Annual Report

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Department of Public Health

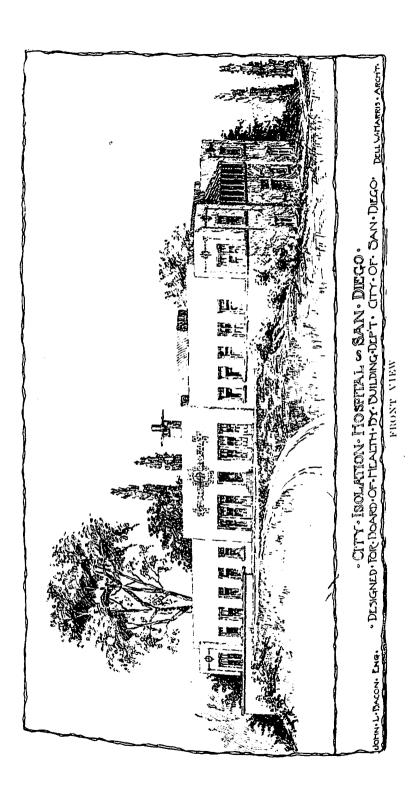
of the

City of San Niego California

Far the year ending December 31 1916



A. E. Banks, M. D., Health Officer



MEMBERS OF THE BOARD OF HEALTH

DR. R. J. FLY, President.

DR. FRANCES M. ALLEN,

MR. JOHN FLEMING,

DR. F. W. MULLER,

MRS. T. C. POUNDS.

DEPARTMENT OF PUBLIC HEALTH

DR. A. E. BANKS, Superintendent.

CHARLES R. WILSON, Assistant Superintendent.

DR. H. A. THOMPSON,

Bacteriologist.

DR. J. A. WOODSIDE, Chief Meat and Dairy Inspector.

J. E. JOHNSON, Sanitary Inspector. DR. J. J. KING, Asst. Meat and Dairy Inspector.

C. F. NAYLOR,
Sanitary Inspector.

MISS W. C. HANSCOM, Food Inspector.

L. S. MOORE, Chief Plumbing Inspector. MISS MARY H. TAYLOR, R. N., Nurse in Charge of Municipal Milk Station.

WALTER BELLON,
Assistant Plumbing Inspector
and Hotel, Lodging and Tenement House Inspector.

MRS. A. M. LUTES, R. N., Tuberculosis Nurse.

A. J. MENDE, Clerk, Hotel, Lodging and Tenement House Inspection Division. MISS HELEN LEA, R. N., Supt. Isolation Hospital.

MISS HAZEL GLEASON, Health Officer's Secretary. MISS ROSE LITTLE, R. N., Contagious Disease Nurse.

CHAS. BERNARD WESELOH,
Male Nurse and Chauffeur.

PHYSICIANS ON DUTY AT MILK STATIONS.

DR. H. B. WILSON,

DR. W. P. WINTERS,

DR. J. W. ERKENBECK.

MEETINGS

The regular meetings of the Board of Health are held in the Health Office on the first Tuesday in each month at 8:45 a.m.

HOURS AT HEALTH OFFICE

The office is open daily from 8:30 a. m. to 5 p. m.

The Health Officer is to be found at the office from 1 to 2 p. m. daily.

Telephone service through the Superintendent of the Isola tion Hospital is continuous.

CULTURE TUBE AND ANTITOXIN STATIONS

Physicians may obtain culture material at all drug stores free.

Antitoxin for free distribution to the poor may be obtained at the Ferris & Ferris Drug Store, corner of Fifth and Market streets, the Agnew Sanitarium, or the Isolation Hospital.

Tetanus antitoxin, Pasteur treatment for rabies, vaccine virus and typhoid vaccination may be obtained through the Health

Annual Report of the Health Officer.

Hon. Edwin M. Capps, Mayor of the City of San Diego: Sir:-

I have the honor to submit herewith to you the annual report of the Department of Public Health for the year ending December 31st, 1916, and sincerely hope that what follows will be found of interest and value to all who have the health of the community at heart. It is the record of the activities of nineteen employees of the municipality who have worked throughout the year to

safeguard the health of the 92,000 citizens of this city.

During the year just passed, San Diego has been called upon to face problems such as never before appeared to stand in the way of her prosperity. The floods of January and February carried away hundreds of thousands of dollars' worth of municipal improvements, including our reservoir of final storage for water, the Lower Otay, by the failure of the dam. The immediate call for funds to carry on rehabilitation added an unlooked for burden to the taxpayers, and the Council faced the serious task of adjusting a tax rate sufficient for departmental and emergency needs. As a consequence departmental needs suffered in some cases, and notwithstanding a relatively high tax rate, the per capita allowance to this department for the year was only approximately 57 cents, figured on our present estimated population, 92,000. The public credits heavy taxation too often to excessive expenditure for operation. The fact is, that the bulk of taxes go for interest on municipal bonds, leaving a meagre margin for departmental activities.

San Diego city proper covers a considerable territory, and the burden of rendering adequate sanitary supervision will necessitate a fuller complement of inspectors than are at present employed. When the entire district, comprising the city of San Diego, (including La Jolla, Encanto, and other suburbs), is considered, it is readily seen that our present force is utterly inadequate. The sanitary supervision of the water system alone calls for the constant attention of a mounted officer to patrol, report, and obtain samples.

I have estimated that in order to approximate effective results, such as a city of the type of San Diego merits, and in order that adequate protection be granted to the individual resident, a minimum per capita tax for public health purposes of at least \$1.00 should be appropriated. Surely this is indeed cheap health insurance, and should not be begrudged. Where among all

forms of insurance could greater returns be found on an annual

Notwithstanding the financial handicap, the efforts of the department have not been without avail.

BIRTHS

There were during the year 1105 births, 549 males and 556 females, by race as follows: 977 white, 13 black, 115 mongolian, Mexicans, etc. As compared with former years, the available records show the following:

70.7			
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		- DI1011	10			
TY.	SEX	PARENTA			RAC	CE
TOTAL 1908 441 1909 476 1910 530 1911 666 1912 779 11913 1115 1914 1115 1915 1041 1916 1105	Male : 237 204 253 223 268 268 338 328 403 376 625 526 525 516 549 556	C. Some sign	154	Caucasian. 431 471 520 657 765 1161 1079 1004	African	Mexican, Etc
'I'ba		-		~	1.3	60 (55

The new State law providing for the reporting of births within thirty-six hours has, on the whole, been obeyed to a gratifying extent, where physicians were concerned.

Among the classes employing midwives, as usually, the reporting is very poor. As a means of stimulating prompt and complete birth reports, a registration certificate has been adopted.

One of these is mailed to registration certificate has been adopted. One of these is mailed to parents immediately on receipt of the certificate of birth. Not only has this been the means of early there is correction of errors in the original, but being popular, there is an increasing demand the original, but being popular, there is an increasing demand by parents for these documents, and no doubt many otherwise by parents for these documents, and no doubt many otherwise unreported births will be regularly re-

DEATHS

1050 deaths occurred in the city limits of which 852 only follows: were bona fide residents. Decedents are divisible as follows:

957 white. 15 black 70 Mr. Decedents are divisible as follows: 957 white, 15 black, 78 Mexican and Mongolian. This gives us an annual death rate of 11 41 an annual death rate of 11.41 which, in comparison with the eight years last past including all which, in comparison with the eight years last past, including all records available in this office, is as

DEATH RATE

1909 1910 1911	13.33 15.18 14.8	1913	$10.64 \\ 12.41$
1912		1010	11.11

As to causes of death, once more I beg to call your attention to the preponderance of certain diseases for which hundreds, annually, in the past, have flocked to our city in the last stages, hoping for prolongation of life by residence here. I refer especially to tuberculosis and Bright's disease. It is now a well established fact that San Diego offers little to the tubercular, in fact such cases frequently do poorly here. When eastern residents realize the truth of this, one cause for a distortion of our real death rate will no doubt be gradually removed. Our climate offers much to sufferers from Bright's disease however, and there is now no question that life for the nephritic may be materially prolonged here.

The chief causes of death may be illustrated to advantage:

Apoplexy Cancer Accident Pneumonia Bright's Disease Suicide	
Suicide Senility Alcoholism Homicide	40 21

Death from preventable causes follow:

Tuberculosis	49

INFANT WELFARE

The year 1916 saw San Diego assume her place among the progressive cities of the country in relation to Infant Welfare. Not until the work of the milk stations and social surveys was well under way, did we realize how badly needed such a bureau had been. The amount of physical suffering in infants and young children through improper and deficient nourishment, even in this beautiful city, (looked upon as being without a pauper class), was appalling. The work has been enlarged

cautiously, and methods of investigation have been as rigid as possible. With the close of the year, the necessity for the continual supervision of the indigent and helpless infant by the municipality has been indelibly stamped upon the consciences of all who have cared to interest themselves.

The infant mortality for 1916 was 69.68, much too high for our beautiful city and a complete argument for increased effort.

Especially in the earlier months of the year cases of severe malnutrition were discovered which were apparently hopeless. The deaths of several infants, despite late improvement in diet, spurred us on to discover future cases in time. Also efforts have been made to discover those young children, past the nursing period, who have suffered from underfeeding from birth in the hope that advice, free milk at least once daily at the school, and supervision of home hygiene, may promise physical and mental

The County Health Officer and County Physician both report that there has been a marked reduction in enteric and other infant diseases coincident with the work on Infant Welfare, as the

Mrs. L. L. Wright, San Diego, Calif., Dec. 8, 1916.

3901 St. James Place,

San Diego, California.

Dear Mrs. Wright:-

It is with extreme interest that I have watched the effect of the Municipal Milk Stations of San Diego, and the health conditions of the children in the vicinity of these stations.

For four years, as Assistant County Physician, I have made many visits in the vicinity of these stations.

