivery care, will the effectiveness of the nursing service be limited by the facilities for medical ante-partum and post-partum examination? What arrangements may be made by the health department for providing this necessary medical service?

Fourth, what provision is made for the nursing care of the newborn baby and the mother following delivery? Is it possible to give satisfactory instruction without actually demonstrating post-partum nursing care? If effective demonstrations are to be given, should the visit be made within the first 2 or 3 days following delivery? What methods are to be used to secure early information about the delivery?

DIRECTORY OF WHOLE-TIME COUNTY HEALTH OFFICERS, 1935

The information contained in this directory of whole-time county health officers was obtained through questionnaires sent to each State department of health. For the purpose of insuring uniformity in the

returns, a "whole-time" county health officer was defined as "one who does not engage in the practice of medicine or in any other business but devotes all of his time to his official duties." Similar directories have been issued annually since 1922, with the exception of 1932. In 1934 the directory was issued as Reprint 1649 from the Public Health Reports.

The publication of directories of State health departments was begun in 1912 and, with the exception of the year 1932, has been continued without interruption to the present time. The 1934 directory was issued as Reprint 1675.

Directories of city health officers have been published annually since 1916, with the exception of 1932, when funds were not available either for this or other directories. In 1934 the directory was issued as Reprint 1685 from the Public Health Reports.

State and County	Name of health officer	Post office	Official title
labama:			
Autauga	G. W. Warrick, M. D	Prattville	County health officer.
Barbour	E. M. Moore, M. D	Clayton	Do.
Blount	S. D. Sturkie, M. D	Oneonta	Do.
Bullock	L. G. Cole, M. D	Union Springs	Do.
Calhoun	G. A. Cryer, M. D	Anniston	Do.
Chambers	W. J. Donald, M. D.	LaFayette	Do.
Cherokeo	S. C. Tatum, M. D F. R. Wood, M. D	Center	Do.
Cleburne	F. R. Wood, M. D	Heflin	Do.
Colbert	A. M. Shelamer, M. D	Tuscumbia	Do.
Conecuh	E. L. Kelly, M. D.	Evergreen	Do.
Covington	C. D. McLeod, M. D	Andalusia	Do.
Crenshaw	J. O. Foster, M. D.	Luverne	Do.
Cullman	M. S. Whiteside, M. D	Cullman	Do.
Dale	W. L. Orr, M. D	Ozark	Do.
Dallas	L. T. Lee, M. D	Selina	Do.
Elmore	C. S. Cotlin, Jr., M. D	Wetumpka	Do.
Escambia	G. T. Rowe, M. D	Brewton	Do.
Etowah	G. L. Murphree, M. D	Gadsden	Do.
Franklin	N. P. Underwood, M. D	Russellville	Do. Do.
Houston	F. G. Granger, M. D	Dothan	Do.
Jackson	E. A. Thorne, M. D.	Scottsboro	D0. D0.
Jefferson	J. D. Dowling, M. D.	Birmingham	D0. D0.
Lamar	W. J. B. Owings, M. D	Vernon Florence	D0. D0.
Lauderdale	W. D. Hubbard, M. D		Do.
Lawrence	R. E. Harper, M. D.	Moulton	Do.
Lee	H. C. McRee, M. D.	Opelika Athens	Do.
Limestone	W. A. Minsch, M. D.	Havnesville	D0.
Lowndes	E. F. Leatherwood, M. D.	Tuskegee	Do. Do.
Macon	Murray Smith, M. D W. C. Hatchett, M. D	Huntsville	Do.
Madison	E. T. Norman. M. D.	Linden	Do.
Marengo	W. T. Burkett, M. D.	Hamilton	Do.
Marion	L. L. Parks, M. D	Guntersville	Do.
Marshall	O. L. Chason, M. D., Dr.	Mobile	Do.
Mobile	P. H.	1100/10	170.
Monroe	R. D. Neal, M. D	Monroeville	Do.
Montgomery	J. L. Bowman, M. D.	Montgomery	Do.
Morgan	L. R. Murphree, M. D	Decatur	Do.
Perry	J. R. Long, M. D.	Marion	Do.
Pickens	J. J. Croley, M. D.	Carrollton	Do.
Pike	W. H. Abernethy, M. D.	Troy	Do.
Russell	M. L. Shaddix, M. D.	Phenix City	Do.
Shelby	H. T. Donovan, M. D.	Columbiana	Do.
Sumter	S. J. Williams, M. D.	Livingston	Do.
Talledega	J. H. Hill, M. D.	Talladega	Do.
Tallapoosa	C. C. Fargason, M. D	Dadeville.	Do.
Tuscaloosa	A. A. Kirk, M. D.	Tuscaloosa	Do.
Walker	A. M. Waldrop, M. D	Jasper	Do.
Washington	I. C. Sumner, M. D.	Chatom.	Do.
Wilcox	E. L. McIntosh, M. D	Camden	Do.
Winsten	M. R. McWhorter, M. D.	Double Springs	Do.

September 20, 1935

1310

State and County	Name of health officer	Post office	Official title
rizona:			
Cochise Gile	R. B. Durfee, M. D. Anson B. Ingels, M. D.,	Bisbee	Director. Do.
Maricopa	F. A. P. H. Å., F. A. M. Å. A. N. Crain, M. D	Phoenix	Do.
Pima rkansas:	L. H. Howard, M. D	Tucson	Do.
Ashley	A. M. Gibbs, M. D., B. S. W. M. Smith, M. D., B. A.	Hamburg Arkadelphia	County health officer.
Conway	A. B. Jemison, M. D. B. M. Stevenson, M. D.	Morrilton	Do.
Crittenden Cross	J. L. Griffin, M. D	Marion	Do. Do.
Garland Jackson	J. F. Merritt, M. D M. B. Owens, M. D	Hot Springs Newport	Do.
Jefferson Little River	W. H. Bruce, M. D	Pine Bluff	Do.
Mississippi	A M Washburn M D	Ashdown Blytheville	Do. Do.
Monroe Ouachita	W. P. Scarlett. M. D.	Clarendon Camden	Do. Do.
Phillips Pope	W. B. Bruce, M. D	Helena Russellville	Do. ' Do.
Pulaski	J. A. Summers, M. D	Little Rock	
Saline. Sebastian	D. W. Fulmer, M. D J. E. Johnson, M. D	Little Rock Benton Fort Smith	Do.
Woodruff Yell	J. F. Hays, M. D	Augusta	190.
alifornia:	J. K. Grace, M. D., B. S	Danville	.,
Alameda	I. O. Church, M. D., C. P. H.	Oakland	Do.
Contra Costa	W. A. Powell, M. D W. F. Stein, M. D	Martinez Fresno	Do. Do.
Imperial	W F For M D	El Centro	Do.
Los Angeles Madera	J. L. Pomeroy, M. D. Lee A. Stone, M. D. R. M. Fortier, M. D. K. H. Sutherland, M. D.	Los Angeles Madera	Do. Do.
Monterey Orange	R. M. Fortier, M. D.	Salinas Santa Ana	Do.
Riverside	W.A.JOBES.M.D.	Riverside	Do. Do.
San Bernardino San Joaquin	E. F. Godfrey, M. D J. J. Sippy, M. D.	San Bernardino	Do. District health officer.
San Diego San Luis Obispo	A. M. Lesem, M. D	San Diego	County health officer.
San Mateo	Harper Peddicord	San Luis Obispo Redwood City	Do. Do.
Santa Barbara	R. C. Main, M. D E. F. Reamer, M. D	Santa Barbara Modesto	Do. Do.
West Hartford 1	H.B.Smith, M.D., C.P.H.	West Hartford	Superintendent of health.
Fairfield 1	L. E. Poole, M. D.	Fairfield	Health officer.
Kent	E. F. Smith, M. D	Dover	County health officer.
New Castle Sussex	J. R. Downs, M. D. F. I. Hudson, M. D.	Newark Georgetown	Do. Do.
orida: Escambia	W. A. McPhaul, M. D	Pensacola	
Leon	L. J. Graves, M. D.	Tallahassee	Do. Do.
eorgia: Baldwin	0. F. Moran, M. D	Milledgeville	Commissioner of health.
Bartow Bibb	A. C. Shamblin, M. D. J. D. Applewhite, M. D.	Cartersville	Do.
Chatham Clarke	V. H. Bassett, M. D.	Savannah	Do. Do.
Cobb	W. W. Brown, M. D J. E. Lester, M. D	Athens Marietta	Do. Do.
Colquitt Decatur	T. H. Chestnut, M. D M. A. Fort, M. D J. R. Evans, M. D	Moultrie Bainbridge	Do.
DeKalb	J. R. Evans, M. D.	Decatur	Do. Do.
Dougherty Floyd Glenn, McIntosh,	Hugo Robinson, M. D B. V. Elmore, M. D	Albany Rome	Do. Do.
Camden.	M. E. Winchester, M. D	Brunswick	Do.
Grady Hall	H. P. Rankin, M. D. C. J. Wellborn, M. D.	Cairo	Do.
Jefferson	L. R. Bryson, M. D.	Gainesville Louisville	Do. Do.
Jenkins Laurens	H. B. Senn, M. D. O. H. Cheek, M. D.	Millen Dublin	Do. Do.
Lowndes	G. T. Crozier, M. D. I	Valdosta	Do.
Richmond	C. O. Rainey, M. D. H. Grady Callison, M. D. W. C. Humphries, M. D.	Augusta	Do. Do.
Spalding Sumter	W. C. Humphries, M. D.		Do.
Thomas	A. J. Davis, M. D. J. R. Dykes, M. D. S. C. Rutland, M. D.	Thomasville	Do. Do.
Troup	5. U. Rutiand, M. D	Lagrange	Do.

