Report on the sanitary administration of the Punjab and proceedings of the Sanitary Board for the year ... and the report on sanitary works for.

#### **Contributors**

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### REPORT

ON THE

### SANITARY ADMINISTRATION OF THE PUNJAB

AND

# PROCEEDINGS OF THE SANITARY BOARD FOR THE YEAR

BY

H. HENDLEY, COLONEL, M.D., K.H.S., I.M.S.,
Offg. Sanitary Commissioner, Punjab.

AND

### THE REPORT ON SANITARY WORK FOR 1915

BY

MR. V. STAINTON,

Offg. Sanitary Engineer, Punjab.





Lahore:

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Proceedings of His Honour the Lieutenant-Governor of the Punjab in the Home (Medical and Sanitary) Department, No. 83-Sanitary-1, dated 5th July 1916.

READ—

The Report on the Sanitary Administration of the Punjab for the year 1915 by Colonel H. Hendley, I.M.S., Officiating Sanitary Commissioner, Punjab.

Remarks.—The character of the seasons during the year had a marked effect on the health of the province. Unusually heavy rain in March and the beginning of April retarded the development of normal hot weather actions, thus prolonging and accentuating the severity of the worst epidemic of plague since 1907. On the other hand, the practical failure of the monsoon and consequent abnormally dry weather during the remainder of the year resulted in the disappearance of plague in June and its reappearance later in the year only on a very small scale. To the same cause was due the almost entire absence of malaria in epidemic form. The price of food grains remained unusually high throughout the year.

- 2. There was a fall in the general birth-rate of 2.7 per mille as compared with the previous year. The birth-rate in 1914 was, however, exceptional, and a much larger decrease was to be expected than actually occurred. Compared with the average of the previous five years the rate was only 1.3 in defect, while in five districts it was actually higher than in 1914. The decrease was greatest in the Gujrát and Multán districts, amounting to over 5 per mille compared with the quinquennial average and to 7.8 and 6.8, respectively, compared with the previous year. The fall is attributed partly to the effect of plague and partly to the absence on military service of so many young men and men in the prime of life. In Rohtak and Gurgaon, however, the rates were over 50 per mille,—an excess of 26 per mille over the death-rates. As the former is one of the best recruiting districts in the Province too much stress cannot obviously be laid on the second of the reasons given for the reduction in the number of births.
- 3. There was a considerable rise in the death-rate, from 32 to 36·3 per mille. This was chiefly due to plague, but cholera and respiratory diseases were contributary causes. The figures with regard to infant mortality, however, show a very marked improvement. Calculated on the number of births during the year the mortality among male infants works out at 188·02 and among female infants at 189·17 as compared with 208·98 and 211 38, respectively, in 1914—figures which themselves were better than those of the previous year. March, April and May were the unhealthiest months, plague being then at its height, while the months from September to December, usually marked by an epidemic of malaria, were healthier than any other period of four months in the year. The death-rate was highest in the Rawalpindi District, and was above the provincial rate in eleven other districts. It was less than 20 per mille in the Dera Gházi Khan and Simla districts and less than 30 per mille in ten other districts.
- 4. The general death-rate in towns was practically the same as that in rural circles, but there were considerable differences in respect of the various causes of death, the rural rate for plague being 6.03 in excess of the urban rate, while respiratory diseases accounted for 3.24 per mille more deaths in towns than in country circles. In the smaller towns of the province the variations in the rates were very marked, ranging from 2.40 in Gojra to 68.96 in Gohána. Sixteen other towns had rates of over 50 per mille, the high mortality in most cases being due to plague. Of the three principal towns in the province, Amritsar was the most unhealthy with a death-rate of 43.5 as compared with 33.59 in Lahore and 33.14 in Multán. The chief cause of this difference is to be found in the high mortality from respiratory diseases which amounted to 14.44 in Amritsar as compared with 4.97 in Lahore and .627 in Multan.

- 5. Inspection of birth and death registers revealed the normal percentage of omissions. In the Government of India resolution on scientific sanitation which was published in 1914 stress was laid on the want of complete and accurate vital statistics as constituting an impediment in the way of sanitary reform. The remarks of the Government of India in this connection were brought to the notice of local bodies, and a project has been approved for obtaining accurate registration in a selected area by means of a special staff. The realization of this project, however, awaits the return of normal financial conditions.
- The number of deaths registered as due to cholera was 13,196, the largest number in any year since 1903. Deaths were reported from every district in the province, 69 towns and 1,678 villages being infected. The Ferozepore and Lahore districts with 2,890 and 2,657 deaths, respectively, were the worst sufferers, while among towns the number of deaths was highest in Kasúr, Gohána, Amritsar, Lahore and Kunjah. As in 1903 the chief cause of the outbreak is to be found in the infection spread by pilgrims returning from the great Hardwar Kumb fair, but a further centre of diffusion was the Ghariala fair in the Kasur Tahsil, while in the Gujrát District the epidemic started from local causes in two villages, in one case being due to the eating of the flesh of a diseased ox, and in the other to the drinking of water from a polluted well in a graveyard. The experience of the year has thus still further emphasised the importance of controlling the sanitary arrangements at all large fairs, and in this direction good work is being accomplished. Special arrangements are made at the larger fairs under the supervision of the Additional Deputy Sanitary Commissioner, and during the year schemes for the supply of pure water to the fair areas at Gullu Shah and at Núrpur in the Rawalpindi District have been approved and assisted by grants-in-aid from the Sanitary Board.
- 7. Only 1,694 deaths were due to small-pox, the lowest number recorded since registration of deaths was introduced. Eleven districts of the province were practically free from the disease. The death-rate from fevers was, however, again very high, amounting to 14.73 per mille, though this figure represents an improvement on the previous year which is accounted for by the almost entire absence of malaria in epidemic form. The rate was proportionately highest in the Multan Division, where 56,752 deaths out of a total of 82.268 were attributed to this cause. No satisfactory explanation is afforded of the very large increase from 9.55 to 30.12 recorded in Murree which had a higher rate than any other town. On the whole, the towns shared in the general decrease but the rate remained high in Khángarh, Karor, Bhakkar, Shujabad, Kamália and Alipur.
- 8. It has already been observed that the epidemic of plague with which the Province was afflicted in 1915 was the worst since 1907. Twelve districts suffered severely, and a total of 244,104 deaths was recorded. The epidemic had commenced in the latter portion of 1914 and the full effects were feit in the first half of 1915. There was, however, but little recrudescence in the latter half of the year owing to the abnormally hot weather and the efforts of the plague staff in treating the worst infected areas. His Honour is glad to observe that despite the severity of the epidemic the special staff were able to afford general medical relief to a large number of persons. He is convinced that no better means exist of gaining the confidence of the people and thus facilitating the introduction of the various measures by which plague can be effectively controlled if not overcome. It is also gratifying to find that some local bodies entertained paid agents to assist in the work, and that much valuable voluntary help was forthcoming.
- 9. The increase in the recorded number of deaths from respiratory diseases is a disquieting feature of the year, but is no doubt very largely due to improved diagnosis. At the same time the heavy toll that is taken by tuberculosis of the lungs especially in towns cannot be disregarded, and His Honour

trusts that the question will receive the fullest consideration from local bodies. Much indeed depends on the personal habits of residents in towns, but it is one of the foremost duties of the authorities responsible for the health of towns to see that the conditions so favourable to this disease, crowded houses, narrow and sunless lanes, and generally the want of air and light which are such conspicuous features of the larger towns in the province, shall not be perpetuated or reproduced in future extensions or alterations.

10. Eight lakhs were originally allotted to the Sanitary Board for distribution among local bodies, but it was subsequently found necessary, for financial reasons, to withdraw more than half this sum. Over 3½ lakhs were, however, distributed by the Board in aid of urban drainage and water-supply schemes and about Rs. 15,400 for rural sanitation.

One of the main obstacles in the way of utilising the allotments for rural sanitation has been the rule that a grant-in-aid of a sanitary scheme shall only be made when half the cost of the work is provided from local sources. The subject of rural sanitation has been engaging the close attention of Government, and the question of passing a special Act on the lines of the United Provinces Village Sanitation Act has been carefully examined. It has, however, been decided that for the present such an Act is not required, and that the Punjab District Boards Act provides all the administrative machinery necessary. In several districts the adoption of simple regulations under this Act to promote the sanitation of villages has been approved, and in a number of cases villages have agreed to the imposition of taxation in order to meet the cost of elementary measures of conservancy. In such cases when there is an evident desire on the part of the inhabitants for sanitary progress His Honour considers that the strict requirements of the rule may be waived and that grants in aid of sanitary works may be given, provided the principle of self-help is not disregarded, even when half the cost of such works cannot be raised by local contributions. With regard to urban sanitation there are no fresh developments to record, but drainage and water-supply schemes figure prominently in the activities of most municipalities. An experiment in the administration of quinine to school children, which was made in Amritsar in the autumn of 1914, met with considerable success. The results achieved are being brought to the notice of selected municipalities which are being recommended to adopt a similar scheme modified in the light of the experience gained at Amritsar. The acknowledgments of Government are due to the many individuals mentioned in paragraph 39 of the report who have constructed works of public utility; the public spirit shown by the Jats and Mahajans of the Ambala Division in this matter merits special mention.

11. The post of Sanitary Engineer to Government was held by Mr. A. S. Montgomery up to the end of September and by Mr. V. Stainton for the rest of the year. Mr. Stainton's report gives an interesting account of the various sanitary works in progress throughout the province and a summary of the many schemes which have been prepared but have not yet been put in hand. It is, however, distressing to learn that many completed sanitary schemes were found to be in a very neglected and deplorable condition through lack of proper maintenance and supervision. His Honour trusts that the instructions recently issued to local bodies regarding the regular inspection of machinery and plant by expert firms will be carefully followed.

Colonel C. J. Bamber held charge of the post of Sanitary Commissioner in addition to his own duties until the middle of July when he was succeeded by Colonel Hendley. His Honour's acknowledgments are due to both these officers for the readiness with which they undertook the additional responsibilities involved in this charge and to Colonel Hendley for an interesting report. The posts of Deputy Sanitary Commissioner and Additional Deputy Sanitary Commissioner were held throughout the year by Major W. C. H. Forster, I.M.S., and Dr. Khwaja Abdurrahman, respectively, and His Honour desires to express his appreciation of their services.

ORDER.—Ordered that a copy of the foregoing remarks be circulated with the report and be furnished, with the usual number of copies of the report, to the Government of India; also that the review be published in the *Punjab Government Gazette*.

Ordered, also, that a copy be furnished to the Sanitary Commissioner, Punjab, for information.

By order of His Honour the Lieutenant-Governor of the Punjab,

O. F. LUMSDEN,

Financial Secretary to Government, Punjab.

#### SANITARY DEPARTMENT.

#### MEMO, OF ERRATA.

#### In the Annual Sanitary Report of the Punjab for 1915.

- 1. On page 13, paragraph 26, line 24, for "18-80" read "18-08".
- 2. On page 15, paragraph 38, line 13, for "from neglect" read "their neglect".
- 3. On page 19, paragraph 49, line 6, for "66" read "68".
- Annual Form No. IV, Ambala, against all other causes, sub-column 14, for "60" read "50".
- 5. Annual Form No. IX, against Ambala, sub-column 22, for "11.73" read " 11.78".

#### Printers' Mistakes.

- 1. Annual Form No. IV, Shahpur, against plague, sub-column 24, for "4 2" read "482"
- 2. Annual Form No. IV, Shahpur, against fevers, sub-column 14, for "15" read " 154"
- 3. Annual Form No. IV, Lyallpur, against total sub-column 26, for "110-7" read "11,087"
- Annual Form No. IV, Total for the Province, against respiratory diseases sub-column 26, for "218 1" read "21,871".
- Annual Form No. IV, Batio per 1,000 living for the Province, against small-pox, subcolumn 23, for "0.00" read "0.001".
- Annual Form No. IV, Ratio per 1,000 living for the Province, against dysentery and diarrhoea sub-column 21, for "0.8" read "0.80".
- 7. Annual Form No. V, against Simla, sub-column 16, for "1.9" read "1.95".
- 8. Annual Form No. V, against Multan, sub-column 17, for "23.7" read "23 76".
- Annual Form No. V, against Dera Ghazi Khan, sub-column 4, for "57-50" read "57,550".
- 10. Annual Form No. VI A, against Gurgaon, sub column 27, for "45.5" read "45.51".
- 11. Annual Form No. VI A, against Gujrat, sub-column 13, for "2" read "26".
- 12. Annual Form No. VI A, against Lyallpur, sub-column 24, for "0-9" read "0-39"
- Annual Form No. VI A, against Muzaffargarh, sub-column 23, for "0-6" read "0.16".
- Appendix to annual Form No. VI B, against Jullundur Cantonment, sub-column 17, for "1S" read "18".
- Annual Form No. IX, against Dera Ghasi Khan, sub-column 21, for "3,098" read "8,098".
- 16. Annual Form No. XI, against Ambala, sub-clumn 11, for "2 5" read " 255".
- 17. Annual Form No. XII, against Rawalpindi, sub-column 17, for " read " 18".
- 18. Annual Form No. XII, against Attock, sub-column 17, for " read "4",

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### Section I.

MR. GILBERT T. WALKER, C.S.I., M.A., Sc.D., F.R.S., Director-General of Observatories, has kindly furnished Chief meteorological features. the following brief summary of the chief

meteorological features of the Punjab during the year 1915 :-

During January rainfall occurred mainly on the 16th, 17th, 23rd and 24th, and was confined almost entirely to the eastern and northern parts of the province, but even there the recorded amounts were generally short of the small normal for the month. During February wide-spread rain fell on the 3rd, 4th, 7th and 8th, but dry weather set in and continued up to the 8th March when a winter storm from Persia introduced general rainfall lasting for four days. This disturbance was followed at intervals by three or four others of the same type, and the last two of the series caused good rainfall over the east and north Punjab during the second week of April. In the Simla Hills snowfall occurred down to unusually low levels as late as April 7th. The rainfall of both March and April was distinctly heavier than usual and one of its important effects was to retard materially the development of the normal hot weather actions. In May accordingly there were fewer duststorms and thunderstorms than usual and the rainfall was upwards of 50 per cent. in defect. Marked hot weather conditions prevailed in June and frequent showers were recorded, but as there were no incursions of damp sea winds, such as ordinarily occur, the month's rainfall although normal in the south-west of the province was as much as 44 per cent. below the average in the north and east Punjab. The monsoon currents were exceedingly weak and fitful from July to about the middle of September and the rainfall due to them was light and occurred sporadically. Between September 12th and the 4th October the monsoon was very active and good rain fell in the northern and eastern parts of the province, but it failed to extend into the south-west Punjab. During the rest of the year save for light rainfall in December 1915 the weather was drier even than usual.

In brief the weather was more open than usual in January and February. abnormally wet in March and the first half of April and unusually dry during the rest of the year with the exception of the interval between September 12th and the 4th October when a much-needed burst of rainfall occurred. Normally the final cessation of the summer rains in the Punjab takes place about the middle of September.

In January, July, August and November, the months of abnormally dry weather, cloud amount was in decided defect. Humidity was high in the first four months and low in July and August when a marked drought prevailed over the province. The maximum temperature departed to no great extent from the nomal except in May, July and August when it was 4° or more in excess; the minimum was higher than usual by 5° in May and by 3° in July and September, and fairly normal in the rest of the year.

2. The usual return furnished by Mr. L. French, C.I.E., I.C.S., Director of Land Records, Punjab, shows that the Price of food-grains. average retail price of wheat was 81 seers per rupee at Ambala, 83 at Lahore, 87 at Rawalpindi and 94 at Multan during the year 1915.

The average rates of barley were 13 seers at Ambala, 141 at Lahore, 1413 at Rawalpindi and 123 at Multan, and that of jowar 1013, 113, 1116 and 121, respectively. As regards bajra, the average rates varied from 915 to 1013 seers at the principal markets of Ambala, Lahore, Rawalpindi and Multan, that of maize 101 to 111 and that of gram 111 to 1216 seers per rupee.

Except in the case of gram, there was a general rise in the price of foodgrains as compared with the preceding year, which is due to the war and the failure of the monsoon. The fall in the price of gram is due to less exports to the United Provinces and the bumper crop of 1915.

3. The first survey on wages taken in December 1912 will stand until the next survey which will be held in Wages of labour. 1917.

### Section V.—Vital Statistics.

Though the question of basing our statistics on an estimated population throughout the Report has been Population. deferred for the present, yet for comparison an estimated population has been prepared and a few ratios worked out to show the difference made in the ratios calculated on this population and that of the previous census. The birth rate on the estimated population is 41.0 per mille, this is 2.6 less than the rate calculated on the census figures. The difference in individual districts varies and is as high as 4.9 in Lyallpur and as low as 0.6 in Rawalpindi, while in Simla the rates are the same. In the case of deaths, the rate for which is 34.1, there is a decrease of 2.2 over the rate calculated on the census figures and here also the rates in individual districts varied but not to the extent that they did in the case of births. The decrease was greatest in Ferozepore 3.0 and least in Rawalpindi 0.8, while in Simla there has been an increase of 0.1. The population in all the districts except Simla has increased since the census of 1911 and now amounts to 20,573,733 instead of 19,337,146, i.e., an increase of 6 per cent. The population in Lyallpur has increased by 12 per cent., Ferozepore and Montgomery 10 per cent., Hissar, Jhang and Multan 9 per cent., Rohtak, Lahore and Mianwali 8 per cent., Ludhiana and Shahpur 7 per cent. and Gurgaon, Sialkot and Muzaffargarh 6 per cent. In the others it varied between 2 per cent. in Rawalpindi and 5 per cent, in Karnal, Jullundur, Amritsar, Gurdaspur, Gujranwala, Gujrat, Attock and Dera Ghazi Khan, Simla being the only district with a reduction of 68 or 0.2 per cent. The population of Simla however is so small that this slight decrease in it need not be considered.

5. But for plague which caused a death rate of 11.48 per mille the year

1915 was an exceptionally healthy one
and excluding plague deaths the death
rate is lower than it has ever been since 1877. With the exception of cholera and
respiratory diseases which accounted for more deaths than in recent years no other
cause of mortality except plague showed an increase while the reduction in the
death rate from fevers compared with the two previous years and the quinquennium is most satisfactory and is due, no doubt, to the partial failure of the
monsoon. The birth rate is not so satisfactory but compares favourably with
the average for the previous five years and is only a little less than it was in
1911, 1912 and 1913. The birth rate in the previous year 1914 was exceptionally high and as in 1899 has been followed by a year in which the birth rate is
much less, though in the year under report the decrease has not been nearly so
great as it was in 1900.

6. Births.—The total number of births this year was 843,012 of which 440,955 were males and 402,057 females, Annual Form No. I. the respective rates being 43.6, 22.8 and 20.8. Compared with the previous year there is a total decrease of 2.7 per mille though the quinquennial average is only 1.3 in excess. The birth rate this year has presumably been affected by plague and perhaps partly by the absence of young men and those in the prime of their life at the war. Last year's birth rate was exceptional and the rates for the two years previous to it were also high, so the quinquennial average was higher than it usually is; the birth rate for this year showing a decrease therefore when compared with these rates does not mean that it was exceptionally low, on the contrary it may be regarded as a fairly average rate. A remarkable fact about the birth rate is that after a year in which it is exceptionally high it is usually followed by one in which the rate is either very low or lower than that for the previous five years, e.g., 1883, when it was 39.00 followed by 20.01 in 1884, in 1899 48.4 followed by 38.8 the following year. I do not quote 1909 for there were special reasons for the great decrease which was explained at the time in the report for that year.

7. The Central Provinces again shows the highest birth-rate 47.95 and the Punjab comes next with 43.60.

The other provinces recorded rates in the following order:—United Provinces 43.48, Bihar and Orissa 40.4, Bombay 37.10,

Burma 35:13, Assam 33:60, Bengal 31:80, North-West Frontier Province 31:73 and Madras 31:2.