The number of visits and the amount of sickness, I am happy to say, has been so materially reduced, especially in the vicinity of the "Neighborhood Hampy," reduced, especially in the vicinity of the "Neighborhood House," that I must unhesitatingly compliment the services parallel, "that I must unhesitatingly compliment the services rendered the community by the Municipal

Sincerely yours, O. G. WICHERSKI, M. D.

Just praise must be given Miss Mary H. Taylor, R. N., the se in charge of this direction Miss Mary H. Taylor, R. N., the nurse in charge of this division. She has been untiring in her successfully. efforts, and has successfully co-operated with the physicians of the city, the County Hospital and a with the physicians of the city, the County Hospital authorities, different charitable or-

ganizations and individuals volunteering services. Special mention must be made of the exceptional services dered the city by Doctors W. To the exceptional services

rendered the city by Doctors W. P. Winters, H. P. Wilson and They J. W. Erkenbeck, in connection with the milk stations. They have followed the individual on with the milk stations. have followed the individual cases with care and directed the

formulae for those children who were in any way ill, in addition to being poorly nourished. A detailed report is appended hereto setting forth the cases treated. While the services rendered have been entirely gratuitous, they were invaluable, and much of the success of the Infant Welfare movement depends upon this active co-operation on the part of paediatrists.

CONTAGIOUS DISEASES

With the Panama-California International Exposition inviting the world, the influx of visitors naturally led to importation of certain contagious diseases. The incidence was satisfactorily low however, and had it not been for institutional conditions, as found at the Children's Home and Day Nursery, little embarrassment would have followed. At the former, a late report on a laryngeal case of diphtheria, which died within a few hours after admission to the Isolation Hospital, led to the infection of a number of young children. Frequent throat surveys were made and all carriers isolated prior to permitting school attendance. In this way, from this institution alone, 7 cases and 49 carriers were admitted during October at the Isolation Hospital. Owing to their age, very close attention was needed and the budget item for extra nurses exhausted. Future allowance should be made for nursing emergencies. Our present budget system, eliminating any general fund, leaves the Health Officer helpless in the face of a grave emergency.

The tables appended show the relative incidence of con-

tagious diseases for the years 1915 and 1916.

While the 1916 figures are in excess of the former year's, this must be credited to more prompt and thorough reporting of cases. Particularly do I desire to call your attention to the marked betterment in reporting of tuberculosis. Appended hereto are spot maps of the city showing locations of the various communicable diseases.

Of these cases reported, 209, or 10%, were admitted to the Isolation Hospital for treatment and quarantine, of which three

died, as shown in the following table:

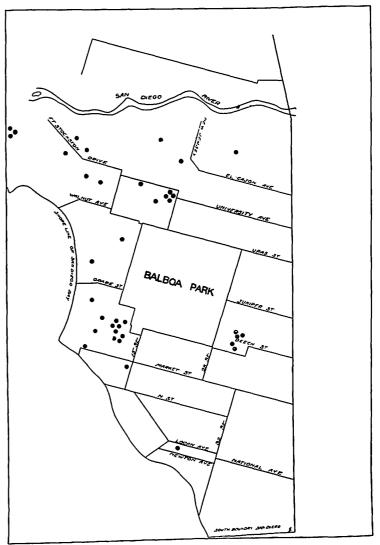
	Admissions	Releases	Deaths
Variola	5	5	. 0
Diphtheria	90	89	2
Diphtheria carriers	44	42	0
Diphtheria contacts	4	4	0
Scarlet fever	33	33	0
Scarlet fev. con	6	6	0
Measles	14	14	0
Mumps	2	2	0
Varicella	2	2	0
Septic sore throat.	4	4	0
Epidem. Meningitis	2	1	1
Proved non-con	3	3	0
Total	209	205	3

CONTAGIOUS AND COMMUNICABLE DISEASES REPORTED IN 1915

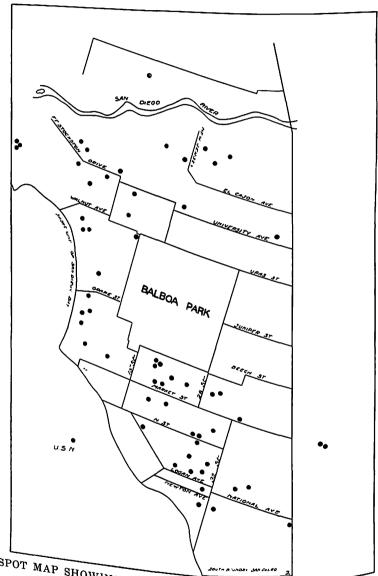
		PEPU.	KTED	IN	1915	•					
Smallpox	Feb'y Jan'y	March	May	June	July	August	Sept	0ct	Nov	Total	
Typhoid fever Poliomyelitis Diphtheria Dip. carrier Measles Scarlet fever Tuberculosis Leprosy Mumps Pellagra Whoop. cough Chickenpox	28 17 0 0 13 11 0 0 2 7 5 1 2 0 1 4 2 0 0 8 10 63 48	0 0 17 0 1 3 0 0 0 3 1 0 5	0 2 0 0 0 0 7 14 0 0 4 2 2 5 0 1 0 0 5 0 0 0 3 2	0 1 0 23 0 2 6 2 0 2 0 2	3 2 0 15 0 0 8 5 0 2 0 0	0 4 0 28 0 0 0 3 8 0 0 0 0	0 5 0 16 0 0 3 6 0 0 0	0 3 1 54 64 9 13 4 0 4 0	0 5 0 31 5 0 5 11 0 0 0	0 50. 2 22 0 1 21 250. 23 92 2 22 27 87 9 49 0 1 2 24 0 1 2 2 15 68	
		30	21 26	38	35	43	35]]	52	75.1	03 669	

CONTAGIOUS AND COMMUNICABLE DISEASES REPORTED IN 1916

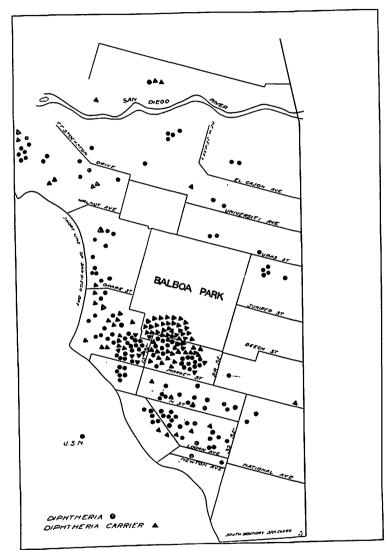
	L	7		OL	TED	IN	191	16	_				_
Smallpox	an'y	eb'y	March	April	Мау	June	July	Augus	Sept	0ct	Nov	Dec	Total.
Typhoid fever Poliomyelitis Diphtheria Dip. carrier Measles Scarlet fever Tuberculosis Whoop. cough Chickenpox Mumps Leprosy Pellagra Totals	0 8 0 21 9 29 11 10 0 34 0 0	68 0 28 1 0	32 9 61 0 0	1 10 22 42 0	26 93 64	2 2 0 14 0 82 2 15 38 48	0 3 0 23 22 2 16 15 16 0 0	0 0 0 15 2 4 1 16 4 3 0 0	0 5 0 8 19 1 8 27 4 7	0 1 0 20 53 1 8 6 4 9	$egin{array}{c} 0 & 2 & 0 & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 10 & 15 & 3 & 2 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0$	25 0 6 1	5 42 0 150 110 847 266 192 320 11 0
				023	369	$\begin{vmatrix} 0 \\ 206 \\ 1 \end{vmatrix}$	00	45	0 81 :	$01 \\ 103$	51_	561	2005



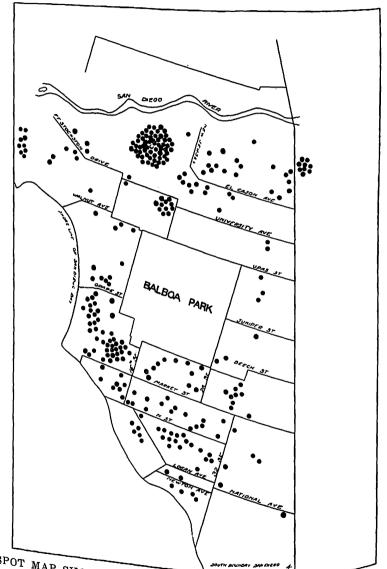
SPOT MAP SHOWING LOCATION OF 38 TYPHOID CASES REPORTED DURING 1916.



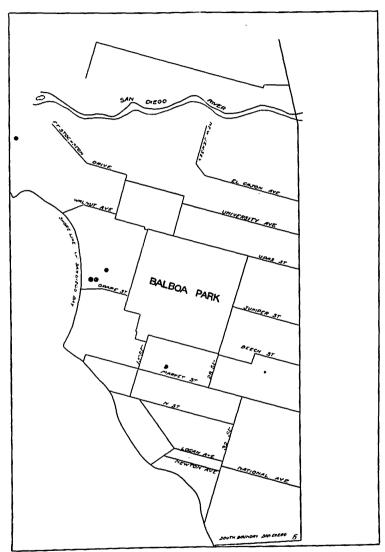
SPOT MAP SHOWING LOCATION OF 62 SCARLET FEVER CASES
REPORTED DURING 1916.



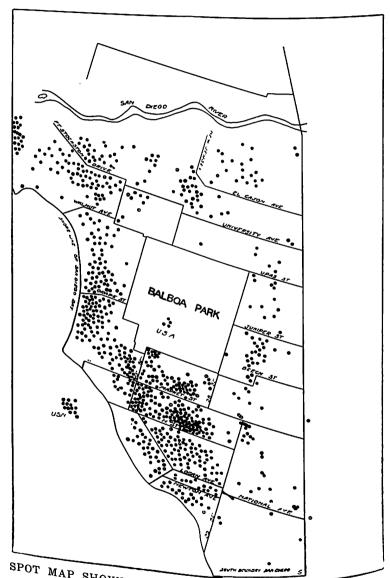
SPOT MAP SHOWING LOCATION OF 150 DIPHTHERIA AND 110 DIPHTHERIA CARRIERS CASES REPORTED DURING 1916.



