

Notes on preventive medicine for medical officers, United States Navy : instructions to medical officers / Department of the Navy, Bureau of Medicine and Surgery.

Contributors

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6014

Notes on Preventive Medicine for Medical Officers, United States Navy.

INSTRUCTIONS TO MEDICAL OFFICERS.

DEPARTMENT OF THE NAVY,
BUREAU OF MEDICINE AND SURGERY,
Washington, D. C., November 2, 1918.

NOTES ON THE PRESENT EPIDEMIC OF INFLUENZA.

Up to and including November 2, 1918, there have been reported from all ships and stations 60,625 cases of influenza, with 3,062 deaths. These figures do not include the number of new cases and the number of deaths occurring in ships of the Atlantic Battleship Fleet for the week ended November 2, 1918. There are included, however, 1,290 old cases not previously reported. There were 1,947 cases reported during the week ended November 2, 1918, as compared with 2,991 for the previous week. Figures for the week ended October 26 have been corrected to date.

The following table furnishes the latest information of a statistical nature:

| | Total influenza to date. | New cases, week ended— | | Total deaths. | Case fatality rate, per cent. |
|--|--------------------------|------------------------|----------|---------------|-------------------------------|
| | | Nov. 2. | Oct. 26. | | |
| First naval district, Boston area..... | 3,996 | 83 | 52 | 215 | 5.38 |
| First naval district, Portsmouth area..... | 575 | 8 | 8 | 30 | 5.04 |
| Second naval district, Newport area, exclusive of training station..... | 1,140 | 2 | 33 | 158 | 5.69 |
| Naval training station, Newport, R. I..... | 1,635 | 5 | 6 | | |
| District section base, New London, Conn..... | 800 | 9 | 13 | 47 | 4.93 |
| Submarine base, New London, Conn..... | 153 | 2 | 10 | | |
| Third naval district, exclusive of Pelham Park..... | 5,099 | 267 | 390 | 270 | 5.29 |
| Naval training camp, Pelham Park..... | 2,612 | 28 | 56 | 108 | 4.13 |
| Fourth naval district, exclusive of receiving ship at Philadelphia and Wissahickon Barracks, Cape May, N. J..... | 2,105 | 56 | 70 | 237 | 6.56 |
| Receiving ship at Philadelphia, Pa..... | 1,278 | 6 | 3 | | |
| Wissahickon Barracks, Cape May, N. J..... | 229 | 0 | 3 | | |
| Fifth naval district, exclusive of training station, Hampton Roads, Va., receiving ship at Norfolk, Quantico, and Annapolis..... | 1,047 | 10 | 29 | 84 | 4.00 |
| Receiving ship at Norfolk..... | 1,053 | 3 | 10 | | |
| Naval training station, Hampton Roads, Va..... | 3,143 | 60 | 27 | 166 | 5.28 |
| Marine barracks, Quantico, Va..... | 2,518 | 195 | 75 | 90 | 3.57 |
| Naval Academy, Annapolis, Md. (midshipmen)..... | 1,071 | 2 | 3 | 10 | .93 |
| Naval Academy, other personnel..... | 1,018 | 0 | 13 | 17 | 1.67 |
| Sixth naval district, exclusive of training camp, Charleston, S. C., and marine barracks, Paris Island, S. C..... | 857 | 12 | 36 | 50 | 2.61 |
| Naval training camp, Charleston, S. C..... | 1,056 | 74 | 90 | | |
| Marine barracks, Paris Island, S. C..... | 635 | 283 | 207 | 6 | .94 |
| Seventh naval district, exclusive of naval station, Key West, and air station, Miami, Fla..... | 280 | 4 | 30 | 28 | 3.56 |
| Naval training camp and air station, Key West, Fla..... | 506 | 21 | 14 | | |
| Naval air station, Miami, Fla..... | 353 | 4 | 12 | 10 | 2.83 |
| Eighth naval district, exclusive of naval station, New Orleans, naval station, Pensacola, and naval training camp, Gulfport, Miss..... | 294 | 33 | 48 | 7 | 2.38 |
| Naval station, New Orleans, La..... | 1,001 | 11 | 32 | 34 | 3.39 |
| Naval station, Pensacola, Fla..... | 1,469 | 20 | 25 | 24 | 1.63 |
| Naval training camp, Gulfport, Miss..... | 868 | 3 | 46 | 20 | 2.30 |

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| | Total influ- enza to date. | New cases, week ended— | | Total deaths. | Case fatality rate, per cent. |
|--|-------------------------------|------------------------|------------------|------------------|----------------------------------|
| | | Nov. 2. | Oct. 26. | | |
| Ninth, tenth, and eleventh naval districts, exclusive of naval training station, Great Lakes, Ill..... | 1, 470 | 27 | 46 | 65 | 4. 42 |
| Naval training station, Great Lakes, Ill..... | 9, 690 | 40 | 69 | 866 | 8. 93 |
| Twelfth naval district, exclusive of naval training camp, San Diego, Cal., naval station, Mare Island, Cal., and naval training station, San Francisco, Cal..... | 1, 432 | 284 | 439 | 32 | 2. 23 |
| Naval training camp, San Diego, Cal..... | 1, 064 | 74 | 70 | 4 | . 37 |
| Naval station, Mare Island, Cal..... | 1, 292 | 144 | 273 | 70 | 5. 41 |
| Naval training station, San Francisco, Cal..... | 0 | 0 | 0 | 0 | 0 |
| Thirteenth naval district, exclusive of training camp, Seattle, Wash., and navy yard, Puget Sound, Wash..... | | | | | |
| Naval training camp, Seattle, Wash..... | 846 | 18 | 32 | 33 | 3. 90 |
| Navy yard, including training camp..... | 705 | 5 | 11 | 61 | 8. 65 |
| Pacific Fleet..... | 999 | 4 | 0 | 57 | 5. 70 |
| Atlantic Battleship Fleet..... | ¹ 4, 070 | ¹ 150 | ² 720 | 175 | 4. 29 |
| Miscellaneous reports..... | 3, 316 | | 547 | 93 | 2. 80 |
| Total..... | 60, 625 | 1, 947 | 2, 991 | 3, 062 | 5. 05 |

¹ Oct. 26.² Oct. 19.

To date (Nov. 2) no case of influenza has occurred at the United States naval training station, San Francisco, Cal. The senior medical officer of the station reports that vigorous measures have been adopted to prevent the introduction of the disease and to limit its spread should it appear.

September 23 the commandant, upon recommendation of the medical officer, placed the station in absolute quarantine. All officers, enlisted men, and civilians were recalled and required to remain on the island. All communication with San Francisco and Oakland was discontinued except to receive supplies and recruits or other men who reported and necessarily had to be received.

A special detail is maintained at the boat landing of the station and no contact closer than 20 feet is permitted between tugs' crews and persons on the dock.

All recruits and others who of necessity must be received from the mainland have the pharynx and nasal passages thoroughly sprayed with a 10 per cent solution of silvol and are required to put on gauze face masks before being allowed to board tugs bound for the island. They must wear the masks until arrival in the quarantine camp, where they remain for several days. All men in the quarantine camp are required to keep at a distance of 20 feet from each other and to have the throat and nasal passages sprayed with a 10 per cent solution of silvol three times daily.