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1311

State and County	Name of health officer	Post office	Official title
eorgia—Continued.			
Ware	Geo. E. Atwood, M. D	Waycross.	Commissioner of health.
Washington	O. L. Rogers, M. D.	Sandersville	Do.
District Health Unit No.1.	R. Floyd Payne, M. D	Lafayette	District health commi sioner.
Catoosa. Walker.			50001.
inois:		Wheeter	County hastile .
Dupage wa:	W. F. Hopf, D. D. S	Wheaton	County health officer.
Woodbury	W. S. Petty, M. D	Sioux City	Director.
Lyon	C. Herbert Munger, M. D.	Emporia	County health officer.
Sedgwick	J. C. Montgomery, M. D.	Wichita	Do.
Shawnee	Frank E. McCord, M. D.	Topeka	Do.
entucky: Adair	N. A. Mercer, M. D., M.	Columbia	Do.
4.11am	P.H.	Scottsville	Do.
Allen Anderson	C. W. Holland, M. D S. R. Boggess, M. D Chas. M. Moore, M. D J. S. Goodpaster, M. D R. D. Higgins, M. D B. K. Amos, M. D C. C. Threlkel, M. D U. O. Nail M. D.	Lawrenceburg	Do.
Barren	Chas M. Moore M. D	Glasgow	Do.
Bath	J. S. Goodpaster, M. D	Owingsville	Do.
Boyd	R. D. Higgins, M. D	Ashland	Do.
Breathitt	B. K. Amos, M. D	Jackson	Do. Do
Butler	C. C. Threlkel, M. D	Morgantown	100.
Caldwell	J. U. Nall, M. D.		Do. Do.
Calloway Carlisle	J. O. Nall, M. D Jas. A. Outland, M. D J. F. Harrell, M. D	Murray Bardwell	Do.
Carter	A. S. Yates, M. D.	Grayson	Do.
Casey	J. W. Scudder, M. D	Liberty	Do.
Clay	L. H. Wagers, M. D.	Manchester	Do.
Clinton	M. W. Williamson, M. D.	Albany	Do.
Edmonson	Sidney Simpson, M. D	Brownsville	Do.
Elliott	B. H. Preston, M. D.	Sandy Hook	Do. Do.
Estill	R. R. Snowden, M. D.	Irvine Lexington	Do
Fayette Fleming	C. D. Cawood, M. D C. W. Christine	Flemingsburg	Do.
Floyd	Marvin Ransdell, M. D Hugh E. Prather, M. D J. W. Miller, M. D N. H. Ellis, M. D	Prestonsburg	Do.
Fulton	Hugh E. Prather, M. D	Hickman	Do.
Gallatin	J. W. Miller, M. D	Warsaw	Do.
Grant	N. H. Ellis, M. D.	Williamstown	Do.
Grayson	C. F. Blankenship, M. D. J. M. Dishman, M. D	Leitchfield	Do. Do.
Green	C. W. Monroe, M. D	Greensburg Greenup	D0.
Greenup Hart	C. P. Shields, M. D.	Munfordville	Do.
Henderson	J. L. Tanner, M. D.	Henderson	Do.
Hickman	Chas. Hunt, M. D.	Clinton	Do.
Hopkins	C. R. Morton, M. D	Madisonville	Do.
Jackson	C. A. Wathen, M. D.	McKee	Do.
Jefferson	Jno. D. Trawick, M. D H. C. White, M. D J. W. Duke, M. D C. W. Folsom, M. D G. S. Brock, M. D W. C. Gose, M. D E. M. Brown, M. D D. D. Turner, M. D.	Louisville	Do. Do.
Kenton Knott	I W Duke M D	Covington Hindman	Do.
Knox	C. W. Folsom, M. D.	Barbourville	Do.
Laurel.	G. S. Brock, M. D.	London	Do.
Lawrence	W. C. Gose, M. D	Louisa	Do.
Lee	E. M. Brown, M. D	Beattyville	Do.
TVC2110	D. D. I MICI, MI. D	Hyden	Do.
Letcher	R. D. Collins, M. D.	Whitesburg Stanford	Do. Do.
Lincoln McCreary	K. T. Johnstone, M. D Adam Stacy, M. D	Whitley City	Do.
McLean	G. L. Thompson, M. D	Calhoun	Do.
Madison	G. R. Rowntree, M. D	Calhoun Richmond	Do.
Marshall	S. L. Henson, M. D	Benton	Do.
Martin	W. N. Kiet, M. D	Inez	Do.
Mason	Allen F. Murphy, M. D O. R. Lynch, M. D	Maysville	Do. Do.
Meade	F T Bilay M D	Brandenburg Frenchburg	Do.
Menifee	H T Carter M D	Edmonton	Do.
Monroe	G. W. Bushong, M. D.	Tompkinsville	Do.
Muhlenberg	Roy Orsburn, M. D.	Greenville	Do.
Nicholas	E. W. Atherton, M. D	Carlisle	Do.
Ohio	A. D. Park, M. D.	Hartford	Do.
Owsley Perry	O. K. Lynch, M. D H. T. Carter, M. D G. W. Bushong, M. D Roy Orsburn, M. D E. W. Atherton, M. D A. D. Park, M. D. Don E. Wilder, M. D D. D. Carr, M. D., C. P.	Booneville Pikeville	Do. Do.
Pike	R. E. Teague, M. D., C.	do	Do.
Demail	P.H.	Stanton	Do.
Powell	M. H. Skaggs, M. D J. C. McGuire, M. D	Stanton	Do. Do.
Pulaski Rockcastle	Walker Owens, M. D.	Mount Vernon	Do. Do.
Rowan	T. A. E. Evans, M. D. F. W. Caudill, M. D.,	Morehead	Do.
Scott	F. W. Caudill, M. D.,	Georgetown	Do.

September 20, 1935

1312

State and County	Name of health officer	Post office	Official title
entucky-Continued.			
Trigg.	E. W. Sigler, M. D.	Cadiz	
Trimble Union		Bedford	Do.
Warren	G. M. Wells, M. D.	Morganfield Bowling Green	
Wayne	Mack Roberts, M. D.	Monticello	Do. Do.
Webster	C. M. Smith, M. D	Dixon	Do.
Wolfe	C. M. Smith, M. D. J. L. Cox, M. D.	Campton	
uisiana: ?	B M Barra M D	Manalaanmilla	Distantes
Assumption		Napoleonville	
Avoyelles Caddo	W. J. Sandidge, M. D	Marksville Shreveport	Do. Do.
Caldwell	Thomas Burk, M. D	Columbia	
Catahoula	L. C. Spencer, M. D	Harrisonburg	
Claiborne	H. R. Marlatt, M. D	Homer	Do.
Concordia	John Schreiber, M. D	Vidalia	Do.
De Soto	R. A. Tharp, M. D.	Mansfield	Do.
East Carroll	G. D. Williams, M. D	Lake Providence	
Franklin	R. E. Applewhite, M. D.	Winnshoro	Do.
Iberia	B. L. Stinson, M. D.	New Iberia	Do.
Iberville	J. C. Eby, M. D., Phar.	Plaquemine	De.
Tofowatta	D.	Lafayette	··
Lafayette		Lafayette Thibodaux	Do.
Lafourche		Jena	A Do.
La Salle Lincoln	E. L. Miller, M. D R. H. Allen, M. D	Kington r · ·	
Madison	E. S. Freeman, M. D.	Tallulah	De.
Morehouse		Bastrop	Do.
Natchitoches	W. W. Knipmeyer, M.	Natchitoches	Do.
	W. W. Knipmeyer, M. D., C. P. H.		20.
Ouachita	John W. Williams, M. D.,	Monroe	Do.
Pointe Coupee	C. P. H. F. F. Rougon, M. D.,	New Roads	Do.
Rapides	Ph. G. Branch J. Aymond, M. D.	Alexandria	Acting director.
Red River	B. Hochfelder, M. D	Coushatta	Director.
Richland	R. O. C. Green, M. D	Rayville	Do.
St. Landry	L. A. Masterson, M. D.	Opelousas	Do.
St. Martin	P. H. Fleming, M. D.	St. Martinville	Do.
St. Mary	W. W. Poimboeuf, M. D.	Franklin	Do.
Tensas	W. B. Summers, Jr., M. D.	St. Joseph	Do.
Terrebonne	M. F. Houston, M. D	Houma	Do.
Washington	F. A. Williams, M. D	Franklinton	Do.
Webster	W. C. Summer, M. D	Minden	Do.
West Carroll	F. S. Williams, M. D	Oak Grove	Do.
aine: ^a Bar Harbor	Frank O. Alley, C. P. H.	Bar Harbor	Health officer.
Rumford	Thomas S Burr M D	Rumford	Do.
Sanford	Thomas S. Burr, M. D W. H. Kelly, M. D	Sanford	D0.
Cooperative Health	B. L. Arms, M. D.	Farmington	Do.
Union.	D. H. HIMB, N. D.		20.
Avon. Chesterville.			
Dallas Planta-			
tion.			
Eutis.			
Industry.	1		
Livermore.		1	
Lang Planta-	1		
tion.			
New Sharon.		1	
Rangeley.	1		
Sandy River		1	
Plantation. Farmington.			
Strong.		1	
Temple.	i	1	
Weld.		1	
Motboy Union	Howard L. Jackson, M.D.	Old Town	Do.
Bradley.			
Milford.		ł	
Old Town.		f	
Orono.			
Veazie.		1	
ryland:	I P Franklin M D	Cumberland	Denuty State and another
Allegany	J. P. Franklin, M.D	Cumperiand	Deputy State and county health officer
Anne Arundel	John H. Janney, Jr., M.D.	Annapolis	Do.
Baltimore	J. S. Bown, M. D	Towson	Do.
Calvert	I. N. King, M. D.	Prince Frederick	Do.
Caroline	Louis S. Welty, M. D W. C. Stone, M. D.	Denton	Do.
Carroll	W.C. Stone, M. D.	Westminster	Do.
CallVII	C. A. Kane, M. D	Elkton	

² Parish. ³ Township or district.