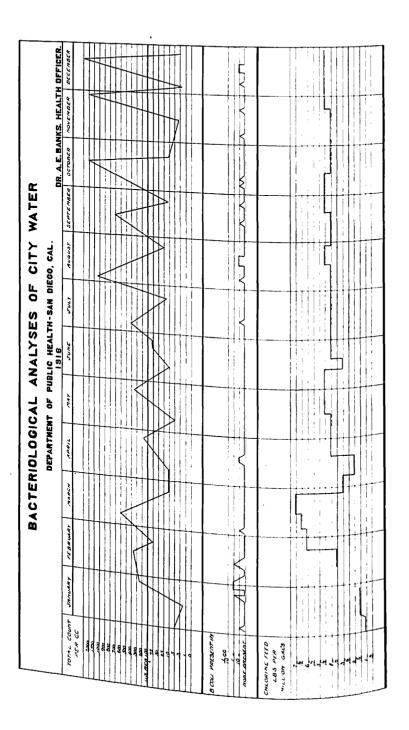
SPOT MAP SHOWING LOCATION OF 266 TUBERCULOSIS CASES
REPORTED DURING 1916.



SPOT MAP SHOWING LOCATION OF 5 VARIOLA CASES REPORTED DURING 1916.

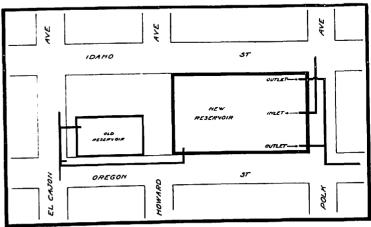


SPOT MAP SHOWING LOCATION OF 847 MEASLES CASES REPORTED DURING 1916.

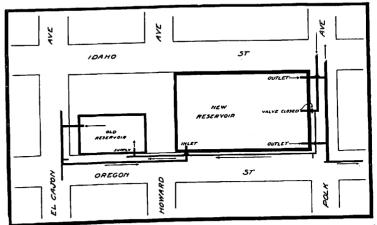


WATER SUPPLY

Immediately following the failure of Lower Otay, water was pumped from the San Diego River and typhoid appeared. The water being delivered, was of extremely poor physical quality,



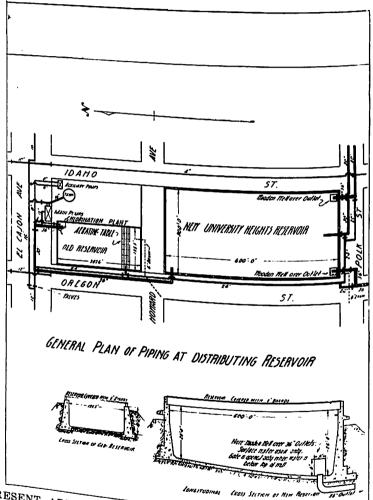
ORIGINAL ARRANGEMENTS AT RESERVOIRS.



GRAPHIC REPRESENTATION OF ARRANGEMENTS FOR STORAGE RECOMMENDED BY THE BOARD OF HEALTH AS INSTALLED FOR EMERGENCY.

owing to immense quantities of suspended silt and organic matter. A close inspection of the emergency system of pipes and reservoirs disclosed the fact, that the University Heights reser-

voir was faultily constructed, as shown by plans on file, (see cuts), in that no storage was provided, notwithstanding there was about 42 hours available storage. After considerable delay, changes were made under the supervision of this department.



PRESENT ARRANGEMENT OF RESERVOIRS PROVIDING MAXI-MUM STORAGE, AERATION, AND SURFACE SUPPLY, AS RECOM-MENDED BY THE BOARD OF HEALTH.

whereby the maximum storage possible was obtained, as shown in the plans submitted

Aeration was provided at the intake, in a rough way, and out for a recommendations made which have since been carried out for a better plan. The intake pipe was then supplied with aluminum sulphate as coagulant, a float preventing churning, and the North (smaller) reservoir, used as a settling basin. Chlorine was fed into the effluent from this reservoir. Immediate improvement in the water was observed (within 12 hours), and the bacteriological curve fell, both as to total count and B. coli content. Typhoid ceased to appear shortly after proper treatment of the water.

Some provision should be made in the future for additional reservoirs within the city limits, and longer storage and better

fire protection thereby acquired.

Even the short storage period gained by the aforesaid changes was of inestimable value to the city, not only from the public health standpoint, but financially. The Exposition re-opened its gates just a few hours after the recommendations made by the Board of Health had been put into effect, and the sudden clearing of the water supply was very grateful to the Exposition officials.

No public utility demands such attention to detail, such conscientious, continuous and intelligent supervision as the water supply of a community.

One of the most important details relative to the water supply is the treatment of the raw water prior to its being delivered to the consumer. There are three principal objects to be attained in treating water for human consumption, good physical appearance, pleasant taste and safety. The first one is of chief interest to the general public, the maintenance of a freedom from turbidity. When water is served which is turbid, public criticism is always aroused, no matter how small the bacterial content may be. With the acquisition of the present high grade rapid filter, the city was placed in a position where a water free from turbidity could be obtained. On several occasions the filter operators have allowed water exceptionally turbid (due to freshets), to pass through the filters without making the necessary adjustments at the plant.

The chart accompanying depicts the bacterial findings for the 12 months last past. While the daily count is not shown, the high and low monthly average is brought out. Compared with the quality of water served in 1915, the record made is poor. This is due to two causes, first inadequate treatment by aluminum sulphate and liquid chlorine, and second lack of storage immediately prior to filtration. The latter factor is unavoidable until such time as the Lower Otay reservoir is made possible again.

Notwithstanding both filtration and chlorination, the water supplied to the consumers in San Diego at no time compared with the surface samples obtained from the Morena revervoir, where storage alone was responsible for purification.

At the time that the Inspector from the State Board of Health made a survey of our temporary water supply, he gave it as his opinion that the Lower Otay Dam should be re-constructed, having in mind this particular phase, namely, the great ity.

CITY ISOLATION HOSPITAL

1916 saw the installation of the laundry plant at the Isolation Hospital, since when all laundrying has been accomplished on the premises in accordance with the State law.

A great deal of damage was done by the flood to the concommission. The water, gas, electric and telephone services were stroyed. Fortunately the 10,000 gallon emergency water tank the boiler room, and nearly all wires in conduits on the lower of the services were stroyed.

floor required removing, owing to short circuits, etc.

In fairness to patients quarantined at the Isolation Hospital. service for the hospital proper, and improvement of the grounds surrounding the hospital. We have parks and playgrounds for can deny. Yet at the municipal institution, where those giving their fellow citizens,—a place dedicated to the humane and sciencentracted through no fault of their own, the surroundings and

approaches are among the most unsightly in the city.

While economy is at all times a prominent factor in controlling the policies of both public and private hospitals, it is competitors in appearance and attention rivals its

competitors in appearance and attractiveness.

In the interest of cleanliness and orderliness, someone must do janitor work in a hospital, someone must be available for At present the nurses must bear most of this burden.—be house keeper, janitor, orderly, companion and trained attendant.—all contention, we should have additional employments created at The B...

The Bureau of Nursing of the State Board of Health, visiting sion, the City Expert for 1916, and many physicians and nurses one untrained employee to do cleaning and rough work.

The recent floods destroyed the roadway. At present, the most pressing need is a proper road, built as a permanency.

I beg leave to quote from City Expert Hetzel's annual 1916 report on the department as follows:

"The records and accounts of this office are well kept and check out correctly.

"The department is in good hands and its affairs are skillfully handled."

"The cleaning up of the water-front and Chinatown has been a blessing for which this department deserves the greatest credit. The benefits of this work cannot be over-estimated in relieving the city from pestilential breeding places, which were a menace to the public health, and doing away with disgusting sights, tumbled down shacks, etc.

"The new Isolation Hospital is a credit to the city.

"There is no question concerning the stability and confidence in the management of the City Isolation Hospital.

"My visit to the Isolation Hospital was a revelation in many ways. I was amazed to find the road leading to the hospital in a terrible condition, full of chuck-holes and uneven places, making it utterly impossible even for a well and able-bodied person to travel in comfort; I can well imagine the condition of a patient taken over the same route. I was taken out in a very comfortable automobile, driven with great care, and at that the jolting was terrific. The road approaching the hospital is laid out in a roundabout way, which is uncalled for. The logical location for a driveway should lead almost direct to the hospital, thus eliminating about one-half mile, saving valuable time to health officer, also a most important consideration is the better condition of the patient upon arrival, which would mean an earlier release and less expense to the city. I would recommend the attention of the City Council be called to this matter without delay, and immediate action be taken to better the existing conditions.

"There is pressing need of a clean-up in the bottom lands, where the recent floods deposited debris of various descriptions, making an excellent breeding place for flies and mosquitoes.

"There is need of a man to do janitor service and to care for the grounds. Trees, flowers and shrubs could be planted, walks laid out and lawns made to make the place a spot of beauty—at present it is as much a desolation as isolation hospital. If the city had continued its municipal farm, men could be used advantageously to clean up the grounds, then the city would have a hospital and surroundings a credit to the municipality.

"The hospital is fairly well equipped with modern conveniences, although there are a few essentials lacking, which will, no doubt, be added eventually. I found everything in splendid condition. The wards were spotless and in perfect order. In-

credible as it may seem, this is due to the strenuous work and constant attention of the strenuous work and constant attention of the Superintendent and one nurse, there being no provision for a great no provision for an assistant. I consider this is imposing a great hardship upon two loyal, conscientious and over-worked women.