- 8. The provincial birth-rate shows a decrease of 1.3 per mille compared with the quinquennial average; this decrease was shared by all the districts in the province except Hissar, Rohtak, Gurgaon, Simla, Kangra, Mianwali, Jhang and Dera Ghazi Khan. Compared with the previous year the decrease is greater and amounts to 2.7, while individually only 5 districts have a higher birth-rate than in the year preceding, namely, Simla, Kangra, Rawalpindi, Mianwali and Jhang, and it is satisfactory to note that among these districts Simla, Kangra, Mianwali and Jhang have a higher birth-rate than their respective quinquennial averages and the rates for the year preceding. The decrease was greatest in Gujrat, Multan, Ferozepore, Amritsar, Montgomery, Ludhiana and Lyallpur, where it was 5.4, 5.3, 2.3, 2.2, 2.5, 1.0 and 2.3, respectively, compared with the quinquennial average, and 7.8, 6.8, 5.7, 4.9, 4.8, 4.8 and 4.1 with that of the previous year. In the remaining districts the increase or decrease did not exceed 3.9 and was as low as 0.1.
- 9. In the principal towns of the province, i.e., those with a population of 10,000 or upwards, 38 in number, the same as last year, the rate amounted to 43.4 as compared with 45.4 the previous year and 43.7 the average for the previous five years. Of the three largest of these Amritsar accounted for the highest rate 44 per mille, Multan coming next with 41 and Lahore 38. With the exception of Lahore, in which the rate is the same as in the previous year, the other two have lower rates than in the quinquennium and the year preceding.
- 10. The highest birth-rate, 51·3 was recorded in Rohtak, Gurgaon Righest and lowest birth-rates.—Annual Form No. I. closely following with 50·2, Hissar 49·1 and Amritsar 48·1. The lowest rate was registered in Simla 21·3, next to this comes Dera Ghazi Khan with 31·1, Muzaffargarh 34·6, Jhelum 35·6, Attock 37·0 and Multan 37·1. In the others it varied from 38·7 in Kangra to 47·9 in Karnal. The provincial rate of 43·6 was exceeded in 12 districts out of the 28 in the Province.
- 11. The natural increase of population, i.e., excess of births over deaths

  Excess of births over deaths.—Annual Form No. I. amounted to 7.3 per mille in the year under report. Among those districts which had an excess of births Rohtak and Gurgaon, both districts, which have a high birth-rate headed the list, the excess amounting to no less than 26.5 and 26.0, respectively, Lyallpur had an excess of 21.4 and Hissar 20.9. In the others it ranged from 19.9 in Jhang to 0.1 in Sialkot. This increase was observed in all but 6 districts, namely, Jullundur, Amritsar, Gujrat, Jhelum, Rawalpindi and Attock. The excess of deaths over births was greatest in Rawalpindi 18.3, Gujrat 15.6 and Jhelum 13.2, in the other three districts it varied between 3.7 and 4.2.
- 12. Deaths.—The death-rate during the year under report which amounted to 36.3 per mille, accounted for 702,550 deaths, 359,821 males and 342,729 females, and was 4.3 per mille in excess of that for the previous year and 5.0 in excess of the average for the previous 5 years. The high death-rate is due to plague, but cholera and respiratory diseases also accounted for more deaths than in the previous year. With these exceptions, however, the rates have been lower than in the previous year and the quinquennium except in the case of dysentery and diarrhoea which have a slightly higher rate than in the quinquennium. The reduction in the fever death-rate is most satisfactory and with the exception of the rate in 1912 is the lowest on record since 1877.
- 13. The highest provincial death-rate was recorded in the Punjab 36.33, the Central Provinces coming next with 35.91 and the remaining provinces as follows:—Bengal 32.83, Bihar and Orissa 32.2, Assam 30.86, United Provinces 30.04, Burma 27.99, Bombay 26.12, North-West Frontier Province 23.61 and Madras 22.0.

14. The highest death-rate was registered in Rawalpindi 57.4, the others were as follows :- Gujrat 55'8, Deaths by districts.-Annual Form No. II. Amritsar 52.3, Jhelum 48.8, Jullundur 47.0, Gurdaspur 46.1, Sialkot 46.0, Gujranwala 43.0, Ludhiana 41.4, Attock 40.9, Hoshiarpur 39.3 and Lahore 38.7, all these districts had rates higher than the provincial rate and in all of them their high rates are due to plague. On the other hand in those districts in which there was either no plague or very little low death-rates were recorded, e.g., Dera Ghazi Khan 19.0, Simla 19.7, Muzaffargarh 23.4, Multan 23.8, Montgomery and Gurgaon 24.2, Rohtak 24.8, Lyallpur 25.2, Jhang 25.5 and Mianwali 25.8, in fact the total death-rates in these districts are not as high as the plague rates in Gujrat, Rawalpindi and Jhelum where they were 36.0, 28.6 and 27.4, respectively. In the 6 districts not already mentioned the rates varied between 28.2 in Hissar and 34.5 in Ferozepore. All the districts in the Jullundur Division have a death-rate higher than the mean for the previous 5 years and last year's rate and the same is the case in the Lahore and Rawalpindi divisions with one exception in each case, i.e., in Gujranwala in the Lahore Division and Mianwali in the Rawalpindi Division the rate is less than it was last year. Ambala is the only Division which shows a reduction in both while Multan has only two districts with a higher rate than in the previous year and in the quinquennium, namely, Montgomery and Lyallpur; the increase in these two districts is due partly to plague and cholera in Montgomery and to plague in Lyallpur.

Death-rate by months.—Annual Form No. III.

Death-rate being only 1.75, this was closely followed by October 1.84, August 1.87, July 2.06

and November 2.12, the low rates from September to November are due to the practical absence of Malaria in epidemic form. The only months in which a high death-rate was recorded were April 6.04, May 4.81 and March 4.53 the cause being the severe outbreak of plague in these months. Owing to plague in the first half of the year the total deaths practically doubled that of the latter half for the reason that fevers accounted for much fewer deaths than usual. The Malarial season, i.e., September to December, was healthier than any fourmonth period during the year.

16. Infants under one year of age again accounted for the highest death-rates, 195.24 for males and 188.06 Death-rates according to different diseases under speci-fied age periods.—Annual Form No. IV. for females, but these rates are much below those for the previous year which were 230.43 and 223.05. The decrease is due chiefly to a reduction in the deathrate from fevers, respiratory diseases and all other causes, but all heads of mortality except cholera, plague and injuries accounted for a lower death-rate in this age group than in the year preceding. The infant mortality calculated on the number of births during the year works out at 188.02 for males and 189.17 for females as compared with 208.98 and 211.38 in the previous year. Last year's figures were an improvement on those for the previous year and the improvement this year is even more marked. The next highest rates were recorded among those above 60 years of age and were 78.03 in the case of males and 84.47 in that of females, these figures are in excess of those for the previous year and are due principally to an increase in the deaths from plague which was more prevalent in the year under report than in the previous year. Children between one and five years of age accounted for rates of 48:48 and 50:79, those between 50 and 60 for rates of 36.43 and 40.84, those between 40 and 50 for rates of 26.44 and 28.98, in the other age groups it varied between 16.06 the male rate in the group between 20 and 30 and 25.31 the female rate in the group 10 and 15. The total female rate exceeded the male rate under every age group except in the case of infants under one year of age.

17. The districts of Gujranwala and Attock are again offenders in respect of a higher death-rate being recorded among "other classes" than the general population, while the districts of Jhang, Sialkot, Muzaffargarh, Dera Ghazi Khan, Gujrat, Montgomery and Amritsar recorded very high death-

rates under this heading ranging from 65.90 in Amritsar to 416.6 in Jhang, the total rate for the province being 51.26.

The rates for the others was as follows :-

Native Christians 40.21, Muhammadans 38.72 and Hindus 33.19.

Practically no improvement has been effected in rectifying the classification of deaths by classes, notwithstanding all efforts made by this department, and it is feared that no change for the better can be expected until the next census when it is hoped that the population for this class will be more accurately recorded.

18. The rural rate which was 36.35 exceeded the urban rate 36.17

Deaths in towns and rural circles.—Annual Form under the heads of mortality of cholera, plague and fevers, the excess being greatest under plague amounting to 6.03. Under all the other heads of mortality the urban rate was in excess but to no marked extent except in the case of all other causes and respiratory diseases, the excess amounting to 2.86 and 3.24, respectively.

Amritsar again accounted for the highest death-rate among the three most important towns of the province, the rate being 43.50 as compared with 45.44 last year and 39.26, the average for the previous five years. Multan and Lahore had rates of 33.14 and 33.59, both rates were in excess of their quinquennial average and in the latter above the rate for the previous year also. The increase in Amritsar is due to plague and respiratory diseases, the death-rates from which were 4.78 and 14.44, respectively, compared with a quinquennial average of 1.24 and 9.23. The increase in Lahore and Multan compared with the quinquennial average calls for no remarks except perhaps that in the latter plague accounted for a death-rate of 2.01 against an average of 0.02. The increase in Lahore compared with last year is very slight 0.38, while Multan shows a decrease of 2.03.

Among the smaller towns in the province the lowest rate was recorded in Gojra 2·40, Lyallpur coming next with 9·30 and the following in all of which the rate was below 20·0 per mille, Sargodha (14·13), Akalgarh (14·71), Fattehabad (15·79), Dera Ghazi Khan (17·27), Simla (17·59), Khangah Dogran (18·15), Sambrial (18·46), Hafizabad (19·33), Daud (19·82) and Shahkot (19·92). These low rates are due to either the entire absence of plague or to a very small death-rate from it and also partly to the low rate from fevers. The highest rates were recorded in Gohana 68·96, Mitranwali 65·03, Murree 64·65, Sharakpur 61·13, Panipat 54·63, Raekot 54·19, Eminabad 53·75, Nurmahal 53·08, Khushab 51·78, Pakpattan 51·69, Khem-Karan 51·47, Dinga 51·02, Jagraon 50·87, Chawinda 50·69, Jagadhri 50·64, Dasuya 50·04 and Jandiala 50·01. With the exception of Murree, the high death-rate in which is due to fevers (30·12) and dysentery and diarrhœa (17·63), the high rates in all the others are the result of the excessive plague rate recorded in them.

19. There were 620,460 entries checked in the birth registers and 475,230 in the death registers. This shows a decrease compared with both last year and the average for the previous five years. This decrease is due to the fact that the Vaccination Staff were employed to a very large extent on cholera and plague duty during the off season.

The percentage of omissions discovered to number of entries checked worked out to 1.81 and 1.84 for male and female births and 0.89 and 0.95 for deaths for inspections by Divisional Inspector; the rates for Superintendents of Vaccination and Vaccinators are 1.11 and 1.33 for male and female births and 0.45 and 0.52 for deaths. The Revenue Staff found omissions at the rate of 1.07 and 0.89 among births and 0.80 and 0.73 among deaths.

There were 110 Chowkidars fined for neglecting to report births and deaths during the year, the fines amounting to Rs. 65. In municipal towns 151 persons were fined for failing to register births and 91 to register deaths, the total fines amounting to Rs. 202.

- 20. At railway stations outside municipal limits 119 births and 91

  Births and deaths among employés at railway stations.

  deaths were registered, the corresponding figures for the previous year were 152 and 116, respectively. Of these deaths 2 were due to cholera, 5 to plague, 44 to fevers, 4 to dysentery and diarrhoea, 1 to respiratory diseases, 3 to injuries and 32 to all other causes. No death was registered from small-pox.
- 21. There were 239 births and 130 deaths among Europeans and Anglo-Indians as against 394 and 206, respectively, in the previous year. The total number of deaths are distributed as follows:—Cholera 4, plague 1, fevers 6, dysentery and diarrhæa 7, respiratory diseases 21, injuries 2 and all other causes 89. No death was registered from small-pox.
- 22. Among the non-military population of cantonments there were 3,558 births at a rate of 17 per mille and 3,352 deaths at a rate of 16 per mille, the corresponding figures for the previous year being 3,863 and 3,577 at rates of 18 and 17, respectively. The deaths were classified as follows:—1,516 fevers, 461 respiratory diseases, 122 dysentery and diarrhœa, 114 plague, 42 each cholera and injuries, 1 small-pox and 1,054 all other causes.

#### Section VI.—Chief Diseases.

Cholera.—The total number of deaths from cholera registered in 23. 1915, the great Hardwar Kumb Fair Annual Form No. VII. year, amounted to 13,196, the largest annual number since 1903, the year in which the last Kumb Fair was held when 14,688 deaths were recorded. The only other year in which deaths almost equalled this figure was 1908 when 12,297 were reported, the result of a severe outbreak of the disease at Kitas Fair in the Jhelum District. The ratio of mortality from this cause was 0.68 per mille of population or double the rate in the previous year and 0.50 more than the quinquennial average. Deaths were reported from all the districts in the province and out of a total of 139 towns and 33,110 villages, no less than 69 towns and 1,678 villages were infected. The largest number of deaths was registered in the districts of Ferozepore and Lahore being 2.890 and 2,657, respectively, Gujrat came next with 1,251, Hissar 785, Amritsar 782, Kangra 775, Karnal 624, Montgomery 587, Rohtak 556, Gujranwala 542, and Ludhiana 502, while in Lyallpur, Shahpur, Rawalpindi, Gurgaon, Ambala, Hoshiarpur, Gurdaspur, Sialkot and Jhelum the number of deaths varied between 316 and 50. In the 8 remaining districts the mortality did not exceed 20.

Except for 3 deaths from cholera registered in the Kangra District during the month of January (a continuation of the outbreak during the latter part of the previous year) the province was free from the disease for practically the first two and a half months of the year. During the latter half of the month of March 10 deaths were registered of which 4 occurred in Kangra, 5 in Lahore and 1 in the Amritsar district.

The first case of cholera occurred at Nurpur in the Kangra District on the 19th March; the inquiry made elicited the fact that the patient had been to Amritsar where cholera was said to be present but on enquiry the Health Officer, Amritsar, reported that he had not heard of the prevalence of the disease there at that time. At Nurpur all preventive measures were adopted and the disease kept well under control. There were only 7 cases with 4 deaths.

On the 23rd March an imported case of cholera occurred at Jawalamukhi Naurata Fair, also in the Kangra District. The patient was a pilgrim from Gharwal District in the United Provinces and developed symptoms of the disease 36 hours after his arrival at Jawalamukhi; another case also occurred in the same locality on 28th. The patients were isolated and every possible precaution taken, but this fair has been held responsible for the partial dissemination of the disease and along with infections imported from Kumb Fair, Hardwar, led to the epidemic which continued in April, May and June

It was towards the end of March that the disease broke out in epidemic form amongst the people returning from the Ghariala Fair in the Kasur Tahsil from where the infection was spread gradually to other parts of the district and led to a severe epidemic. The source of infection at Ghariala could not be definitely traced. The first (fatal) case, in the Amritsar District, occurred on the 30th March in the Amritsar city, in the person of one who had returned from the Ghariala Fair.

On receipt of telegraphic intimation from the Sanitary Commissioner, United Provinces, that cholera was present at Hardwar and pilgrims were dispersing, Civil Surgeons and Health Officers were warned to take necessary precautions against the disease, but notwithstanding this precaution cholera broke out at once in 23 districts and caused 877 deaths during April, the victims being in most places those who had just returned from the great Hardwar Kumb Fair. It may be noted here that no less than 2,017 cases with 1,085 deaths were due to infection introduced from Hardwar from the middle of April to the 3rd week of May. In May the number of deaths amounted to 4,390 when the disease assumed a virulent form; from the month of June the disease declined and the number of deaths fell to 3,607, in July and August

there was a still further reduction to 2,145 and 1,796 while in September and October the number fell to 331 and 29, respectively, the number of infected districts decreasing accordingly. In November, Ferozepore and Gurdaspur were the only districts in which deaths occurred, only 1 in the former and 7 in the latter. No death was registered during the month of December. The district of Ferozepore headed the list with 4,407 cases and 2,890 deaths. From the cholera enquiry reports it was ascertained that no less than 61 persons were infected at Hardwar in the Kumb Fair and were the chief agents of importing infection into the district. The Civil Surgeon and the medical subordinates did all that was possible to stamp out the disease and to mitigate its effects. Eighty infected villages were frequently visited by the Civil Surgeon who personally conducted operations. The Additional Deputy Sanitary Commissioner, Punjab, was also in this district from 8th to 28th June supervising anti-cholera operations in the infected villages of Moga and Zira Tahsils which were the worst affected. The Lahore District came next with 2,657 deaths. The Ghariala Fair in the Kasur Tahsil was considered to be a diffusion centre as from the cholera enquiry reports the source of infection was traced from this fair to at least 36 villages, many of which helped again in the further spread of the disease. It is a noteworthy fact that with the exception of the Kangra District the disease was not prevalent in any part of the province at that time and as far as could be ascertained it was not imported from the Kangra District or from outside the province, it may therefore be concluded that the real origin of the disease was from "Chronic carriers." It would also be interesting to note that the first few cases noticed in Algan, which was the first village infected from Ghariala on 29th March, were very similar to severe ptomaine poisoning, only those who attended the Fair being attacked. The course of the epidemic was much protracted, lasting from 29th March to nearly the end of September. The largest number of deaths in this district occurred in May and June (1,018 and 673, respectively) the reason assigned was that a large number of marriages took place during these months, the Jats being comparatively free from work in the fields. In Lahore Municipality 86 deaths occurred, the first four cases being among those who had just returned from Hardwar between the 16th and 25th April with the exception of a sporadic case which occurred on April 7th. Besides these 10 cases with 7 deaths occurred in a part of the city known as Wachhowali on the 2nd May and the Health Officer reported that although he could not say with certainty yet from the history given to him, it seemed as if infection had been brought from Hardwar. Prompt measures for disinfection were adopted in all cases reported, by the Health Officer, Lahore, and the spread of the disease was kept well under control. About 430 wells were permanganated in the City. Gujrat is the third district in which cholera has been bad this year. The disease was first perceived in Pindi-Hasna and Chilianwala villages in the Gujrat and Dinga Police Stations on 14th May. After that 3 towns and 210 villages were infected from one another and from the adjacent districts. At Pindi-Hasna the cause of the disease was reported to be due to the eating of the flesh of a diseased ox by some 30 persons, all of whom were seized with vomiting and purging and that then the disease spread through contaminated food and drink in the village. At Chilianwala it was reported that the people had evacuated their houses on account of plague and were living at different wells outside in temporary constructed huts. The two camps in which the first persons were attacked were side by side. They drank water from a well situated to the east of the village on the roadside and in the Muhammadan graveyards of the Sayyads which had been closed for the last four months. The water contained a lot of decomposed matter which lent it a whitish colour and an offensive smell. Next day after drinking the water 4 cases of vomiting and purging occurred in both these camps. Two of them ended fatally, while the others recovered. When the people assembled in the same graveyard to bury the first Muhammadan case and offer prayers several of them drank water from the same well and all were seized with vomiting and purging in the evening. The disease went on slowly in June, but with the approach of the Ramzan (15th July) it began to increase, but subsided again after the "Id" festival (15th August). There can be no doubt that the

Ramzan is a great predisposing cause and Gujrat being a district which is mostly populated by Muhammadans suffered considerably. In the Kunjah town all those attacked with one exception were Muhammadans, they fell sick mostly during the fasting month.

There was an outbreak of epidemic diarrhoea in Murree during the month of Ramzan. The Civil Surgeon and the Additional Deputy Sanitary Commissioner, Punjab, who were sent to investigate the disease, examined excreta of 4 cases, with the result that no cholera germs were found in the stools.

The chief cause of the severe epidemic of cholera this year, except in Lahore and Gujrat districts which were badly infected, was the great Kumb Fair at Hardwar, though later on disseminating centres were formed in the infected districts. Every possible effort was made to check the spread of the disease and the Additional Deputy Sanitary Commissioner, Punjab, inspected the severely infected districts, personally supervising the disinfection of all sources of water supplies and other anti-cholera precautions. While not on cholera duty all the returns were checked by him and in addition to pointing out irregularities to the Civil Surgeons concerned, he also instructed them as to further precautions to be observed. It was a drawback that the prevalence of the disease was not reported to the authorities in several cases till the disease had been firmly established, it is hoped that in future, now that the Lambardars and Chaukidars have been made definitely responsible for the prompt report of such outbreaks, there will be no more trouble of this nature and if so, that the district authorities will take severe notice of any definquency in future.

In April at several principal railway stations segregation sheds were erected and passengers found sick in trains were removed and treated in them. As cholera was also prevalent in Kashmir an inspection post was established at Kohala to prevent the introduction of the disease from that side.

The Civil Surgeon of Amritsar reported that valuable services were rendered in connection with cholera by Honorary Sanitary Inspectors, Bhai Sahib Singh, son of Sirdar Budh Singh, Subedar-Major, and Lala Jaishi Ram, grandson of late Lala Lal Chand Rai Bahadur, Honorary Magistrate and Sirpanch of Amritsar city. The public spirit shown by the gentlemen was most praiseworthy. They distributed medicines gratuitously and made frequent visits in order to get the drains and lanes situated within their circle thoroughly cleaned; besides they rendered much assistance in the disinfection of wells and houses in the city. The Civil Surgeon considered that they deserved high commendations and exceptional notice for these services.