Charles J. 6. Cunningham, M. D., Greent, La Plata. Deputy Size and cour health officer. Dorchester E. A. Jones, M. D., Greent, E. A. Jones, M. D., T. A. Callaban, M. D., R. G. Baschley, M. D., V. P. H., V. P. State, M. D., V. P. H., V. P. State, M. D., V. P. H., V. P. H., V. P. State, M. D., V. P. H., V. H., V. P. H., V. H., V. H., V. H., V. H., V. H., V	State and County	Name of health officer	Post office	Official title
Dorchester PrederickE. A. Jones, M. D. E. C. Kach ver, M. D. E. C. Stach ver, M. D. D. P. H. MarterickCambridge Prederickhealth offlor. Do. Do. D. P. H. Ellicott CityDo. Do. Do. Do. D. P. H. Do. <b< td=""><td>Maryland-Con.</td><td></td><td></td><td></td></b<>	Maryland-Con.			
Dorchester Garreit.E. A. Jones, M. D. Eugane C. Peck, M. D. Eugane C. Peck, M. D. StationdCambridge OaklandDo. OaklandHartor Weatt Kent.W. J. Penk, M. D. P. H. W. D. P. H. W. L. Ellicott, M. D. Prince Georges. Justice Markowski and M. D. R. G. Beschley, M. D. P. H. M. D. P. H. D. A. B. Hooton, M. D. Robert H. Johnson, M. D. Robert H. Johnson, M. D. Bradford Massey, M. D., Bradford Massey, M. D., Charlevoix, Breather, M. D., W. D., Bradford Massey, M. D., Charlevoix, Bradford Massey, M. D., Charlevoix, Bradford Massey, M. D., Charlevoix, Bradford Massey, M. D., Charlevoix, Bradford Massey, M. D., Charlevoix, <b< td=""><td>Charles</td><td>J.S. Cunningham, M.D.</td><td>La Plata</td><td>Deputy State and count</td></b<>	Charles	J.S. Cunningham, M.D.	La Plata	Deputy State and count
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HardrodT. A. Calkalan, M. D.Ben Alt.Do.Kent.C. P. Benchley, M. D.,D. P. H.Do.Montgomery.V. L. Ellicott, M. D.,D. P. H.Do.Prince Georges.A. B. Hooton, M. D.D. P. H.Do.Quean Annes.James A. McCallum,Do.St. Marya.D. S. Clair Campbell,Leonardtown.Do.Somerset.Robert H. Johnson, M. D.Princes Anne.Do.Somerset.Robert H. Johnson, M. D.C. C. Halley, M. D.Easton.Do.Washington.W. Roes Cameron, M. D.Salisbury.Do.Worosier.T. Hardlord Massey, M.D.Salisbury.Do.Vertexier.Mame O. Goff, M. D.,Haronic O., P. H.Harold W. Stevens, M.D.Nashoba.A. B. Mitchell, M. D.,Arest.Do.Nashoba.A. B. Mitchell, M. D.,Alegan.County health officer.Alegan.A. B. Mitchell, M. D.,Alegan.County health officer.Alegan.A. B. Mitchell, M. D.,Hastings.Do.Salisbury.Do.F. R. Town, M. D.MatandidaMidland.David Littlejohn, M. D.,Hastings.Do.Genessee.T. E. Gibson, M. D., C.P. H.MatandidaAlegan.G. McGaryna, M. D.MatandidaDo.Saginaw.C. P. H.T. R. Meyer, M. D.,Saginaw.Do.Ottawa.Ralph Ten Have, M. D.,Fawladd.Do.Jistrict health unit.G. B. Mofat, M. D., C.P. H.Do.Alegan.<		E. C. Kefauver, M. D	Frederick	Do.
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WeshingtonW. Ross Cameron, M. D. Saitsbury,	Somerset	Robert H. Johnson, M. D.	Princess Anne	
Wicomico.Seth H. Hurdle, M. D.Salisbury.Do.fassachusett:Poomoke CityDo.fassachusett:Handord Massey, M. D.Fassachusett:Do.shire-iJames O. Walls, M. D.,ArerCounty health officer.shire-iJames O. Walls, M. D.,Great BarringtonMedical director.shire-iAlleganA. B. Mitchell, M. DAlleganMedical director.BarryR. B. Mitchell, M. DAlleganCounty health officer.Do.BarryR. B. Mitchell, M. DAlleganCounty health officer.Do.BarryR. B. Mitchell, M. DAlleganBo.Do.Barton-MasseeF. G. Mofor, M. D.County health officer.Do.GatandJ. D. Brok, M. D.Grand HavenDo.OktawaRalph Ten Have, M. D.Grand HavenDo.SaginawC. C. Moore, M. D., C. P. H.Wilte CloudDo.Jistrict health unitGladys Kleinschmidt, M. D., C. P. H.Do.Do.Jistrict health unitGladys Kleinschmidt, M. D., P. H.Grosse PointeDo.Alpena.G. B. Moffat, M. D., D. P. H.Grosse PointeDo.Alpena.G. B. Moffat, M. D., D. P. H.Grosse PointeDo.Alpena.Grosse FointeF. H.Grosse PointeDo.O'linges of -Gross eFointeFrams.Grosse Pointe </td <td>Talbot</td> <td>G. C. Halley, M. D</td> <td></td> <td></td>	Talbot	G. C. Halley, M. D		
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District health unit.Gladys Kleinschmidt, M.West BranchDo.Alcona.D.D.Josco.Ogemaw.Carleton Dean, M. D., C.Charlevoix.District health unit.Carleton Dean, M. D., C.Charlevoix.Do.Antrim.Charlevoix.P. H.Charlevoix.Do.Otsego.District health unit.G. B. Moffat, M. D., D.Rogers CityDo.Olstrict health unit.G. B. Moffat, M. D., D.P. H.Do.Alpena.Cheboygan.B. H. Warren, M. D., D.P. H.Alpena.B. H. Warren, M. DGrosse Pointe.Do.Villages of-G r o s s ePointeB. H. Warren, M. DGrosse Pointe.G r o s s ePointeFarms.G r o s s ePointePointeFarms.G r o s s ePointeAlpointeFarms.G r o s s ePointeShores.AlpointeLochmoor.Lochmoor.Lochmoor.Lochmoor.Lochmoor.			•	
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Ogemaw. Oscoda. District health unit.Carleton Dean, M. D., C. P. H.Charlevoix. D.Do.Antrim. Charlevoix. Emmet. Otsego. District health unit.G. B. Moffat, M. D., D. P. H.Rogers CityDo.Alpena. Cheboygan. Montmorency. Presque Isle. Township of Grosse Pointe.G. B. Moffat, M. D., D. P. H.Rogers CityDo.Alpena. Cheboygan. Montmorency. Priseque Isle. Township of Grosse Pointe. G r o s s e Pointe G r o s s e Pointe B. H. Warren, M. DGrosse Pointe. Grosse Pointe. Fointe.Township health director		2.		
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District health unit. Antrim. Charlevoir. Emmet. Otsego. District health unit. Alpena. Cheboygan. Montmorency. Presque Isle. Township of Grosse Pointe. G r o s s e Pointe. G r o s s e Pointe. Charlevoir Do. Do. Do. Do. Do. Do. D				
Charlevoir. Emmet. Otsego. District health unit. Alpena. Cheboygan. Montmorency. Presque Isle. Township of Grosse Pointe. Villages of- G r o s s e Pointe Park. G r o s s e Pointe Farms. G r o s s e Pointe Farms. G r o s s e Pointe Farms. G r o s s e Pointe Shores. Lochmoor.			Charlevoix	Do.
Emmet. Otsego. District health unit. Alpena. Cheboygan. Montmorency. Presque isle. Township of Grosse Pointe. Villages of- G r o s s e Pointe G r o s s e Pointe G r o s s e Pointe Farms. G r o s s e Pointe Farms. G r o s s e Pointe Shores. Lochmoor.				
Otsego. District health unit. Alpena. Cheboygan. Montmorency. Presque Isle. Township of Grosse Pointe. G r o s s e Pointe. G r o s s e Pointe. Cheboygan. B.H. Warren, M. D Grosse Pointe. Farms. G r o s s e Pointe. Shores. Lochmoor.				
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Alpena. Cheboygan. Montmorency. Presque Isle. Township of Grosse Pointe. Villages of- G r o s s e Pointe Park. G r o s s e Pointe Farms. G r o s s e Pointe Farms. G r o s s e Pointe Farms. G r o s s e Pointe Farms. C r o s s e Pointe Shores. Lochmoor.	District health unit.		Rogers City	Do.
Cheboygan. Montmorency. Presque Isle. Township of Grosse Pointe. Grosse of- Grosse of- Grosse of- Pointe Park. Grosse of- Pointe Pointe Farms. Grosse of- Pointe Pointe Farms. Grosse of- Pointe Farms. Grosse of- Pointe Farms. Grosse of- Pointe Farms. Grosse of- Pointe Farms. Conse of- Pointe Farms. Conse of- Pointe Conse of- Pointe Conse of- Pointe Conse of- Pointe Conse of- Pointe Conse of- Pointe Conse of- Pointe Conse of- Pointe Conse of- Pointe Conse of Pointe Conse of- Pointe Conse of- Conse of- Pointe Conse of- Pointe Conse of- Pointe Conse of- Conse of- Pointe Conse of- Conse of- Conse of- Pointe Conse of- Conse o	Almana	Р. н.		
Montmorency. Presque Isle. Township of Grosse Pointe. Villages of- G r o s s e Pointe. G r o s s e Pointe. C r o s s e Pointe. Cochmoor.				
Presque Isle. Township of Grosse Pointe. Villages of- G r o s s e Pointe Park. G r o s s e Pointe Farms. G r o s s e Pointe Farms. G r o s s e Pointe Farms. Lochmoor. Content of the second of the				
Pointe. Villages of- Grosse Pointe Park. Grosse Pointe. Grosse Pointe Farms. Grosse Pointe Farms. Grosse Pointe Shores. Lochmoor.	Presque Isle.			
Villages of Grosse Pointe Park. Grosse Pointe. Grosse Pointe Farms. Grosse Pointe Shores. Lochmoor.		B. H. Warren, M. D	Grosse Pointe	Township health director.
G rosse Pointe Park. G rosse Pointe. G rosse Pointe Farms. G rosse Pointe Shores. Lochmoor.				
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Farms. Grosse Pointe Shores. Lochmoor.	Grosse	I	1	
Grosse Pointe Shores. Lochmoor.		1	1	
Points Shores. Lochmoor.				
Shores. Lochmoor.			1	
Lochmoor.	Shores.		1	,
		1		
innesota: St. Louis	innesota:	Carl A Scherer M D	Duluth	County health officer.
b. Doub Call A. Double, M. D Duittin County Jointh Chock	Dr. LOUIS	Call A. DUIGECE, M. D.		