The entire personnel of the station—officers, enlisted men, and civilians—are required to have the pharynx and nasal passages sprayed once daily with a 10 per cent solution of silvol. All drinking fountains are flamed with a gasoline torch and all telephone transmitters are disinfected twice daily.

All medical officers and Hospital Corps men are required to wear masks while in attendance upon respiratory cases.

There are 864 men quartered in the main barracks; all others, with the exception of a few special details, are under canvas. In barracks each cot is provided with a sneeze screen extending around the head and along one side, 2½ feet above the level of the cot.

Thirty-eight yeomen (women) are quartered in the building designed for chief petty officers, where they are provided with their own messing, bathing, and recreation facilities. All chief petty officers were moved into tents.

It is proposed to vaccinate the personnel if a suitable vaccine can be developed.

Every effort is made to provide entertainment in the way of outdoor vaudeville and athletic exhibitions and so far the quarantine restrictions do not appear to have become irksome.

Figures at present available seem to indicate that in transports about 9.7 per cent of Army troops developed influenza with a case fatality rate of 6.6 per cent. About 6.4 per cent



of the naval personnel on board have suffered with a case fatality rate of 2.5 per cent. Practically all cases occurred on the eastbound trip, but few developing on the return voyage.

Influenza is reported in Guam. It is said to be widespread but not severe.

It is reported from the U. S. S. *Nashville* that cases of influenza which have developed aboard during the recent epidemic in the United States have been much milder than those which developed while the vessel was in Europe and that all new cases occurred in men who were received in drafts after the ship arrived in the United States. None of the personnel who had the disease in Europe was attacked during the second outbreak.

DEATHS (STILLBIRTHS EXCLUDED) REPORTED DURING THE WEEK ENDED OCTOBER 26, 1918,
WITH DEATH RATES, IN LARGE CITIES OF THE UNITED STATES.

| Cities. | Week ended Oct. 26, 1918. | | C=corresponding week, 1917; A=average of week, 1913-17. | |
|-----------------------|------------------------------|---------------------------|---|---------------------------|
| | Total deaths. | Annual rate per 1,000. | Total deaths. | Annual rate per 1,000. |
| Albany..... | 229 | 112.0 | C 28 | 13.7 |
| Atlanta..... | 132 | 35.1 | C 62 | 16.5 |
| Baltimore..... | 1,358 | 119.1 | A 175 | 15.6 |
| Birmingham..... | 173 | 47.5 | A 51 | 15.4 |
| Boston..... | 436 | 29.6 | A 197 | 13.8 |
| Buffalo..... | 910 | 99.7 | A 152 | 17.1 |
| Cambridge..... | 53 | 24.2 | A 27 | 12.6 |
| Chicago..... | 3,137 | 64.2 | A 571 | 12.2 |
| Cincinnati..... | 395 | 49.7 | C 109 | 13.7 |
| Cleveland..... | 633 | 47.7 | C 185 | 14.0 |
| Columbus..... | 199 | 47.2 | C 75 | 17.8 |
| Dayton..... | 162 | 65.5 | A 27 | 11.1 |
| Denver..... | 217 | 42.2 | A 59 | 12.2 |
| Fall River..... | 154 | 61.9 | C 29 | 11.6 |
| Grand Rapids..... | 45 | 17.7 | C 27 | 10.6 |
| Indianapolis..... | 197 | 36.3 | C 76 | 14.0 |
| Jersey City..... | 534 | 89.1 | C 72 | 12.0 |
| Kansas City, Mo..... | 271 | 46.2 | C 92 | 15.7 |
| Los Angeles..... | 448 | 43.6 | A 112 | 12.4 |
| Louisville..... | 250 | 54.1 | C 66 | 14.3 |
| Lowell..... | 117 | 53.3 | A 29 | 13.4 |
| Memphis..... | 219 | 75.2 | C 62 | 21.3 |
| Milwaukee..... | 253 | 29.6 | A 84 | 10.2 |
| Minneapolis..... | 237 | 33.1 | C 52 | 7.3 |
| Nashville..... | 175 | 77.2 | C 35 | 15.4 |
| Newark..... | 554 | 69.0 | A 93 | 12.1 |
| New Haven..... | 230 | 78.8 | C 39 | 13.4 |
| New Orleans..... | 868 | 120.1 | A 132 | 18.8 |
| New York..... | 3,783 | 61.6 | A 1,250 | 11.9 |
| Oakland..... | 190 | 48.0 | A 38 | 10.4 |
| Omaha..... | 188 | 55.1 | C 44 | 13.7 |
| Philadelphia..... | 3,638 | 109.3 | 437 | 13.4 |
| Pittsburgh..... | 1,043 | 92.8 | C 173 | 15.4 |
| Providence..... | 312 | 62.6 | C 58 | 11.6 |
| Richmond..... | 201 | 66.0 | C 46 | 15.1 |
| Rochester..... | 273 | 53.8 | C 64 | 12.6 |
| St. Louis..... | 410 | 27.8 | C 178 | 12.1 |
| St. Paul..... | 111 | 22.9 | C 54 | 11.2 |
| San Francisco..... | 697 | 77.2 | C 128 | 14.2 |
| Seattle..... | 212 | 30.2 | A 48 | 7.5 |
| Spokane..... | 62 | 20.5 | C 19 | 6.3 |
| Syracuse..... | 180 | 59.2 | C 41 | 13.5 |
| Toledo..... | 198 | 51.1 | A 51 | 14.0 |
| Washington, D. C..... | 505 | 71.3 | A 101 | 14.7 |
| Worcester..... | 156 | 49.0 | C 44 | 13.8 |
| Total..... | 27,745 | 63.3 | ..... | ..... |

In the cities listed above there have been 59,089 deaths from influenza and pneumonia during the seven weeks ended October 26, 1918. The figures by weeks are as follows:

| Disease. | Sept. 14. | Sept. 21. | Sept. 28. | Oct. 5. | Oct. 12. | Oct. 19. | Oct. 26. |
|----------------|-----------|-----------|-----------|---------|----------|----------|----------|
| Influenza..... | 19 | 193 | 904 | 2,718 | 6,809 | 12,303 | 13,086 |
| Pneumonia..... | 299 | 405 | 853 | 2,043 | 4,602 | 7,646 | 7,209 |

NOTES FROM THE UNITED STATES NAVAL TRAINING STATION, NAVAL OPERATING BASE,
HAMPTON ROADS, VA.