The Civil Surgeon, Gurgaon, reported that the services of Rao Bahadur Balbir Singh, Honorary Magistrate of Rewari, were also worthy of special recognition. Lalas Sri Ram and Maya Das, Civil Surgeons of Ludhiana and Gurdaspur, Chawdhri Mela Ram and Sayed Nasir Hussain, officiating Civil Surgeons of Kangra and Ferozepore districts, did good work in controlling the disease, and Assistant Surgeons, Pandit Chandar Shikar, Lala Piarey Lal Tandan and Lala Jagat Ram Kochar also rendered valuable services. The following Sub-Assistant Surgeons Abdul Rahim, Bhawani Sahai, Lala Diwan Chand of Zira, Munshi Jan Mohammad, Lala Fakir Chand, and Pandit Amin Chand of Dehlon are also worthy of mention for their valuable services in this connection.

24. Small-pox.—There were as few as 1,694 deaths in all recorded under the head of small-pox yielding a rate of 0.09 per mille of population. The number of deaths among children under one year of age was 379 as against 765 in the previous year whilst the number for over one and under 10 years of age was 911 as against 1,569. It is satisfactory to note that the death rate is 0.06 less than the figures for the previous year when the ratio of mortality from this disease was the lowest recorded since the introduction of the system of registration of deaths. It is also 0.73 below that of the quinquennial average. The decrease is no doubt due to the fact that there were very few persons susceptible to the disease for the reasons stated in paragraph 24 of the report for the year 1914.

During the month of January 64 deaths were registered and in February the number of deaths fell to 59 which is the lowest number of deaths ever recorded in any one month since 1867. In March and April, however, the number of deaths rose to 101 and 131, respectively, and to 306 in the month of May in which it was the highest. From this month onwards, however, the disease declined and the number of deaths fell to 282 in June, 244 in July, 144 in August, 105 in September and 96 in October; the months of November and December accounted for only 77 and 85 deaths, respectively, and with the exception of the month of December of the previous year, when there were only 76 deaths recorded, these figures are the lowest on record for this season since the commencement of the registration of deaths in the province.

The districts of Ferozepore and Lahore recorded the highest death-rate from small-pox as was the case last year being 0.42 and 0.33, respectively, per 1,000 of population, but these rates were lower than the figures for the previous year and that for the average for the previous 5 years. Ludhiana comes next with a rate of 0.25 compared with 0.34 in the year preceding. In Amritsar, Hissar, Lyallpur, Multan and Montgomery the rates varied between 0.19 and 0.09.

It is very gratifying to observe that the districts of Simla, Kangra, Jhelum, Gujranwala, Rawalpindi, Attock, Dera Ghazi Khan, Jhang, Gujrat, Mianwali and Sialkot were practically free from the disease as no death was registered in the Simla district and in the others the number of deaths was between 1 and 8 only. In the 9 remaining districts of the province the death rate was also below the provincial rate.

The average death-rate from small-pox in towns was 0·12 per mille or Mortality in towns.—Annual Form No. VI A and B.

O'4 greater than in rural circles while for towns in which the compulsory Vaccination Act is in force it was 0·10 as compared with 0·15 for those in which the provisions of the Act have not been extended. Vaccination is better attended to in towns where it is compulsory, but a stricter application of the Act would effect greater improvement. Among the largest towns of the province, Multan headed the list with a death-rate from small-pox of 0·38, Amritsar being next with 0·21, while in Lahore the rate was as low as 0·03. In the smaller towns the highest rates were registered in Ballabgarh, Khudian and Batala and were respectively 1·73, 1·34 and 1·21, and it may be noted that the provisions of the Act have not been extended to any of them. In 36 towns the death-rate varied between 0·03 in Gujranwala and 0·93 in Phillaur and in the remaining 97 towns there was not a single death from small-pox.

The rate of mortality from small-pox was, as usual, greatest, among infants under one year of age being 0.49 per mille in the case of males and 0.42 in that of females as compared with 1.00 and 0.84, respectively, in the previous year. Among children from one to five years of age the rate fell to 0.31 and 0.27, while in the next age period of 5—10 years it was further reduced to 0.13 and 0.12; over 10 years of age the death-rate never exceeded 0.03 per mille in either sex and gradually fell with increasing age. The female death-rate was greater than the male rate in age periods from 10—50 years due to the reason given in last year's report, namely, the reluctance with which females are presented for re-vaccination.

25. Plague.—The following plague report has been furnished by the Inspector-General of Civil Hospitals, Punjab.

Mortality.—There were 244,104 deaths from Plague in the year under report in the Punjab. This is the worst epidemic since that of 1907, though

the years 1910 and 1911 were not by any means light years as will be seen from the following figures:—

1907			d la la contra	 666,501
1908			A	 40,106
1909				 45,064
1910				 169,867
1911				 198,669
1912		***		 35,123
1913				 20,231
1914				 73,627
1915				 244,104

The severity of the 'epidemic was mainly due to the large legacy of infected areas left over from the latter half of the year 1914.

Area of distribution.—The Jullundur, Lahore and Rawalpindi Divisions were attacked very severely, the Multan Division escaped comparatively lightly. In the Ambala Division the districts of Gurgaon and Rohtak which are annually rather badly affected were not so this year, but the Karnal and Ambala districts suffered more heavily than usual. Two districts, Mianwali and Dera Ghazi Khan, practically escaped. Out of the 28 districts in the province, altogether 12 were severely visited, viz., Hoshiarpur, Jullundur, Gurdaspur, Ludhiana, Amritsar, Lahore, Gujranwala, Gujrat, Jhelum, Shahpur, Rawalpindi and Attock.

Seasonal variation.—Starting with a death roll in January twice as heavy as that of the corresponding month of 1911, the worst year within the preceding seven years, the mortality went up by leaps and bounds until it reached its highest in April, when the humidity and the temperature factors were most favourable to the spread of the disease; and it began to drop in May, practically disappearing in June, and during the last 6 months of the year owing to the abnormally dry weather and unusually high temperature a number of districts remained absolutely free. A comparison of the figures for the first and the last 6 months, January to June 1915, 243,299, July to December 1915, 805, together with the mortality for the last 6 months of 1914, which was 13,833, shows what has been the effect of the legacy transmitted to this year, while at the same time it enabled us to foretell more or less correctly what sort of a year 1916 would be.

Measures.—(1) Education.—In addition to instruction afforded to the people on the causes, prevention and treatment of Plague, large numbers of Lady O'Dwyer's Appeal to the Women of the Punjab were very widely distributed.

#### (2) Disinfection-

- (a) By Solar Heat. People seem to understand the value of this quite well, and they would quite willingly practise it if only they could rid themselves of their accustomed inertia.
- (b) Dessication by means of dried cowdung cakes and Nim leaves burned on the floor is in use, and people like it.
- (3) Rat Destruction.—Has been carried out throughout the year. In the hot weather particularly the worst later infected villages were repeatedly visited, and in only a very few instances has there been any outbreak in them; where there has been any it has been of a very mild type. This rat-destruction campaign has been carried out by means of—
  - (i) trapping.
  - (ii) baiting.
  - (iii) smoking with Nim Battis.
  - (iv) smoking with stoves.

The general idea has been to reduce the rat population in -

(a) places which were infected late in the preceding year.

(b) places where the epidemic generally appears early and annually.

(c) places which reported unusual rat mortality or human cases at any time.

The good effects of these operations were well illustrated by the work of the municipalities of Rawalpindi and Lahore. In the former case operations were commenced very late, but the result was satisfactory in that the disease was kept well in check. In Lahore over 2 lakhs of rats were killed.

Owing to Chlorate of Potassium for Nim Battis not being obtainable in the market, smoking with Bhusa and sulphur was carried out by means of stoves with a bellows attachment with a very good result.

- (4) Cresol Fumigation.—This was done fairly extensively and its utility seemingly succeeded in aborting out breaks or in preventing their getting out of control.
- (5) Evacuation.—This measure the people know to be effectual, but it is difficult to get them to practise it so as to be of real use in cutting short an outbreak. During active infection people will fly away in panic, evacuating houses and even whole Mohallas, but with the exception of rare instances where all possible help has been given by the District authorities, they will not evacuate whole villages. The unintelligent employment of this measure together with the little use made of their power to refuse access to people from infected places are largely responsible for the spread of the disease from one place to another.
- (6) Inoculation.—Although it must be admitted that there are certain districts where this measure is becoming to be appreciated at its proper value there is no doubt that there is little willingness shewn in accepting it except where the danger of contracting the disease is imminent. Consequently we have been practising limited inoculation, i.e., inoculating mainly of persons actually exposed to infection. This has been found to work very satisfactorily and we have this year done as many as 161,313 inoculations in British districts, with another in the 4,844 in the Native States, as compared with 49,468 in 1914, and 26,419 in 1913, and 51,570 in 1912.

Reporting.—Though there have been instances here and there of villages trying to hide an outbreak and though there have been undoubtedly some tahsils which have shown a disinclination to give early intimation of fresh outbreaks, yet on the whole, the reporting has been more satisfactory.

Attitude of the People.—On the whole the attitude of the people generally to plague measures has, it is thought, improved. The medical staff has been frequently admonished on the necessity of remaining in contact with villages and providing medical relief to such as require it. There is no doubt there is too great a tendency for Assistant Plague Medical Officers to look upon themselves as inspecting officers and to pay only flying visits to infected areas.

General Relief.—47,849 persons were treated during the year by the special staff in the way of medical relief, as compared with 55,915 in 1914, 84,530 in 1913 and 36,940 in 1912. Considering that the staff had a very severe epidemic to control this may be considered satisfactory.

Protection of Simla.—The usual arrangements for the protection of Simla were carried out throughout the year.

Special Staff.—There was an average of thirty Assistant Surgeons and seven Sub-Assistant Surgeons on Plague work. On account of the reversion to the Military Department of all I.M.S. officers on Plague duty it was found necessary to have an Assistant to the Chief Plague Medical Officer, and Dr. T. Sinha was selected for the appointment, and he took up his duties from the beginning of September. About the end of September, Lieutenant-Colonel D. T. Lane, I.M.S., the Chief Plague Medical Officer, reverted to his substantive appointment and since then I have carried on the duties of Chief Plague Medical Officer.

Sanction was obtained from the Local Government to place the district Vaccinators on Plague duty during the hot weather to help in rat extermination under the supervision of the Special Staff.

Auxiliary Staff.—All Assistant Surgeons and Sub-Assistant Surgeons in charge of dispensaries are now required to attend to outbreaks in towns and villages pending the arrival of the special staff.

Paid lay Agents.—Some district boards and municipalities employed paid agents during active infection to carry on ratting operations and to help the special staff with satisfactory results, and many people rendered most helpful voluntary assistance which, as far as possible, has been acknowledged.

26. Fevers.—Fevers this year accounted for 284,784 deaths at a rate of 14.73 per mille as against 17.87 last year and 16.31, the average for the previous five years. This rate is lower than that in the previous 2 years and only slightly higher than that recorded in 1912.

As in the previous year, the fever death rates of fourteen districts were lower and of fourteen higher than the provincial rate of 14·73. This rate was exceeded in the districts of Muzaffargarh and Mianwali where it was 20·34 and 20·10, respectively, Amritsar 18·18, Attock 18·13, Rawalpindi 17·95, Kangra 17·41, Multan 17·31, Hoshiarpur, 16·93, Gujranwala 16·89, Dera Ghazi Khan 16·19, Lahore 15·95, Montgomery 15·77, Karnal 15·14 and Hissar 14·85. But all these districts except Lahore, Amritsar, Mianwali and Montgomery have lower rates than their quinquennial average.

It is gratifying to note that the fever death rate showed a decrease in all the districts in the Punjab as compared with that of the previous year except Kangra, Ferozepore and Montgomery which showed a slight increase, which calls for no remark. Compared with their quinquennial average all the districts show a decrease except Ferozepore, Lahore, Amritsar, Mianwali, Montgomery and Lyallpur.

The lowest death rates were recorded in the districts of Simla, Gurgaon, Gujrat and Shahpur where they were 7.69, 9.49, 10.76 and 10.95, respectively.

As usual the rate for females was higher than that for males.

The fever death rate for towns and rural circles was 13:32 and 14:87 as

Fevers in municipal towns and rural circles. Annual against 15:64 and 18:80, respectively, in the previous year. The three largest towns had the following fever death rates, Lahore 18:59, Amritsar 15:59 and Multan 15:38. The first named town recorded a higher and the other two a lower rate than in the previous year. In the minor towns rates as high as 30:12 were recorded in Murree, 27:77 in Khangarh, 26:83 in Karor, 24:13 in Bhakkar, 23:37 in Shujabad, 22:63 in Dina Nagar, and 22:34 in Kamalia and Alipur, while the lowest rates were recorded in Rewari 0:40, Gojra 0:74, Dalhousie 4:26, Kalaswala 4:46, Sargodha 4:75, Raekot 4:79 and Dharmkot 4:95.

Although the fever death rate recorded in Khangarh and Kamalia towns during the year under report is high, yet these rates are lower than their respective rates for the previous year. The highest fever death rate 30·12 was recorded in Murree as against 9·55 in the previous year. No satisfactory explanation has been furnished for this high rate, but the Civil Surgeon reports that on enquiry it appears there was an outbreak of enteric fever and that some of the deaths may be due to this outbreak. It is probable, however, that some deaths due to diarrhea during the epidemic were misclassified and recorded under the head of fevers.

As usual infants under one year of age and old people above sixty suffered most from fever during the year, the death rates being 81.59 for males and 81.64 for females in the former and 42.80 and 44.60 in the latter groups. Next to these come those between one and five, the rates being 22.00 and 23.67, all these rates were lower than those recorded in the previous year.

The rates for the others varied from 5.09 to 10.01. The largest number of deaths from fevers among infants under one year of age were registered in the Kangra, Amritsar, Hissar and Lyallpur districts.

There was an outbreak of typhoid fever in village Uddafattah in the Sialkot District where 19 cases and 5 deaths occurred between the last week of May and the 1st August. On enquiry it was found that the first case was a Christian boy aged 9 years who had not been away from the village and died on the 5th June. Other cases followed rapidly chiefly among children or young persons between the ages of 4 and 14 except in two cases, men of 21 and 25 years of age. The cause of the infection could not be traced. The Civil Surgeon, Sialkot, reported that an attempt was made to take blood in capsules for examination but this was not per mitted by the relatives of the patients.

27. Dysentery and Diarrhea.—There was a total number of 12,558 deaths from this cause at a rate of 0.65 per mille, this is 0.04 less than in the previous year and 0.08 in excess of the average for the quinquennial period. Rawalpindi again accounts for the highest death rate 3.91, and Hoshiarpur the lowest 0.03, and with the exception of Montgomery and Attock where the rates were 0.06 and 0.07, the rates in the others varied but slightly, i.e., from 0.14 in Muzaffargarh to 1.62 in Kangra.

The urban and rural rates were 1.91 and 0.52, respectively, the corresponding rates for the previous year being 2.11 and 0.55.

- 28. Respiratory Diseases.—Diseases of the respiratory organs accounted for 47,193 deaths at a rate of 2.44 per mille. This rate which is in excess of the average for the previous 5 years (2.26), and last year (2.42), is the highest on record since 1908, when it was 3.22. The highest rate as usual was recorded in Gurdaspur (10.22) and the lowest in Multan 0.002, fairly high rates were recorded in Ambala 5.33, Amritsar 4.56, Jullundur 4.45 and Sialkot 4.18, while very low rates were recorded in the Multan Division. Jhang District being the only one in which the death rate was 1.29.
- 29. Injuries.—Of the 6,893 deaths recorded under the head injuries which caused a death rate of 0.36, 253 which caused a death rate of 0.36, 253 (102 males and 151 females) were due to suicide, 463 (351 males and 112 females) to wounds, 4,673 (2,681 males and 1,992 females) to accidents, 1,134 to snake bite, 272 to injuries inflicted by wild beasts and 98 to rabies.
- 30. All other causes.—114,266 deaths were recorded under the head "All Other Causes" at a rate 5.91

  per mille, the corresponding figures for the previous year being 131,688 at a rate of 6.81, and the rate for the quinquennium 6.37. The highest death rate under this head was recorded in Gurgaon 10.0, and this was closely followed by 9.9 in Ferozepore, 9.6 in Ludhiana, and 9.0 in Karnal. The lowest rate was as usual in Gurdaspur 0.9, the following districts also returning low rates, Dera Ghazi Khan 1.4, Muzaffargarh 2.0, Rawalpindi 3.7, Attock 3.8 and Gujrat 3.9, in the others it varied between 4.1 in Mianwali and 8.3 in Rohtak.
- 31. Rabies.—There were 5,050 patients during the year, who underwent anti-rabic treatment at the Pasteur Institute of India at Kasauli, as compared with 4,589 in the previous year. Out of this number 322 were Europeans and 4,728 Indians. There were 60 deaths and 30 failures all among Indians. The number of cases who were advised that treatment was not necessary, was 441 as against 297 in the previous year.

### Section IX .- Sanitary Work.

- 32. The Report on Sanitary Works during 1915 furnished by the Sanitary Engineer to Government, Punjab, is contained in appendix B to this report.
- 33. Only three village sanitary note-books were supplied to villages in the Multan District and 50 books to the Civil Surgeon, Montgomery, during the year 1915.
- 34. The sum of Rs. 500, which was provided in the budget of the Gurgaon District for rewards on account of sanitary improvement, was not utilized as no village was reported to be deserving of a reward.
- 35. The number of wells cleaned and parapets constructed during the year fell from 13,120 to 9,537, and from 1,700 to 1,489, respectively. The amount spent for the purpose was Rs. 59,323 as against Rs. 75,132 last year.

In the Ferozepore District 148 wells were cleaned by private persons at their own expense, while in the Gohana Tahsil (Rohtak District) certain private individuals spent a sum of Rs. 996 in this direction.

Three springs of water were improved by the district board, Mianwali, by providing iron pipes; estimates for Rs. 2,378 for the construction of a water reservoir and filter bed at Musakhel, and improvements to the spring water between Trutta and Sukesar are also in hand.

- 36. An income of Rs. 1,28,286 was derived from the sale of street sweepings in municipal towns during the year as against Rs. 1,40,520 last year. The largest sums were realized in Lahore, Amritsar and Sialkot.
- 37. There were 1,842.60 acres of land under sewage irrigation in the principal towns and Rs. 34,333 were realized for its use during the year showing an increase of 94.22 acres in land thus irrigated and Rs. 845 in the amount realized.
- 38. Very few attempts have been made to improve village sanitation.

  It is extremely difficult to get the villagers to change their customs or habits, it would therefore seem almost hopeless to do very much to help them until some wish for improvement is shown by the people themselves. Instruction in schools, experience of the benefits of good water, etc., in their visits to towns, fairs, etc., where good sanitary arrangements have been made, will, it is hoped, at least tend to remove prejudices against steps taken to assist them and lead in time to the growth of a genuine desire to help themselves.

In the course of my inspections nothing has struck me more than the need there is for a better appreciation of the benefits of good sanitation amongst the municipal authorities of our towns, even where under their own direction a system of drainage has been introduced, from neglect has led to its becoming a source of danger rather than a benefit to the population committed to their care. In the Hissar and Amritsar districts efforts are being made to teach the people the elementary principles of sanitation through the agency of the plague establishment when they are on itinerating duties.

It is gratifying to note that a punchayat of 7 men is being appointed to supervise sanitation in villages in the Gurgaon District.

39. A list of works of public utility constructed during the year works of public utility by private individuals.

1914-15 by private individuals at their own expense is given below:—

Ambala Division.—Ambala District.—A pucca well on the road to Ambala at a cost of Rs. 600 by Buhloo Mal, son of Parabh Dyal, Bania, of Daugdehri. A ghât of a tank at a cost of Rs. 1,000 by Mussammat Partapi, widow of Kalyan Singh, Jat of Kumbara. A well

at a cost of Rs. 900 by Mussammat Karmen, widow of Hira Singh, Jat of Mullanpur. A pucca well at Mankheri, tahsil Rupar, at a cost of Rs. 600 by Mussammat Partapi, widow of Kirpa, carpenter, of Bharaoli Tahsil, Sirbind, in Patiala State.

Hissar District.—A pucca well at Satrod Kalan at a cost of Rs. 4,000 by Badri, son of Kanhi Ram, Mahajan of Satrod Kalan. A Dharamsala with a well on Hansi-Jind Road at a cost of Rs. 3,500 by Nathu Ram, son of Jai Ram, of village Narnand. A pucca well with a Dharamsala at village Dhanana at a cost of Rs. 3,000 by Radha Kishen, adopted son of Lekh Ram, of village Dhanana. A pucca well with platform near village Haluwas Mazra Deosar on Bhiwani-Kairo Road at a cost of Rs. 3,500 by Jankhe Ram, Mahajan, of Bhiwani Halu Janpal. A pucca well with ghât, etc., in village Deosar at a cost of Rs. 3,900 by Lala Het Ram, son of Lala Kalu Ram, Mahajan of village Deosar. A pucca well in village Kasumbi on Bhiwani-Kairoo Road at a cost of Rs. 3,000 by Jali Ram, son of Muthra Dass, Mahajan, of Bhiwani Janpal.