September 20, 1935

1314

State and County	Name of health officer	Post office	Official title		
Mississippi: Adams	A. R. Perry, M. D., M. P. H.	Natchez	Director.		
Bolivar Coahoma	R. D. Dedwylder, M. D. N. C. Knight, M. D., C.	Cleveland Clarksdale	Do. Do.		
Copiah Forrest	P. H. J. W. Dugger, M. D. B. D. Blackwelder, M. D.,	Hazelhurst Hattiesburg	Do. Do.		
Hancock	C. P. H. C. M. Shipp, M. D. Daniel J. Williams, M. D. W. F. Noblin, M. D.	Bay St. Louis	Do.		
Harrison Hinds	W. E. Noblin, M. D.	Gulfport Jackson	Do. Do.		
Holmes	W. E. Noblin, M. D. C. J. Vaughn, M. D., C. P. H.	Lexington	Do.		
Humphreys	J. W. Barkley, M. D R. G. Lander, M. D	Belzoni	Do.		
Jackson	J. N. Mason, M. D	Pascagoula Purvis	Do. Do.		
Lamar Lauderdale	D. V. Galloway, M. D., M. P. H.	Meridian	Do.		
Lee	W. H. Cleveland, M. D	Tupelo Greenwood	Do.		
Leflore Lincoln	L. A. Barnett, M. D W. R. May, M. D., C.	Greenwood Brookhaven	Do. Do.		
	Р. Н.				
Monroe Pearl River	C. H. Love, M. D G. E. Godman, M. D	Aberdeen Poplarville	Do. Do.		
Pike	T. Paul Haney, Jr., M.	McComb	Do.		
Sharkey	D., C. P. H. A. K. Barrier, M. D	Rolling Fork	Do.		
Sunflower Union	C. C. Smith, M. D	Indianola New Albany	Do. Do.		
Warren	F. Michael Smith, M. D.	Vicksburg	Do.		
Washington	John W. Shackelford, M. D., M. P. H. H. L. McCalip, M. D.,	Greenville	Do.		
Yazoo	H. L. McCalip, M. D., C. P. H.	Yazoo City	Do.		
Missouri: Buchanan	W. S. Hull, M. D	St. Joseph	Field agent.		
Dunklin	Wheeler Davis, M. D	Kennett	Do.		
Greene Jackson	J. W. Williams, Jr., M. D. Jos. T. Brennan, M. D	Springfield Independence	Do. Do.		
Marion	E. M. Lucke, M. D	Hannibal	Do.		
Miller New Madrid	L. M. Garner, M. D Wm. O'Bannon, M. D	Tuscumbia New Madrid	Do. Do.		
St. Louis	I. C. Obrock, M. D	Clayton	Do.		
Montana: Cascade	F. L. Watkins, M. D	Great Falls	Health officer.		
Gallatin Lewis & Clark	A. D. Brewer, M. D Wm. M. Copenhaver,	Bozeman	Do. Do.		
	M. D.				
Missoula New Mexico:	F. D. Pease, M. D	Missoula	Do.		
Bernalillo	C. Howe Eller, M. D., D. P. H.	Albuquerque	County health officer.		
Dona Ana Eddy	C. W. Gerber, M. D O. E. Puckett, M. D	Las Cruces Carlsbad	Do. Do.		
Santa Fe	O. E. Puckett, M. D E. F. McIntyre, M. D R. H. Wilson, M. D	Santa Fe	Do. Do.		
Union	M. O. Blakeslee, M. D	Clayton Los Lunas	Do.		
New York: Cattaraugus ⁴	Reginald M. Atwater, M. D., D. P. H.	Olean	Commissioner of health.		
Columbia ⁴ Cortland ⁴	Louis Van Hoesen, M. D. Daniel R. Rielly, M. D.,	Hudson Cortland	Do. Do.		
Suffolk 4 Westchester 4		Riverhead	Do. Do.		
District	H. J. Ball, M. D	Utica	District State health of- ficer.		
Herkimer. Madison. Oneida.					
District	R. D. Champlin, M. D.,	Oneonta	D o .		
Chenango. Delaware. Otsego.	С. Р. Н.				
Schoharie. District Broome.	J. A. Conway, M. D	Hornell	Do.		
Chemung. Steuben.			4		
Tioga.					
Tompkins.	I	I	1		

¹ Under direct supervision of county health commissioner and general supervision of district State health officer.

State and County	Name of health officer	Post office	Official title				
New York—Con. District	F. E. Couglin, M. D., A. B., D. P. H.	Albany	District	State	health	of-	
Albany. Columbia. ⁴ Greene.	A. D., D. F. H.		Licer.				
Rensselaer. District	A. S. Dean, B. S., M. D., D. P. H.	Buffalo	- Do.				
Cattaraugus. ³ Chautauqua. Erie. Genesee.							
Niagara. Orleans. Wyoming.							
District Nassau. Suffolk. ⁴	M. D. Dickinson, M. D	New York City	. Do.				
District Clinton. Essex.	B. Diefendorf, M. D	Ticonderoga	. Do.				
Franklin. Hamilton. ⁶							
Washington. District Cayuga. ⁷	C. R. Hervey, M. D	Oswego	Do.				
Oswego. Wayne. District	F. W. Laidlaw, M. D	Middletown	Do.				
Orange. Rockland. Sullivan. Ulster.					•		
Westchester. ⁴ District Dutchess.	B. E. Roberts, B. S., M. D.	Poughkeepsie	Do.				
Putnam. District Jefferson. Lewis.	S. W. Sayer, M. D	Gouverneur	D0.				
St. Lawrence. District Cayuga. ⁷	P. J. Rafle, M. D., C. P. H.	Syracuse	D0.			× ;	
Cortland. ³ Onondaga. Seneca.	D D Wakaman M D	Hornell	Do.		· • •		
District Allegany. Livingston. Monroe.	B. R. Wakeman, M. D	Hornen	D0.				
Ontario. Schuyler. Yates. District	J. S. Walton, M. D	Amsterdam	Do.				
Fulton. ⁸ Hamilton. ⁶ Montgomery. ⁸ Saratoga.	a. b. wawa, M. b.	Antibioi dum	200				
Schenectady. District Fulton. ⁸ Montgomery. ⁸	J. E. Perkins, M. D., D. P. H.	do	Do.				
Iorth Carolina: Beaufort	David Emerson Ford,	Washington	County he	alth of	licer.		
Bertie Bladen	M. D. F. H. Garriss, M. D. Robert S. Cromartie, M. D.	Windsor Elizabethtown Asheville	Do. Do. Do.				
Buncombe Cabarrus	Howard L. Sumner, M. D. Daniel G. Caldwell, M. D. Floyd Johnson, M. D.	Concord	Do.				
Columbus	Floyd Johnson, M. D.	Whiteville Fayetteville	Do. Do.				
Cumberland Davidson	Malcolm T. Foster, M. D. Grover C. Gambrell, M. D.	Lexington	Do.				
Duplin	C. H. White, M. D. J. H. Epperson, M. S	Kenansville Durham	Do. Do.				
Durham							

^b Under direct supervision of county health commissionar and general supervision of district State health ⁵ Under direct supervision of county neutral contains out and general supervision of Dr. Diefendorf; balance of county under supervision of Dr. Walton.
 ⁵ Townships of Sterling, Victory, Ira, Conquest, and Cato under supervision of Dr. Hervey; balance of county under supervision of Dr. Rafle.
 ⁶ Under direct supervision of Dr. Perkins and general supervision of Dr. Walton.