The laboratory of the United States naval operating base, Hampton Roads, Va., reports the results of examinations for intestinal parasites as follows:

Method of examination.—The method described by Bass has been followed throughout. A piece of stool approximately the size of a hickory nut is emulsified in 20 c. c. of water in a large test tube and then strained through several layers of gauze into a centrifuge tube to remove the coarser particles. The filtrate is centrifugalized at high speed for eight seconds; the supernatant fluid is poured off and the sediment at the bottom of the tube is again thoroughly emulsified in 15 c. c. of water. It is centrifugalized at high speed for five seconds, the supernatant fluid is poured off, and the residue at the bottom of the tube is emulsified on a slide and examined with the low-power microscope. An effort should be made to place practically all of the residue on the slide after the second washing. Small sections of wooden applicators have been found useful for making the final emulsion on the slide. Centrifuge tubes with rather blunt bottoms are easier to manipulate than those with a finer point. A third washing undoubtedly gives a clearer field for examination, but whether the results obtained justify the time and trouble is questionable. After some experience hookworm eggs may be readily detected despite the finer particles which may, at times, be present when only two washings are given. We do not believe that the method of Bass will enable one to demonstrate all of the positive cases, but the same may be said of all methods of examination. Efforts made to show an increase in the percentage of infections by reexamination of the sediment and other means have been barren of results. The method employed by Kielty and Haverkampp, consisting of a single run in the centrifuge for 15 seconds at high speed followed by immediate examination, has been tried, but is not considered as serviceable as the method of Bass. The method employed by Trabue of depending simply upon emulsification and gravity was employed by him because no centrifuge was available. It is obviously not to be compared with other methods. It is amazing that he obtained so high a percentage of positives with such a simple technique. We believe that the method used by Bass will enable one to find the great majority of eggs present, and that it is a technique to be highly recommended.

Our findings correspond very closely with the figures obtained for recruits in the United States Army as reported by Trabue and by Kielty and Haverkampp. The number of positives varies widely for recruits from different States. However, it may be assumed that recruits from the Southern States will run in the neighborhood of 20 per cent positive for hookworm and that a considerable number will harbor other forms of intestinal parasites. Kielty and Haverkampp found as follows: Recruits examined, 8,277; positive for hookworm, 1,504, or 24.4 per cent. Line officers examined, 152; positive for hookworm, 5.2 per cent. Medical officers examined, 108; positive for hookworm, 6.9 per cent.

Trabue gives: Examined, 3,774; positive for hookworm, 659, or 17 per cent.

Other forms of intestinal parasites were not counted.

In the laboratory at the naval operating base, 1,073 samples of stools have been examined, with the following results: 267, or 24 per cent, were positive for hookworm; 42, or 4 per cent, were positive for trichuris; 29, or 2.70 per cent, were positive for ascaris; 22, or 2.10 per cent, were positive for hymenolepis; 3, or 0.27 per cent, were positive for oxyuris.

In addition to the above, several forms of ova were seen which we were unable to identify. The results of examinations in a small group of hospital patients are included in the list. As the findings did not vary from the others to any degree, it was thought proper to group them together. Any variation noted in the future will be commented upon.

Occurrence of infection by States.—The following list is incomplete in that several units were examined and dismissed before the tabulation by States was begun. The list is a short one, but the overwhelming preponderance of hookworm in the North Carolina contingent is noticeable. This State has contributed more to a high percentage of positives than any other. We may expect our figures to vary greatly as the proportion of recruits from this State rises and falls. It remains to be seen whether the wide distribution and relative frequency of other intestinal parasites in Virginia and West Virginia will remain a constant factor.

Too little attention has been paid to ova other than hookworm. All workers in this laboratory have noticed that when ascaris ova are found they are present in numbers greatly in excess of those commonly present in hookworm infection.

| State. | Hookworm. | Ascaris. | Trichuris. | Hymen- olepis. | Oxyuris. |
|---------------------------|-----------|----------|------------|-------------------|----------|
| North Carolina..... | 111 | 4 | 5 | 5 | 0 |
| Georgia..... | 16 | 0 | 0 | 3 | 0 |
| District of Columbia..... | 1 | 0 | 0 | 1 | 0 |
| Alabama..... | 4 | 0 | 1 | 0 | 0 |
| Florida..... | 4 | 0 | 0 | 1 | 0 |
| Tennessee..... | 3 | 0 | 4 | 0 | 0 |
| Maryland..... | 2 | 1 | 0 | 0 | 1 |
| West Virginia..... | 13 | 4 | 10 | 2 | 2 |
| Virginia..... | 68 | 15 | 15 | 1 | 0 |
| Texas..... | 3 | 0 | 1 | 0 | 0 |
| Mississippi..... | 3 | 0 | 0 | 1 | 0 |
| Missouri..... | 0 | 1 | 0 | 0 | 0 |
| South Carolina..... | 4 | 0 | 1 | 1 | 0 |
| New Mexico..... | 1 | 0 | 0 | 0 | 0 |
| Oklahoma..... | 1 | 0 | 0 | 0 | 0 |

Combined infections:

| | |
|---|----|
| Hookworm and ascaris..... | 10 |
| Hookworm and trichuris..... | 10 |
| Trichuris and ascaris..... | 5 |
| Hookworm and hymenolepis..... | 2 |
| Hookworm, trichuris, hymenolepis, and ascaris combined..... | 1 |

The number of examinations after treatment for intestinal parasites was 122, of which 16 were positive, as follows:

| | |
|---------------------------|---|
| Necator americanus..... | 9 |
| Trichuris trichiura..... | 3 |
| Ascaris lumbricoides..... | 1 |
| Hymenolepis nana..... | 3 |
| Oxyuris vermicularis..... | 0 |

The following relates to garbage production at the United States naval training station, Hampton Roads, Va., for the month of August, 1918:

The total amount of garbage collected was 461,469 pounds, as follows:

| | Pounds. |
|---|---------|
| From the training station..... | 305,243 |
| From the air station..... | 48,212 |
| From the hospital unit..... | 35,395 |
| From the colored labor camp..... | 11,822 |
| From the Pocahontas Hotel..... | 15,774 |
| From residences..... | 45,023 |
| Total burned at incinerator..... | 169,668 |
| Total delivered to contractor..... | 291,901 |
| Average daily amount collected by contractor..... | 9,422 |
| Average daily amount burned at incinerator..... | 5,473 |
| Percentage of month's production taken by contractor..... | 63.2 |
| Percentage of month's production burned at incinerator..... | 36.8 |

The garbage produced per capita per diem was as follows:

| | Pounds. |
|--------------------------------|---------|
| At the Pocahontas Hotel..... | 3.56 |
| At the colored labor camp..... | 1.84 |

At the training station, 0.965 pound, as follows:

| | Pounds. | | Pounds. |
|-------------|---------|-------------|---------|
| Unit C..... | 1.36 | Unit R..... | 1.13 |
| Unit I..... | .85 | Unit S..... | .985 |
| Unit J..... | 1.18 | Unit T..... | .548 |
| Unit K..... | .506 | Unit X..... | 1.16 |

Garbage was collected from unit E galley for only 21 days. For this period the per capita per diem production was 1.12 pounds.

The production per capita per diem for unit H (officers' mess) for 15 days was 1.88 pounds.

The above figures indicate a marked variation in the per capita amount of garbage produced at the various galleys.

NOTES FROM THE UNITED STATES NAVAL STATION, OLONGAPO, P. I.

The variola epidemic in Manila has existed for over six months and, considering the free communication that exists between that city and Olongapo, it is surprising that the disease did not appear here until July 31, 1918, when the first case was reported in a native infant. During the month of August 33 cases of variola and 6 cases of varioloid have been notified. All were in native children, some of whom had been vaccinated, while others had never undergone successful vaccination. The oldest child was 14 years of age; the youngest was 3 months. The majority of those attacked have been from 3 to 6 years old. No case has occurred among the naval personnel, and no adult, either native or American, has developed the disease.

Vaccination and revaccination have been thoroughly performed on the entire naval and civil population of the station. In May of this year over 11,400 vaccinations were made on the naval reservation, and since the appearance of the first case over 6,753 people, including 4,500 children, have been vaccinated. Crews of incoming vessels have also been vaccinated.