The need of at least transfer the hos-The need of at least two more nurses is very evident. The hospital has proven to be more nurses is very evident. pital has proven to be a needed asset and ought to be recognized as such. The laborate provents seen the laborate provents as such as as such. The laboratory is commodious, the arrangement scientific, and equipment tific, and equipment up to standard.

"An incinerator built recently assures the sanitary disposal bubbish." of rubbish.

"I am pleased to note the City Council have provided a modern ambulance, as the one formerly used was of antique construction, hard and uncomfortable. although five hundred and twenty

"Donations of toys and children's books would be real char, patients." itable acts, toys and books are essential to the little patients.

SEWERS

1916 saw the Hardy sewer nuisance abated through the extension of the old pipe line to tide water. Whether the present arrangement will give permanent relief will develop. Further arise extensions may be made at a later date, should the necessity

Another important step in the right direction was taken in the form the sewer effluents of relation to the sewer effluents of the city which, for several years, the trailed the basis for a contract the trailed trailed to the city which, for several years, and the trailed trailed to the city which, for several years, and the trailed trailed trailed to the city which, for several years, and the trailed traile have formed the basis for complaints in the annual reports of ployed to Officer. Consulting plaints in the annual reports of ployed to the basis for complaints in the annual reports of ployed to the plaints in the annual reports of ployed to the basis for complaints in the annual reports of ployed to the basis for complaints in the annual reports of the plaints in the plaints in the annual reports of the plaints in the Health Officer. Consulting sanitary engineers are now at Ocean D. Submit recommendate sanitary engineers are now at 100 plants in the annual reports of the Health Officer. ployed to submit recommendations for proper disposal plants to include the latest to be be because of the latest to be because Ocean Beach. It is to be hoped the work will be extended to danger to the city proper to the country proper to include the city proper, to the end that a very grave, potential pollution danger may be removed, and the Bay of San Diego freed from

Nothing short of personal investigation will convince system. At proceedings the immediate investigation will convince system. individual of the immediate necessity for a sewage disposal the bay water tem. At present the immediate necessity for a sewage disposal structural of our sewer mains are maintained in the immediate vicinity of the

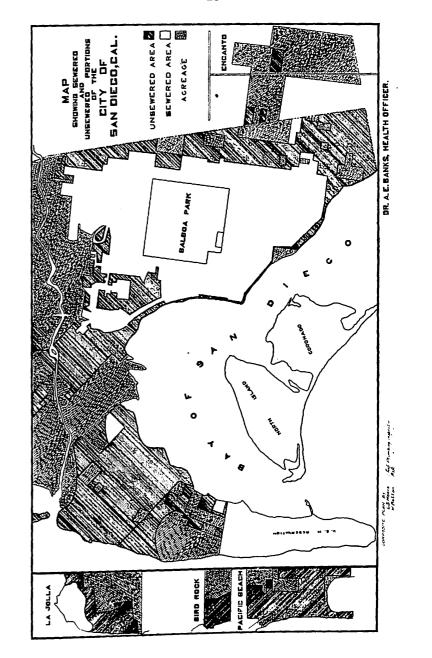
outfalls of our sewer mains are grossly polluted. The time for procrastination has long passed. The problem ler the smaller the must be holdly faced, and properly designed apparatus installed removal of all arrival and advices of the property designed apparatus installed the supervision and advices of the property designed apparatus installed the supervision and advices of the supervision and under the supervision and properly designed apparatus installed the supervision and advice of sanitary engineers. for that

removal of all solids from sewage prior to its discharge.

Lit was pointed out to the prior to its discharge. It was pointed out last year that sewers are needed in Mis-constitution of the city lying between that sewers are needed in Missection of the city lying between the County Hospital and Misattention. sion Cliff Gardens. Nothing has been done, and this matter needs.

Nothing has been done, and this matter needs.

The map appended shows graphically our needs.



GARBAGE

The problem of the proper disposal of garbage and rubbish still faces the municipality. The only solution to the problem is municipal disposal by taxation. During the early months of 1916 the old hog ranch at the East end of the city was removed by Court order, and the present contractors re-established one in the Tecoloti Cañon under the direct supervision of the Board

The present location was wisely chosen, in that it can form no nuisance to resident sections, on account of its remoteness. ('oinplete new equipment was installed by the contractor for the sanitary removal of all garbage from the incinerator premises to the ranch, and the present system is the best that has so far been

The Board of Health has gone on record as advocating the early provision for municipal collection of garbage, and has recommended that the City Manager of Operation take full charge

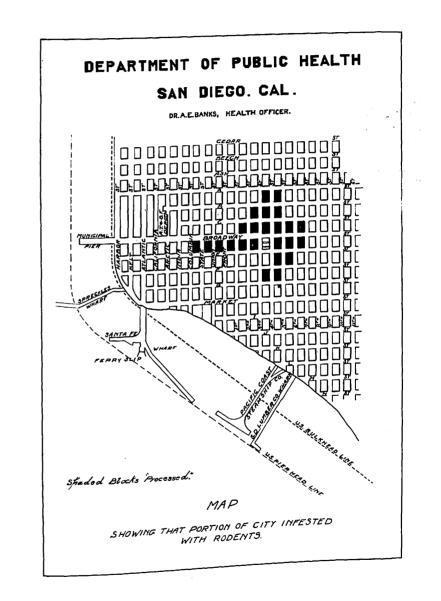
The city incinerator has been thoroughly renovated, new boiler installed, new ovens built and brought up to the best possible standard during the past year. The whole plant has deteriorated, however, to such a point that it will only be a very short time until its usefulness will have ceased to exist.

HOUSING

Housing conditions are generally much improved since the campaign of last year. There were 20 houses and shacks condemned and removed, all on tide lands, or private property but

RODENTS

For a long time it has been recognized that the rat is responsible for much damage to property and merchandise, in addition to being a menace to health on account of its relation to plague. San Diego is no different from other port cities, and the rat is widely prevalent, more especially in the business section. Efforts were made to eradicate this pest from those sections where it was most numerous, and where its depredations had been felt most severely. After several experiments it was found most satisfactory to use poison, and the services of a private concern were enlisted to process the blocks in the heart of the city, at the expense of the property owners. In this way, 24 blocks were tempararily rid of rodents. The work will have to be repeated from pararny in or louents. The work will have to be repeated from the inches the municipality primature in order to inches the municipality primature. rily in order to insure thoroughness. The accompanying map



VACCINATION

During the past year the vaccination law has been enforced, with the result that practically all children admitted to schools in this size is in this city have filed the regulation certificates within the re-

A large number of vaccinations have been performed by the department. Immediately following the opening of school, when the applicants were most numerous, it was necessary to employ the services of the services of a vaccination nurse. During the rest of the year the vaccination nurse. the vaccination work was carried on without expense to the city at room 404. This was carried on without expense to the city of at room 404. Timken Building, thus obviating the congestion of the Health Office

The task of copying the certificates constitutes such an interest amount of many the certificates constitutes such an interest and that mense amount of work during the first few weeks of school, that it was found peccentaged and peccentage and pec it was found necessary to employ the special services of an extra clerk for a limited to clerk for a limited time. This will, no doubt, be necessary each year.

PUBLIC HEALTH NURSES

While San Diego fortunately has no real slum districts, and n a health standpoint in the property of the standpoint in t from a health standpoint, is infinitely superior to our metropolitan centres of the Rost skylling infinitely superior to our metropolitan centres of the Rost skylling infinitely superior to our metropolitan centres of the Rost skylling infinitely superior to our metropolitan centres of the Rost skylling infinitely superior to our metropolitan centres of the Rost skylling infinitely superior to our metropolitan centres of the Rost skylling infinitely superior to our metropolitan centres of the Rost skylling infinitely superior to our metropolitan centres of the Rost skylling infinitely superior to our metropolitan centres of the Rost skylling infinitely superior to our metropolitan centres of the Rost skylling infinitely superior to our metropolitan centres of the Rost skylling infinitely superior to our metropolitan centres of the Rost skylling infinitely superior to our metropolitan centres of the Rost skylling infinitely superior to our metropolitan centres of the Rost skylling infinitely superior to our metropolitan centres of the Rost skylling infinitely superior to our metropolitan centres of the Rost skylling infinitely superior to our metropolitan centres of the Rost skylling infinitely superior to our metropolitan centres of the Rost skylling infinitely skyl tan centres of the East, she has many ignorant, needy individuals, the victims of disease hat the victims of disease, both communicable and otherwise, who are not only deserving of communicable and otherwise. not only deserving of communicable and otherwise, who care and instruction forms.

care and instruction, form a menace to their fellow citizens.

No one can so off: No one can so efficiently solve the problem of ministering he needs of this class as the solve the problem of ministering to the needs of this class as the District Nurse.

The department at present has one nurse detailed for quar-Welfare work, one for tuberculosis visiting, and two for report that it cases at the Isolation reliable to the residue to the antined cases at the Isolation Hospital. It is gratifying to report that, through the efforte of Dispital. It is gratifying to Physician, a student of the efforte of Dispital in the e that, through the efforts of Dr. I. D. Webster, ('ounty Physician's Court In nurse has been plant.) a student nurse has been placed at Milk Station No. 2 (('ounty of the site)), and one for grand at Milk Station No. 2 ('ounty of the site). Court House), and one for field work in the Southwest section of Sisters of Connection with the Southwest section of the Southwest section with the Southwest section with the Southwest section with the Southwest section of the Sisters of Connection with the Southwest section of the Southwe the city, in connection with the Infant Welfare division. Sisters of Charity at St. Joseph's Sanitarium will detail one and field date at the main state. dent nurse at the main station during 1917, for dispensary

Each student nurse serves 6 weeks and is credited by are aggiven to the world be weeks and is credited by are localized by are training school for the work accomplished. Two lectures for seph's to appear week to the second line of the being given each week to the student body of nurses at St. St. perintendant at the Dublic L. Tuolen Lea. disseph's to amplify the public health course. Miss Helen Leading ease nursing of the Isolation Transfer of the Isolation Tra perintendent of the public health course, Miss Helen Lea discussions, and Miss Mann. The public health course are public health course. Miss Helen Lea discussion with the public health course and the public health course and the public health course are public health course. ease nursing, and Miss Mary Taylor. Infant Welfare and two

Field work of a valuable character is being done by the two tion, under the Department of Education and Development nurses of the Department of Education, Health and Development the able direction, Health and Development of Education, Health and Development of Education of Educa Section, under the able direction of Dr. A. J. Thornton.