Rohtak District.—A Dharamsala with a well at Bahadurgarh at a cost of Rs. 5,000 by Lala Ajudhia Parshad, son of Kishori Lal, Mahajan, of Bahadurgarh. A pucca well at Jharli at a cost of Rs. 3,500 by Chaudhri Dhani Ram, Zaildar, Jharli. A pucca well on Rohtak Bohar road near Bohar at a cost of Rs. 2,000 by the wife of Indraj, son of Teja, Jat, of Bohar. A pucca well at Kiloi at a cost of Rs. 2,000 by Jiwan Ram, son of Fateh Chand, Mahajan, Lath. A pucca well at Bidhal on the way to Joli at a cost of Rs. 900 by Amar Singh, son of Harnamond, Pujare, Mahajan, of Bidhal. A pucca well at Bhainswal Kalan on the way to Anwali at a cost of Rs. 1,200 by Baldewa, son of Pokhar, Mahajan, Bhainswal Kalan. A pucca well at Dhanana, Alladadpur, on the way to Chiri and Nandal, at a cost of Rs. 1,000 by Sukh Lal, Brimchari of Dhanana. A pucca well at Khandrai at a cost of Rs. 450 by Hari Singh, Rati Ram and Nathoo, Jats, of Khandrai. A pucca well within the compound of Veterinary dispensary, Gohana, at a cost of Rs. 650 by Jiwan Ram, son of Fateh Chand, Mahajan of Lath. A pucca well on tank at Bhaini Chandarpal, at a cost of Rs. 1,000 by Nanak Nath, Jogi of Bhaini Chandarpal. A pucca well on the tank at Seman at a cost of Rs. 4,000 by Mat Ram, Mahajan, of Seman.

Gurgaon District.—A Dharamsala, well and garden on the Bahadurgarh-Majhaoli Road at a cost of Rs 600, Rs. 400 and Rs. 500, respectively, by Baldey, son of Gutti, Mahajan of Tigaon. A pucca well, Dharamsala and Piao on Nuh-Ujina Road, at a cost of Rs. 1,800 by Tota and Nanga, son of Mukh Ram, Mahajan of Nuh. A well and Dalan on Jhajjar road at a cost of Rs. 1,200 by Bansi, son of Mansa, Jat, of Khandeola. A pucca Dharmsala, Piao and well at Badha at a cost of Rs. 90, Rs. 35 and Rs. 700, respectively, by Tej Singh and Bahala, son of Ram Parshad and Ram Saran, son of Harpal, Jat, of Badha.

Karnal District.—A pucca well at Sheikhupura for drinking purposes at a cost of Rs. 300 by Chaudhri Raja Ram, son of Prem Sukh, Jat, of Sheikhupura. A pucca bathing ghât'at Tiraon built from contributions at a cost of Rs. 976 by Pandit Ajudhia Parshad and Baij Nath, sons of Mangal Sen, Brahmin of Tiraon. A pucca well at Naraina village for drinking purposes at a cost of Rs. 400 by Mussammat Bhuro, widow of Bhartu, Gujar, of Naraina. A pucca well at Bhalang for drinking purposes at a cost of Rs. 1,050 by Chaudhri Sukh Ram, son of Sahej Ram, Jat, of Bhalang.

LAHORE DIVISION.—Labore District.—A drinking well and a shed for travellers on the Lahore-Multan Road near village Kakki Zai, tahsil Lahore, at a cost of Rs. 1,000 by Lala Har Bhaj Ram of Lahore. A drinking well on circular road near Zailghar, Chunian, at a cost of Rs. 600 by Mussammat Matab Kaur, widow of Magi Ram of Chunian. A drinking well in the town at a cost of Rs 625 by Pandit Ram Nath of Chunian.

Gujranwala District.—The sinking of a well and constructing a hut in the compound of the District Court, Gujranwala, for the convenience of the public and litigants, at a cost of Rs. 1,404 by Lala Mohan Lal, Arora, caste Ghamir, Municipal Commissioner, Gujranwala:

Rawalpindi Division.—Mianwali District.—A tobha (Kacha tank) at a cost of Rs. 120 by Mussammat Khatun of Shadia (Mianwali). A well at a cost of Rs. 320 by Mussammat Khando of Shadia. A tobha at a cost of Rs. 275 by Jhangi Ram of Watta Khel (Mianwali).

### Section X.

40. Colonel C. J. Bamber, I.M.S., held additional charge of the post of Sanitary Commissioner, Punjab, from the commencement of the year till the forenoon of the 12th July 1915, when I relieved him and held additional charge till the end of the year.

The post of Deputy Sanitary Commissioner was held throughout the year by Major W. C. H. Forster, I.M.S., in addition to his duties of Professor of Pathology at the Lahore Medical College.

Dr. Khawaja Abdul Rahman, M.B., Ch. B. (Edin.), D. P. H. (London), held charge of the appointment of Additional Deputy Sanitary Commissioner, throughout the year. He was confirmed in his appointment on 20th November 1915.

- 41. In January Colonel Bamber inspected Montgomery, Multan, MuInspection work of Sanitary Commissioner.

  Gojra, in April, Simla and Jullundur, and afterwards conducted the examination of the Sanitary Inspectors' class. In May he inspected Amritsar and
  accompanied the Local Government to Simla. No inspections were done in the
  summer, but I inspected Simla and Gurgaon in October, and in the following
  month Ferozepore, Rohtak and Ambala. In company with the Sanitary Engineer, I visited the Nankana Sahib fair ground on the 20th November and
  advised the Deputy Commissioner in regard to the preparation of the rough
  project for a model fair ground in connection with the drainage and water
  works there. A combined note by the Sanitary Engineer and myself was also
  prepared and sent to the Deputy Commissioner for necessary action.
- Inspection work of Deputy Sanitary Commissioner, Panjab.

  to the proper sanitary surveys of towns, as he was almost entirely occupied at the Medical College, Lahore, and in the supervision of the working of the Punjab Vaccine Institute. Nevertheless during the college recess (from the middle of June to the end of September) he toured, chiefly for the purpose of inspecting Vaccination and Birth and Death Registration, in 88 towns and villages of the following localities:—

British Districts-(1) Simla, (2) Ambala.

Native States - (1) Keonthal,

- (2) Theog,
- (3) Kumharssin,
- (4) Rampur Bashahr,
- (5) Jubbal,
- (6) Baghat, and
- (7) Ghund.

During these tours, as far as possible, every opportunity was taken to bring home to the people generally, and the officials particularly the advantages to be derived from the observance of general sanitary measures.

43. In the beginning of January Dr. K. A. Rahman inspected some of the local schools at Lahore, and examined 3,957 children in connection with the immunity produced by glycerinated calf lymph. On the 14th of that month he started his first tour of Sanitary and Vaccination inspections, returning to head-quarters on the 28th February. During these seven weeks he visited and reported on the sanitary condition of the towns of Hafizabad, Ramnagar, Akalgarh, Gojra, Chak Jhumra, Khangarh, Leiah, Karor and Bhakkar, at the same time inspecting vaccination and registration of births and deaths in the above-mentioned towns and 304 villages of

the Gujranwala, Lyallpur, Muzaffargarh and Mianwali districts. In March he was deputed to supervise the Medical and Sanitary arrangements at the Pehowa fair in the Karnal District. On the termination of the fair he visited the Jullundur District and reported on the sanitary condition of the towns of Nakodar, Nurmahal, Rahon and Banga, inspecting vaccination and registration of births and deaths in those towns, and also of Phillaur and Nawashahr and 104 villages in the district.

In April he supervised the Medical and Sanitary arrangements made at Choa Saidan Shah and Katas fairs in the Jhelum District, after which he made a sanitary and vaccination inspection of the town of Pind Dadan Khan. On his return to head-quarters he was ordered to investigate an outbreak of cholera in the Kasur Tahsil of the Lahore District, which appeared there in epidemic form. In May he was detailed to supervise cholera operations in the towns of Panipat, Dharamsala, and in several villages of the Kangra and Palampur tahsils of the Kangra District. Early in the month of June he inspected the Punjab Vaccine Depôt at Murree, after which he remained on cholera duty in the Ferozepore District till the end of that month.

By the middle of July he was in Simla, where he worked in my office, dealing with the cholera enquiry reports and returns of the province besides his own office work.

On August 13th, he left Simla for Murree where diarrhea was reported in an epidemic form. From there he went to Gujrat, Shahpur and Lahore districts, investigating the outbreaks of cholera in the infected parts of those districts, returning from there to head-quarters on the 23rd September. In October he visited and reported on the sanitary condition of the towns of Sonepat, Bahadurgarh and Gohana in the Rohtak District. In November he supervised the Medical and Sanitary arrangements of the Nankana Sahib and Baba Farid fairs in the Gujranwala and Montgomery districts, respectively, and in December he made a sanitary inspection of the towns of Panipat and Kaithal, at the same time inspecting vaccination and registration of births and deaths of these towns and 46 villages in the Karnal District.

- 44. Civil Surgeons made one hundred and eighty-four inspections of towns and 2,238 of smaller towns and geons. towns and 2,238 of smaller towns and villages during the year as against 158 of towns and 2,743 of villages in 1914. The number of towns inspected by Assistant Surgeons remained the same as in the previous year, viz., 43, and of villages 1,191 as compared with 1,116 in the previous year.
- 45. Owing to scanty rain during the year under report there was no undue prevalence of malaria in the province, notwithstanding this, however, a good deal of quinine was distributed free of cost in most of the districts.

In Fazilka town Mr. S. Chandu Lal, Assistant Surgeon, took special interest in carrying out anti-malarial measures by destroying mosquitoe larvæ with kerosine oil, filling up and draining depressions, quininisation of school children and free distribution of quinine. A pamphlet on malaria written by him was also freely distributed.

Special precautions were taken by the municipal committee of Palwal to check the spread of malaria by filling up depressions and kerosining pools of water for the destruction of mosquitoes and removal of an objectionable eactus hedge through a special malaria gang under the supervision of Revd. F. W. Hale, a member of the Committee, and Kanwar Raghbir Singh, the Sub-Divisional Officer.

In the Ambala District short leaflets giving the necessary information and the precautions to be observed in avoiding malaria, etc., were distributed.

46. Many borrow-pits in the Civil Lines, Ambala, were filled up on the recommendation of the Civil Surgeon, while 37 notices were issued by the Lahore Municipality for the filling in of depressions, 26 of which have been

complied with, and action is being taken to have the remaining depressions filled in. A "chappar" (pond) near the village Padhana was drained during the year at a cost of Rs. 700.

A pucca floor and a drain were constructed at Jhelum under Railway crossing bridge on the Civil lines road leading to the Cantonment to do away with the accumulation of the rainy water, and in order to check the spread of malaria at Pind Dadan Khan tanks were cleaned during the year.

- 47. The Deputy Sanitary Commissioner, Punjab, remained ex-1 ectures on Hygiene at the Medical College, Lahore. Medical College, Lahore, throughout the year and delivered the prescribed course of lectures.
- 48. The Agent, North-Western Railway, reports that no new towns

  Formation of new towns in the vicinity of NorthWestern Railway during the year 1915.

  North-Western Railway during the year ending the 31st December 1915.
- 49. The Multan, Sialkot and Rawalpindi municipalities have secured the services of qualified men, but the municipality of Ludhiana has not yet been able to repiace their Health Officer who died shortly after his appointment.

The usual class and examination for Sanitary Inspectors was held during the year, and there are now all told 66 men who have qualified in the Punjab. Some of them have already secured employment, and it is hoped that most of the others will secure appointments shortly.

District on 8th and 13th April, respectively, the prevalence of plague in and round Choa Saidan Shah, which was widely made known to the people under the orders of the Deputy Commissioner, Jhelum, resulted in the gathering at these fairs being very small, not more than 4,000 as compared with about 34,000 in previous years. In fact there was practically no fair at the former place and only a very small number of persons attended the latter. The usual sanitary arrangements were made and the Additional Deputy Sanitary Commissioner, Punjab, was directed to supervise, remaining there from 6th to 14th April 1915.

Owing to heavy rains the gathering at the Pehowa fair (Karnal District) was much less than was expected, and only about 40,000 people came in from the adjacent districts and Native States. The wells in and round the fair area were disinfected with permanganate of potash, and no other persons, except special Jhewars, were allowed to draw water from the wells. The custom here is for a large number of persons to draw the sacred water themselves, but only those whose vessels and ropes had been disinfected by boiling water for which arrangements were made and passes given, were allowed to do so. The fair lasted from 12th to 15th March and owing to the excellent arrangements made no infectious or contagious diseases were introduced. The medical and sanitary arrangements at this fair were supervised by the Additional Deputy Sanitary Commissioner.

As usual the supervision of the sanitary arrangements at the Baba Farid fair held at Pakpattan on the 14th and 15th November 1915, was left entirely to the Additional Deputy Sanitary Commissioner, Punjab, who arrived at the place on the 8th. Adequate sanitary arrangements were made, and there was no case of contagious or infectious disease. The number of persons who passed through the Bahishti Gate amounted to 47,214, but as many persons pass twice or even oftener it is doubtful if more than 30,000 persons can be considered to have been actually present at the fair.

The number of pilgrims who attended the Nankana Sahib fair held on 21st November 1915 was between 60,000 and 70,000. Most of the pilgrims arrived on the 19th and 20th, and a great majority had left by the evening of the 22nd. The sanitary arrangements were made according to the rules for the management of large fairs, and the supervision was entrusted to the Additional

Deputy Sanitary Commissioner, Punjab, who took this opportunity to make further suggestions for the improvement of the sanitary arrangements for future fairs. His report was sent to the district authorities for necessary action.

It might also be mentioned that a meeting was held on 22nd November 1915 to raise subscriptions for a hospital at Nankana Sahib, and promises of over Rs. 6,000 were made at the spot. I suggested that in the compound of the proposed hospital small shelters, consisting of a pucca platform and a roof supported on disused rails, should be erected for infectious cases to relieve the district board from the recurring expenses of temporary chappar hospitals which are erected every year.

51. As the Provincial Laboratory of the Punjab, the Pasteur Institute at Kasauli reported on the specimens noted below—

Serum diagnosis for typhoid fever		43
" " " paratyphoid A. }	***	26
" " " B. ) " " Malta fever		40
Wasserman test for syphilis		8
Examination of blood for malaria		27
" sputum, etc., for tuberele bacillus		81
" " tumours		120
" " water		1
Miscellaneous tests		5
Examination of brains for Negri bodies		469
Vaccines sent out		772 doses.
Autogenous Vaccines sent out	***	243 ,,
Tuberculin sent out up to 31st July 1915		1,407 ,,
Total		3,242

LAHORE: 12th May 1916.

H. HENDLEY, COLONEL, I.M.S.,

Offg. Sanitary Commissioner, Punjab.

### APPENDIX A.

### PROCEEDINGS OF THE SANITARY BOARD, PUNJAB.

The constitution of the Board was the same as in 1914, except that Colonel C. J. Bamber, I. M.S., held a lditional charge of the post of Secretary to the Board from the commencement of the year till the forenoon of the 12th July 1915, when he was relieved by me. I held additional charge till the end of the year.

The Board met three times during the year.

Out of the balance of Rs. 82,209 of the grant of 3 lakhs placed at the disposal of the Board for distribution to municipalities as grants-in-aid during the year 1914-15, the following grants were sanctioned between 1st January and 31st March 1915 and the amount remaining, Rs. 48,037 withdrawn by Government owing to financial stringency due to the war:—

				Rs.
Gojra drainage scheme		***		3,719
Sambrial drainage and pavement	4.4			100
Daska drainage and payment	***			250
Amritsar combined slaughter-hous	se (aldit	ional grant)		1,388
Rupar drainage				15,825
Tandlianwala drainage scheme	***	I am et a	***	12,490
		Total		34,172

Out of the balance of R+. 2,40,436 of the grant of 2 lakhs-and-a-half placed at the disposal of the Board for distribution to district boards as grants-in-aid for Sanitary works during 1914-15, the following grants were made between 1st January and 31st March 1915, and the remainder Rs. 2,04,156 withdrawn by Government owing to financial stringency:—

Sultan Wind paving and drainage Gullu Shah fair area water-supply scheme Nurpur (Rawalpindi District) fair area wate	r-supply	scheme	Rs. 10,000 5,000 21,280
	Total		36,280

The annual grant this year was enhanced from 7½ lakhs to 8 lakhs and the Sanitary Board would have been able to dispose of the entire grant, but for circumstances which rendered a reduction in this amount necessary and a subsequent withdrawal of Rs. 4,26,564.

The grant of 8 lakhs consisted of the following :-

		***			Rs.
Urban grant	***				3,00,000
Additional urban	grant				2,00,000
Rural grant					1,00,000
Additional grant	(reserved	with Govern	ment)	***	2,00,000
		A. Continue			
11 11			Total		8,00,000

Out of the urban grant of 5 lakhs, the following grants were made up to 31st October leaving a balance of Rs. 1,43,463 which was withdrawn by Government:—

				Rs.
Sialkot water-supply scheme				50,000
Hazro drainage scheme		4		1,231
Repairs to Kalka water-supply s	cheme			1,180
Lala Musa drainage scheme	***			7,489
Kalka drainage scheme	***			21,045
Moga drainage scheme				10,560
Improvement to Rawalpindi Int	ra-mural	drainage		42,360
Rewari water-supply	****			70,000
Dera Ghazi Khan water-supply		scheme		1,15,617
Experimental and printing purpo	oses		***	1,200
Gurdaspur intra-mural drainage			***	8,723
Sargodha filling pits				1,291
Tandlianwala water-supply exten	ision sche	me		23,000
Kalka drainage scheme			***	2,841
and all all phopes in to the		Total		3,56,537

The grant of 2 lakhs for the Montgomery water-supply scheme was sanctioned by the Board on the condition that the remainder is provided by Government but as Government could not in the present state of affairs afford Rs. 74,029 the remainder of the cost, the grant-in-aid was not allotted.

A sum of Rs. 50,000 was sanctioned for the Sargodha water-supply scheme but was not allotted as the scheme had not been administratively sanctioned by Government, this being the condition on which the grant-in-aid was sanctioned. Administrative sanction was refused as the balance of the cost (Rs. 70,000) could not be provided locally.

Out of the grant of one lakh for rural sanitation placed at the disposal of the Board during the year 1915-16, the following grants-in-aid were sanctioned up to 31st October 1915, leaving a balance of Rs. 84,601 which was withdrawn by Government:—

			Rs.
Kotli Loharan drainage scheme			3,500
Rural scheme of the Gujrat District			7,100
Pipe at Chitti dill bungalow			804
Nurpur (Rawalpindi District) fair area	water-supply	scheme	3,995
Total			15,399

The additional grant of two lakes reserved at first with the Government was finally placed at the disposal of the Board but was also withdrawn along with the other remaining grants.

The schemes noted below were approved by the Sanitary Board and submitted to the Local Government in the civil department for administrative sanction which was accorded in each case—

		Rs.
Gujranwala water-supply scheme	 	5,04,918
Amritsar city improvement scheme	 	1,63,650

Revised administrative sanction was also accorded to the Sialkot water-supply and Nurpur (Rawalpindi District) fair area water-supply scheme at a revised estimated cost of Rs. 5,09,403 and Rs. 25,275, respectively.

The scheme relating to the sanitation of Murree-Kohala Road was postponed by Government as no funds were available for the project.

In accordance with the powers delegated to the Sanitary Board by Government to accord administrative sanction to sanitary schemes, the cost of which does not exceed one lakh, the board approved of the following schemes and administrative sanction was accorded in each case:—

			Rs.
Eminabad drainage scheme			25,054
Rupar drainage scheme			31,650
Kalka drainage scheme	***	***	21,045
Kotli Loharan drainage scheme			10,500
Moga drainage scheme	***		21,121
Improvement to Rawalpindi drainage scheme			92,360
Gurdaspur intra-mural drainage scheme			17,446
Tandlianwala water-supply scheme			46,007

The Board accorded revised administrative sanction to the Lala Musa drainage scheme at a revised estimated cost of Rs. 20,889.

Government in the Public Works Department accorded technical sanction to the schemes noted below which had previously received the approval of the Board—

		Rs.
Dera Ghazi Khan water-suppy extension scheme		1,65,617
Dalhousie water-suppty extension scheme		15,903
Lahore northern storm water drainage scheme		33,210
Lala Musa drainage scheme		20,889
Improvement to Rawalpindi District drainage scheme		92,318
Shujahabad drainage scheme		15,302
Bbera drainage scheme		78,682
Nurpur (Rawalpindi District) fair area water-supply sch	ieme	25,275

Revised technical sanction was accorded to the Sialkot water-supply scheme and trial boring at Pasrur in connection with the water-supply scheme at a revised estimated cost of Rs. 5,09,403 and Rs. 7,731, respectively.