Up to September 1, 1918, 1,300 cases of smallpox have been treated at the San Lazare Hospital, Manila, P. I. Of these, over 800 have died—a case fatality rate of approximately 62 per cent. In Olongapo the case fatality rate has been about 45 per cent. There has been but one death in an infant who had previously been successfully vaccinated.

Bacillary dysentery is also epidemic in Manila. From 5 to 10 new cases are being reported each day. The disease, while not epidemic here, is prevalent, however, among the native children, who live in squalor and in insanitary surroundings. This year the typhoon and rainy season is unusually severe, and it is not unreasonable to expect that due to overcrowding, filth, and ignorance infectious diseases will increase rather than decrease during the next two months.

The health of the naval personnel attached to the station has been excellent.

NOTES FROM THE UNITED STATES NAVAL TRAINING STATION, SAN FRANCISCO, CAL.

Of six cases of lobar pneumonia which occurred in the station during the month of August, four were shown to be due to pneumococcus, Type I, one to pneumococcus, Type II, and one to pneumococcus, Type IV. Of two cases of broncho-pneumonia which occurred during the same period, one was shown to be due to pneumococcus, Type I, and one to pneumococcus, Type II. During the same period a fatal case of cerebrospinal meningitis was caused by pneumococcus, Type IV.

One case of cerebrospinal fever occurred and was treated intravenously and intraspinally with antimeningococcus serum. The patient recovered, but developed acute synovitis during convalescence.

Of the venereal diseases appearing at the station during the month, 65 per cent were acquired prior to enlistment.

From January 23 to August 31, 10,074 throat cultures were made to determine the presence of *B. diphtheriae*. Of these, 217, or 2.2 per cent, were positive.

During the same period 930 men from Southern States were examined for hookworm, none of whom was found to be infected.

Cultures to the number of 2,255 were made to determine the presence of meningococcus carriers. Of these, 89, or 4 per cent, were positive.

NOTES FROM THE NAVY YARD, MARE ISLAND, CAL.

During the course of a small outbreak of diphtheria, in every instance the unit from which cases were taken was quarantined, and contacts were cultured and subjected to a Schick test.

At the training camp, 5.53 per cent of contacts were found to be carriers and 43 per cent gave positive Schick tests. In the marine barracks only one carrier was found, and 15 men gave positive Schick tests. At the prison 3 carriers and 65 positive Schick reactors were found. Carriers were isolated and positive reactors were given antitoxin as a prophylactic. Two carrier foci in the training camp and one each in the marine barracks and prison have presumably been eliminated by this procedure.

DISEASES REPORTED IN 1 SHIP OF THE FLEET, WEEK ENDED SEPT. 14, 1918.

| | |
|---|-------|
| Complement..... | 1,571 |
| Total admissions, diseases and injuries..... | 7 |
| Total admissions, venereal diseases..... | 0 |
| Number of communicable diseases, other than venereal diseases, 0. | |

DISEASES REPORTED IN 1 SHIP OF THE FLEET, WEEK ENDED SEPT. 21, 1918.

| | |
|--|-----|
| Complement..... | 386 |
| Total admissions, diseases and injuries..... | 23 |
| Total admissions, venereal diseases..... | 0 |
| Number of communicable diseases, other than venereal diseases, 22, as follows: | |
| U. S. S. <i>Henderson</i> : | |
| Cerebrospinal fever..... | 0 |
| Diphtheria..... | 0 |
| Influenza..... | 19 |
| Malaria..... | 0 |
| Mumps..... | 0 |
| Measles..... | 0 |
| Pneumonia, broncho..... | 3 |
| Pneumonia, lobar..... | 0 |
| Scarlet fever..... | 0 |
| Typhoid fever..... | 0 |

DISEASES REPORTED IN 16 SHIPS OF THE FLEET, WEEK ENDED SEPT. 28, 1918.

| | |
|---|--------|
| Complement..... | 16,808 |
| Total admissions, diseases and injuries..... | 368 |
| Total admissions, venereal diseases..... | 41 |
| Number of communicable diseases, other than venereal diseases, 151, as follows: | |

| | Cerebro-spinal fever. | Diphtheria. | Influenza. | Malaria. | Measles. | Mumps. | Pneumonia, broncho. | Pneumonia, lobar. | Scarlet fever. | Typhoid fever. |
|---------------------------------------|-----------------------|-------------|------------|----------|----------|--------|---------------------|-------------------|----------------|----------------|
| U. S. S. <i>Aeolus</i> | 0 | 0 | 21 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| U. S. S. <i>Arkansas</i> | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. <i>Princes Matoika</i> | 0 | 0 | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. <i>Henderson</i> | 1 | 0 | 0 | 0 | 1 | 0 | 10 | 1 | 0 | 0 |
| U. S. S. <i>Galveston</i> | 0 | 0 | 67 | 0 | 0 | 0 | 2 | 2 | 0 | 0 |

DISEASES REPORTED IN 21 SHIPS OF THE FLEET, WEEK ENDED OCT. 5, 1918.

| | |
|--|--------|
| Complement..... | 11,151 |
| Total admissions, diseases and injuries..... | 422 |
| Total admissions, venereal diseases..... | 27 |

Number of communicable diseases, other than venereal diseases, 194, as follows:

| | Cerebro-spinal fever. | Diphtheria | Influenza. | Malaria. | Measles. | Mumps. | Pneumonia, broncho. | Pneumonia, lobar. | Scarlet fever. | Typhoid fever. |
|--------------------------------|-----------------------|------------|------------|----------|----------|--------|---------------------|-------------------|----------------|----------------|
| U. S. S. Aphrodite..... | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| U. S. S. Madawska..... | 0 | 0 | 6 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| U. S. S. Princess Matoika..... | 0 | 0 | 54 | 0 | 0 | 0 | 7 | 0 | 0 | 0 |
| U. S. S. Mongolia..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 |
| U. S. S. President Grant..... | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. St. Louis..... | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| U. S. S. Galveston..... | 0 | 0 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. Des Moines..... | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 6 | 0 | 0 |
| U. S. S. South Dakota..... | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. Cheyenne..... | 0 | 0 | 8 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| U. S. S. Antigone..... | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| U. S. S. Siboney..... | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. Orizaba..... | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

DISEASES REPORTED IN 46 SHIPS OF THE FLEET, WEEK ENDED OCT. 12, 1918.

| | |
|--|--------|
| Complement..... | 33,195 |
| Total admissions, diseases and injuries..... | 1,156 |
| Total admissions, venereal diseases..... | 58 |