September 20, 1935

1316

State and County	Name of health officer	Post office	Official title		
North Carolina-Con.					
Franklin Gaston	R. F. Yarborough, M. D Robert E. Rhyne, M. D	Gastonia	County health officer Do.		
Granville	Jos. A. Morris, M. D.	Oxford			
Guilford	R. M. Buie, M. D.		Do.		
Halifax			Do.		
Hyde		Ocracoke	Do.		
Lenoir	Z. V. Moseley, M. D	Kinston			
Mecklenburg Moore	L. H. Hand, M. D.	Charlotte			
Nash			Do. Do.		
New Hanover	T. O. Coppedge, M. D A. H. Elliott, M. D	Wilmington	D0.		
Northampton	M. H. Seawell, M. D.	Jackson	Do.		
Pitt	N. T. Ennett, M. D	Greenville			
Randolph					
Richmond	B. B. Dalton, M. D		Do.		
Roberson Rowan	Ohee W Ameridana M D	Callabarana	Do.		
Rutherford	 Chas. W. Armströng, M. D. R. M. Bardin, M. D. W. P. Starling, M. D. J. A. Whitaker, M. D. Z. P. Mitchell, M. D. Alar, C. Bullo, M. D. 	Rutherfordton			
Sampson	W. P. Starling, M. D	Clinton			
Surry	J. A. Whitaker, M. D.	Mount Airy	. Do.		
Vance	Z. P. Mitchell, M. D	Henderson	Do.		
Wake	$ \mathbf{A} \mathbf{O} \mathbf$	reatergi	1) Do.		
Wayne	G. Fletcher Reeves, M. D.	Goldsboro	W i. Do		
Wilkes Wilson	A. J. Eller, M. D. Wade H. Anderson, M. D.	Wilkesboro	I Do. Do.		
District	W. P. Richardson, M. D.	Burnsville	Do. District health officer.		
Avery.		Dunisvine	District neuron official		
Yancey.					
District	John Roy Hege, M. D	Winston-Salem	Do.		
Forsyth.					
Stokes. Yadkin.					
District	C. N. Sisk, M. D.	Waynesville	Do.		
Haywood.	0.11.000, 11.0	Way 165 Mile	10.		
Jackson.					
Swain.					
hio:	T T Outline M D	T :			
Allen		Lima Athens	Health commissioner.		
Athens Butler		Hamilton	Do. Do.		
Clinton	W. K. Ruble, M. D	Wilmington	D0. D0.		
Crawford	G T Wasson M D	Bucyrus	Do.		
Cuyahoga	Robert Lockhart, M. D	Bucyrus Cleveland	Do.		
Darke	Robert Lockhart, M. D W. D. Bishop, M. D B. B. Barber, M. D	Greenville	De.		
Delaware	B. B. Barber, M. D.	Delaware	Do.		
Erie Fayette	F. M. Houghtaling, M. D. James F. Wilson, M. D	Sandusky Washington Court-	Do.		
1 ayouo	James F. Wilson, M. D	house.	Do.		
Hamilton	E. H. Schoenling, M. D	Cincinnati	Do.		
Hancock	S. F. Whisler, M. D	Findlay	Do.		
Hocking	W. B. Lacock, M. D	Logan	Do.		
Huron	B. C. Pilkey, M. D J. P. Young, M. D F. R. Dew, M. D	Norwalk	Do.		
Jefferson	J. P. Young, M. D.	Steubenville	Do.		
Lorain	F. F. Devore M. D.	Oberlin Toledo	Do.		
Mahoning	F. F. Devore, M. D G. Y. Davis, M. D N. Sifritt, M. D T. W. Mahoney, M. D W S. Filis, M. D	Youngstown	Do. Do.		
Marion	N. Sifritt. M. D.	Marion.	Do. Do.		
Medina	T. W. Mahoney, M. D	Medina	Do.		
			Do.		
Mercer	F. E. Ayers, M. D	Celina	Do.		
Miami Montromery	E. R. Hiatt, M. D	Trov	Do.		
Montgomery Perry	H. H. Pansing, M. D.	Dayton New Lexington	Do.		
Pickaway	P. J. Crosbie, M. D C. C. Beale, M. D	Circleville	Do. Do.		
Preble	J. I. Nisbet, M. D	Eaton	Do. Do.		
Richland	M D Hanson M D	Mansfield	Do.		
Ross.	R. E. Bower, M. D	Chillicothe	Do.		
Seneca	R. E. Bower, M. D. D. W. Fellers, M. D. A. B. Lippert, M. D.	Tiffin	Do.		
Shelby	A. B. Lippert, M. D.	Sidney	Do.		
Stark	Floyd R. Stamp, M. D.	Canton	Do.		
Summit Trumbull	R. H. Markwith, M. D L. A. Connell, M. D	Akron	Do. Do.		
Tuscarawas	J. Blickensderfer, M. D.	New Philadelphia	Do.		
Washington	A. G. Sturgiss, M. D	Marietta	Do.		
Wayne	W. G. Rhoten, M. D	Wooster	Do.		
Wood	H. J. Powell, M. Đ	Bowling Green	Do.		
klahoma:	Buch I. Walahi M. D.	-	T		
Leflere	Rush L. Wright, M. D	Poteau	Local health director.		
Clackamas	A. H. Johnston, M. D	Oregon City	County health officer.		
Douglas	J. E. Camphall, M. D	Roseburg	Do.		
Jackson	C. I. Drummond, M. D G. S. Newsom, M. D	Medford	Do.		
Klamath	U. S. Newsom, M. D.	Klamath Falls	Do.		
Lane	R. C. Romig, M. D	Eugene	Do.		

State and County	Name of health officer	Post office	Official title
Oregon-Continued.	Verner Deuslee M. D.	Salem	County boolth officer
Marion Multnomah	Vernon Douglas, M. D H. R. Cliff, M. D		. County health officer. Do.
South Carolina: Aiken	J. T. Hair, M. D	Aiken	Local health director.
Anderson Beaufort	E. E. Epting, M. D W. A. Carrigan, M. D W. K. Fishburne, M. D	Anderson	Do. Do.
Berkeley	W. K. Fishburne, M. D	Moncks Corner	. Do.
Charleston Cherokee	E. P. White, M. D., D.	Gaffney	Do. Do.
Darlington	P. H. G. B. Edwards, M. D	Darlington	Do.
Darlington Dillon-Marion • Dorchester	H. F. Wilson, M. D	Dillon St. George	Do.
Fairfield	J. L. Bryson, M. D	Winnsboro	Do.
Florence	J. R. Claussen, M. D. S. Simons, M. D., C. P. H.	Florence	Do. Do.
Greenville Greenwood	Baylis Earle, M. D.	Greenville	Do.
Kershaw	A. W. Humphries, M. D. Claude Sease, M. D. B. F. Sloan, M. D. G. C. Bolin, M. D. W. B. Furman, M. D. R. W. Ball, M. D. J. M. Beeler, M. D.	Camden	Do.
Newberry	B. F. Sloan, M. D.	Newberry Walhalla	Do. Do.
Orangeburg	G. C. Bolin, M. D.	Orangeburg Pickens	Do. Do.
Richland	R. W. Ball, M. D	Columbia	Do.
Spartanburg Tennessee:	· · · · · · · · · · · · · · · · · · ·		Do.
Blount Bradley	Owen F. Agee, M. D W. C. Sanford, M. D	Maryville Cleveland	County health officer. Director health unit.
Davidson	J. J. Lentz, M. D	Nashville Trenton	County health officer. Do.
Gibson Giles	F. L. Roberts, M. D J. U. Speer, M. D	Pulaski	Director health unit.
Greene	R. S. Cowles, M. D	Greeneville	Director department of health.
Grund y Hamilton	U. B. Bowden, M. D J. C. Eldridge, M. D	Pelham Chattanooga	Director health unit. Director health depart- ment.
Hardeman Humphreys	R. L. Cobb, M. D J. W. Frost, M. D	Bolivar Waverly	Director health unit. Director health depart- ment.
Knox Lake	A. G. Hufstedler, M. D J. P. Moon, M. D	Knoxville Tiptonville	Do. Do.
Lauderdale	R. B. Griffin, M. D	Ripley	Director health unit.
Lincoln	M. F. Brown, M. D	Fayetteville	Director health depart- ment.
Maury	H. C. Busby, M. D., C. P. H.	Columbia	Do.
Monroe Montgomery	D. M. Cogwill, M. D F. J. Malone, M. D	Madisonville Clarksville	Director health unit. Director health depart ment.
Obion Roane	W. B. Harrison, M. D J. C. Fly, M. D	Union City Kingston	County health officer. Director health depart-
Rutherford	J. B. Black, M. D., C. P. H.	Murfreesboro	ment. County health officer.
Sevier	R. C. Kash, M. D	Sevierville	Director health depart- ment.
Shelby Sullivan	W. P. Moore, M. D F. L. Moore, M. D., C.	Memphis Blountville	County health officer. Director health depart-
Sumner	P. H. H. M. Kelso, M. D., C.	Gallatin	ment. Do.
	P. H. A. J. Butler, M. D., C. P.	Covington	Do.
	H .	_	
-	P. H.	Jonesboro	Acting director health department.
Williamson	R. K. Galloway, M. D., C. P. H.	Dresden Franklin	County health officer. Director health depart- ment.
Wilson Districts:	W. D. Cagle, M. D	Lebanon	Do.
Anderson- Campbell.	C. B. Tucker, M. D., C. P. H.	Clinton	Director health district.
Carter-Unicoi	R. B. Howard, M. D., C. P. H.	Elizabethton	Do
Bledsoe-Se-	H. M. Roberson, M. D	Pikeville	Do.
quatchie. Jackson-Fen-	F. B. Clark, M. D	Gainsboro	Do.
tress. Rhea-Meigs	J. Y. O'Daniel, M. D	Dayton	Do.
Texas:	H. E. Duncan, M. D	Dallas	Director county health
Dallas	H. E. Duucan, M. D	Danassin	
	T. J. McCamant, M. D		unit. Do.