AMBULANCE

The acquisition of a modern ambulance at the beginning of 1916 proved of inestimable value. During the year a large number of cases which were seriously ill were able to be transported to the hospital without much inconvenience. The present ambulance equipment is a credit to the city and a constant comfort to those unfortunates who of necessity must use it.

l regret to record the death of the Isolation Hospital orderly, Soren S. Solberg, on April 17, 1916, from burns received by the back-firing of the oil burner in use. The quarantine service lost a valuable man, one who had cheerfully and conscientiously served the city for 10 months, and who was faithful and courageous to the very last.

RECOMMENDATIONS

Additional expert assistance for the bacteriological laboratory is essential. The work at present far exceeds what can be accomplished by one individual.

I would respectfully recommend that a fully equipped laboratory be installed at the City Hall, and the full time service of one assistant be retained, who will, under the guidance of the City Bacteriologist, carry on work now impossible. The new Dairy Law alone makes it necessary to test numberless milk samples, and without this provision only partial results can be attained.

MAP SYSTEM

For the purpose of portraying graphically the distribution of contagious cases, and for recording various activities of the department, a practical map and pin system is very essential. Provision was made in the 1917 budget for the purchase of such equipment, but was not allowed. It is to be hoped that the next appropriation will allow for this much needed accessory.

As before shown, the Isolation Hospital grounds should be improved, beautified, and provided with a children's playground for convalescents. A housekeeper and one additional orderly should be provided.

Through the Park Commissioners, the grounds could be made

exceptionally attractive without much outlay. An increase in the salary of the Chief Dairy Inspector and the Tuberculosis Nurse should be allowed. The duties and responsibilities are at present not receiving adequate recognition.

WATER INSPECTOR

In order that pollution of the public water supplies may be minimized and the public health thereby safeguarded, the Board of Health has recommended the appointment of a Sanitary Inspector, to be placed in charge of the water system, his duties to consist of patrol work, and in addition, obtaining samples for the

This recommendation should certainly receive recognition, as until the reconstruction of the Otay Dam, every possible precaution should be taken to insure a safe and pure water.

Following are detailed reports from the individual employees of the Department of Public Health, chamical health, work

of the Department of Public Health, showing briefly the work accomplished during 1916, also complete summary of vital sta-

Respectfully submitted.

Health Officer and Supt. Dept. Public Health.

VITAL STATISTICS

BIRTHS, 1915

	SE		PA	REN	TAC	ŧΕ		RAC			 -		
	Male	Female	U. S	Foreign	Mixed	Unknown.	Caucasian.	African	Mongolian.	Indian	Total	Stillborn	Premature.
Jan. Feb. Mar. April May June July August Sept. Oct. Nov. Dec.	31 35 44 50 41 30 37 54 58 34 42 69	43 41 54 40 34 31 52 66 36 36 34 41 44	46 49 67 58 50 45 63 78 54 46 53 70	21 15 16 16 12 6 9 24 18 14 18 28	7 12 15 16 13 10 17 18 22 8 12 15 165	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	73 73 93 89 67 60 83 119 94 66 78 109	0 1 1 0 2 1 3 0 0 1 3 1	1 2 4 1 6 0 3 1 0 1 2 3 2 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	74 76 98 90 75 61 89 120 94 68 83 113	2 2 7 3 2 5 3 6 4 3 3 5 4 5	2 1 2 1 1 1 0 4 4 0 1 0
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Jan		40	56	22	13	0		11	3	1	94	4	2
Feb	51	43	61	14	19	0	89	11	5	3	85	3	1
March	51		57	20	8	0	76	1	8	1	84	4	4
April	42	43		15	12	0;	73	2		11	115	5	4
May	45	39	57		18	0	101	1	2		103	6	ī
June	61	54	76	21	17	0	86	1	3	13		6	ō
July	57l	46	69	17	11	0	69	3	2	7!!	81		ő
	37	44	56	14		o i	98	0	8	7	113	6	-
August	44	69	70	31	12	- 1	81	1	1	5	88	2	0
Sept	42	46	63	13	12	0	74	0	3	8	85	3	0
Oct		42	50	19	16	0	83	1	4	911	971	3	1
Nov	43	53	68	18	11	0				-60	1105	51	$\overline{15}$
D∩c	44	55	00	017	163	0	976	13	46	09			
Totals	549	556	724	217	100		·						

Revised International List of Causes of Death Bureau of the U. S. Census ALL CAUSES

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I. General D.	January	Fehruary	March	April	May	June	July	August	September	October	November	December	Total
Typhoid Beneral Diseases	1	i.				. 1			i	1	1	- 1	
Typhus Fever Relapsing Fever Malaria	1	1	1		١, ١				l	!	1	J	6
Malasia Fever			•		1	1					•		
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Sanul													
Measles Scarlet Fever Whooping Cough Diphtheria and crous	••••			٠	1								1
Whooping Cough Diphtheria and croup Influenza Millary Fever Asiatic cholera Cholera nostras		• • • • • •	1	· · · · · ·									ī
Miliana	1			1					!	!			8
Asiatic cholera Cholera nostras Dysentery	6	2					2	3	2		2	1	12
Cholera nostras Dysentery Plague Yellow Face											٠,		
Onsera nostras Dysentery Plague Yellow Fever	••••					'							
V-11		* ****											ï
T Lever											1		
F													
Yellow Fever Leprosy Erysipelas Other enidosi													
Glanders and septicemia													
Clysipelas. Other epidemic diseases Purulent infection and septicemia. Glanders. Anthrax. Rabies Tetanus. Mycoses				1					2		1		6
Antirrax Rabies Tetanus Mycoses Pellagra Beriberi				• 1		1		1	_				••••
Tetanus Mycoses Pellagra Beriberi Tuberculesis of the live						• • • • • • • • • • • • • • • • • • • •							
Poll													1
Beriberi	1	· · · · · ·											
Tuberculosis of the L	• • • • •	• ••••										1	
Culagra Beriberi Tuberculosis of the lungs Acute Miliary tuberculosis Tuberculous manifestation			• ••••	****		!			'			1	
Abderculous menincipiosis	7	16	17	10					<u></u>	4	12	15	136
Potti Potti in the manufaction i			• •	10	13	13	10	9	7	-1	14		3
White disease				1									3
Pudominal tuberculosis Pott's disease White Swellings Tuberculosis of other organs Disseminated tuberculosis Rickets Syphilis Gonococcus inf				•	1		1				1	1	
Disseminated tuber organs		٠			•					1			1
C. CYGIS									1				7
					4	1				1	- 1		
Cancor infection				• • • • • • '									9
Cancer of the buccal			2	•	··							1	
					1	2	2						2
Co. rectum peritonaum and liver	٠				2				- 1			9	34
Cancer* of the farming	•	-1	4	3	$\bar{4}$	1	2	3	3	2	3 .	4	. 0
Gonooccus infection Cancer* of the buccal cavity Cancer* of the stomach and liver Cancer* of peritonæum, intestines, Cancer* of the female genital organs Cancer* of the female genital organs		i	- 1		-	•	-	.,	- 1	_ [2	12 10
Cancout tile girin	- 2.	1	~		2	2	3			2	•	1	5
not en other organ		*****	1	3	1	1				1		1	
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actue articular rheumatism Chronic rheumatism Scurve Diabetes Exophthalmic goitre Leuts' disease			1			1 1	1	, i		1			
Scurvic rheumatism						1	ı	1 :		- 1			1
Diabetes and gout	••••							1					- 1
Exophthalmia													
Addison's disc goitre		• • • • • •				1			1				6
Anmadisease		1	• • • • •	٠									1
Other chlore	···		1 1	1	1	3							
Alcoholism diseases	٠				· · · · · ·								1
Chronic lead acute or at	1	· · · • • •		••••	••••								Ð
Other chroni poisoning or chronic	1		اا		• • • • • • • • • • • • • • • • • • • •			2		!	2		ď
other chronic occupation	*****	· ···					••••	-					
poisoning poisoni-		1		1	1			1	1	1	3		
Cancer													
Cancer and other malignant tumors." Curous extended to the malignant tumors."			•••••		'								
malignant		٠٠٠.			·····]	
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	January	February	March	April	May	June	July	August	September	October	November	December	Total
I. Diseases of the Nervous System and of the organs of special sense									ļ	į			
). Encephalitis						1					¦		1
. Meningitis: A. Simple meningitis	1	1			2	3			1				8
R Corebrospinal meningicis		1	1	1									3
(undefined)									.	1		·····	<u>-</u> 5
Locomotor ataxia		1		2						•			Ů
3. Other diseases of spinal cord:				ļ				······		1			3
	6	10	11	10	5	6	3	3	7	7	3	7	78
1. Cerebral hæmorrhage, apoptexy	ĭ	2	l	1			1			· · · · · · · ·	1	1	6 8
5. Softening of the brain. 6. Paralysis without specified cause	1		2		<u>.</u>								1
. General paralysis of the liamation			1	ļ 			\ 			· · · · · · · ·			2
9. Epilepsy	l			1							; .		<u>ī</u>
J. Convuisions (nonpuer perui)				. 1				······					
2. Chorea											1 2		14
3. Neuralgia and neuritis. 4. Other diseases of the nervous system					1	1				· · · · · ·	ļ		i
 Other diseases of the nervous 5. Diseases of the eyes and their adnexa Diseases of the ears 				ļ			ļ 				`		·
I. Diseases of the circulatory system	ı	1					1 2		 	i	 		2
7. Perizarditis 8. Acute Endocarditis 9. Organic diseases of the heart 0. Angina pectoris	2	i		: 2	10	1 13	11	18	17	19		29	182
9. Organic diseases of the heart	11	11	3	5				· · · · · ·		1	1	} 2	16
			1						1		1		3
Diseases of arteries, atterioria aneurysm, etc		1	i	3	2	2	2	3			2	2	17
2. Embolism and thrombosis		1	1.	1						· · · · · · · ·	· 	<u>!</u>	
orrholds, phientis, etc.,	,	1		1	1					1	. 1		1
4. Diseases of the lymphatic system (lymphangitis, etc.)	¦	.' 1						1	1		i .	1	
circulatory system	¦	! 1			¦	·					 .		
V. Diseases of the respiratory system 6. Diseases of the nasal fossæ		\ 		ļ		<u> </u>		<u> </u>	ļ	 		<u> </u>	
6. Diseases of the nasal fosse	·¦	9
1.1.1				. 1			.1	·				.1 1	ī
9. Acute bronchitis	1	5	3		. 1		. 2	1		· · · · ·	. 1	! 3	17
1. Bronchopneumonia	1	2	٠,	1 2	2	2		3		. 3	6	6 2	30
A. Lobar pneumonia			4		1		. 2	1	2		0	2	21 1
B. Pheumoma (underm		. 1				Ĭ.		1	1.	١,	1	1,	. 9
4. Pulmonary congestion, Paris				1		. 2	1] .				<u>-</u>	
5. Gangrene of the lung					Ι		.ļ		. 1		. 2	1	. 5
6. Asthma						-¦	· / · · ·					İ	
tem (tuberculosis excepted)	-	2	: !		 	' 		1			1		
V. Diseases of the digestive system											<u>.</u>		<u>1</u>
99. Diseases of the mouth and adnexa 100. Diseases of the pharynx		. 1	.								·-	· · · · · ·	•
OO. Diseases of the pharynx OI. Diseases of the esophagus OZ. Ulcer of the stomach OZ. Other diseases of the stomach							¦	1	1		'		. 1
02. Ulcer of the stomach 03. Other diseases of the stomach	1		ļ				٠		<u> </u>		. 1		. 11
33. Other diseases of the stomach (cancer excepted) (cancer and enteritis (under 2 yrs) (cancer and enteritis (under 2)	j	. 1	1	1		<u>-</u>	2	3					. 11
Exclusive of acute anterior poliomyelitis	. 1		1	-	1	ı	ļ		i	1	1	1	:

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	٦	2]	1	1	1		I	ber		ber .	او	
	January	February	등	=	i.	+		ıst	September	October	November	December	18
105. Diarrha and enteritis		Feb	March	Į.	May	June	July	August	ept	cto	lov	Še	Total
(2 yrs. and over) 106. Ankylostomiasis. 107. Intestinal page					_ <		_=	_<	Ţ.				
106. Ankylostomiasis 107. Intestinal parasites 108. Appendicities				:	1	1	1	1	2	i i	2	1	9
108 Appa- Marasites				1				_		i :::			
109. Hernia in and typhlitis	• ••••			.1						1			8
A. Home			ı		. 1	1	2		. 1	1			. 0
110 Oth Intestinal obstruction				+	1					1			1
					_	. 1		1			1		-4
112. Hydatid tumor of the liver	• • • • • • • • • • • • • • • • • • • •	. 1	1										2 2
114 Pri			•••	٠									د
112. Hydatid tumor of the liver 113. Cirrhosis of the liver 114. Biliary calculi 115. Other diseases of the liver 116. Diseases of the spleen. 117. Simple peritonitis (nonpuerposal)			1	٠		•							3
								1	1				
117. Simple peritonitis			1										1
other diseases of the diseaseral)	1	····		-									14
cancer and tuberculosis averagestive system	-	••••	. 2	_ 3		. 1		1	2	3		1	• •
116. Diseases of the spleen. 117. Simple peritonitis (nonpuerperal) 118. Other diseases of the digestive system (cancer and tuberculosis excepted) VI. Nonvenereal diseases of the genito- urinary system and adness.									.				
urinary system and adnexa		1											
119. Acute nephritis 120. Bright's disease 121. Chyluria 122. Other diseases of the kidneys and 123. Calculus of the urinary passages													
120. Bright's disease		I											
121. Chyluria	4	3		3		1			1	1	1		15
other diseases of the bid	9	3	4	ź	10	3	6	5	1	ō	i	4	50
adnexa adnexa adnexa adnexa 123. Calculi of the urinary passages 124. Diseases of the bladder 125. Diseases of the urethra, urinary ab-		•••••		٠									
124. Diseases of the urinary passages 125. Diseases of the urethra, urinary ah- scess, etc. 126. Diseases of the prostate 127. Nonvenereal approximate.													
Diseases of the prote				••••		1							1
126. Disease, etc. urinary ab-	• • • • •	٠				1		1		2	1		-1
Nonvenore I in prostate													
scess, etc. 126. Diseases of the prostate 127. Nonvenereal diseases of the male 128. Uterine hæmorrhage (nonpuerperal) 129. Uterine tumor (noncancerous) 131. Cysts and other tumors of the ovary 132. Salpingitis and other diseases of the 133. Nonpuerperal 134. Source of the ovary 135. Salpingitis and other diseases of the 136. Nonpuerperal 137. Source of the ovary 138. Source of the ovary 139. Salpingitis and other diseases of the		2	••••										2
129. Uterine hæmorrham	1	-			• • • • • •					••••		• • • •	
130. Other diseases of the uterus 131. Cysts and other tumors of the ovary 132. Salpingitis and other diseases of the 133. Solphysics and other diseases of the 134. Cysts and other diseases of the ovary 135. Salpingitis and other diseases of the 136. Nonpuerperal diseases of the													
131. Cysts and other tumors of the ovary 132. Salpingitis and other diseases of the uterus 133. Salpingitis and other diseases of the ovary 14 female genital organs 133. Nonpuerperal diseases of the ovary (cancer excepted)													
												• • • ;	
133. None lemale genital or diseases of the			1	• • • • •	• • • • • • •						••••		1
(capperal diseases of			-	••••	• •••					• • • •			
133. Nonpuerperal diseases of the breast (cancer excepted) VII. The puers	••••	•											
133. Nonpuerperal diseases of the ovary female genital organs. (cancer excepted) VII. The puerperal state 134. Accidents of pregnancy 136. Others and other diseases of the ovary female genital organs.							••••	••••				1	
134. Accidente					• • • • •								
136 Overperal horizonancy	,											1	
137. Puer accidents												+	2
134. Accidents of pregnancy 135. Puerperal hæmorrhage 136. Other accidents of labor 137. Puerperal septicæmia 138. Puerperal albuminuria and convul- 139. Puerperal phiegmasia alba dolens 140. Following 4, sudden de		••••		• • • •			1			1			1
130 sions sions	٠			• • • •	1								1
Puerperal phlo-		····			••••		1		••••		2		Z
140. Followi sudda alba dolo	1	1							•				4
defined hildbirth death		•	ī	,							1		
138. Purperal septicarmia Purperal albuminuria and convul- sions 139. Purperal phlegmasia alba dolens, embolus, sudden death following childbirth (not otherwise 141. Puereral diseases of the breast VIII. Diseases of	٠												
VIII D					••••	• • • • •						ĺ	
defined death death death defined defi		••••											
the cellular tissue 42. Gangrene			••••									····	
143. Furniene													
144. Acute ob													
145. Other discess	2	1											7
142. Gangrene 143. Furuncle 144. Acute abscess 145. Other diseases of the skin and adnexa	٠	•	• • • •	1	1 ,				1 .		1	•••	
Diseases of the	••••			••••									
144. Active abscess 145. Other diseases of the skin and adnexa IX. Diseases of the hones and of the organs of locomotion 146. Diseases of the bones (tuberculosis excepted) 147. Diseases of the joints (tuberculosis and rheums)	••••	••••	••••										•••
Diseases of the						••••			••••				
147. Discordepted) Dones (tur												i	
140 and of the in-							,					- 1	
149 Camputation (tuberani						1							2
Other disease	••••	••••			1 :	1		1					-
June 20 Seases of the bones (tuberculosis excepted) 147. Diseases of the joints (tuberculosis and rheumatism excepted). 148. Amputations. 149. Other diseases of the organs of lo-	٠				1	•	••••					ĺ	
gans of lo-		••••				1			!				
148. Amputations (tuberculosis 149. Other diseases of the organs of lo-	- "			•••	٠								
	-		٠ا			- 1	1		1			<u>J</u> .	