Number of communicable diseases, other than venereal diseases, 524, as follows:

| | Cerebro-spinal fever. | Diphtheria | Influenza. | Malaria. | Measles. | Mumps. | Pneumonia, broncho. | Pneumonia, lobar. | Scarlet fever. | Typhoid fever. |
|---------------------------------|-----------------------|------------|------------|----------|----------|--------|---------------------|-------------------|----------------|----------------|
| U. S. S. Ozark..... | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. America..... | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. Frederick..... | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. Pocahontas..... | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. Pastores..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| U. S. S. Northern Pacific..... | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. Finland..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| U. S. S. Manchuria..... | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. Cheyenne..... | 0 | 0 | 144 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| U. S. S. Mount Vernon..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| U. S. S. Siboney..... | 0 | 1 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. Orizaba..... | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| U. S. S. George Washington..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 |
| U. S. S. Seattle..... | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. Madawska..... | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. North Carolina..... | 0 | 0 | 23 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| U. S. S. Marblehead..... | 0 | 0 | 147 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. Columbia..... | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. Galveston..... | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. South Dakota..... | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 3 | 0 | 0 |
| U. S. S. Raleigh..... | 0 | 0 | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. New Jersey..... | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| U. S. S. Mississippi..... | 0 | 0 | 10 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| U. S. S. Charleston..... | 0 | 0 | 10 | 0 | 0 | 0 | 1 | 2 | 0 | 0 |
| U. S. S. Rochester..... | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. Des Moines..... | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |

DISEASES REPORTED IN 62 SHIPS OF THE FLEET, WEEK ENDED OCT. 19, 1918.

| | |
|--|--------|
| Complement..... | 39,616 |
| Total admissions, diseases and injuries..... | 854 |
| Total admissions, venereal diseases..... | 47 |

Number of communicable diseases, other than venereal diseases, 180, as follows:

| | Cerebro-spinal fever. | Diphtheria. | Influenza. | Malaria. | Measles. | Mumps. | Pneumonia, broncho. | Pneumonia, lobar. | Scarlet fever. | Typhoid fever. |
|------------------------------|-----------------------|-------------|------------|----------|----------|--------|---------------------|-------------------|----------------|----------------|
| U. S. S. Minnesota..... | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| U. S. S. Wisconsin..... | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 0 | 0 | 0 |
| U. S. S. Delaware..... | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| U. S. S. Illinois..... | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| U. S. S. Iowa..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| U. S. S. South Dakota..... | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. St. Louis..... | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. North Carolina..... | 0 | 0 | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. Louisville..... | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. Matsonia..... | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. America..... | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. Sialia..... | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. Sierra..... | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. Leviathan..... | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. Powhatan..... | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. Bridge..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| U. S. S. Supply..... | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. Mercy..... | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 |
| U. S. S. Pueblo..... | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. North Dakota..... | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. Charleston..... | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. Calamares..... | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. Siboney..... | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. Lenape..... | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. Hancock..... | 0 | 0 | 6 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| U. S. S. Columbia..... | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U. S. S. Seattle..... | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| U. S. S. Cheyenne..... | 0 | 0 | 28 | 0 | 0 | 0 | 15 | 0 | 0 | 0 |

INSTRUCTIONS TO MEDICAL OFFICERS.

Medical officers are invited to submit to the bureau any suggestions that they believe may be useful in extending the scope of this bulletin to render it of greater value. Questions in the field of preventive medicine will be welcomed and will be answered in accordance with the best available authority.

Criticism of anything contained in the body of the bulletin or in any of the statistical tables will be appreciated. In referring to any article appearing in a bulletin, reference should be made to the letters and numbers in the upper right-hand corner, as well as to the serial number.

The following statistics are furnished for the information of medical officers:

The annual rates shown in the tables are obtained in the following way: The figure representing the total original admissions to the sick list or the number of deaths reported during the week is multiplied by 1,000 and divided by the complement. The quotient is then multiplied by 52. As weekly figures always fluctuate widely, *caution must be used in interpreting annual rates calculated on a weekly basis.* In the following tables it may be taken for granted where no figures appear that the disease did not occur, or, if in reference to hospitals, that no case was admitted. The figures in column "Total admissions for communicable diseases" do not include venereal diseases.

W. C. BRAISTED.

TABLE 1.—ADMISSIONS TO SICK LIST AND ADMISSION RATES, TRAINING STATIONS, CAMPS, AND OTHER SHORE STATIONS, WEEK ENDED OCT. 26, 1918.

| | Diseases and injuries. | | | | Venereal diseases. | | | | | | | | |
|---|------------------------|-------------------------------|------------------------|----------------------------------|-----------------------------|------------------------|----------------------------------|------------|------------------------|-----------------------|------------------------|-----------|------------------------|
| | Complement. | Total admissions, all causes. | Annual rate per 1,000. | Average rate since July 1, 1918. | Total admissions, venereal. | Annual rate per 1,000. | Average rate since July 1, 1918. | Chancroid. | Annual rate per 1,000. | Gonococcus infection. | Annual rate per 1,000. | Syphilis. | Annual rate per 1,000. |
| FIRST NAVAL DISTRICT. | | | | | | | | | | | | | |
| Air Station, Chatham, Mass. | 433 | 40 | 1,200.68 | 548.34 | | | 37.44 | | | | | | |
| Ammunition Depot, Hingham, Mass. | 350 | 5 | 742.56 | 2,538.38 | 1 | 149.24 | 28.20 | | | 1 | 149.24 | | |
| Aviation School, Cambridge, Mass. | 1,739 | 53 | 1,584.44 | 3,256.35 | 2 | 59.80 | 21.66 | | | 2 | 59.80 | | |
| Detention Camp, Deer Island, Mass. | 1,119 | 26 | 1,207.96 | 1,848.97 | | | 45.37 | | | | | | |
| District Headquarters, Boston, Mass. | 511 | 5 | 508.56 | 2,412.62 | | | 18.34 | | | | | | |
| District Section Headquarters, Boston, Mass. (Lockwoods Basin). | 1,673 | 24 | 745.68 | 1,624.92 | | | 14.92 | | | | | | |
| District Section Headquarters, Bar Harbor, Me. | 386 | 8 | 1,077.44 | 2,415.54 | | | 104.14 | | | | | | |
| District Section Headquarters, Portland, Me. | 386 | 3 | 404.04 | 1,561.56 | | | 38.85 | | | | | | |
| District Section Headquarters, Provincetown, Mass. | 400 | 11 | 1,430.00 | 1,540.83 | 4 | 520.00 | 163.57 | | | 4 | 520.00 | | |
| District Section Headquarters, Rockland, Me. | 432 | 10 | 1,203.28 | 3,326.51 | | | 81.04 | | | | | | |
| Fuel Oil School, Quincy, Mass. | 688 | 1 | 75.40 | 1,208.98 | | | | | | | | | |
| Naval Prison, Portsmouth, N. H. | 2,000 | 43 | 1,118.00 | 2,247.71 | 1 | 26.00 | 29.71 | | | | | 1 | 26.00 |
| Navy Yard, Boston, Mass. | 1,575 | 23 | 759.20 | 2,220.33 | | | 14.41 | | | | | | |
| Navy Yard, Portsmouth, N. H. | 1,267 | 2 | 82.16 | 1,068.46 | 1 | 40.56 | 6.76 | | | 1 | 40.56 | | |
| Officers' Material School, Cambridge, Mass. | 487 | 3 | 320.32 | 1,284.02 | | | 15.00 | | | | | | |
| Radio School, Harvard University. | 4,800 | 80 | 866.32 | 1,369.34 | 4 | 43.16 | 44.55 | | | 4 | 43.16 | | |
| Receiving Ship, Boston, Commonwealth Pier. | 4,745 | 33 | 360.36 | 892.27 | 11 | 120.12 | 72.61 | 1 | 10.92 | 9 | 98.28 | 1 | 10.92 |
| Rifle Range, Wakefield, Mass. | 523 | 3 | 297.96 | 2,055.43 | 2 | 198.64 | 66.62 | | | 2 | 198.64 | | |
| Training Camp, Bunkin Island, Boston, Mass. | 893 | 11 | 640.12 | 1,462.45 | | | 65.09 | | | | | | |
| Training Camp, Hingham, Mass. | 1,098 | 15 | 710.32 | 1,448.60 | 1 | 47.32 | 23.00 | | | 1 | 47.32 | | |
| Other stations. | 132 | | | 262.33 | | | | | | | | | |
| SECOND NAVAL DISTRICT. | | | | | | | | | | | | | |
| District Section Headquarters, New London, Conn. | 4,000 | 38 | 494.00 | 905.17 | 3 | 39.00 | 37.64 | | | 1 | 13.00 | 2 | 26.00 |
| Receiving Barracks, Newport, R. I. | 1,952 | 8 | 212.68 | 872.65 | | | 5.77 | | | | | | |
| Submarine Base, New London, Conn. | 2,798 | 40 | 743.08 | 1,153.96 | 2 | 36.92 | 77.40 | | | 1 | 18.20 | 1 | 18.20 |
| Training Station, Newport, R. I. | 7,019 | 30 | 222.04 | 883.14 | 2 | 14.54 | 36.25 | | | 1 | 7.28 | 1 | 7.28 |
| THIRD NAVAL DISTRICT. | | | | | | | | | | | | | |
| Air Station, Bayshore, Long Island, N. Y. | 886 | 12 | 703.04 | 848.88 | 1 | 58.24 | 21.17 | | | 1 | 58.24 | | |
| Air Station, Montauk N. Y. | 332 | 1 | 156.52 | 427.29 | | | | | | | | | |
| Air Station, Rockaway, Long Island, N. Y. | 1,120 | 13 | 603.20 | 721.72 | | | 63.17 | | | | | | |
| Ammunition Depot, Iona Island, Long Island, N. Y. | 380 | 8 | 1,094.60 | 1,466.50 | | | 22.79 | | | | | | |