The work of the Board was to a very great extent suspended for the latter part of the year owing to the withdrawal of funds by Government.

#### APPENDIX B.

ANNUAL REPORT OF THE SANITARY ENGINEER TO GOVERNMENT, PUNJAB, FOR THE YEAR 1915.

The post of the Sanitary Engineer to Government, Punjab, was held by Mr. A. S. Montgomery, up to the 28th September and by Mr. V. Stainton from the 29th of that month to the close of the year.

2. Simla.—The important sanitary scheme of the Chair water supply extension (estimated cost Rs. 5,75,587, which was completed in 1914 and handed over for maintenance to the municipal committee, continued to be maintained by that body during the year under report on the same conditions as were previously laid down by the Local Government in connection with the operation and maintenance of pumps and mains. Orders do not seem to have yet been passed for the subsidiary works enumerated in the report for the year 1914, which were discussed and reported on by the Fenton Committee of 1913 and further considered by the Porter Committee of 1914.

The miscellaneous small sub-head estimate of the scheme which had necessarily been kept open, was closed and a comprehensive completion report amounting to Rs. 5,67,721 against the main estimate for the scheme submitted during the year.

The usual half-yearly inspections of the water supply and sanitary arrangements of the Viceregal Lodge Estates were made during the year.

3. Amritaar.—The work on the under-ground sewerage scheme of a part (Sant Singh and Dhab Khatikan area) of the city (estimated cost Rs. 2,36,008) which was entrusted for execution to Messrs. Lane Brown and Hewlett, Consulting Engineers of Lucknow, was completed during the year. This underground system commands an area of over 76 acres with a population of 15,530. The work has been carried out in a most satisfactory manner and if the system is properly looked after and regularly flushed it should prove a great boon to the inhabitants and at the same time afford an excellent example of a model up-to-date sanitary scheme for other municipalities. The Sanitary Engineer had advised the committee to have this system extended to the entire area of the city and to have the project for the remaining portion of the city drawn up and work carried out by the same expert firm.

The work of renewal of the conservancy tramway lines for the renewal of city refuse and the substitution of locomotive traction in place of horse traction (estimated cost Rs. 55,000) was completed by the Municipal Committees' own Engineer and the completed scheme brought into operation. It is now contemplated to still further extend the track and increase the number of engines and wagons which will greatly benefit the city.

The work of filling in the dhabs round the city (estimated cost Rs. I lakh) which was originally computed at 61 lakhs cubic feet of filling and since revised at 81 lakhs cubic feet is being completed. This 33 per cent. extra work necessitated the revision of the original estimate.

4. Lahore.—Messrs. Lane Brown and Hewlett, Consulting Engineers of Lucknow, who were, on the advice of the Sanitary Engineer, engaged for the preparation of a complete detailed project for an underground water borne sewerage system for Lahore city and civil station, which was administratively sanctioned for Rs. 15½ lakhs in 1913 have submitted the detailed project to the Municipal Committee. It is now under scrutiny by the Municipal Engineer, in consultation with the Sanitary Engineer.

The work of constructing the northern storm water outfall drain (estimated cost Rs. 33,210) is in progress.

In the Borstal Central Jail, 2 tube wells are being put down for the supply of water and a reservoir built for its storage. This work is combined with that of a watch tower. The original estimate which amount to Rs. 18,050 had to be revised to cover the cost of extra work subsequently found necessary and the revised estimate which awaits sanction amounts to Rs. 28,889. The total expenditure up to the close of the year was Rs. 12,326.

5. Sialkot.—The water supply scheme was completed, opened by His Honour the Lieutenant-Governor and handed over for maintenance to Municipal Committee during the year. Including Rs. 37,400 still payable for the pumping machinery, the total expenditure on the scheme comes to Rs. 4,66,839 against the revised sanctioned estimate of Rs. 5,09,403. The difference between these two sums, out of which a few extra items necessary for the efficient and successful working of the scheme have yet to be paid for, will represent a good saving.

The recuperative tests made on these tube wells to date shew that the actual amount of water pumped closely corresponds to the anticipated quantity so that the yield has so far been very satisfactory.

6. Ambala.—Work on an extension to the intra-mural drainage system, the estimate for which amounted to Rs. 8,921 is in hand and has been carried out to the extent of more than one half.

7. Mullan.—The tests of the experimental tube well which was sunk in advance of the construction of the water supply scheme; in order to be quite certain of the yield expected from the sub-soil and its suitability for such wells, were carried out with satisfactory results. There now seems to be no fear in relying on tube wells for the supply of drinking water for this city. The original project which was sanctioned for Rs. 3,52,173 in the year preceding that under report had to be revised in the light of experience gained from the actual construction of tube wells in the Sialkot water supply scheme. The amount of the amended estimate is Rs. 4,10,506 and it awaits sanction.

The city istra-mural and suburban drainage scheme amounting to Rs. 3,82,565 has been sanctioned. The Municipal Committee propose on the advice of the Sanitary Engineer, after obtaining requisite sanction, to spend at once on this work the sum of Rs. 3 lakhs which they have available and to put in hand at once those urgent portions of the drainage scheme which are not dependent on the new water supply scheme. Subsequently, as funds become available, those portions of both the drainage and water supply schemes will be put in hand in order of urgency with due regard to their inter-dependency. It might here be noted that of the sum of Rs. 3 lakhs which the committee have now at their disposal 2½ lakhs represent grants-in-aid namely 1 lakh for this scheme and 1½ lakh for the water supply scheme.

8. Jullundur.—The Municipal Committee are anxious to have a complete water supply scheme provided for this city and bastis and also to have their drainage system brought up to date. In connection with the former, an experimental boring tube, for which an estimate amounting to Rs. 2,220 had been sanctioned, was sunk, but the results though fairly satisfactory were not good enough to justify our reliance on the results without further experiments with strainers. It is now proposed to put down a 5 inches strainer in the above mentioned well or a new one, with a view to correctly guaging the yield of the sub-soil. If the results of these experiments are satisfactory, a project for the scheme will be worked out for this source of supply and submitted for administrative sanction.

With regard to the drainage scheme, the detailed project is under preparation in this office.

- 9. Perozepore.—The intramural drainage scheme (estimated cost Rs. 24,016) work on which was commenced in 1914 made good progress under the supervision of the local body and is expected to be completed shortly.
- 10. Lyallpur.—The new pumping plant and the two new filter beds forming a part of the main extension to the water supply scheme estimated to cost Rs. 1,55,530 and which is yet under sanction, were completed during the year.
- 11. Jhang.—The work of regarding the Gaur Nallah with a view to preventing stagnation of water round the city is practically complete. The total expense up to the close of the year is Rs. 12,302 against the sanctioned estimate of Rs. 14,884.
- 12. Dera Ghasi Khan.—Work on the extension of water supply scheme (estimated cost Rs. 1,65,617) was put in hand and good progress has been made. The tube well sumps for head works were sunk and plugged and the brick work of storage tanks finished up to floor level (i.e. 16 feet above ground) and almost all the pipes purchased Rs. 59,759 being the total expenditure up to the close of the year.

The rough project for Rs. 4,13,982 for the drainage of the town which was prepared in the year preceding that under report also the project for the storm water drainage prepared last year amounting to Rs. 26,648 still await administrative sanction. The latter will need amendment as it can be reduced in cost, now that the Irrigation Department have agreed to allow us to discharge storm water direct into the canal instead of syphoning under the canal and discharging it beyond the canal.

- Shujabad in the Multan District.—An estimate for a drainage scheme was sanctioned for Rs. 15,302. Manufacture of special bricks is in hand and work will now be started.
- 14. Miaswali.—The experimental borings which were reported to be in hand in the last report in connection with the proposed water supply scheme were completed during the year and a detailed project worked out, but it had to be returned to the Executive Engineer for modification.

The modified project is now under consideration in this office.

15. Passur in Sialkot District.—To determine the suitability of subsoil for putting down tube wells for water-supply, an experimental tube well, which will subsequently form part of the Head Works and the estimated cost of which with that of the boring plant is Rs. 12,931 is in hand. The sump well 6 feet in diameter has been sunk to a depth of 58½ feet and the strainer tubes and piping have been purchased. Another trial boring close to this well has since been found necessary before further proceedings with the tube well as great difficulty has been experienced with thick bands of hard clay.

- 16. Wasirabad in Gujranwala District.—Work on the Drainage Scheme (estimated cost Rs. 64,251 was commenced and good progress has been made. The total expenditure upto the end of the year is Rs. 31,500.
- 17. Jandiala in Amritsar District.—The work of filling up certain depressions and constructing an extra mural drain with a collecting tank for the east side of the town, the estimated cost of which is Rs. 21,883 has progressed satisfactorily. The filling work has been completed and the rest is well in hand. A project for draining the west side of the town has been prepared.
- 18. Majitha in the Amritsar Dis'riet.—The work on the drainage scheme for which an estimate amounting to Rs. 12,064 was sanctioned during the year 1914 was well in hand. It could not be pushed on to completion owing to work having to be stopped pending approval to the re-design of the outfall and other modifications suggested by the Deputy Commissioner. The total expenditure upto the close of the year was Rs. 3,154 and the work is about to be started again on revised lines.
- 19. Tandlianwals in Lyallpur District.—The drainage scheme for which a revised estimate amounting to Rs. 75,189 was sanctioned during the year 1914 is now complete except a little work required to be done on the sullage tanks.
- 20. Isa Khel in Mianwali District.—The water-supply scheme for this town, which was initiated as far back as 1905 was sanctioned at an estimated cost of Rs 45,300 and work started in 1913. After a personal inspection of the locality, Mr. Montgomery, the then Sanitary Engineer, found that further borings were necessary at different sites with a view to securing a better quality of water so work was stopped pending result of these fresh borings. After numerous borings in various localities and failing to obtain sweet water it was decided to locate the tube wells where the best available results were obtained with the least brackish water. The project revised on these lines and amounting to Rs. 71,270 has not yet been sanctioned as the local body has not yet been able to arrange for extra funds. The Civil authorities now contemplate abandoning the scheme in consequence of the proposal for transfering the Tahsil Head Quarters from Isa Khel.
- 21. Bhera in Shah ur istrict.—An estimate amounting to Rs. 78,682 for the extra mural drainage scheme was sanctioned during the year. Actual construction was, however, kept in abevance pending detailed surveys to determine whether the capacity of the depression in which the outfall was to discharge was adequate and also to safe guard the local body from any subsequent suits for compensation to crops and buildings from any flood discharges. After careful investigation the project has now been returned for execution and it is hoped that work will now be pushed on vigorously.
- 22. The out-door survey staff attached to this office has been fully engaged during the year and has again done most useful work in carrying out surveys and working out drainage schemes for the various local bodies in the Punjab. For some months during the year they were engaged on the preparation of detailed surveys of the town and Bastis at Jullundur required for the drainage scheme project which is in hand and is expected to amount to Rs. 43 lakhs.

The other drainage schemes, which were surveyed and levelled by the Survey Staff and which were subsequently worked out in detail in this office are:—

ere s	absequently worked out in detail	111 0	and office are.		Rough cost.
					Rs.
1.	Gujranwala (extra mural as well	as t	he suburban ir	tra-mural)	2,69,510
2.	Ex'ra-mural drainage scheme District	for	Jandiala in	Amritsar	16,395
3.	Drainage scheme for Hoshiarpu	rane	d its suburbs		1,23,267
4.	Jagadhri drainage scheme				88,439
5.	Shujabad intra-mural drainage				32,723
6.	Palwal drainage scheme				69,319
7.	Gurdaspur intra-mural drainage	sche	eme		18,324
8.	Filling up depression at Palwal				23,165
9.	Eminabad drainage				31,751
10.	Kalka drainage				36,531
11.	Sialkot drainage				3,46,410
	T	otal			10,55,834

The total cost of the out-door establishment including the services of the draftsman who prepared the plans for these various schemes has come to Rs. 4,002 for the year which works out at about annas four per cent. on the cost of schemes prepared including that for Jullundur.

- 23. Various sanitary schemes completed or in progress in the province were inspected either by the Sanitary Engineer or his Personal Assistant and inspection notes were written and advice given to those concerned. It is noted with regret that in many instances completed sanitary schemes were on inspection found in a very neglected and deplorable condition owing to want of proper maintenance showing great lack of interest on the part of those concerned. This matter is, however, being taken up separately—
  - I.—In some cases, the pumping machinery attached to water works installations were found in a very bad state of repair. On the representation of the Sanitary Engineer and the recommendation of the Sanitary Board, the Local Government has since issued orders that all the local bodies responsible for the up-keep of these plants should have them inspected regularly each year by an expert firm of constructional engineers.
  - II.—It is hoped that this procedure will materially improve the up-keep of water works plant in the province besides effecting a considerable ultimate saving to the local bodies concerned.
  - III.—Excessive waste of water is apparent on various water works installations owing to leaky house connections, distribution mains, and hydrants, also very frequently by abuse of water for garden purposes. This waste can materially be prevented by the proper use of the district metering system and efficient night inspections by the Superintendent and his inspection staff. In several cases it has been found that local bodies have not brought into use the waste water metres on their systems which were handed over to them with the water works after construction and the result has been that great and unnecessary waste has taken place in the system and consequently more coal used for pumping and greater expenditure. Local bodies will find that it will pay them to provide an efficient night inspection staff and they should not begrudge this small expenditure.
  - IV.—As an instance in point, I would note the case of Mr. Jarman, the Municipal Engineer at Amritsar who has, during the last hot weather, done good work towards checking and preventing excessive waste, by overhauling and repairing his district metering system and by personal night inspections, saving thereby no less than 3 million gallons in less than 6 months.
  - V.—A study of this system by the officials concerned of other local bodies and a proper provision of a similar system for all water works installations, which have not yet been provided with this system, is strongly recommended.
- 24. The detailed estimates, which were prepared and recast in the office of the Sanitary Engineer are 10 in number, the cost of which aggregate Rs. 12,37,052. The number of the rough and detailed rough estimates prepared for administrative sanction is 15 and their total cost reached a sum of Rs. 18,41,519.
- 25. Both the rough and fair estimates which were scrutinized and finally approved by the Sanitary Engineer are 31 in number, the total of which amounts to Rs. 10,58,260.
- 26. Nine estimates aggregating Rs. 4,54,682 were technically sanctioned by the Local Government in the Public Works Department in addition to the 3 revised estimates for Rs. 5,28,459.
- 27. The accompanying statement shows the water pumped at the various [water works in the province together with the cost of pumping.
- 28. Notwithstanding the curtailment of grants-in-aid in the case of local bodies owing to the present financial stringency yet the preparation and scrutiny of complex sanitary schemes out-door inspections also clerical work of this office have been as arduous and onerous as in the previous year.
- 29. In conclusion I would place on record my great appreciation of the excellent work and zealous energy of my Personal Assistant Rai Sahib Lala Amar Nath Nanda, who has been of the greatest help to me both in his office and out-door work also of my office staff who have loyally co-operated in disposing of the vastly increased clerical work of this office and maintained its efficiency.

V. STAINTON,

Sanitary Engineer to Government, Punjab.

Dated 11th April 1916.

STATEMENT OF WATER PUMPED AND USED IN THE WATER WORKS STATIONS,—SIMLA, LAHORE, AMBALA, AMRITSAR, SARGODHA, LYALLPUR, LUBHENTA AND DERA GHAZI KHAN, AND COST OF PUMPING IN 1915.

-		. REMASES.				0 24			Most excessive. President, Municipal Committee's	be drawn to this.		
-	Average of	lerel below ground level of all the wells in the year 1914.			-	Winter 680-7 Summer 687-2	25'-263'	10'-9" (1914) 8'-8" (1915)	4698-615-7 No, I-No. II.	Nu.	North 30' South 33'-4"	2002
-	Original level	average of water surface in all the wells.				No record	25'-26'	7' below G. L. 5' after tube wells put in.	617.96-617.96 S. T. No. 1- S. T. No. 2.	Жа	North 28' South 31'	879.6
1		Cost of pump- ing per houe. power hour.	Annas.	1.15	1.84	9-9 0 0	0 0 6.5	0 1 4	10	9	O 1 S Approx,	0 2 17
		fusl, small stores and establishment.	Rs. A. P.	0 0, 609'68	11,075 0 0	0 0 976,22	10,264 0 0	19,919 6 11	5,269 3 8 including canal water charges.	Rs. A. P. 5,315 10 3	14,735 9 4	4,380 0 0
	Cost of small	stores and establishment at pumping station.	Rs. A. P.	10,921 0 0	0 0 678'9	12,194 0 0	6,655 0 0	7,754 12 2	2,680 6 9 C. W. charges = 505 10 5	Rs. A. P.	Snall stores Rs. 1,859 12 5 Establishment 7,439 13 5	Small stores Rs. 235 Establishment Rs. 1,799 Total Rs. 2,034
-	Coal or oil	tion per borse power hour.				2.4 lbs.	2. lbs. Approx.	6.5 lbs.	(D)	6.8 lbs	5.3 lbs.	104 lbs. oil.
	ND COST OF ER ASNUM.	Conl cost.	Rs.	18,688	5,208	730 tons Rs. 10,767	271-11 tons Cost Rs.	18 253 mds. Cost Rs. 12,164 10 9	3,837 mds. Rs. 2,048 10 6	2,800 mds. Cost Rs. 1,286 6 6	Tons Cwt. 337 14 Cost 5,403 3 2	ol ⊜ 0 11 0 .Bs. 2,846.
	QUANTITY AND COST OF FURL USED PRE ANNUM.	Wood or electric cur- rent units,		5,98,016	1,66,656	24 mds, Rs, 15	Na.	Nil.	45 mds. Rs. 34 S 0	1	mds. srs. 4 30 Cost Rs. 2 12 4	8,412 gallots off @ 0 11 0 per gallon—Rs. 2,846.
0	exod q	Average pum		132.5	12.1	101	200	21	3000	88.20	B. H. P. 26	B. H. P.
	nouZno. laidwnd	Daily hours of I average thr year,	. 11	6	2	18	55	30 hours (3 pumps).	12.6	Hours 15-8	151	29.8
-	initairi	Lift including Jost ai		1,300	2,800	123	12	88 feet	8	75 feet	2.26	246
1		Daily consumptions		y .	1208	14:28	10-12	9	6.39	12-49	11.5	4.32
1	Tave T	Water used dail age, gallons.		000 000	000,200	1,968,394,2	247,941	1,413,031	5.SO2.69	244,719	510,380	73,486
1	oN beil	qque noitelaqoq			S solveno	208,126	24,491	140,697	11,000	19,578	34,170	17,000
		Name of water works.		Cherot Nala	Chair	.1		1			.1	Ders Ghazi Khan
-		Name of		1-10	Simile	Lahore	Ambala	Amritear	Sargodha	Lyallpur	Ludhiana	Dem Gh
1		[0N]			1	04	00	48	10	49		00

V. STAINTON, Sanifary Engineer to Government, Punjab.

## APPENDIX C.

Statement showing the death rates from cholera, small-pox, fevers and dysentery and diarrhoa for the five years preceding and for the period since the introduction of drainage or water-supply or both in the undermentioned towns:—

- 1		-	DAT COMPI OF WO	RIION	DUC	AGE AND SINCE HON OF B	THE IN	TRO-	FOR T	DING T	E YEARS HE INTHO GE OR WA	PERIOD DUCTION TER-	
1	lowns.		946	Water-supply.		pox.		Dysenetry and diarrhoa,	4	pox,		Dysentery and diarrhora.	IXS,
		193	Drainage.	Water	Cholera.	Small-pox.	Ferers,	Dysent	Cholera.	Small-pox,	Fevers,	Dysent	REMARKS
The same	I		2	3	4	5	6	7	8	9	10	11	12
STREET, STREET		44											10.5
Ambala				1895	0.4	0.4	12.0	3:6	0.2	0.4	19-3	64	
Simla			1893	1893	0.02		13.1	0.8		1.1	17-1	14	1
Ludhiana			1895	1909	0.5	0.8	15.5	1.6	0.4	2.7	20'8	1.6	
Jagraon	***		1907		0.2	1.6	11.6	1.2	0.6	1.5	9.3	2.0	HAVE
Ferezepore	***		1908		0.4	0.7	11.3	1.3	0.3	I-1	25.4	1:1	
Zira	***		1913		0.9	2.8	14.5	0.6	6.3	4:0	16-6	0.9	1 33
Fazilks	***		1913		1:4	1:8	18.6	1.8	2:2	2.6	21'4	1.7	1 6
Labore				Issi	0.8	0.7	16.6	1.6	1.9	1.6	27'8	2-3	1-3
Amritear				1904	0.8	1'4	22-7	2.0	0.4	0.7	3173	18	
Gurdaspur	***		1914		0.4		12.7	3.3	0.8	0.2	13-2	2-6	1 3
Dalhousie				1894	0.1	01	119	2.0		100	96	2.4	
Pathankot	***		1915			0.1	10.3	4.3	0.8	07	12-4	2.8	
Sialkot				1915	0.1		9.2	26	3-0	1.2	9.6	23	
Gujranwala			1892		0.5	0.6	16-5	1.2	0.5	C-6	19-7	1.7	
Gujrat			1906	***	1:1	0:4	17-4	1.9	0.3	0.2	169	1.9	
Sargodha			1907	1907	•	*0.3	*47	*0'2		Not :	available.		
Jhelum			1908		0.1	0.5	99	1.7	1.5	0.3	14-0	2-1	
Pind Dadan I	Chan		1909	1909	01	1.1	19.1	3.4	11	0-7	23.1	3.6	
Rawalpindi			1907	1887	0.6	0.3	19.2	2.3	0.2	0.1	16.4	3.4	
Murree	***			1894	0.1	0-1	17.1	2.3	0.7	0.4	14:8	0.9	13 10
Mianwali	***	***		1904	0.3	0-7	20.0	2.4	-	Not a	vallable.		71 1
Lyallpur	4		1904	1904	0.1	0.7	11.3	0.8	128	10.4	†16.3	+2-1	- Isa
Multan			1907		0.2	0-9	18.1	2.4	0.01	1.9	16.9	2.4	
Dera Ghazi K	han			1913		0.9	16-6	1.5	2.0	0.6	15-9	16	
Kalka	***	***		1890	0-4	0.1	13-6	2.2	1.7	0.3	15.2	3-9	1
		1.11	-	-	+ 117	1	-	4		-	7		1
		-			1 19	1 1 1 2		100			- 3		- Proper

<sup>\*</sup>Figures for 1914 and 1915.