September 20, 1985

1318

State and County	Name of health officer	Post office	Official title
Texas—Continued. Gregg	T. B. Wilson, M. D	Longview	
Hidalgo	D. R. Handley, M. D	Edinburg	
Nolan Potter	E. W. Prothro, M. D. B. M. Primer, M. D., M. P. H.	Sweetwater	
Tarrant	Burke Brewster, M.D	Fort Worth	. Do.
Utah: Davis	S. Gleason, M. D	Kaysville	Director.
Vermont: Burlington Montpelier Rutland	C. H. Burr, M. D C. M. Cole	Burlington Montpelier Rutland	Do. Do.
Bennington Virginia: Albemarle	J. M. Ayers R. A. G. Jones, M. D	Charlottesville	Acting health officer.
Alleghany-Rock- bridge.10	R. P. Cook, M. D	Lexington	
Arlington Augusta Brunswick-Greens- ville. ¹⁰	P. M. Chichester, M. D Harry M. Wallace, M. D. Thomas H. Valentine, M. D.	Clarendon Staunton Lawrenceville	Do. Do. Do.
Fairfax	Adrian L. Carson, Jr., M. D.	Fairfax	Do.
Henrico Isle of Wight-Nan- semond. ¹⁰	J. C. Neale, Jr., M. D. Challis H. Dawson, M. D.	Richmond Suffolk	Do. Do.
Norfolk-Princess Anne. ¹⁰	Josiah Leake, M. D	Portsmouth	Do.
Nottoway-Prince Edward. ¹⁰	W. A. Brumfield, M. D	Farmville	Do.
Pittsylvania Southampton Southwest District.	William H. Walcott, M. D. Peter P. Causey, M. D. E. C. Harper, M. D.	Chatham Courtland Abingdon	Do. Do. Deputy director of rural health.
Buchanan. Carroll. Dickenson. Grayson. Lee. Russell. Scott. Smyth. Tazewell. Washington. Wise. Wythe. Valley District Greene. Madison. Page. Rappahannock. Rockingham. Shenandoah. Warren. Washington:	R. D. Hollowell, M. D	Harrisonburg	Health officer.
Chelan Clark	C. R. Fargher, M. D R. W. Armstrong, M. D C. L. Dixon, M. D H. L. Eldridge, M. D W. O. Wisner, M. D J. E. Vanderpool, M. D R. J. Skaife, M. D Lloyd Moffitt, M. D	Wenatchee Vancouver Seattle Everett Spokane Walla Walla Colfax Yakima	County health officer. Do. Do. Do. Do. Do. Do. Do.
Berkeley Boone Fayette Hancock Harrison Kanawha Logan Marshall Monongalia Ohio Prestr n Raleig h Wood	Claude A. Thomas, M. D. R. L. Hunter, M. D. H. H. Puckett, M. D. T. E. Cato, M. D. J. Kemper, M. D. John Thames, M. D. W. G. C. Hill, M. D. R. C. Farier, M. D. R. M. Pedicord, M. D. E. R. Davies, M. D. W. W. Hume, M. D. A. D. Knott, D. P. H.	Martinsburg Madison Fayetteville New Cumberland Clarksburg Charleston Logan Moundsville Morgantown Wheeling Kingwood Beckley Parkersburg	Do. Do. Do. Do. Do. Do. Do. Do. Do. Do.

¹⁰ Bicounty project.

DEATHS DURING WEEK ENDED AUG. 31, 1935

(From the Weekly Health Index, issued by the Bureau of the Census, Department of Commerced

	Week ended Aug. 31, 1935	Correspond- ing week, 1934
Data from 86 large cities of the United States: Total deaths. Deaths per 1,000 population, annual basis. Deaths under 1 year of age Deaths per 1,000 population, annual basis. Deaths under 1 year of age per 1,000 estimated live births. Deaths per 1,000 population, annual basis, first 35 weeks of year. Data from industrial insurance companies: Policies in force. Number of death claims. Death claims per 1,000 policies in force, annual rate. Death claims per 1,000 policies, first 35 weeks of year, annual rate.	6, 681 9, 3 530 48 11. 6 67, 554, 445 10, 659 8, 2 10, 0	6, 667 9, 3 541 51 11, 6 67, 373, 367 11, 327 8, 8 10, 2

PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

UNITED STATES

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CURRENT WEEKLY STATE REPORTS

These reports are preliminary, and the figures are subject to change when later raturns are received by the State health officers

Reports for Weeks Ended Sept. 7, 1935, and Sept. 8, 1934

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended Sept. 7, 1935, and Sept. 8, 1934

	Diph	theria	Influ	Influenza		Measles		Meningococcus meningitis	
Division and State	Week ended Sept 7 1935	Week ended Sept. 8 1934	Week ended Sept. 7 1935	Week ended Sept. 8 1934	Week ended Sept. 7 1935	Week ended Sept. 8 1934	Week ended Sept. 7 1935	Week ended Sept. 8 1934	
				-					
New England States: Maine New Hampshire	1	4			8	5	0	1	
Vermont Massachusetts Rhode Island	2 1	9 4			4 13 2	1 15 6	0 1 0	0	
Connecticut Middle Atlantic States:	3	1			1	8	1		
New York New Jersey	24 11	29 2	¹³	14 7	81 12	44 9	5 2	4	
Pennsylvania East North Central States:	21	23			20	70	3	0	
Ohio Indiana	15 32	29 19	1 39	6 7	19 3	38 10	7 2	0 2 5	
Illinois Michigan	32 7	25 4	6	8	16 21	27 8	6 2	0	
Wisconsin West North Central States:	1	1	11	15	36	65	1	0	
Minnesota ² Iowa	7 12	5 5	1	1	4	15 3	2 0	0	
Missouri North Dakota	23	21 3	13	37 	4 5	6 6	2	2	
South Dakota Nebraska	1 2 5	4 9 5		2	1 5	13 2 5	1 0 0	001	
Kansas ² Boutn Atlantic States: Delaware	2	9		-	1	2	0	0	
Maryland ³ District of Columbia	1	4	1	77	4	1	4	1	
Virginia J	20	31 24		25	4	19 2	2	ī	
West Virginia North Carolina 4 South Carolina	28 20	68 3	4 94		6 1	27 13	4	. 1 . 0	
Georgia ^s	26 7	22 17	2	1	2	8	ŏ	0	
East South Central States: Kentucky		51	3		3	35	0.	- 0	
Tennessee 4	22 31	25 61	29 27	29 1	17	11 16	3 1 1	1	
Mississippi ³	26	15					1 ' l'	1	

See footnotes at end of table.

(1320)

Cases of c	ertain communicable	diseases reported	by telegraph by	State health officers
•	for weeks ended Sep	t. 7, 1935, and S	epť. 8, 1934—Čo	ontinued

	Dipt	Itheria	Infl	lienza	Me	asles		gococcus ingitis
Division and State	Week ended Sept. 7 1935	Week ended Sept. 8 1934	Week ended Sept. 7 1935	Week ended Sept. 8 1934	Week ended Sept. 7 1935	Week ended Sept. 8 1934	Week ended Sept. 7 1935	Week ended Sept. 8 1934
West South Central States: Arkansas Louisiana Oklahoma ⁶	35 23 19	9 2 5	7 17 12	3 2 18	471	3	2 0 1	1 0 0
Texas ^s Mountain States: Montana	76 1	38	16	36 6	1	27 12	0	0
Idaho ² Wyoming Colorado New Mexico	7	2 1 4 1			3 4 1	1 	0 0 1 0	0 0 0
Arizona ³	2	2	6	3	1	42	0	0
Washington Oregon California	28	1 14	5 15	8 12	13 32 73	18 3 22	1 0 3	0 0 1
Total	679	607	346	435	438	587	62	24
First 36 weeks of year	19, 777	21, 995	105, 025	50, 511	697, 342	670, 288	4, 354	1, 694
	Polion	yelitis	Scarlet fever		Smallpox		Typhoid fever	
Division and State	Week ended Sept. 7, 1935	Week ended Sept. 8, 1934	Week ended Sept. 7, 1935	Week ended Sept. 8, 1934	Week ended Sept. 7, 1935	Week ended Sept. 8, 1934	Week ended Sept. 7, 1935	Week ended Sept. 8, 1934
New England States: Maine	17	0	11	10	0	0	3	0
Maine	3 4 169 31	1 1 1 0	3 1 32 3	2 8 45 2	0 0 0	0000	0 4 7 0	0 1 5
Middle Atlantic States: New York	38 414 72	2 10 5	8 108 25	8 125 19	0 1 0	0	1 35 15	1 28 9
New Jersey Pennsylvania East North Central States:	9 2	3	52 111	82 138	Ŏ 0	Ŏ 1	16 54	25
Ohio Indiana Illinois Michigan Wisconsin	3 22 76 4	14 9 14 6	43 130 31 59	40 133 50 41	0 0 0 0	1 1 0 1	18 47 16 6	68 37 54 67 9
Wisconsin West North Central States: Minnesota ² Iowa Missouri	5 5 3 0	4 4 0	31 18 54	8 19 32	0	0	5 7 20	5 12 43 3 19
North Dakota South Dakota Nebraska Kansas ¹	0 0 0 1	4 0 1 3 0 5	2 10 9 17	5 1 14 18	1 0 6 1	0 0 3 0	1 1 1 17	3 19 4 12
South Atlantic States: Delaware Maryiand ^a District of Columbia Virginia ^a West Virginia North Carolina ^a South Carolina	0 11 5 16 3 11	0 0 6 5 1 0	4 18 10 19 45 36 7	1 22 8 55 29 46 5	0 0 0 0 1 0	0 0 0 0 0 0 0 0	1 16 4 41 16 16 24	2 9 2 41 43 15 15
South Carolina Georgia ^s Florida ^s	1 0 0	0	9 4	5 15 2	0	0	16 1	31 0

See footnotes at end of table.