TWELFTH NAVAL DISTRICT.

| | | | | | | | | | | | | | |
|---|---------|-------|-----------|----------|-------|--------|--------|-------|-------|-------|--------|-------|-------|
| Air Station, San Diego, Cal..... | 1,560 | 52 | 1,802.32 | 672.50 | 6 | 208.00 | 53.91 | ..... | ..... | 4 | 138.32 | 2 | 69.16 |
| District Section Headquarters, San Diego, Cal..... | 993 | 211 | 11,048.96 | 1,946.85 | ..... | ..... | 54.71 | ..... | ..... | ..... | ..... | ..... | ..... |
| District Headquarters, San Francisco, Cal..... | 3,000 | 162 | 2,808.00 | 1,929.01 | 1 | 17.16 | 32.63 | ..... | ..... | 1 | 17.16 | ..... | ..... |
| Submarine Base, San Pedro, Cal..... | 1,312 | 16 | 633.88 | 855.97 | 2 | 79.04 | 170.37 | ..... | ..... | 2 | 79.04 | ..... | ..... |
| Training Camp, Mare Island, Cal..... | 8,193 | 209 | 1,326.00 | 1,171.28 | 6 | 37.96 | 56.22 | ..... | ..... | 5 | 31.72 | 1 | 6.24 |
| Training Camp, San Diego, Cal..... | 4,961 | 231 | 2,441.92 | 2,516.98 | ..... | ..... | 59.40 | ..... | ..... | ..... | ..... | ..... | ..... |
| Training Camp, San Pedro, Cal. (Municipal Pier)... | 3,240 | 48 | 770.12 | 416.74 | 1 | 15.60 | 96.56 | ..... | ..... | ..... | ..... | 1 | 15.60 |
| Training Station, San Francisco, Cal..... | 4,721 | 167 | 1,839.24 | 1,384.42 | 1 | 10.92 | 70.77 | ..... | ..... | ..... | ..... | 1 | 10.92 |
| Other stations..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| THIRTEENTH NAVAL DISTRICT. | | | | | | | | | | | | | |
| Navy Yard, including Marine Barracks, Puget Sound, Wash..... | 1,123 | 6 | 277.68 | 388.86 | 2 | 92.56 | 40.10 | ..... | ..... | 2 | 92.56 | ..... | ..... |
| Receiving Ship, including Training Camp, Puget Sound, Wash..... | 6,356 | 34 | 277.68 | 658.32 | 5 | 40.56 | 82.57 | ..... | ..... | 5 | 40.56 | ..... | ..... |
| Training Camp, Seattle, Wash..... | 4,076 | 64 | 817.44 | 853.73 | 14 | 178.36 | 56.88 | ..... | ..... | 14 | 178.36 | ..... | ..... |
| Other stations..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Total..... | 250,831 | 4,080 | 845.52 | 1,059.20 | 244 | 50.44 | 68.09 | 12 | 2.08 | 198 | 40.56 | 34 | 6.76 |

TABLE 1.—ADMISSIONS TO SICK LIST AND ADMISSION RATES, TRAINING STATIONS, CAMPS, AND OTHER SHORE STATIONS, WEEK
ENDED OCT. 26, 1918—Continued.

| | Total admissions communi- cable diseases, exclusive of influenza. | Annual rate per 1,000. | Average rate since July 1, 1918. | Cerebrospinal fever. | Annual rate per 1,000. | Diphtheria. | Annual rate per 1,000. | Malaria. | Annual rate per 1,000. | German measles. | Annual rate per 1,000. | Measles. | Annual rate per 1,000. | Mumps. | Annual rate per 1,000. |
|---|---|------------------------|-------------------------------------|----------------------|------------------------|-------------|------------------------|----------|------------------------|-----------------|------------------------|----------|------------------------|--------|------------------------|
| SIXTH NAVAL DISTRICT. | | | | | | | | | | | | | | | |
| Marine Barracks, Paris Island, S. C. | 12 | 67.60 | 27.00 | | | | | | | | | | | 4 | 22.36 |
| Navy yard, Charleston, S. C. | 1 | 52.00 | 13.00 | | | | | | | | | | | 1 | 52.00 |
| Receiving ship, Charleston, S. C. | | | 52.00 | | | | | | | | | | | | |
| Rifle range, Charleston, S. C. | | | | | | | | | | | | | | | |
| Training Camp, Charleston, S. C. | 1 | 11.96 | 47.96 | | | | | | | | | | | 1 | 11.96 |
| Other stations. | 3 | 123.24 | 329.72 | | | | | | | | | | | | |
| SEVENTH NAVAL DISTRICT. | | | | | | | | | | | | | | | |
| Air Station, Miami, Fla. (Naval). | | | 55.75 | | | | | | | | | | | | |
| Air Station, Miami, Fla. (Marine). | 1 | 78.00 | 18.16 | | | | | | | | | | | | |
| Training Camp, Key West, Fla. | 3 | 75.40 | 30.42 | | | | | 1 | 24.96 | | | | | 1 | 24.96 |
| Other stations. | | | | | | | | | | | | | | | |
| EIGHTH NAVAL DISTRICT. | | | | | | | | | | | | | | | |
| Training Camp, Gulfport, Miss. | 1 | 25.48 | 52.00 | | | | | | | | | | | | |
| Training Camp, New Orleans, La. | 7 | 144.04 | 110.58 | | | 2 | 41.08 | 1 | 20.28 | | | | | 3 | 61.88 |
| Naval Station, Pensacola, Fla. | 2 | 18.72 | 14.63 | | | | | 1 | 9.36 | | | | | | |
| Other stations. | | | | | | | | | | | | | | | |
| NINTH, TENTH, ELEVENTH NAVAL DISTRICTS. | | | | | | | | | | | | | | | |
| Auxiliary Reserve School, Chicago, Ill. | 8 | 234.00 | 135.34 | 1 | 29.12 | | | | | | | | | 6 | 175.24 |
| Aviation Detachment, Curtiss Aeroplane Plant, Buffalo, N. Y. | | | 47.40 | | | | | | | | | | | | |
| District Section Headquarters, Cleveland, Ohio. | 10 | 433.16 | 89.52 | | | | | | | | | | | 7 | 303.16 |
| District Section Headquarters, Detroit, Mich. | | | 11.36 | | | | | | | | | | | | |
| Dunwoody Industrial Institute, Minneapolis, Minn. | 7 | 242.32 | 165.21 | | | | | | | | | | | 6 | 208.00 |
| Rifle Range, Camp Logan, Waukegan, Ill. | 1 | 58.24 | 652.60 | | | | | | | | | | | | |
| Training Camp, Detroit, Mich. | | | 214.12 | | | | | | | | | | | | |
| Training Station, Great Lakes, Ill. | 35 | 43.16 | 190.85 | | | 3 | 3.64 | | | | | | | 31 | 37.96 |
| Other stations. | | | | | | | | | | | | | | | |