<sup>†</sup>Figures available for four years only.

## ANNUAL FORM No. I.

# STATEMENT SHOWING THE BIRTHS REGISTERED IN THE DISTRICTS OF THE PUNJAB DURING THE YEAR 1915.

۱	2		3			-			5		6	7	8		9		-
	A STATE OF		TION ACCOR			BER OF BI GISTERED		PRI	OP BIT	OF	to every 100	over deaths per 1,000	births per 1,000	BIRTH	BATIO S PEB 1, G PREVI	000	-
	Districts.	Males.	Females.	Total.	Males.	Pemales,	Total.	Males,	Femalos.	Total,	Number of males born females, born.	Excess of births over d of population.	Excess of deaths over b	Males.	Females.	Total,	-
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	_	1
1	AMBALA DIVI- SION.										100		127				-
	Hissar	439,458	366,431	804,889	20,471	19,075	39,546	25'4	23.7	49.1	107.3	20-9		25.2	23-4	48.6	
	Robtak	385,401	329,433	714,834	19,151	17,486	86,637	26-8	24.5	51'3	109-5	26.2		25.6	23 3	45.9	
	Gurgson	389,215	339,952	729,167	18,764	17,809	26,573	25.7	24-4	50.2	105.4	26.0		24.2	225	46.7	
9	Karnal	437,698	362,089	799,787	19,953	18,320	88,273	24.9	22-9	47.9	108-9	15.6		25.2	23.1	48-3	
	Ambala	357,470	275,083	632,553	13,941	13,309	27,250	22.0	21-0	43.1	104.7	8.7		22-9	21.1	441	
	JULLUNDUR DIVISION.	22,015	12,955	34,970	406	838	744	11 6	9*7	51.3	120'1	1.8	***	106	9-7	20-3	
	Kangra	398,401	368,285	766,686	15,344	14,319	29,663	20.0	18-7	88-7	107.2	7.4		19.4	18-2	37-6	
	Hosbiarpur	501,510	417,059	918,569	19,725	18,206	37,931	21.5	19-8	41.3	108-3	2.0		21.9	20.2	42.1	
	Jullandar	440,599	347,357	787,956	17,477	16,660	34,137	22-3	21.1	433	104.9		3.7	23-3	22.1	45.4	-
	Ludbiana	293,531	223 661	517,192	12,481	11,934	24,415	24.1	28.1	47.2	104.6	5'8		25.0	23.3	482	
	Ferozepore LAHORE DIVI- SION.	520,868	412,631	933,499	23,092	21,068	44,160	247	22-6	47-3	109-6	12.8	***	26.0	23.6	49.6	
	Lahore	581,498	436,244	1,017,742	25,176	22,645	47,821	24.7	22.3	47.0	111-2	8.3		24.9	22-6	47.5	į
	Amritsar	495,533	383,778	879,311	21,937	20,355	42,292	24.9	23.1	48-1	107.8		4.2	26.1	24.2	50.3	į
	Gurdaspur	466,115	366,446	832,561	20,210	18,822	39,032	243	22.6	46-9	107.4	0.8		24.7	22-9	47.5	-
	Sialkot	530,755	432,824	963,279	23,215	21,205	44,420	24.1	22.0	46-1	109.5	0.1		25-3	23.4	48.7	
	Gujranwala BAWALPINDI DIVISION.	518,251	405,168	923,419	21,064	18,786	89,850	22.8	20.3	43.2	112.1	0.2		24.0	21.4	45-4	
	Gujrat	400,596	345,038	745,634	15,808	14,194	30,000	21-2	19.0	40.2	111'4		15-6	23.8	21.8	45.6	į
	Shahpur	376,886	310,480	687,366	14,854	13,232	28,086	21.6	19-3	40.9	112-3	7-4		21.8	19-4	41.3	1
	Jhelum	262 228	241,967	504,195	9,401	8,566	17,967	18.6	17:0	35-6	109-7		13:2	20'5	18.3	38-9	
	dawalpindi	267,724	239,918	507,642	10,819	9,528	19,847	20-3	18'8	39-1	108.3		18:3	20-9	191	40-0	
	Attock	270,392	244,894	515,286	10,259	8,796	19,056	19-9	17-1	37.0	116.6		39	21.4	19-2	40-7	
	MULTAN DIVI- SION.	179,897	161,480	341,377	7,862	6,954	14,816	23.0	20.4	43'4	113-1	17.6		22.7	20-1	42.8	3
	Montgomery	276,119	227,996	504,115	10,910	9,824	20,734	21.6	19.5	41.1	111'1	16.9		23.1	20.4	43.6	3
	Lyallpur	503,644	385,251	888,895	21,628	19,784	41,412	24.3	22.3	46-6	109-3	21.4	***	25.4	23.5	48-9	)
	Jhang	277,128	238,398	515,526	12,553	10,828	23,381	24'3	21.0	45-4	115-9	19.9		23-6	21.4	449	,
	Multan	435,410	365,965	801,375	15,822	19,886	29,708	197	17:3	37.1	113-9	13.3		22-5	199	42.4	
	Muzaffargarh	308,350	261,111	569,461	10,654	9,078	19,727	18.7	15-9	34'6	117.4	11'2		20-9	18.0	88-9	)
	Dera Ghasi Khan	272,409	227,451	499,860	8,480	7,055	15,535	17.0	14:1	31.1	120 2	12:1		16-6	13-9	80-5	-
	Total	10,608,101	8,729,048	19,337,146	440,955	402,057	843,012	22.8	20-8	43.6	1097	7.3		23.5	21'4	44-9	

<sup>\*</sup>Excluding population of military cantonments.

### STATEMENT OF BIRTHS AND DEATHS REGISTERED IN EACH

-	1	2		8	4		5	1	6			7	-
-					per equare	POPULAT	ion (Cansu	s 1911.)	Bint	us.		EGISTERE	
	No.	Districts		Area in square miles,	Average population per mile.	Males.	Females.	Total.	Total number.	Birth rate per 1,000 of popa- lation.	Males,	Fomales.	Total.
-	1	2	-	3	4	5	6	7	8	9	10	11	12
	1 2 3 4 5	AMBALA DIVING Hissar Robtak Gurgaon Sarnal Ambala Simla JULLUNDUR SION.		5,213 2,248 2,264 3,153 1,851	154 318 322 254 342 348	438,458 885,401 389,215 437,698 357,470 22,015	360 431 329,433 339,952 862,089 275,083 12,955	804,889 714,934 729,107 799,787 632,553 24,970	39,548 36,637 36,573 38,273 27,250 744	49°1 51°3 50°2 47°9 43°1 21°3	11,905 9,233 9,217 13,451 11,020	10,757 8,501 8,427 12,346 10,723 308	22,662 17,734 17,644 26,797 21,743 690
	7 8 9 10	Kangra Hoshiarpur Jullundur Ludhians Ferosepore LAHORE DIVI		9,978 2,247 1,431 1,452 4,286	77 409 561 316 218	\$98,401 \$01,510 440,509 293,531 \$20,868	308,285 417,059 347,857 223,661 412,631	768,686 918,569 787,956 517 192 933,499	29,663 37,931 34,137 21,415 44,160	38·7 41·3 43·3 47·2 47·3	11,930 18,215 18,462 10,897 16,857	12,628 17,871 18,548 10,505 15,324	23,958 36,086 37,010 21,402 32,181
	12 13 14 15 16	Lahore Amritan Gurdaspur Sialkot Gujranwala RAWALPIN	 	2,824 1,601 1,889 1,991 4,082	\$60 549 441 484 225	591,499 495,533 466,115 520,755 518,251	436,244 383,778 366,446 432,524 405,168	1,017,742 879,311 832,561 963,279 023,419	47,821 42,292 39,032 44,420 39,850	47-0 48-1 46-9 46-1 43-2	20,979 23,478 10,812 22,060 21,299	18,426 22,505 18,533 22,222 18,433	39,405 45,983 38,345 44,282 39,782
101	17 18 19 20 21 23	DIVISION Gujrat Shabpur Jhelum Rawalpindi Attock Mianwali	28	2,051 5,097 2,813 2,010 4,025 5,395	364 185 179 253 128 63	400,596 276,885 262,228 267,724 270,392 179,897	345,038 310,430 241,967 239,918 244,894 161,480	745,634 687,366 504,195 507,642 515,286 341,377	30,000 28,085 17,967 19,847 19,055 14,816	40°2 40°9 35°6 39°1 37°0 43°4	20,547 11,758 11,874 14,064 10,431 4,758	21 092 11,270 12,747 15,085 10,621 4,048	41,639 23,028 24,621 29,149 21,062 8,806
011 011 011	23 24 25 26 27 28	MULTAN DIV Montgomery Lyallpur Jhang Multan Muzaffargarh Dera Ghazi Kha		4,465 3,340 3,363 6,107 6,052 5,325	113 266 153 131 94 94	276,119 503,644 277,128 435,410 308,350 272,409	227,996 385,251 238,398 365,965 261 111 227,451	504,115 888,895 515,526 801,375 569,461 499,960	20,784 41,412 23,381 29,708 19,727 15,535	41·1 46·6 45·4 37·1 34·6 31·1	6,291 11,310 6,962 10,192 7,268 5,169	5,897 11,087 6,190 8,846 6,075 4,304	12,188 22,397 13,152 19,038 13,343 9,473
		Total		96,654	200	106 608,101	8,729,015	19,837.146	843,012	43-6	359,821	342,729	702 550

No. II.

DISTRICT OF THE PUNJAB DURING THE YEAR 1915.

-						OIVI I	And C		0		-			-	
8						9							10		11
Number of deaths of males to every 100 deaths of females.			D	SATHS PE	a 1,000 or	POPULAT	ION PRON					DURI	N BATI	1,000 vious	
deaths o deaths			1	- Parish	and and	y dis-		causes.	4	ll cause	4.	- Constant			ATTENDED
fumber of every 10	Cholera,	Small-pox.	Plague.	Fevers.	Dysentery Diarrhoa.	Respiratory cases.	Injuries.	All other o	Malcs.	Females.	Total,	Males.	Ferralcs.	Total.	No.
13	14	*15	16	17	18	19	20	21	82	23	24	25	26	27	28
En.c	511.2	780.5			122.1		-	12.1	18		10.5	010,1			
400,00	221.2	975.5	TOTAL .	Jane 1		1,121	1,000	140,5	100	(E. )	tot	ete	200		
110-7	1.0	0.1	3.0	14'9	0.5	1.3	0.4	6.4	27:2	29.4	28-2	30.8	33-7	32.1	1
108-8	0.8	0.03	1'4	12.0	0.3	1.5	0.2	8.3	24:0	25-8	24.8	37-8	40-8	39-2	2
100:4	0.2	0.03	1.2	9.5	0.6	1.8	0.5	10.0	23.7	24.8	242	43.3	48.5	45.7	3
109.0	0.8	0.1	5.1	15.1	0.4	1.5	0.4	9.0	30:7	341	32.3	40.4	45:3	42-6	5.
102'8	0.3	0.1	8.7	13.1	0.9	6.3	0.3	7-2	30-8	23-8	34.4	19:8	25.3	37.0	6
1240	0:1			7.7	1.3	8.4	0.3	12	11.4	203	101	100	200		
8031	122,2	WALL .		1,540	BALL	THE	9-03	MES	1 3 22	4	15.0	1750	312	1	407021
99-2	1'0	0.001	0.03	17.4	1.6	8.5	0.3	7:3	299	32-7	31.3	28.3	30.1	29-2	7
101-0	0.1	0.03	14-9	16.9	0.03	2:3	0.3	4.8	36:3	42'9	30-3	31:9	33.7	84.1	8
99.2	0.03	0.1	22.5	13.2	0.2	4.5	0.3	6.9	41.9	53'4	47.0	23.6	35-7	31.8	10
103.7	1.0	0.3	15.5	11.5	0.7	2.8	0.3	9-6	37:1	47'0 37'1	34.5	27:8	33-4	30-3	11
1100	3.1	0.4	00	13.7	0.5	10	01	00	02.4	01.4	020	ID S	PER		
113-9	2.6	0.3	9-1	16.0	07	20	0.4	7.6	36.1	42.2	38.7	28.2	33.3	80'4	12
104'3	0.9	0.3	20-0	18-2	1.2	4.8	0.3	6-9	47-4	58-6	52-3	35.1	42.4	88.3	13
106-9	0.1	0.1	20'8	127	1.0	10,2	0.3	0.0	42-5	50'6	46.1	32-8	35.3	85-2	14
99-3	0.1	0.01	22-3	13.0	1.3	4.2	0.3	4.5	41.6	51:4	46-0	80.7	35-6	32.9	15
115.2	0.6	0.003	18-5	16-9	0.3	1.2	0.2	8.0	41.1	45.5	43.0	30-0	34.1	31-8	16
am n		SOLI	100.1	1,500	STEE.	uni	Sact 1	100.0		2 0	133	TE COLD	935		-
97.4	1.7	0.01	36-0	10.8	0.2	2.8	0.2	3.9	51.3	81.1	55.8	25.4	27-9	26.5	17
1043	0.3	0.1	13.2	11.0	0.4	1.3	0.4	6-6	31.3	36.3	33.5	23-9	25.8	24'8	18
93.2	0.1	0.001	27.4	13.3	0.4	2.3	0-4	51	45'3	52.7	48'8	26-4	27.1	26.7	19
93.2	0.4	0.004	28.6	18.0	89	2.5	0.2	8.7	52.5	62.9	67.4	29-3	90.6	29.9	20
98.1	0.01	0.003	17.2	18-1	0-1	1.8	0:4	3.8	38-6	43.4	40.9	26-3	27.5	26.8	21
1.75	0.003	0.03	0.003	201	0.8	0.6	0.3	4.1	26.2	25.1	25.8	25.6	25-9	25.7	23
Pict.		779	202	217	200	111	14-1-1	413	1 19	1 10	4.1	514	634	00.5	60
106.7	1.3	0.1	1.3	15.8	0.1	0.2	0.5	4.8	22.8	25-9	24.2	21.3	23-3	22.1	23
102.0	0.4	0.1	4.4	13-5	0~2	0-5	0:4	5.7	22.5	28.8	25-2	21.3	26.4	25.5	25
112.5	0.01	0.01	8.4	13.0	0.6	1.3	0.2	7.0	25.1	26.0	25.5	24.9	25.2	24'3	26
- 115.2	0.001	0.1	0.2	17-3	0.4	0.003	0.5	5.2	23.4	23-3	23.4	25.2	27.4	25.7	27
119-6	0.01	0.03	0.2	20.3	0.1	0.7	0.3	1.4	19.0	18.9	19.0	21.6	21.9	21.7	28
190-1	0.03	0.01		102	0.4							SOT, CO	430.		Carrier .
	-										-			-	100
105.0	0.7	0.1	11.5	14.7	0.7	2'4	0.4	5.9	33-9	39:3	36.3	29.5	33.4	31.3	

## ANNUAL FORM No. III.

# DEATHS REGISTERED IN THE DISTRICTS OF THE PUNJAB DURING EACH MONTH OF THE YEAR 1915.

1	3							3						4	100
Number.	Districts.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October,	November.	December.	Total deaths re- gistered during the year.	Number
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	1
	AMBALA DIVISION,							4							
1	Hissar	1,878	1,610	2,063	2,783	2,556	2,102	1,886	1,537	1,300	1,327	1,447	2,174	22,662	ı
2	Rohtak	1,326	973	1,085	1,708	2,442	1,890	1,334	1,185	1,022	1,126	1,509	2,134	17,734	ı
3	Gurgaon	1,451	1,163	1,486	1,648	1,765	1,406	1,201	1,162	1,185	1,204	1,640	2,383	17,644	ı
4	Karnal	2,192	2,012	2,715	2,951	2,688	2,209	2,190	1,668	1,555	1,418	1,970	2,229	25,797	ı
5	Ambala	2,084	2,890	2,835	2,956	1,959	1,355	1,328	1,086	1,154	1,255	1,578	1,763	21,743	ı
6	Simla	55	52	40	58	69	64	65	48	62	67	61	49	690	ı
	JULLUNDUR DIVISION.				2		EV					1.5%		-110	ı
7	Kangra	1,622	1,487	1,643	1,656	2,971	2,498	1,883	1,700	2,187	2,824	1,948	2,089	23,958	ı
8	Hoshiarpur	4,227	4,704	5,345	5,576	3,356	1,929	1,677	1,668	1,705	1,844	1,808	2,252	26,086	
9	Jullundur	8,052	4,724	6,686	7,912	4,018	1,579	1,406	1,350	1,293	1,349	1,607	2,034	37,010	1
10	Ludhiana	1,734	2,136	3,055	4,132	2,427	1,286	1,270	1,135	844	1,012	1,094	1,277	21,402	-
11	LAHORE DIVISION.	2,192	2,266	3,104	3,674	4,208	3,489	2,509	2,184	1,795	1,922	2,105	2,648	32,181	-
12	Labore	2,346	2,461	3,606	6,226	6,728	3,631	2,499	2,362	2,142	2,102	2,356	2,946	39,405	1
13	Amritsar	3,533	4,584	7,365	8,622	6,310	2,944	1,284	2,103	1,886	1,906	2,151	2,295	45,683	1
14	Gurdaspur	3,699	4,863	5,928	6,901	4,239	2,158	1,739	1,582	1,662	1725	1,875	1,971	38,345	ł
15	Sialkot	2,653	8,277	6,192	10,713	7,992	2,450	1,864	1,678	1,655	1,757	1,812	2,219	44,282	ı
16	Gujranwala	3,892	4,117	6,413	7,048	4,869	2,399	1,997	1,709	1,483	1,474	1,781	2,550	89,732	ı
	RAWALPINDI DIVISION.							Sin 1							١
17	Gujrat	1,850	2,547	5,889	11,420	9,831	1,154	1,912	1,578	1,280	1,002	1,266	1,610	41,639	
18	Shahpur	1,544	1,583	3,028	5,566	2,840	1,349	1,252	1,198	828	924	1,113	1,733	23,028	۱
19	Jhelum	1,840	2,403	3,868	6,185	3,533	1,106	880	786	781	855	1,055	1,329	24,621	۱
20	Rawalpindi	2,511	3,033	4,247	5,654	4,523	1,569	1,037	1 120	1,033	1,109	1,446	1,867	29,149	1
21	Attock	1,376	1,126	1,807	4,345	4,432	1,468	904	811	807	900	1,185	1,901	21,062	1
22	Mianwali	833	713	749	611	688	643	632	653	610	669	790	1,215	8,806	١
	MULTAN DIVISION.	1 5 10	222		=   3 4										1
23	Montgomery	1,413	960	1,050	985	1,124	926	914	946	744	762	987	1,377	12,188	1
24	Lyallpur	1,574	1,674	2,427	2,950	2,806	1,702	1,584	1,597	1,296	1,268	1,467	2,022	22,397	1
25	Jhang	1,267	1,013	1,524	1,488	1,226	849	851	845	845	810	1,003	1,431	13,152	1
26	Multan	2,482	1,717	1,559	1,240	1,512	1,211	1,314	1,071	1,179	1,446	1,827	2,480	19,038	1
27	Muzaffargarh	1,945	1,271	1,067	962	*1,048	802	876	748	774	1,077	1,244	1,529	13,343	-
28	Dera Ghazi Khan	1,073	935	930	729	822	703	614	642	582	718	869	855	9,473	-
	Total for the Pro- vince.	57,644	61,798	87,616	116,728	93,067	46,871	39,852	36,152	33,759	35,652	41,009	52,362	702,550	-
	Ratio of deaths per 1,000 in each month.	298	3-20	4.53	6.04	4.81	2:43	206	1.87	1.75	1.84	2.12	2.71	86-53	-

ANNUAL FORM No. IV.