September 20, 1985

1322

	Polion	nyelitis	Scarlet fever		Smallpox		Typhoid fever	
Division and State	Week ended Sept. 7, 1935	Week ended Sept. 8, 1934						
East South Central States:					-			
Kentucky	42	18	57	42	0	2	96	77
Tennessee 4	3	4	27	37	1	0	50	36
Alabama 4	2	1	4	19	0	0	15	19
Mississippi 3	0	1	9	9	0	0	13	10
West South Central States:		1						
Arkansas		1	8	5	0	0	7	16
Louisiana	2	0	3	3	0	0	25	18
Oklahoma ⁶	1	0	13	4	1	0	21	18 23 37
Texas 4	3	2	21	39	1	0	70	37
Mountain States:				1				
Montana	1	36	9	1	2	0	8	8
Idaho 1	0	6	4	1	1	0	4	0
Wyoming	Ó	1	6	1	- O·	···· • 0	2	0
Colorado	1	1	21	17	0	2.10.12	5 2	9
New Mexico	Ō	Ō	5		0.10	. 0	2	. 7
Arizona ²	l i	15	2	2	* 0	Ō	5	5
Utah 3	Ī	2	14	2	Ō	Ō	Ō	: Ó
Pacific States:		-		-		, , ,	-	
Washington	1	42	8	19	18	2	1	
Oregon		5	14	17	3	ō	5	Š
California	24	49	75	64	2	Ō	15	7
Total	1,007	294	1, 210	1, 265	39	13	758	842
First 36 weeks of year	6, 424	4, 982	183, 421	151, 177	5, 407	3, 796	11, 472	13, 650

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended Sept. 7, 1935, and Sept. 8, 1934-Continued

New York City only.
 Epidemic encephalitis, week ended Sept. 7, 1935, 6 cases, as follows: Minnesota, 2; Kansas, 2; Idaho, 1;

A Diverse of the provide the provided set of the prov

7; Texas, 5. • Exclusive of Oklahoma City and Tulsa.

SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of cases reported monthly by States is published weekly and covers only those States from which reports are received during the current week.

State	Menin- gococ- cus menin- gitis	Diph- theria	Influ- enza	Malaria	Measles	Pel- lagra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
May 1935 Hawaii Territory Wyoming July 1935	4 0	4 3	5		5 245		0	3 83	0 28	2 2
California Montana New York South Carolina August 1935	16 2 48	123 16 91 204	96 15 166	18 1 11 1, 125	1, 615 130 4, 599 12	22 	142 0 148 9	421 11 872 9	17 17 0	38 10 51 110
Delaware	2	2			10		8	8	Ó	13

September 20, 1935

1414 9 1000	0 449 1000	Cary 1000
Chicken pox: Cases Hawaii Territory	Food poisoning: Cases California 35 German measles: 594 Montana 19 New York 1, 391 Granuloma, coecidioidal: 21 California 4 Hookworm disease: 223 Impetigo contagiosa: 1 Montana 1 Jaundice (spidemic): 2 California 419 Montana 36 South Carolina 78 Ophthalmia neonatorum: 7 California 1 New York 7 South Carolina 7 Ophthalmia neonatorum: 6 California 6 New York 7 South Carolina 3 Paratyphoid fever: 3 California 68 New York 3 South Carolina 68 New York 3 South Carolina 50 Rabies in animals: 68 California 68 New York ' 3 <	Septic sore throat: Cases California
		August 1935 Delaware: Chicken pox

WEEKLY REPORTS FROM CITIES

City reports for week ended Aug. 31, 1935

This table summarizes the reports received weekly from a selected list of 140 cities for the purpose of showing a cross section of the current urban incidence of the communicable diseases listed in the table. Weekly reports are received from about 700 cities, from which the data are tabulated and filed for reference.

										1	
	Diph- theria			Mea- sles	Pneu- monia	ler		Tuber- culosis	puoia	Whoop- ing	Deaths, all
State and city	CASES	Cases	Deaths	Cases	deaths	fever cases	cases	deaths	fever cases	cough cases	causes
Maine: Portland	0	0	0	1	2	0	0	0	0	0	19
New Hampshire:	ľ	1		-	-	Ū					
Concord											7
Nashua	0			0		0	0		0	0	
Burlington	0		0	0	0	0	0	0	3	0	8
	0		0	0	0	0	0	0	0	· 2	4
	1		2	10	6	13	6	7	2	16	173
Fall River	Ô		ĩ	Õ	i	2	ŏ	l il	õ	5	19
Springfield	Õ		Ō	Ŏ	Ō	Ō	Ō	ī	1	5	26 46
	0		0	1	3	5	0	0	0	0	46
	A		0	0	•	0			0	0	16
Providence	ŏ	1	ŏ	5	ŏ	ŏ	ŏ	ĭ	ŏ	Ă I	60
Connecticut:										_	
										5	21 39
								1		å	39
	•		Ů	-	, v	Ů	Ŭ	•	Ť	-	
			0								123 1, 154
				10							1, 134
Syracuse	ô		ŏ	13	õ	3	ŏ	ĭ	ĭ	23	33
Rutland Massachusetts: Boston Fall River Springfield Worcester Providence Connecticut: Bridgeport Hartford New York: Buffalo New York: Buffalo New York	0 1 0 0 0 0 0 0 0 0 14 1	 1 6	0 21 00 00 00 00 02 02	0 10 0 1 0 5 2 0 1 1 4 48 0	0 9 1 0 3 0 0 3 0 0 6 6 6 2	0 13 2 0 5 0 0 3 0 0 12 20 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 7 1	0 2 0 1 0 0 1 0 19 0	2 16 5 5 0 0 4 5 6 9 6 137 5	1,

¹ Exclusive of New York City.

July 1935

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May 1955

Roanoke

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Ty-Whoop Influenza Scar-Diph-Mea-Pneu-Small Tuber-Deaths, phoid let ing State and city theria sles monia pox culosis all cough fever fever Cases cases deaths cases deaths CAUSOS Cases Deaths cases cases cases New Jersey: Camden Newark Trenton..... Ō Ô Ó Õ Ô Ó Ô Pennsylvania: Philadelphia... ž õ ĭ Pittsburgh Ó Reading ō Ô ō Õ Ô Õ Ō ---Õ Õ ō Õ Õ ā Scranton Ohio: Cincinnati.... Cleveland.... Ō Columbus.... ī Ó ž Toledo Indiana: Anderson_____ Fort Wayne____ n n O ----Indianapolis... ----South Bend... Terre Haute ... Ô Ó Ō Ô Ó Ò Ô Illinois: Alton. Chicago ġ Ó ŝ Elgin..... Ò ō Õ Ô Õ Õ Õ Õ õ Moline_ Ó Springfield. Michigan: ŏ ŏ ŏ ĭ õ ŏ Ó Ô ĝ Detroit Flint Ô n i O Ô $\widetilde{20}$ Grand Rapids_ Õ Õ Õ Ò Ô Õ Wisconsin: n Kenosha Milwaukee.... A Racine..... A A Superior_____ Minnesota: Ð Duluth. Minneapolis Ó İ Ó St. Paul..... Õ Ô Ō ã ŝ Ô ī ī <u>39</u> Iowa: Cedar Rapids. Des Moines... Ó Ō ō ----Sioux City ž ī Õ Õ Õ ī Õ Õ õ õ Waterloo Missouri: Kansas City... St. Joseph.... St. Louis ī Õ ī ō ō ā Õ North Dakota: Fargo. Grand Forks. ō O Ø Ð Õ Ō Ò Minot South Dakota: Aberdeen. Ø Ð Nebraska. Omaha Kansas: Lawrence...... Topeka..... n Ð A ----Wichita Delaware: Wilmington ... Ð Maryland: Baltimore Cumberland ... Ō Ó Ō Ô A A Frederick_ District of Columbia Washington_ Б Virginia: Lynchburg 4 Richmond ø Ð

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City reports for week ended Aug. 31, 1935-Continued