TWELFTH NAVAL DISTRICT.

[illegible]

THIRTEENTH NAVAL DISTRICT.

[illegible]

TABLE 1.—ADMISSIONS TO SICK LIST AND ADMISSION RATES, TRAINING STATIONS, CAMPS, AND OTHER SHORE STATIONS, WEEK ENDED OCT. 26, 1918—Continued.

| | Pneumonia. | Annual rate per 1,000. | Tuberculosis. | Annual rate per 1,000. | Scarlet fever. | Annual rate per 1,000. | Small-pox. | Annual rate per 1,000. | Typhoid. | Annual rate per 1,000. | Influenza. | Annual rate per 1,000. |
|--|------------|------------------------|---------------|------------------------|----------------|------------------------|------------|------------------------|----------|------------------------|------------|------------------------|
| SEVENTH NAVAL DISTRICT. | | | | | | | | | | | | |
| Air Station, Miami, Fla. (Naval). | | | | | | | | | | | | |
| Air Station, Miami, Fla. (Marine). | 1 | 78.00 | | | | | | | | | | |
| Training Camp, Key West, Fla. | 1 | 24.96 | | | | | | | | | 17 | 427.96 |
| Other stations. | | | | | | | | | | | | |
| EIGHTH NAVAL DISTRICT. | | | | | | | | | | | | |
| Training Camp, Gulfport, Miss. | 1 | 25.48 | | | | | | | | | 20 | 509.12 |
| Training Camp, New Orleans, La. | | | 1 | 20.28 | | | | | | | 34 | 700.96 |
| Naval Station, Pensacola, Fla. | | | 1 | 9.36 | | | | | | | 32 | 306.80 |
| Other stations. | | | | | | | | | | | | |
| NINTH, TENTH, AND ELEVENTH NAVAL DISTRICTS. | | | | | | | | | | | | |
| Auxiliary Reserve School, Chicago, Ill. | 1 | 29.12 | | | | | | | | | 4 | 117.00 |
| Aviation Detachment, Curtiss Aeroplane Plant, Buffalo, N. Y. | | | | | | | | | | | | |
| District Section Headquarters, Cleveland, Ohio. | 3 | 130.00 | | | | | | | | | 27 | 1,170.00 |
| District Section Headquarters, Detroit, Mich. | | | | | | | | | | | 7 | 556.52 |
| Dunwoody Industrial Institute, Minneapolis, Minn. | 1 | 34.32 | | | | | | | | | 1 | 34.32 |
| Rifle Range, Camp Logan, Waukegan, Ill. | 1 | 58.24 | | | | | | | | | 4 | 234.52 |
| Training Camp, Detroit, Mich. | | | | | | | | | | | | |
| Training Station, Great Lakes, Ill. | 1 | 1.04 | | | | | | | | | 60 | 73.84 |
| Other stations. | | | | | | | | | | | | |
| TWELFTH NAVAL DISTRICT. | | | | | | | | | | | | |
| Air Station, San Diego, Cal. | | | | | | | | | | | 32 | 1,109.16 |
| District Section Headquarters, San Diego, Cal. | | | | | | | | | | | 209 | 10,944.44 |
| District Section Headquarters, San Francisco, Cal. | 17 | 294.32 | | | | | | | | | 140 | 2,426.32 |
| Submarine Base, San Pedro, Cal. | 1 | 39.52 | | | | | | | | | 7 | 277.16 |
| Training Camp, Mare Island, Cal. | | | 1 | 6.24 | | | | | | | 122 | 774.28 |
| Training Camp, San Diego, Cal. | 2 | 20.80 | | | | | | | | | 77 | 807.04 |
| Training Camp, San Pedro, Cal. (Municipal Pier). | | | | | | | | | | | 33 | 529.36 |
| Training Station, San Francisco, Cal. | 1 | 10.92 | | | | | | | | | | |
| Other stations. | | | | | | | | | | | | |
| THIRTEENTH NAVAL DISTRICT. | | | | | | | | | | | | |
| Navy Yard, including Marine Barracks, Puget Sound, Wash. | | | | | | | | | | | 2 | 92.56 |
| Receiving Ship, including Training Camp, Puget Sound, Wash. | | | | | | | | | | | 9 | 73.32 |
| Training Camp, Seattle, Wash. | 6 | 76.44 | | | | | | | | | 32 | 408.20 |
| Other stations. | | | | | | | | | | | | |
| Total. | 87 | 17.68 | 7 | 1.04 | 10 | 1.56 | | | | | 1,893 | 392.08 |

TABLE 2.—SUMMARY OF REPORTS FROM NAVAL HOSPITALS AND SICK QUARTERS, WEEK ENDED OCT. 19, 1918.