	January	February	March	April	May	June	July	August	Septembe	October	November	December	Total
X. Malformations 0. Congenital malformations (stillbirths					1				ı				
not included)	İ	!		ı 					` .				•••••
A. Hydrocephalus B. Congenital malformations of heart C. Other congential malformations W. Early Infancy		ļ	<u></u> .	i 						1			2
C. Other congential malformations XI. Early Infancy	į 								i				
ol. Congenital debility, icterus, and	ļ	1	i					į	3	3	2	1	19
XI. Early Infancy Sil. Congenital debility, icterus, and sclerema: A. Premature birth B. Congenital debility, "atrophy," "marasmus," etc. Congenital debility to early infancy: A. Injuries at birth B. Other causes peculiar to early		Z				. 1	2				2		7
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XII. Old age 54. Senility	4	2		, , 	_	-				:			
XIII. External causes 55. Suicide by poison 57. Suicide by hanging or strangulation 58. Suicide by drowning 59. Suicide by frearms	İ 	2	1		1			1	1	1	1	1	. 6
66. Suicide by asphyxia	1	1			î	·						1	4
58. Suicide by drowning	2		1	2	2	1	1	1	4	1		3	18
30. Suicide by cutting or piercing in-	1	1		1						1	1		4
struments 61. Suicide by jumping from high places 82. Suicide by crushing													
struments 3. Sulcide by jumping from high places 32. Sulcide by crushing 33. Other sulcides 34. Poisoning by food 55. Other acute poisonings 66. Conflagration 67. Burns (conflagration excepted) 68. Absorption of deleterious gases (conflagration excepted) 69. Accidental drowning 69. Accidental drowning 69. Traumatism by firearms 71. Traumatism by cutting or piercing instruments 72. Traumatism in mines and quarries 73. Traumatism in mines 74. Traumatism by machines. 75. Traumatism by other crushing:	1								} 				
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66. Conflagration excepted)			2	1						. 1		1	5
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instruments		1	2	2		1	1		· ····	Z	1	1	11
73. Traumatism by fatter and quarries:		<u>!</u>											
A. Traumatism in mines A. Traumatism in mines B. Traumatism in quarries F. Traumatism by machines C. Traumatism by other crushing: A. Railroad accidents and injuries B. Street-ear accidents and injuries C. Automobile accidents and injuries D. Injuries by other vehicles E. Landslide, other crushing Injuries by animals Injuries by animals	ļ												···••
74. Traumatism by machines							1						1
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D. Injuries by other venices													
D. Injuries by other venices E. Landslide, other crushing 76. Injuries by animals 77. Starvation 78. Excessive cold 79. Effects of heat 30. Lightning 81. Electricity (lightning excepted) 81. Electricity													
77. Starvation													
78. Excessive cold 79. Effects of heat 80. Lightning 81. Electricity (lightning excepted) 82. Fractures (cause not specified) 83. Other external violence. 84. Homicide by firearms	·												
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31. Electricity (lightning excepted) 32. Fractures (cause not specified) 33. Other external violence. 34. Homicide by firearms 35. Homicide by cutting or piercing instruments 36. Homicide by other means.				1			·					2	
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38. Ill defined organic disease						, .		1		1	1	1	6
38. Ill defined organic disease 39. Sudden death 00. Not specified or ill defined: A. Ill defined B. Not specified or unknown Exclusive of "injuries at birth."	l			1	1			i		î			2
A. Ill defined B. Not specified or unknown	·	. · · • • • •			i					1			
B. Not specified of difficulties. Exclusive of "injuries at birth." Order of titles under this head changed.	1		i .		l	i	1						

SOCIAL STATUS OF DECEDENTS, 1915											
Jan. Feb. 61 March 62 April 64 May 43 June 54 July 43 August 43 Sept. 33 Oct. 43 Nov. 44 Oec. 53 Totals	African 32 88 35 92 35 81 39 667 35 81 32 22 53 32 22 64 32 77	MCXican	SOCIAL Widowcd	1915 RELAT Divorced: 3 32 24 1 33 1 26 0 27 0 24 0 24 2 15 1 23 2 29 14 293	Totals 93 3 97 5 102 0 73 2 89 2 81 4 75 2 66 85 4 110 28 998						

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July 45 42 73 2	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c c c} 28 & 7 & 14 \\ 18 & 6 & 7 \end{array}$	$egin{array}{c c c} 50 & 30 & 6 \\ 57 & 26 & 6 \\ \hline \end{array}$	96
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AGES OF DECEDENTS, 1915													
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AGES OF DECEDENTS, 1916													
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TOTALS													

DEATHS OCCURRING IN INSTITUTIONS, 1915										
County Hosp St. Joseph's Hosp. U. S. A. Hosp Agnew Hosp Dr. Bail's Hosp. Children's Hosp. Isolation Hosp	B	March 12 14 4 0 0 0 0 0 0 0 0 0	May	June	July:	August 11 5 0 8 0 0 1 25	Sept	Oct	Nov	Dec

DEATHS OCCURRING IN INSTITUTIONS, 1916									
County Hosp. St. Joseph's Hosp U. S. A. Hosp U. S. Marine Hosp Agnew Hosp Dr. Dail's Hosp . Children's Hosp . Isolation Hosp . Totals	12 26 2 6 0 1 0 0 1 5	March	## File	Sept	Nov	Dec Total			

Dr. A. E. Banks, Health Officer, San Diego, Calif.

Dear Doctor:

I beg to offer the following report of work done in the mu-

nicipal laboratories during the year 1916:

The growth of the city in the past few years has been so great that the amount of work done has become too much for one person, and it has been necessary to employ assistance during the past few months. As there has been no provision for this expense, it has been borne by the bacteriologist. I would respectfully call your attention to the matter in the hope that in the next budget allowance provision may be made for additional help when needed. We are doing the same work here, and in nearly as great amounts, as is done in many much larger cities with several employees in the laboratories.

The total number of examinations during the past year was 5,066. Of this number 3,860 were examinations of throat cultures. 189 of these were positive cases of diphtheria. The balance were cultures for suspected contacts of diphtheria cases and for releases of cases under quarantine.

There were 70 examinations of sputum made, submitted from various clinics and other sources.

120 blood examinations were made in cases of suspected typhoid, of which 17 showed positive.

356 samples of milk and 32 samples of ice cream were examined chemically, and 5 samples of milk bacteriologically. Owing to the new milk law, which went into effect October 1st, 1916, many bacteriological examinations of milk will be required and it will be almost impossible unless the other work lightens, or increased assistance is furnished.

There have been 405 bacteriological examinations of water to check the filter and chlorine plants. While occasional colon bacillus has been present in 10 c.c., samples on the whole conditions, from the bacteriological standpoint, have been very satisfactory, both as to total count and colon content. 15 microscopic examinations of water have been made for plankton content. 4 partial clinical examinations have been made.

One positive case of rabies was found in a cat, which had bitten 2 children. Negri bodies were demonstrated and in conjunction with the State Board of Health, which furnished the virus free, the Pasteur preventive treatment was administered to both children here. Neither developed any symptoms at any time.

Miscellaneous examinations were made for the Meat and Dairy Inspector to the number of 6.

Samples of celery. 4.

Also an occasional examination of morphine and blood for the Police Department.

Again I wish to respectfully suggest that the work of this department is sufficient to require additional assistance at times. Respectfully submitted,

H. A. THOMPSON, City Bacteriologist and Chemist.

Dr. A. E. Banks, Health Officer.

San Diego, Cal. Dear Sir:

I submit herewith the report of the Municipal Isolation Hospital for the year 1916.

From the standpoint of numbers, 1916 makes a better showing than 1915, there having been fewer admissions and deaths. During the year there were 209 cases admitted for treatment and three deaths. I append hereto in tabulation the details per-

Variola Diphtheria Diphtheria	$^{ m Admissions}_{5}$	Releases	Deaths
Diphtheria carriers	90	5	0
Diphtheria contacts Scarlet fevor	44	89	9
Scarlet fever	4	42	ñ
Scarlet fever Scarlet fever cont.	33	4	0
Measles Tever cont.	o o	33	Ü
Mumpa	14		U
Varicolla	14	6	0
Varicella Septic sore the	2	14	0
Septic sore throat.	2	2	0
Epid. Meningitis.	4	2	Õ
Proved non-con	2	4	Õ
70	3	1	1
Total		3	1
F073	209		U
There Were 49	- •	205	
this are Were 49	10	4 U D	9

were 438 ambulance trips made in connection with this hospital service. While fewer cases were admitted, the age of patients during the year 1916 was much younger in the majority of cases than in 1015 jority of cases than in 1915, and on account of the number of children it was necessary to the number of the numbe children it was necessary to employ additional nurses fre-

The longest quarantine during 1916 was that of a case of htheria, which patient was bely 1916 was that of a case of days. diphtheria, which patient was held at the hospital for 80 days.

The average residence at the hospital for 80 days.

The average residence at the hospital was approximately 33 days.

Of the cases dying at the hospital was approximately 33 days. Of the cases dying at the hospital was approximately 33 cm. re moribund before heing administration administration and ministration and minist were moribund before being admitted and the antitoxin administration was too late to be of admitted and the antitoxin administration. tration was too late to be of value. These cases were not recognized and reported in time to be. nized and reported in time to have received adequate treatment.

Only one severe case of post distributions received adequate treatment. Only one severe case of post diphtheritic paralysis developed at the institution and this was in the institution and the instituti the institution and this was in the person of an adult in whom the disease was advanced prior to her admission. She entirely recovered all her functions prior to her discharge.

It would be of great advantage to have student nurses from the three nurses' training schools in the city take short courses at this hospital in the care of contagious cases. The old frame building could be used as quarters for them, but considerable repairs and furnishings would be necessary.

The temporary road is in very unsatisfactory condition, and should be replaced with a permanent road as soon as possible.

The hospital grounds comprise four and one-half acres. Thanks to the Park Commission and the kindness of Superintendent J. G. Morley, we received some trees and plants. It is very much to be desired that a part of the grounds be beautified and some playground equipment be installed, especially such as is suitable for small children. The Park and Playground Commissions could indeed do much here that would be highly appre-

The present force is often inadequate. A janitor who could ciated by the convalescents.

also take care of the grounds is very much needed. Respectfully yours,

HELEN LEA, R. N., Superintendent.

Dr. A. E. Banks, Health Officer,

I have the honor to submit the report of the Dairy Division Dear Doctor:

This division is considerably handicapped at the present time, due to the fact that the enforcement of the new State law, which for the year 1916. became effective in October, has added a great deal of additional

We have been able to do some tuberculin testing and collect work.

a few samples of milk for bacterial analysis.

The work of the Milk or Dairy Division involves the inspection of nearly three hundred dairies within a radius of forty miles, the inspection of numerous plants in the cities, and occasional inspections of a great many small stores that retail milk.

Inspections have been made of dairies, to see that proper sanitary equipment has been provided and that tuberculin testing of cows has been attended to, where required. City inspections have been made at the creameries where the milk is tested for sediment and butter fat content, also for the presence of preservative vative and a final check is made on the milk by obtaining samples during the year from all grocery and delicatessen stores and from The milk industry is in a transitional state of betterment;

restaurants.

the degree of which depends entirely upon how good and how safe a product the city desires and the authorities provide for.