DEATHS REGISTERED ACCORDING TO SPECIFIED AGE PERIODS FROM DIFFERENT DISEASES IN THE DISTRICTS OF THE PUNJAB BURING THE YEAR 1915.

ANNUAL FORM

1	2	3	4		t			6		7		8
					UNDER 6	NE YEAR.	ONE YEAR 5 Y	AND UNDER	5 YEARS A 10 YE	ND UNDER	10 YEARS /	AND UNI
No.	Divisions.	Districts.	DISHASES,		Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
1	2	3	4		5	6	7	8	9	10	11	12
1		HISSAR.	Cholers Small pox Plague Fevers Dysentery and Diarrheea Respiratory diseases Injuries All other causes		2,355 1 1 1 1,324	3 1,890 1 3 1 1,128	2 20 9 1,048 1 6 4 922	8 18 6 1,204 2 5 6 732	6 14 28 408 5 7 9 188	10 18 31 387 6 6 9 155	30 3 64 156 8 11 12 132	
		_	Total		3,690	3,031	2 062	1,981	665	622	416	
94		ROHTAK.	Cholera Small-pox Plague Perers Dysentery and Diarrhoea Respiratory diseases Injuries All other causes		8 5 12 1,042 30 45 3 2,336	15 1 15 825 11 37 5 1,950	40 4 22 683 15 24 14 528	28 1 25 732 18 20 15 408	31 35 229 3 4 14 33	30 1 46 198 4 5 9 26	30 2 48 165 4 3 18 32	
			Total		3,481	2,859	1,330	1,247	349	319	302	
3	AMBALA.	GUEGAON.	Cholera Small-pox Plagus Ferers Dysenfery and Diarricea Respiratory diseases Injuries All other causes		6 20 644 6  2,461	8 24 719 6  1,965	5 4 32 521 12 12 4 956	3 44 467 8 9 11 945	7  39 158 18 6 2 66	3 1 46 210 8 9 5 43	11 2 52 178 20 22 10 40	
			Total		8,137	2,722	1,546	1,487	296	325	335	
4		Kannal.	Cholera Small-pex Plague Fevers Dysentery and Diarrhora Respiratory diseases Injuries All other causes		2 11 49 1,473 8 34 8 2,398	 4 31 1,257 4 16 3 2,110	4 9 60 883 7 25 10 784	1 5 49 1,007 4 24 4 686	7 7 125 321 12 37 18 83	153 308 9 27 12 78	16 5 210 204 19 52 23 42	
			Total		3,983	3,425	1,782	1,780	610	591	579	
5		AMBALA.	Cholera Small-pox Plague Fevers Dysentery and Diarrheea Respiratory diseases Injuries All other causes		4 79 1,787 21 308	4 97 1,750 22 353 421	1 5 85 435 32 426 	8 100 373 25 507	7 7 115 132 35 121 	4 4 259 264 19 105 	4 1 211 159 39 30 	
			Total		2,505	2,647	1,384	1,406	573	720	544	-
6		SINGA.	Cholera Small-pox Plague Fevers Dysentery and Diarrhea Respiratory diseases Injuries All other causes	-	 30 3 33  42	 20 2 19  48	  14 2 2 2 3 8	10 2 3 9	4 5	3 2 3	2 1 2	
	1		Total		108	89	29	24	9	11	9	-

No. IV.
DISEASES IN THE DISTRICTS OF THE PUNJAB DURING THE YEAR 1915.

9		10		11		5 12		18		14		15		10
15 YEAR NDER 20	S AND YEARS.	20 YEAR UNDER 30		30 YEAR UNDER 40		40 YEAR UNDER 50		50 YEARS A 60 YE		60 YEAR UPWA		Тота	L.	
Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	No
13	14	15	16	0 17	18	19	20	21	22	23	24	25	26	2
93 2 66 40 20 19 10 59	82 2 41 55 22 17 7 35	58 2 537 299 26 32 14 80	50 1 488 358 23 31 9 57	88  228 157 28 108 26 51	78 263 208 20 20 88 21 69	48 249 225 30 113 27 40	41 	219 241 51 131 28	237 169 30 163 22	35 91 1,214 62 149 24	28  98 1,201 52 106 19	412 49 1,491 6,193 232 577 115 2,796	373 52 1,442 5,757 191 490 1.9 2,323	-
303	261	1,048	1,020	686	746	732	602	722	609	1,575	1,504	11,905	10,757	
18 1 51 155 5 4 13 20	14 35 144 4 17 29 18	57 97 287 5 40 16 59	53  117 348 11 44 49 93	45  81 260 7 85 24 41	31  66 327 8 37 31 46	33  53 332 10 77 7 42	26 58 341 10 55 19 45	24  48 399 12 123 13 56	35 405 10 98 14 22	30 857 17 205 5 97	19  48 720 25 208 7 51	312 12 477 4,449 108 560 131 3,224	244 6 545 4,195 102 533 198 2,678	
277	261	561	715	491	576	554	554	661	596	1,227	1,078	9,233	8,501	
55 142 11 40 12 16	5  45 116 9 22 15 27	108 347 24 56 31 43	97 339 18 56 56 91	76 296 29 69 24 33	72 254 24 77 32 35	8 	10  55 247 32 95 32	57 342 45 103 22	10 194 41 114 38 59	2 65 634 47 245 26 180	66 623 30 215 47 187	82 12 570 3,603 250 648 153 3,899	62 12 555 3,317 191 629 243 3,418	
282	249	624	672	544	506	615	510	639	506	1,199	1,168	9,217	8,427	
41  218 185 19 25 19 25 19 23	25 185 193 16 50 15 17	57 433 576 21 64 21 69	33 400 588 14 64 29 70	73 343 405 21 91 23 62	63 374 478 13 76 25 55	185 573 23 107 22 76	47 194 448 16 79 21 63	525 20 84 18	212 416 15 78 13 60	146 1,138 23 128 7 1°4	189 924 16 105 13 156	365 32 1,956 6,293 173 649 168 3,815	259 9 2,090 5,816 115 5-68 147 3,342	
530	501	1,241	1,198	1,020	1,084	1,054	868	974	832	1,678	1,443	13,451	12,346	
8 174 113 37 55 15 50	5 4 57 175 17 64 6 60	10 2 526 131 36 100 21 193	509 158 24 93 7 199	155 13	10 1 442 162 44 100 5 19:	325 181 52 223 9 199	8 321 11 49 6 62	426 286 20 50 11	390 89 17 95 11 194	314 844 29 270 20 210	310 484 22 182 8 317	59 19 2,743 4,310 352 1,737 89 1,811	38 22 2,754 4,053 221 1,634 42 1,959	The second strains
452	377	1,018	993	914	955	1,003	876	934	729	1,693	1,326	11,020	10,723	-
2 1 5 6	 6 1 5	26 2 5 2 5	18 2 7 1	1  12 1 10	13 22 5	  11 1  16	12 1 1 2 	1	 10 6 22 2 6	30 5 4 31	  29 3 5	1  145 21 64 6 145	124 20 53 3	
14	15	40	37	37	26	28	20	38	25	70	50	383	308	-

ANNUAL FORM

1	2	3	4		al a	5		6		7	8	
		- 2AYS	Ed Hart O	and the		R ONE	ONE YEAR . 5 YE	AND UNDER	5 YEARS A 10 YE		10 YEARS A	ND UNDER
No.	Divisions.	Districts.	DISEASES.		Males.	Femalos.	Males.	Penales.	Males.	Females,	Males.	Females,
1	2	3	4 4 4	and the same of	5	6	7	8	9	10	11	12
7		KANGRA,	Cholers Small-pox Plague Plague Pevers Dysentery and Diarrheea Respiratory diseases Injuries All other causes	1111111	2,343 83 512 15 £97	2,535 82 273 11 202	20  867 79 139 11 91	28 2 782 84 220 10 72	29 1 174 50 96 9 125	51 1 254 60 58 7 130	33 1 102 92 79 20 92	39 2 198 36 52 7
_		_	Total		3,550	3,103	1,207	1,198	484	562	419	475
s		Hossiabrus.	Cholera Small-por Plague Fevers Dy-entery and Diarrhea Respiratory diseases Injuries All other causes	11111111	269 1,825 13 457 1 1,676	1 2 269 1,329 8 289 1 1,563	3 8 572 1,496  167 25 185	4 4 696 1,582  124 24 157	3 8 725 396  32 14 47	1,041 462  27 13 29	5 1 796 298  27 16 25	1,090 309 1 22 10 21
	int a		Total	:	3,741	3,462	2,456	2,591	1,220	1,574	1,168	1,458
9	JULLUNDUR.	JULIUNDUR.	Cholers S mall-pog Plague Fevers Dysentery and Diarrhoea Respiratory diseases Lnjuries All other causes		7 168 874 53 516 21 2,020	3 255 1,129 38 478 3 2,078	2 10 743 952 44 282 21 122	12 799 944 5) 247 28 135	2 2 993 365 11 69 25 13	1,324 320 10 52 18 13	1,070 206 7 39 14 10	1,351 181 8 38 7
			Total		3,659	3,984	2,176	2,215	1,480	1,738	1,347	1,593
10		LUDHIANA.	Cholera	14131131	17 109 375 22 91 10 1,806	10 89 333 14 117 6 2,067	2 12 236 415 17 121 9 245	 176 310 10 99 3 260	18 28 222 322 8 91 13 60	11 7 201 381 5 81 6 27	59 5 372 271 21 32 7 61	24 9 397 255 9 44 9
			Total		2,432	2,636	1,057	873	762	718	828	790
11		PREGRETORE,	Cholera Small-pox Plague Fevers Dysentery and Diarrhora Respiratory diseases Injuries All other causes		14 73 30 1,721 4 21 	18 53 38 1,761 2 18  2,641	298 63 342 1,135 15 64 18 1,047	229 40 369 1,014 10 53 12 1,023	214 39 201 757 17 52 7 116	178 30 315 668 9 46 5	222 8 190 507 22 70 10 133	149 14 299 419 15 55 3 94
		- 0	Total		4,666	4,531	2,982	2,750	1,403	1,348	1,162	1,048
12	LAHORE,	LAHORE,	Cholera Small-pox Plague Fevers Dysentery and Diarrhœa Respiratory diseases Injuries All other causes	11111111	3 36 1,248 1,006 71 186 7 2,433	4 29 1,245 911 47 161 6 2,021	165 71 1,338 640 62 198 30 1,099	195 67 1,266 554 40 105 22 1,104	151 28 244 1,023 35 39 31 149	149 31 232 1,351 28 30 20 83	75 12 185 751 39 43 36 20	66 18 151 983 39 22 24 18
	-	1	Total		4,990	4,424	3,603	3,353	1,700	1,919	1,162	1,321

No. IV
DISEASES IN THE DISTRICTS OF THE PUNJAB DURING THE YEAR 1915.

9		10		11		1:	2	1:		14		10	5	16
15 YEAR		20 YEAR UNDER 30		30 TEAS UNDEA 40		40 YEAR		50 YEARS A		60 TEAL		Тот	AL.	
Males.	Females.	Males,	Ferales.	Nates.	Frmales.	Males,	Females.	Males.	Pen ales,	Ma'es.	Females.	Males.	Females.	No.
13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
44 1 137 52 46 22 185	42 1 220 32 67 9 189	100 3 488 60 112 19 103	58 1 558 98 90 6 385	58 1 526 43 101 13 128	55 2 639 49 176 7 167	52  1 319 64 113 18 385	35  2 381 70 68 9 431	425 47 99 6 335	25  1 368 12 47 5 385	27 1 1,202 83 146 20 648	42  2 729 69 210 10 829	400  9 6,583 653 1,443 153 2,689	375 1 14 6,764 592 1,270 81 2,931	
487	660	885	1,205	870	1,095	952	996	949	843	2,127	1,891	11,930	12,028	-
563 200 1 17 16 22	3 1 498 264  30 6 23	3 803 486 1 69 31 50	3 1 816 645  75 14 57	784 488 2 80 14 63	6  827 544  67 11 46	663 603 1 82 13 58	3 1 695 513 1 60 11 33	5. 3 627 554 1 93 14 63	1  430 430 2 41 5 30	694 2,012 1 231 14 160	1 680 1,619  115 15 73	34 15 6,526 7,858 20 1,255 158 2,349	28 10 7,132 7,697 12 850 110 2,032	8
819	825	1.443	1,611	1,435	1,501	1,457	1,307	1,360	1,039	3,116	2,503	18,215	17,871	-
1  817 197 6 22 7 6	825 178  24 2 4	1,138 315 12 317 18 20	1 2 1,102 343 6 104 5	3 2 1,696 300 13 65 6 22	3 1,097 327 9 72 5 14	1 2 952 355 10 98 15 14	2 815 335 8 94 6 16	655 386 18 162 8 16	2 526 382 17 110 3 8	1,078 1,180 52 510 30 67	S94 1,135 42 410 9 63	17 23 8,710 5,130 226 1,881 165 2,310	3 23 8,983 5,274 188 1,629 86 2,357	9
1,056	1,033	1,624	1,582	1,508	1,527	1,447	1,276	1,245	1,048	2,920	2,553	18,462	18,548	-
46 7 543 317 4 29 5 61	24 6 642 247 8 22 4 26	77  723 285 6 25 12 26	48 5 641 3.5 11 34 15 19	61 2 736 191 7 96 8 44	37 621 371 9 78 6 38	572 244 5 112 12 68	20 3 681 187 3 44 4 32	23 2 384 205 11 88 7	9  362 224 7 62 10 21	188 290 24 92 16 11	1 135 313 14 87 12 30	318 73 4,085 3,005 125 779 99 2,413	184 55 3,945 2,926 90 668 74 2,563	1
1,002	989	1,154	1,078	1,145	1,160	1,042	974	751	695	724	592	10,897	10,505	
220 8 178 385 22 66 9 93	194 16 155 339 19 56 5	202 8 309 380 19 91 19 111	154 15 228 427 16 82 10 92	177 6 229 331 31 117 9 105	147 13 252 291 26 123 3 108	118 3 233 306 24 118 3 92	74 5 140 301 24 103 1 67	243 277 37 96 3 112	53 1 167 242 25 79 	105 417 859 47 150 1 176	84  381 649 33 183  151	1,670 208 2,365 6,659 238 845 79 4,793	1,220 187 2,344 6,111 179 798 39 4,446	1
987	820	1,139	1,024	998	963	897	715	868	644	1,755	1,481	16,857	15,324	_
127 6 83 563 52 43 26 25	99 10 102 509 21 43 10 26	286 4 266 920 199 199 27 67	203 8 234 867 30 152 7 69	307 4 148 777 35 95 39 81	179 6 170 592 20 127 11 5s	292 2 189 725 29 78 36 67	129 2 171 574 16 72 14 57	103. 1 299 637 30 65 24 76	86 1 235 348 21 75 -10 35	747 1,437 35 186 16 180	18  699 1,087 31 121 6	1,524 164 4,754 8,509 447 1,132 273 4,197	1,183 172 4,505 7,736 289 903 130 3,563	
931	823	1,808	1,575	1,486	1,163	J,418	1,035	1.265	811	2,616	2,003	20,979	15,426	-

ANNUAL FORM

1	2	3	4		5			7	- 11	8	
	1	1.2		UNDER	ONE YEAR.	ONE YEAR A		5 YEARS A 10 Y	ND UNDER	10 YEARS 15 YE	
N3.	Divisions.	Districts.	DISEASES.	Males.	Females.	Malon.	Fomales.	Males.	Females.	Maler.	Females.
1	2	3	4	5	6	7	8	9	10	11	12
13		AMBITSAB.	Cholera Small-pox Plague Fev. rs Dysentery and Diarrhoea Respiratory diseases Injuries All other causes	11 877 2,260 96 731	5 10 579 2,407 63 615 4 1,146	17- 43- 649- 1,310- 88- 263- 26- 1,157	13 23 660 1,389 107 176 17 1,116	64 16 1,140 347 27 68 37 213	47 11 1,301 449 19 204 10 178	53 6 1,153 340 28 76 16 188	39 8 1,295 475 16 59 9 162
_			Total	4,727	4,829	3,553	3.501	1,912	2,199	1,855	2,063
14	NUED.	Gundaspus.	Cholera Small-pox Plague Pevers Dysentery and Diarrhosa Respiratory diseases Injuries All other causes	532 733 28 2,425	2 511 663 30 2,124 3 20	1 13 1,263 1,112 41 466 19 32	 11 1,156 1,301 32 411 10 27	1 11 411 246 38 109 18 32	12 421 285 33 94 11 31	1 2 448 237 47 92 21 42	547 226 39 91 91
	COMPE		Total	3,748	3,353	2,947	2,948	866	887	890	944
15	LAHORE-COMINGED.	SIMIKOT.	Cholera Small-pox Plague Fevers Dysentory and Diarrhosa Respiratory diseases Injuries All other causes	291 2,025 233 634	1 2 307 1,922 153 522 5 656	3 3 1,634 992 131 363 44 431	1,514 1,204 91 345 25 431	1,214 374 47 146 31 122	1,564 313 36 116 17 121	1,126 411 30 122 12 90	2 1,298 358 31 108 12 75
			Total	3,913	3,573	3,601	3,614	1 938	2,108	1,793	1,985
16		GUINTERALLA.	Cholera Small-pox Plague Fevers Dysentery and Diarrhua Respiratory diseases Injuries All other causes	1 924 1,299 20 100 5	 927 1,188 28 93 1 1,102	881 1,109 23 95 39 701	749 1,006 17 78 19 756	920 838 19 29 21 108	21 968 1,266 15 17 11 73	926 585 15 17 17 20	25 1,266 588 10 13 8 76
1 3			Total	3,845	3,839	2,828	2,625	1,965	2,372	1,627	1,986
17		Gerran.	Cholera Small-pox Plague Fercrs Dysentery and Diarrhœa Respiratory diseases Injuries All other causes	996 959 47 165 3	33 128	54 1 3,151 491 21 142 2 231	80 2 1,857 469 16 136 2 216	1,259 424 26 110 9 131	94 1,515 361 30 90 7 132	83 1 183 323 21 113 36 137	73 1 1,464 434 10 109 22 98
_	INDI		Total .	2,586	2,413	2,093	2,278	2,051	2,238	1,895	2,211
18	RAWALPINDL	SHARFUR.	Small-pox Plague Perers Dysontery and Diarrhera Respiratory diseases Injuries All other causes	6 56 292 16 25 2,263	69 202 5 12 1,962	4 7 285 974 28 60 21 51	5 6 295 1,074 9 23 11 40	8 7 617 193 27 51 23 19	5 2 641 285 9 32 14 16	17 1 577 108 25 48 33 12	10 1 692 145 10 39 20 18
		1	Total	2,658	2,256	1,430	1,463	945	1,004	821	935

VO. IV-CONTINUED.
DISEASES IN THE DISTRICTS OF THE PUNJAB DURING THE YEAR 1915.