| Hospitals. | Cerebro-spinal fever. | | Diphtheria. | | Malaria. | | German measles. | | Measles. | | Mumps. | | Pneumonia. | | Scarlet fever. | | All cases. | | |
|-----------------------------|-----------------------|-----------|------------------|-----------|------------------|-----------|------------------|-----------|------------------|-----------|------------------|-----------|------------------|-----------|------------------|-----------|------------------|-----------|-------------|
| | Under treatment. | Admitted. | Under treatment. | Admitted. | Under treatment. | Admitted. | Under treatment. | Admitted. | Under treatment. | Admitted. | Under treatment. | Admitted. | Under treatment. | Admitted. | Under treatment. | Admitted. | Under treatment. | Admitted. | Discharged. |
| Annapolis..... | 2 | 2 | 1 | 1 | | | | | | | 7 | 1 | 50 | 19 | | | 440 | 90 | 97 |
| Cape May..... | | | | | | | | | | | | | 1 | | | | 106 | 28 | 39 |
| Charleston..... | | | | | 1 | | | | | | 6 | | 3 | 7 | | | 587 | 184 | 135 |
| Chelsea..... | 1 | | 8 | | | | 4 | | 7 | | 28 | 8 | 60 | 8 | 1 | | 735 | 119 | 175 |
| Great Lakes..... | 33 | 1 | 8 | 2 | 1 | | | | 5 | | 8 | 1 | 1,448 | 25 | 2 | | 1,861 | 109 | 317 |
| Gulfport..... | | | | | 1 | | | | | | 1 | 1 | 60 | 38 | | | 161 | 125 | 24 |
| Hampton Roads.. | 14 | 9 | 6 | 3 | 1 | 1 | | | 8 | 1 | 20 | 2 | 367 | 41 | 1 | | 668 | 87 | 161 |
| Key West..... | | | | | 2 | | | | 1 | | 4 | 2 | 119 | 97 | | | 363 | 230 | 141 |
| League Island..... | | | | | 3 | 1 | | | | | | | 5 | 1 | | | 194 | 29 | 94 |
| Mare Island..... | 2 | | 3 | | 1 | | 8 | 2 | 8 | 2 | 352 | 31 | 14 | 2 | | | 893 | 497 | 391 |
| New London..... | | | 1 | | | | | | 2 | | | | 47 | 3 | | | 231 | 39 | 90 |
| Newport..... | 11 | 2 | | | 3 | | | | 12 | 1 | 4 | 4 | 278 | 7 | 13 | 2 | 813 | 93 | 245 |
| New York..... | 10 | 1 | 31 | | 10 | 2 | | 1 | 3 | | 15 | 2 | 147 | 68 | 2 | 2 | 2,957 | 807 | 825 |
| Norfolk ¹ | | | | | | | | | | | | | | | | | | | |
| New Orleans..... | 1 | 1 | 11 | 4 | | | | | | | | | 9 | 4 | | | 195 | 78 | 153 |
| Paris Island..... | 1 | | | | 2 | | | | 3 | | | | 1 | 1 | | | 121 | 39 | 31 |
| Pelham Park..... | | | 8 | | | | | | | | 1 | 1 | 343 | 76 | | | 946 | 290 | 85 |
| Pensacola..... | | | | | 8 | 1 | | | | | 2 | | 54 | 6 | 1 | | 188 | 73 | 175 |
| Philadelphia..... | | | 10 | 1 | | | | | 1 | | 4 | 1 | 20 | 4 | 2 | | 887 | 87 | 325 |
| Portsmouth..... | 2 | 2 | 1 | | | | | | | | 1 | | 65 | 4 | | | 218 | 38 | 59 |
| Puget Sound..... | 1 | | 2 | | | | | | 7 | 1 | 38 | 20 | 22 | 1 | | | 272 | 56 | 87 |
| Quantico ¹ | | | | | | | | | | | | | | | | | | | |
| San Diego..... | | | 1 | 1 | 4 | | | | 13 | 7 | 79 | 39 | 11 | | | | 316 | 243 | 256 |
| Washington..... | | | | | | | | | | | 2 | | 19 | | | | 272 | 80 | 105 |
| Total..... | 78 | 18 | 91 | 12 | 37 | 5 | 12 | 3 | 70 | 12 | 572 | 114 | 3,143 | 412 | 22 | 4 | 13,424 | 3,421 | 4,010 |

¹ Report not received.

TABLE 3.—NUMBER OF ADMISSIONS AND ANNUAL RATES, ENTIRE NAVY, WEEK ENDED OCT. 12, 1918.

[Rates based on an estimated complement of 517,000.]

| Class. | Number of admissions. | Annual rate per 1,000. | Class. | Number of admissions. | Annual rate per 1,000. |
|--|-----------------------|------------------------|---|-----------------------|------------------------|
| Diseases of blood..... | 6 | | Diseases of motor system..... | 62 | |
| Diseases of circulatory system..... | 28 | | Diseases of nervous system..... | 42 | |
| Diseases of digestive system..... | 555 | | Diseases of respiratory system..... | 1,034 | 104.00 |
| Diseases of ductless glands and spleen. | 2 | | Diseases of skin, hair, and nails..... | 59 | |
| Diseases of ear..... | 63 | | Hernia..... | 37 | |
| Diseases of eye and adnexa..... | 43 | | Miscellaneous diseases and conditions. | 108 | |
| Diseases of genito-urinary system (nonvenereal)..... | 109 | | Parasites (fungi and certain animal parasites)..... | 39 | |
| Diseases of infective type (nonvenereal)..... | 7,374 | 741.52 | Tumors..... | 3 | |
| Diseases of infective type (venereal)..... | 558 | 56.16 | Injuries..... | 537 | |
| Diseases of lymphatic system..... | 28 | | Poisons..... | 7 | |
| Diseases of mind..... | 32 | | Total..... | 10,727 | 1,078.48 |

| | |
|---------------------------|-----|
| Chancroid infection..... | 124 |
| Gonococcus infection..... | 358 |
| Syphilis..... | 76 |

TABLE 4.—TOTAL ADMISSIONS REPORTED BY FORM F CARDS FOR CERTAIN COMMUNICABLE DISEASES, OTHER THAN VENEREAL DISEASES, AND ANNUAL RATES, ENTIRE NAVY, WEEK ENDED OCT. 12, 1918.

[Rates based on an estimated complement of 517,000.]

| Disease. | Number of cases. | Annual rate per 1,000. | Disease. | Number of cases. | Annual rate per 1,000. |
|--------------------------|------------------|------------------------|---------------------|------------------|------------------------|
| Cerebrospinal fever..... | 7 | 0.686 | Typhoid fever..... | 2 | .196 |
| Diphtheria..... | 3 | .294 | Chicken pox..... | 1 | .098 |
| Malaria..... | 48 | 4.784 | Dengue..... | 15 | 1.47 |
| German measles..... | 6 | .588 | Influenza..... | 6,730 | 676.52 |
| Measles..... | 39 | 3.90 | Whooping cough..... | 1 | .098 |
| Mumps..... | 224 | 21.32 | Tuberculosis..... | 41 | 4.108 |
| Pneumonia, broncho..... | 393 | 39.52 | | | |
| Pneumonia, lobar..... | 163 | 16.12 | Total..... | 7,678 | 772.20 |
| Scarlet fever..... | 5 | .49 | | | |

TABLE 5.—DEATHS REPORTED, ENTIRE NAVY, WEEK ENDED OCT. 26, 1918.

[Rates based on an estimated complement of 600,000.]

| | | | |
|--|-----|-----------------------------------|-------|
| Influenza-pneumonia..... | 578 | Other infections..... | 2 |
| Influenza-meningitis, cerebrospinal ¹ | 12 | Other diseases..... | 7 |
| Cerebrospinal fever..... | 7 | Drowning..... | 10 |
| Pneumonia, lobar..... | 18 | Other accidents and injuries..... | 16 |
| Tuberculosis, chronic pulmonary..... | 1 | | |
| Syphilis..... | 1 | Total..... | 652 |
| Annual death rate per thousand, all causes..... | | | 56.47 |
| Annual death rate per thousand, diseases only..... | | | 54.23 |

¹ Pneumococcus, 11.