Assuming that the community desires a product without liability from tuberculosis, contagion, high infant mortality, etc., as it would were it familiar with the conditions and facts, it is

First—All milk to be pasteurized under municipal supervision, or the herds that are supplying raw milk to be tuberculin tested under municipal supervision;

Second—That more extensive provisions be made for bacterial analysis of milk, to verify its safety and condition:

Third—That proper recompense be provided for the inspector, who must of necessity cover this ground so thoroughly.

Although the law exempts the man who sells his milk to a creamery that pasteurizes the milk, nevertheless a great many of said shippers have made application for tuberculin testing, and it would not be exaggerating to say that fully five thousand head of cows are represented by the applications that have been made

We have forty dairies with an average of thirty cows that are shipping or selling their product in a raw state, and these are the cows that are receiving the first attention, a number of them have been tested already, with the results above mentioned.

We have three pasteurizing plants in operation, two of them in creameries and one on a large rate 1 dairy.

The usual number of new buildings and modern equipment has been added to the dairies during the year.

The "back-yard" cow, which we have always considered as more or less of an "undesirable," has been practically eliminated

This year has been almost devoid of prosecutions; we get results in another manner.

J. A. WOODSIDE. Chief Meat and Dairy Inspector.

Dr. A. E. Banks, Health Officer,

Dear Doctor: San Diego, Calif.

I respectfully submit herewith the annual report of the Meat Inspection Division for the year 1916.

The work of this division covers the inspecting and stamping veal and hogs brought into the inspecting and stamping

of veal and hogs brought into the city by farmers and stock During the flood, (harles Hardy had considerable trouble in sporting sheep to his classed, had considerable trouble in Diego. transporting sheep to his slaughter house at North San Diego. which is under federal inspection; so a temporary one was constructed here and a number of days were spent inspecting sheep until better transportation was obtained.

Mr. J. Rotenberg constructed a slaughter house which meets all requirements of the city ordinance, and frequent trips are made to his establishment. There has been considerable beef slaughtered this year, the bulk being done at Allen's slaughter house in Mission Valley.

The meat and fish markets of our city are in very fair condition. They are inspected at least once a month. The poultry establishments are in the best of condition. The killing rooms are all screened and have metal sink drains and backs, and fly-proof offal barrels.

The wholesale fish markets, which have been in poor condition, due to non-permanent locations, will move into new sanitary quarters inside of a few weeks, which are now under construction.

We have found two cases of rabies in cats and dogs. Whenever a person is bitten by a cat or dog the animal is held under observation at the City Pound for a number of weeks.

Frequent sanitary calls have been made by this division. Respectfully yours,

J. J. KING. Assistant Meat and Dairy Inspector.

-	MEA				AT T	NVIS	ION				_	. .	Total 86 439 74
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Slaughter houses inspected	2	40	42	41	40	•==	4		7	5	10	12	78
Meat markets inspected	39		79	7	8	7	1 .		6	8	10	731	65
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Mont inspected	420	1010	1548	1215	3150	16	20	44	04	26	200	250	696
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Fish condemned (lbs.)	10	21	20	10	17	3	ī	1	U	•		11	_3_
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Dailies inspected Creamerics is		60	66	00		8	7		3	4	5	21	394
Cross inspected	40	6	7	8			4			24	48		385
Creameries inspected Ice cream footsei	7		i	5	4			38			22	30	571
Ice cream factories inspected Milk samples and	4	.4	36	36	32	Ξ.		19 2 5	10	60	0	50	40
Milk samples collected	32	32	50	90	23			2	ŭ		4.	2	26
Milk tested for sediment (dairie	38	42			110	9		- 5	2 2 5	2	3	2	
Milk licenses issued	260	25	24	3	J	3	i	1	z	3	4	5	45
New milk hard	3	4	4	9	4	3	4	3		3	2	2	37
New milk houses constructed	ĭ	3	2	4	3	2			4	50		ō	417
Min. 34 48 Constructed			3			3	- 4	40	80	76	15	91	94
		ō	-1		οò	25	10	5	10	20	10		16
Barns whitewashed Milk condemned (gals.) Cream condemned (gals.) Butter condemned (he)	J	70	20	10	10	15	10	5					10
Cross Condemned (cals)		10	_		10	6					30	30	70
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Courter condemned (lbs.)					10					1	1	- 1	5
Cream condemned (gals.) Butter condemned (gals.) Cottage cheese condemned (lbs.) Cows tested for tuberculosis Number of dairies Lectures on New Law (days)	1												7
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Dairies class (days)				۰									
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Cottage cheese condemned (lbs.) Cottage cheese condemned (lbs.) Cows tested for tuberculosis Number of dairies Lectures on New Law (days) Milk cans condemned Sanitary call	6				•	10 0 1			8 2 0		0		6 2 6
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Rabies suspects Prosecutions	ĭ	U	1		2	! !	ĭ	1			4 0 0	0	6 2 6
Rabin's calls	ĭ	U	1	Ô	2	! !	ĭ	1			4 0 0	0	6 2 6

Dr. A. E. Banks, Health Officer. San Diego, Calif. Dear Doctor:

I respectfully submit herewith the annual report of the Department of Food Inspection for the year 1916

Restaurant increase 1916:	
Restaurant inspections Bakery inspections Confectionery inspections Fruit Stand and Confections	1000
Confectionery inspection	1330 976
Confections Confections inspections Fruit Stand and Grocery inspections Miscellaneous inspections	127
Fruit Stand and Grocery inspections Miscellaneous inspections Written notices Samples for laborators	477
Written notices Samples for laboratory examination	326
Samples for laboratory examination Foodstuffs condemned	159
Foodstuffs condemned Much of this "	34
Much of this "	2844 lbs.

Much of this foodstuff was condemned at the time subset to the floods of land, was condemned at the time subset. quent to the floods of last winter, when the silt in the green vegetables was of questionable with when the silt in the green vegetables were tables was of questionable origin. In these cases vegetables were denatured or ordered management. In these cases vegetables were followdenatured or ordered removed by the garbage company, following the custom of the department.

With the co-operation of the Street Department, the nuisance lecaying fruit and vocate lecaying of decaying fruit and vegetables and of horse manure and flies in the streets of the wholesales and of horse manure and flies in the streets of the wholesale produce district has been largely abated. The combining of one abated. The combining of 23 Japanese market gardeners into a company with a proper building has also helped to solve the problem. We have no work in Los problem. We have no market association, such as exists in Los Angeles, for instance to market association, such as exists in Los Angeles, for instance, to provide for the disposal of fruit and vegetable wastes for the provide for the disposal of fruit and cleaning vegetable wastes, for the removal of such refuse and the cleaning of the market place when the vegetable wastes are removal of such refuse and the cleaning out, of the market place when the peddlers' wagons have gone out, and also to provide toilet facilities for the peddlers. Thus the

lack of organization accounts largely for the difficulties.

Bakeries have advanced largely for the difficulties. Bakeries have advanced greatly, with considerable new marry and improvements is greatly, with considerable new part chinery and improvements in premises—work for the most part not directed by this department. Restaurants also have installed equipment that was not only labor saving, but that accomplished

the work in a cleaner and more satisfactory manner. Several restaurants have moved voluntarily or by the advice the Inspector and the premion of voluntarily or by the advice

of the Inspector and the premises declared unfit for further occurrence to see some pancy for such business. It is a matter for rejoicing to see some following to such buildings torm do matter for rejoicing to see some of more to of these old buildings. It is a matter for rejoicing to see some follow in the near future down, and the promise of more to

Convictions followed four (4) arrests made this year for the State law Sound arrests made this year the

violation of the State law. Several arrests made this year the garbage ordinance failed of several arrests for violation of the garbage ordinance failed of conviction. The camera has proven a valuable help in accomplishing rest near as supplying officers. sults as well as supplying office records. Photographs have been tions were and the records. Photographs have been tions were supplying office records. most useful in court. And the very fact that methods and condimethods on all come to change tions were recorded by the camera has influenced some to change methods or abandon unsanitary conditions.

In many places where food is served the methods of dishwashing are all that could be desired, but there are some where the equipment is poor. Of about 185 restaurants and lunch rooms a little over 5 per cent, heat water for dish-washing in a kettle. and about the same number heat it by means of a gas jet under a metal sink. Besides these the greater number of soda fountains have only cold water for washing glasses and other dishes where light lunches are served. I believe that an adequate supply of running hot water in any place where food or drink is served is of sufficient importance to be obligatory.

Upon the request of one of the teachers a talk was given in October before two of the Improvement Clubs in the upper grades on "Sanitation in the Public Kitchen," to explain the work done by this branch of the Health Department and reasons for con-

The exclusion by State law of any person afflicted with a sidering conditions good or bad. contagious or infectious disease from places where food is handled can be effected only through compulsory medical examination. Agitation in favor of such a measure failed of success, for the reason that employers objected to bearing the expense incurred and employers objected to bearing the objected to undergo medical examination at their own expense.

So this important section of the law goes with little hope of fulfillment, since with the exception of marked skin diseases, an inspect inspector, perhaps even a physician, cannot detect the worker who may be a source of grave public danger.

San Diego is big enough to have ideas of her own and to regulate more specifically than does the State law the places where feet in where food is prepared or served. Besides the needs already mentioned in the tioned in this report, there should be some restriction of cellar kitchens kitchens, bakeries, candy and ice cream factories; some regula-tion of tion of means and extent of ventilation and the requirement of a license to a license to conduct a restaurant. Occasionally through inquiries concerning the opening of a new business an under way before is prevent is prevented. More often a restaurant is well under way before it is discrete. it is discovered. Hore often a restaurant is well and out.

Respectfully submitted, WILHELMINA C. HANSCOM, Food Inspector.