State and city Diph-		· 1	nfluenza M		Pneu- monia	Scar- let	Small- pox	Tuber- culosis	Ty- phoid	Whoop ing	Deaths
State and city	Cases	Cases	Deaths	sles cases	deaths	fever cases	cases	deaths	fever cases	cough cases	Causes
West Virginia:	10			0			0	0	0	0	
Charleston Huntington	12 0		0	ŏ	2	1 5	ŏ	۷ I	ŏ	ŏ	4
Wheeling	ŏ		0	ŏ	0	ĭ	ŏ	1	ĭ	ľ	10
North Carolina:	-										
Raleigh Wilmington	0		0	·····ō	i	0	0	0	0	0	9
Winston-Salem South Carolina:	Ő		Ó	0	2	0	0	0	0	0	16
Charleston	0		0	0	0	0	0	1	0	0	11
Columbia Florence	0		0	0	20	0	0	· 0 0	0 1	0	31 14
Greenville	ĕ		ŏ	ŏ	ŏ	ŏ	ŏ	ĭ	ō	ŏ	15
Georgia:	-										
Atlanta	6	1	0	0	2	1	0	2	1	4	67
Brunswick Savannah	0		0	: 0		0	0	0	0 1	2 0	3 17
Florida:	4		v I	v	1	•	v	v	-	v	14
Miami	8		0	1	1	1	0	1	0	0	23
Tampa	2	1	1	1	0	2	0	0	0	0	19
Kentucky:				•		0	o			0	
Ashland Covington	1 0		0	0 1	0	1 I	ŏ	0	1	ŏ	
Lexington	ĭ		ŏ	ô	2	i	ŏ	2	ĭ	ŏ	19
Louisville	2		Ő	1	Ō	7	Ó	9	2	1	82
Tennessee:	•									0	~
Knoxville Memphis	3 1		0	1	0 0	02	0	2 6	1	15	22 82
Nashville	2		ŏ	ō	2	õ	ŏ	ŏ	ĭ	5	43
Alabama:						-	. ,				
Birmingham	1	1	0	0	0	2	0	4	1	1	56
Mobile	2 1		1	0	1	0	0	3	00	0	26
Montgomery	1		٩	. "	v	- 1	۳I		۰	v I	
Arkansas:										1	
Fort Smith									1	0	
Little Rock Louisiana:	0	1	0	. 0	1	1	0	2	- 1		
New Orleans	9		1	0	8	2	0	8	1		135
Shreveport	ĭ		Ō	Ō	2	2	Ő	3	Ō	0	37
Texas:				.				2			
Dallas Fort Worth	6 1		0	1	2 1	34	0	ő	0	1	60 23
Galveston	ô		ŏ	ŏ	il	0	ŏ	ŏ	ĭ	ô	ñ
Houston	5		0	0	4	2	0	5	4	0	76
San Antonio	2		0	0	1	0	0	4	1	0	5 8
Montana:											
Billings Great Falls	0		0	0	1	0	0	0	0	2	10
Great Falls	0		0	0	20	1	0	0	0	93	10 1
Helena Missoula	ŏ		ŏ	ŏ	ŏ	ō	ŏ	ŏ	ŏ	ŏ	6
daho:	۳I										
Boise	0		0	1	2	0	0	0	0	1	9
Colorado:											
Colorado Springs	0		0	0	1	2	0	1	0	2	13
Denver	9		Ő	Ó	3	5	0	2	1	2	63
Pueblo	0		0	0	0	1	0	0	0	2	5
New Mexico:	1		0	0	0	0	0	1	o	4	9
Albuquerque Utah:	- 1		۲,	۳I		٩		1			•
Salt Lake City_	0		0	0	3	4	0	2	2	19	46
Nevada:	<u> </u>										E
Reno	0		0	0	0	0	0	0	0	0	5
Washington:		1		1			1			1	
Seattle	0		0	3	4	5	0	2	2	13	75
Spokane	0.		0	2	1	2	0	1	0	10	22 22
Tacoma	0		0	0	2	-	0	U I	"	۷	44
Portland	0		0	9	2	7	0	0	0	0	63
Salem	ŏ.			i .		Ó	0 -		0	0 -	
alifornia:			.					1.	0	3	252
Los Angeles	10		1	11	82	73	0	15 2	1	2	252 26
Sacramento						5	ŏ	12	ô	15	155
San Francisco	0.		1	24	9	<i>D</i> I		14 1		10 1	100

9874°---35-----3

State and city	Meningococcus meningitis		Polio- mye- litis	State and city		gococcus ngitis	Polio- mye- litis
-	Cases Deaths Cases		Cases	Deaths	Cases		
Maine:				Iowa:			
Portland	0	0	2	Des Moines	0	0	1
Massachusetts:				Missouri:		1	
Boston		0	75	St. Louis	0	0	1
Fall River	0	0	25	North Dakota:			
Springfield		0	1	Minot	1	1	0
Worcester	0	0	2	South Dakota: Aberdeen			
Rhode Island: Pawtucket				Nebraska:	1	0	0
Providence	0	0	4 24	Omaha	3	2	8
Connecticut:	Ű	0	24	Kansas:	3	Z	0
Bridgeport	0	0	5	Wichita	1	1	0
Hartford	ŏ	ŏ	3	Maryland:	•		U U
New Haven		ŏ	3	Baltimore.	3	5	4
New York:	, v	, , , , , , , , , , , , , , , , , , ,	Ŭ	District of Columbia:	•	Ŭ	-
New York		2	366	Washington	2	1	5
Rochester		1	0	Virginia:			
Syracuse	0	0	3	Lynchburg	0	0	4
New Jersey:				Norfolk	0	0	• 1
Newark	0	0	2	Richmond	0	0	2
Trenton	1	0	0	Kentucky: Louisville			10
Pennsylvania: Philadelphia	1	1	10	Tennessee:	0	0	19
Ohio:	. 1	1	10	Memphis	0	1	0
Cleveland	0	0	5	Alabama:	0	- 1	U
Indiana:	v	v		Birmingham	0	0	. 1
Indianapolis	0	0	2	Montgomery	ŏ	ŏ	. î
Illinois:		, i	-	Louisiana:	Ť	Ť	· •
Chicago	4	3	6	New Orleans	1	0	. 0
Elgin	.0	0	1	Texas:			
Michigan: Detroit	1.1			Galveston	0	1	el te 🕚
Detroit	0	0	20	Oregon:			
Flint.	0	0	10	Portland	1	0	0
Grand Rapids	0	- 0	5	California:			
Wisconsin: Racine		0	1	Los Angeles	1	0	5
Minnesota:	0		1	Sacramento	0	U	
Minneapolis	0	0	1				
St. Paul	1	ŏ	i				
· · · · · · · · · · · · · · · · · · ·	- 1		- 1	I		1	

City reports for week ended Aug. 31, 1935-Continued

Epidemic encephalitis.—Cases: Pittsburgh, 1; Toledo, 1; Chicago, 1; Detroit, 1; St. Louis, 1; Birmingham, 1. Pellagra.—Cases: Boston, 1; Columbia, 1; Louisville, 3; Memphis, 1; Birmingham, 2; Los Angeles, 1; Sacramento, 1. Typhus fever.—Cases: New York, 1; Charleston, S. C., 1; Atlanta, 8; Savannah, 2; Mobile, 4; Fort Worth, 3,

FOREIGN AND INSULAR

CUBA

Habana—Communicable diseases—4 weeks ended August 31, 1935.— During the 4 weeks ended August 31, 1935, certain communicable diseases were reported in Habana, Cuba, as follows:

Disease	Cases	Deaths	Disease	Cases	Deaths
Diphtheria Malaria. Poliomyelitis	1 1 39 1	2	Scarlet fever Tuberculosis Typhoid fever	2 29 1 96	12 4

¹ Includes imported cases.

Provinces—Notifiable diseases—4 weeks ended August 24, 1935.— During the 4 weeks ended August 24, 1935, cases of certain notifiable diseases were reported in the Provinces of Cuba as follows:

Disease	Pinar del Rio	Habana	Matan- zas	Santa Clara	Cama- guey	Oriente	Total
Cancer Cerebrospinal meningitis Chicken pox	1			6 1 2	6	3	16 1 2
Diphtheria Hookworm disease		. 3	1	2 3	1	2	84
Leprosy Malaria Measles	520	48 2	82 3	428 4	427	450	1, 964 9
Poliomyelitis Tuberculosis Typhoid fever	2 9	9 90	1 18 25	3 40 77	23 87	29 27	121 315

SCOTLAND

Typhoid fever.—According to information dated August 16, 1935, 66 cases of typhoid fever with 3 deaths had been reported in Scotland since August 5, 1935. It appears that all the patients were members of a pilgrimage to Lourdes, France, which left Glasgow, Scotland, on July 12, 1935, on the S. S. Athenia. A later report also states that 40 cases of typhoid fever had been reported in Glasgow, Scotland, up to August 20, 1935.

(1327)

SWITZERLAND

Infectious diseases—1934.—During the year 1934, cases of certain infectious diseases were reported in Switzerland as follows:

Disease	Cases	Disease	Cases
Cerebrospinal meningitis Chicken pox Diarrhea. Diphtheria and croup. German measles Influenza. Lethargic encephalitis. Measles Mumps.	43 1, 635 1 1, 775 108 771 4 12, 798 627	Paratyphoid fever Poliomyelitis Scarlet fever Shingles Trach Jma Tuberculosis Typhoid fever Whooping cough	28 80 3, 473 112 10 2, 988 98 2, 120

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER

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NOTE.—A table giving current information of the world prevalence of quarantinable diseases appeared in the PUBLIC HEALTH REPORTS for August 30, 1935, pages 1194-1210. A similar cumulative table will appear in the PUBLIC HEALTH REPORTS to be issued September 27, 1935, and thereafter, at least for the time being, in the issue published on the last Friday of each month.

Cholera

India.—During the week ended August 31, 1935, 1 case of cholera with 1 death was reported in Cochin, and 3 cases of cholera were reported at Negapatam, India.

Siam—Bangkok.—During the week ended August 31, 1935, 1 case of cholera with 1 death was reported at Bangkok, Siam.

Plague

Brazil—Pernambuco State.—According to information dated September 10, 1935, 204 cases of plague with 72 deaths were reported up to August 24, 1935, in the interior of Pernambuco State, Brazil.

China—Manchuria.—A report dated August 29, 1935, states that up to August 27, 1935, 78 deaths from bubonic plague were reported in the Fuyu, Shuangshan, and Changling districts of central Manchuria, China, the first cases of which occurred along the Taoan Nungan Railway.

Typhus Fever

Straits Settlements—Singapore.—During the week ended August 3, 1935, one case of typhus fever was reported at Singapore, Straits Settlements.

Yellow Fever

Brazil—Minas Geraes State—Theophilo Ottoni.—During the week ended August 31, 1935, eight cases of yellow fever were reported at Theophilo Ottoni, Minas Geraes State, Brazil.