9		10	1	11		. 12		13		14		15		16
5 THAR DER 20		20 YEAR UNDER 30		30 YEAR UNDER 40	S AND YEARS.	40 YEAR UNDER 50	TEARS.	50 YEARS AN		60 YEARS UPWAR		Total	E.,	
Males.	Females.	Males.	Females.	Malca.	Females.	Males,	Females,	Males.	Females.	Malos.	Females.	Males	Females.	No.
13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
41 16 866 115 18 93 14 52	44 10 680 146 15 117 6 66	94 1,265 667 43 123 28 62	83 8 1,096 611 45 209 7 50	87 3 972 416 76 213 11 69	51 1 964 311 37 241 3 70	21  845 409 56 164 8 8	725 366 25 192 5 20	717 426 50 203 3	633 413 35 64 2 17	975 1,728 82 107 46 104	26  727 1,417 115 96 36 99	445 95 8,960 8,018 568 2,041 192 3,159	337 71 8,660 7,964 477 1,973 99 2,924	1
1,215	1,084	2,282	2,109	1,847	1,678	1,542	1,348	1,458	1,178	3,087	2,516	23,478	22,505	
693 197 53 109 16 39	2 1 723 228 44 89 9	1,349 410 60 214 24	1,305 438 39 201 10 39	10 1,175 895 60 204 15 54	6 1,147 391 42 179 8 29	1,131 266 48 230 12 48	6 1,129 292 37 196 10 35	998 855 51 238 13 50	1,003 319 30 188 7 25	765 1,321 52 468 9	627 1,069 33 379 3	35 26 8,765 5,382 478 4,555 152 419	26 26 8,569 5,212 359 3,952 80 309	
1,113	1,135	2,116	2,040	1,913	1,803	1,841	1,705	1,716	1,576	2,662	2,143	19,812	18,533	
1,667 250 18 105 11 66	1,)78 262 21 105 6	1,078 329 16 102 19	1,240 386 19 99	960 335 14 84 22	1,212 203 12 83 3 77	901 364 13 82 16	1,135 213 15 61 4 74	739 364 24 107	1,016 207 19 .80 4	1,006 105 383 20	1,098 882 80 383 10 411	32 5 10,338 6,450 631 2,128 187 2,259	11,602 6,040 483 1,903 2,077	3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1,519	1,644	1,644	1,817	1,510	1,683	1,472	1,504	1,352	1,427	3,318	2,868	22,060	22,221	2
40  441 343 10 19 3 14	465 234 15	924 796 21 6 60	751 590 31	904 747 18 7 81 7 61	750 553 13 63 21 28	826 676 13 60 39	417 9 35 28	717 540 26 9 91 3 38	64: 32: 1: 5: 2:	1,516 1,460 18 199 22	885 1,632 14 50 26 18	360 1 8,959 8,393 183 657 200 2,446	18: 8,13: 7,20: 13: 45: 17: 2,14:	1 9 2 4 7 5
870	78	1,923	1,45	3 1,888	1,4/58	1,062	1,283	1,486	1,08	3,205	2,036	21,299	18,43	3
968 366 22 104 22 123	7	5 1,548 4 266 0 17 9 126 5 1	1,63 39 1 9	2 1,834 7 805 3 10 4 130 3 9	1,904 283 9	1,348 217 12 91 2 5	1,46	935 2 235 8 10 3 71 2 2	1,05 16	4 394 7 13 0 105 5	1,508 380 69 84	670 2 12,789 4,080 199 1,159 110 1,538	14,08 3,94 14 94 6 1,33	4 0 5 2 4 4
1,752	1,84	2 2,28	2,30	2,466	2 43	1,820	1.90	6 1,367	1,40	2,231	2,070	20,547	21,09	3
28  411 113 29 51 27 14	45	15	8 62 7 18 9 1 5 4	2 552	61: 34: 34: 55: 56: 11:	9 585 9 183 6 14 1 56 5 14	55 22 1 1 3	1 574 1 228 6 7 9 33	36 25 1 3	3 1,306	2 3452 846 2 18 17	122 21 4,520 3,509 187 489 176 2,434	10 1 4,76 3,71 11 34 1 2,10	5 1 6 4 4
673	65	96 87	7 90	5 957	7 1,08	0 87	1 86	2 86	69	1 1,665	1,358	11,758	11,27	0

ANNUAL FORM

1	2	3	. 4		5		1	3	7			3 %
		+		-	UNDER OF	E YEAR,	ONE YEAR 5 YEAR		5 YEARS AT 10 YE		10 YEARS 15 1	AND UND
No.	Divisions.	Districts.	Diseases.		Males.	Females.	Males.	Females.	Males.	Frances.	Males.	Females.
1	2	3	E. 10 4 0		5	6	7	8	9	10	11	12
19		Јиктом.	Cholera Small-pox Plague Fevers Dysentery and Diarrheea Respiratory diseases Injuries All other causes		1  123 429 23 33  913	122 415 13 82 4 877	300 504 12 25 10	388 516 12 13 12 122	2 1 563 182 4 10 9	735 199 3 6 20 23	5 	7.11
_			Total		1,522	1,463	1,000	1,064	802	991	743	9
20	UDED.	RAWALTINDI.	Cholera Small-pox Plague Povers Dysentery and Diarrheea Respiratory diseases Injuries All other causes		98 f80 759 34 4 678	78 529 653 19 1 624	6 2 313 695 159 30 8 82	341 602 155 25 10 85	14  605 245 21 9 17 27	793 272 22 24 13 19	684 220 6 32 18 13	8 1
	CONCE		Total		2,153	1,904	1,295	1,317	938	1,149	979	1,0
1	RAWAL PINDI-CONCLUDED	ATTOCK.	Cholera Small-pox Plague Fevers Dysentery and Diarrhoea Respiratory diseases Injuries All other causes		 86 768 3 7 1 858	 106 635 4 4 754	232 822 3 12 10 47	223 806  19 10 34	349 275 1 11 11 23	462 304 1 9 15 8	371 167 2 11 7 11	 4 1
			Total		1,653	1,507	1,126	1;102	657	799	569	6
2		MIANWALI.	Cholera Small-pox Plague Foters Dysentery and Diarrhea Respiratory diseases Injuries All other causes	111111111111111111111111111111111111111	959 28 10 1 665	797 18 4 1 480	546 13 3 10 23	 522 9 3 16 22	1 187 4 10 8	175 175 1  14 5	106	1
			Total		1,693	1,301	595	572	210	199	123	1
3		Моятдоминт.	Cholera Small-pox Plague Fevers Dysentery and Diarrhoea Respiratory diveases Injuries All other causes		5 1,466 33 21 446	6 1,477 17 4 810	15 10 9 939 2 7 7 33 174	8 5 2 946  4 14 232	18 6 15 184 5 9 12 96	7 5 35 216 3 3 8 61	52 1 53 78 1 5 1 5 16	100
4	IN.		Total		1,971	1,814	1,189	1,211	345	337	211	- 1
24	MULTAN.	LIALIPOR.	Cholers Small-pox Plague Fevers Dysentery and Diarrhea Respiratory diseases Injuries All other causes		68 10 439 1,970 30 60 29 1,083	38 8 390 2,214 24 39 23 1,079	45 15 293 867 15 47 33 657	34 10 337 865 16 37 21 603	10 19 135 297 7 19 12 74	3 17 156 346 7 -5 8	7 8 98 393 7 19 18 65	1 2
1	-	1	Total		3,689	3,815	1,972	1,923	573	631	615	- 6

No. IV—CONTINUED.

DISEASES IN THE DISTRICTS OF THE PUNJAB DURING THE YEAR 1915.

9	,	1	10	1	11		12		13		14		15	-
	BS' AND O YEARS,		ARS AND BO YEARS,		RS AND 10 YEARS.		DS AND 50 THARS,		AND UNDER	60 YEA	ARS AND	То	TAL.	
Malce.	Females.	Males.	Femalos.	Males.	Females.	Males.	Females.	Males.	Femalos,	Males.	Females,	Malos.	Females.	
13	14	15	16	17	18	19	20	21	22	23	24	25	26	92
380 107 2 23 4 17	376 89 30 4 23	797 205 14 73 25 42	3  946 269 5 90 11 46	945 253 18 71 17 35	6  1,153 312 5 82 5 53	921 272 16 62 18 85	3 1,086 280 4 67 3 27	752 284 11 70 14 23	822 281 8 62 5 14	1,020 950 29 196 23 71	1,098 854 16 119 10 38	25 1 6,352 3,318 134 576 131 1,327	25 7,471 3,345 67 526 78 1,235	1
534	522	1,160	1,370	1,341	1,616	1,327	1,470	1,156	1,194	2,289	2,138	11,874	12,747	
378 141 7 29 12 6	3  477 133 4 34 3 26	25  779 371 26 93 18 27	19 1,188 443 16 112 12 69	16 1,166 477 26 106 26 27	14  1,415 537 10 102 15 46	906 466 19 106 20 21	10 1,188 440 7 77 9 31	679 394 20 75 31 22	7  779 369 10 55 4 14	9  872 1,064 37 145 13 33	934 868 22 108 5	97 2 6,480 4,653 1,080 659 157 936	81 8,030 4,461 906 591 84 932	2
579	€80	1,339	1,849	1,844	2,139	1,550	1,762	1,214	1,238	2,173	1,962	14,064	15,085	
195 112 9 7	 199 102 1 19 3 6	657 359 2 40 23 28	 683 399 1 47 11 40	673 482 3 61 16 14	777 481 2 59 10 36	520 450 2 37 10 13	 640 381 2 46 7	476 435  33 7 23	1  519 874  49 1 12	1 580 997 4 93 11 42	I 676 894 4 78 10 16	2 1 4,139 4,803 20 314 104 1,049	1 4,725 4,542 15 340 79 928	2
333	330	1,110	1,181	1,249	1,365	1,032	1,089	974	956	1,728	1,679	10,431	10,631	_
97 1 7 4 5	1 71 71 6 1 9	168 4 16 10 16	I 184 4 15 2 22	 1 216 6 16 10 15	255 3 11 3 23	253 13 16 3 14	 228 7 11 3 13	321 11 22 3 17	261 7 14	749 42 40 4 37	621 26 18 6 14	1 1 3,632 122 130 64 808	3,228 76 83 51 603	2:
114	89	214	228	264	295	299	262	374	293	872	685	4,758	4,048	_
15 2 53 64  1 2 7	18 5 68 32 - 1 2 15	24  70 181 4 8 11 17	31  32 206 1 4 15 40	53 55 157 23 10 20	81 119  31 24 56	68  31 105 7 4 24 91	70 8 167 1 1 5 33	17 6 174 11 18 171	24  129 4 15 11 127	30 661 	41  40 574  14 11 220	317 24 322 4,009 19 123 167 1,310	270 23 331 3,943 11 105 95 1,119	23
144	141	315	329	318	352	330	285	397	310	1,071	900	6,291	5,897	
10 4 138 320 7 13 24 75	3 4 182 294 7 8 6 67	6 2 159 219 8 12 24 56	3 1 165 287 7 11 10 75	7  1z8 303 8 15 13 65	170 326 6 9 12 64	122 375 6 20 20 58	4  179 318 11 7 8 47	5 147 316 7 13 15 57	2 138 335 4 4 8 55	39  216 867 25 54 29 420	21  174 698 13 26 20 330	201 58 1,875 5,957 120 272 217 2,610	115 42 2,009 6,066 101 152 123 2,479	24
591	571	516	559	539	591	605	574	560	543	1,650	1,282	11,310	11,037	

### ANNUAL FORM

# DEATHS REGISTERED ACCORDING TO SPECIFIED AGE PERIODS FROM DIFFERENT

-		-		THE CONTRACTOR	1	The state of	1 11 11 11 11		a. takwan	2020000		2011112
1	2	3	4		11	5	111	6	12	7		8
		0.300	00 t		Under o	NE YEAR.		AND UNDER		ND UNDER	10 YEARS 15 YE	AND UNDER
		-	DISBA	888.		-						
No.	Division.	Districts.	1 1		Males.	Females.	Males,	Femalos,	Males.	Fomalea,	Males.	Females.
1	2	3	4		5	6	7	8	9	10	11	12
-	0		Cholera	- CB	12 1	12	nn o	0.1			-	-
-		-	Small-pox Plague		83		51	37	69	 53	57	
1	125	MG.	Fevers Dysentery and Diar		1,361	1,296	469	493	89 14	77	71 7	52 52 5
25	270	Эпажо.	Respiratory diseases Injuries All other causes		31	18	13	21	87	20	23 6	29
			All Gues Causes		816	580	165	112	93	131	95	99
	Table 1		7	otal	2,312	1,973	707	677	302	292	259	267
-	-		Cholera Small-pox			-						
	100		Pingue Fevers		1,772	1,569	11 3 844	15 2 710	5 427	7 5 846	12	5
	000	MULTAN.	Dysentery and Diar Respiratory diseases	rhœa	93	81	42	37	7	4	283	305
26	D	Mus	All other cames		86 1,116	57 961	29 232	16 173	7 79	6 70	9 56	7 53
	MULTAN-CONCLUBED.		1	otal	3,073	2,676	1,151	953	532	488	363	375
-	00		Cholera									310
-	TAN		Small-pex Plague		2	1 1	1	" 1	2 2	2 2	1	3
	MUL	OAEH	Fevers Dysentery and Diarr	rbona	1,482	1,819	654	654 5	276	233 1	171 2	139
27	181	RANK	Respiratory diseases Injuries		8	2 4	9 28	7 23	3	2 2	3 15	: 2
	1	MUZAFFARGARH.	All other causes	***	425	852	27	16	25	16	8	15
			T	otal	1,940	1,686	726	708	329	261	206	166
-			Cholera Small-pox		***	1	1	,				
1		Киля.	Plague Fevers		1,353	7,114	479	430	178	136	98	
	40		Dysentery and Diarr Respiratory diseases	bea	18 20	11 15	8 15	6 9	10	4 3	7 7	61
28	100	GEAZE	Injuries All other causes		92	102	28	22	17	30	19	- 40
	1	DEBA	T	otal	1,483	1,243	£30	468	216	173	130	-
Total	for the		100-									113
A USBI	Choles Small-	n .			196	213	693	647	718	634	759	532
	Plagu	0 .			5,991	170 6,239	10,484	10,605	198	155 12 240	10,463	74 12,959
		tery ar	d Diarrhera		34,648 1,737	\$3,017 1,392	21,946 887	22,056 779	9,051	10,048 354	6,720	7,109
	Respi		diseases	***	6,522 243	5,408	3,016	2,723 341	1,176	1,083 259	991	962
	Allot	her cau			33,362	29,482	10,559	9,931	2,125	1,752	398	1,399
			To	otal	82,908	76,058	48,357	47,329	24,132	26,525	21,350	23,581
			g to Census of 1911		424,654	404,431	997,515	931,872	1,482,324	1,259,701	1,321,272	931,615
Ratio	Choles	ra .	ng for the Province-		0.46	0.53	0-69	0-69	0.48	. 0.50	0-57	0-57
	Small- Plagu	0 .			0.49	0.42	0°81 10-51	0.27	0·13 6·77	0°12 9°72	0 05 7 92	0.08
	Dysen	tery at	nd Diarrhora		81·59 4·09	81.64 3.42	22-00 0-89	23-67 0-84	6.11	7·98 0°28	5.09	7-63
	Respin	ratory o	liseases	***	15-36 0-57	13-37	3 02	2.92	079	0.86	036 075	0.33
		her can			78-56	72:90	0-46 10-59	0·37 10·66	0.26 1.43	0 21 1 39	0.30	0°26 1°50
			T	otal	195:24	188-06	48-48	50-79	16:28	21:06	16.16	25:31
		1			-	-	-	-			-	

Nozz.-The population of military cantonments by different ages cannot be

### No. IV-CONCLUDED.

# DISEASES IN THE DISTRICTS OF THE PUNJAB DURING THE YEA'R 1915.

-	9		10		11	,"	12		13		14		15	1
	20 YEARS.		ARS AND 30 YEARS.	30 YE UNEER	ARS AND 40 YEARS,	40 YE UNDER	EARS AND 50 YEARS.	50 THANS 60	AND UNDER	60 YA	ARS AND	Т	OTAL.	-
Males.	Pemales.	Males.	Females.	Males,	Femalos.	Malos.	Pemales.	Males.	Fernales.	Males.	Females.	Males,	Females.	-
13	14	15	16	37	18	19	20	21	22	23	24	25	26	1
	01	1	31			1		1	1	2				1
1 53 33 11 27 8 40	46 53 7 35 	101 102 18 51 7 143	1 87 111 13 27 4	118 107 27 41 9 149	113 73 11 37 3 230	115 128 23 36 14 188	104 143 19	93 248 19 29 17 114	88 181 17 19 5 93	189 891 32 97 13 87	164 731 19 61 4 76	5 1 929 3,499 181 385 74 1,888	832 3,210 134 280	
173	186	423	423	451	467	503	451	521	404	1,311	1,(45	6,962	6,190	1
1 10 832  10 68	1 10 358 2  5 68	3 17 518 5  13 99	495	1 3 20 602 7  17 106	6 14 506 2  16 86	11 18 713 7 1 18 109	4 11 603 7 1 8 91	9 745 7  16 103	8 630 4 6 91	5 1,143 20  25 301	971 12  9 261	1 35 99 7,379 188 1 230 2,259	48 76 6,493 153 1 139 1,996	
421	444	655	607	756	630	867	725	880	739	1,494	1,259	10,192	8,846	1
1 3 132  4 15 7	 3 100  1 7	1 8 420 5 6 23 36	1 8 468 2 3 17 43	1 16 564 2 6 20 32	2 7 541 4 9 9	10 649 7 12 16 22	1 5 514 5 5 4 23	1 5 628 3 6 13 21	I 5 418 3 5 9 7	13 1,276 9 20 23 25	 942 8 7 15	2 7 66 6,258 44 77 186 628	4 11 47 5,328 36 40 88 524	-
162	111	505	542	641	604	716	557	677	448	1,366	992	7,268	6,075	1
75 10 6 20 9	119 6 5 7 10	247 12 18 30 36	306 8 25 8 30	323 13 20 25 36	345 5 15 18 20	1  432 14 24 20 20	334 9 11 11 30	436 15 30 11 23	233 9 20 6 20	746 9 35	 520 6 40 	4,895 1)6 186 106 360	3,698 68 151 50 324	
121	140	344	378	419	407	541	398	815	358	870	586	5,169	4,304	1
912 49 8,411 5,224 418 971 353 1,122	655 61 8,576 5,325 293 1,014 201 1,093	1,207 22 14,243 10,991 525 1,935 586 1,685	863 46 14,401 10,734 455 1,864 390 2,083	1,155 21 13,712 9,823 575 2,164 501 1,585	825 32 14,641 9,881 401 2,085 334 1,809	850 8 11,805 10,302 557 2,216 441 1,998	568 15 12,403 8,952 396 1,691 261 1,628	519 7 9 983 10,470 567 2,128 365 1,875	371 5 9.753 8,269 385 1,638 227 1,601	503 1 13,196 28,356 905 4,203 455 4,073	375 1 11,929 22,762 713 3,403 3,617	7,513 888 108,320 146,651 7,095 25,322 4,181 59,871	5,683 806 113,646 138,153 5,463 21,811 2,712 54,395	The state of the s
7,460	17,218	30,294	30,836	29,587	29,908	28,177	25,914	25,914	22,249	51,692	43,111	359,821	343,729	-
090	726,853	1,885,914	1,581,886	1,446,929	1,197,385	1,005,657	894,099	711,241	544,726	662,471	510,371	10,608,101	8,729,045	
0.92 0.05 8:46 5:26 0.42 0.98 0.36 1:13	6.90 0.08 11.80 7.33 0.40 1.40 0.28 1.50	0°64 0°01 7°55 5°35 0°28 1°03 0°31 0°89	0:55 0:91 6:79 0:29 1:18 0:25 1:32	0.80 0.01 9.48 6.79 0.40 1.50 0.35 1.10	0°69 0°03 12°14 8°25 0°33 1°74 0°28 1°51	0°80 0°01 11°08 9°67 0°52 2°08 0°41 1°87	0.64 0.02 13.87 10.01 0.44 1.89 0.29 1.82	0.73 0.01 14.04 14.72 0.87 2.99 0.51 2.64	0°68 0°01 17°90 15°18 0°71 3°01 0°42 2°94	0.76 0.001 19.92 42.80 1.37 6.34 0.69 6.15	0.73 0.001 23.87 44.60 1.40 6.67 0.61 7.09	0.71 0.08 10.21 13.82 0.67 2.39 0.29 5.64	0.65 0.00 13.02 15.83 0.63 2.51 0.31 6.23	

cluded, as it is not shown separately in the census returns.

allable, the ratics shown in columns from 5 to 14 are calculated under the orders of the Local Government on the population of the Punjab as constituted stification No. 2943 S., dated 1st October 1912.

### ANNUAL FORM NO. V.

# DEATHS REGISTERED ACCORDING TO CLASSES IN THE DISTRICTS OF THE PUNJAB DURING THE YEAR 1915.

1	2		were e	8					4					5	19.18	-	6
		POPULATI	ION ACCORDS	NG TO	Симаца	от 1911.	Numi	ER OF DE	ATHS B	ROISTE	BED.	RAY		BATHS I	PRR 1,00	00 от	
Number.	Districts.	Muhammadane.	Hindus.	Native Christians.	Other classes.	Total,	Muhammadans.	Hindus.	Native Christians.	Other classes.	Total.	Mohammadans.	Hindus,	Native Christians.	Other classes.	Total.	Number,
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
-	AMBALA DIVISION.						7								1000		-
1	Hissar	218,600	685,995	79	215	804,889	6,004	16,657	1		22,662	27.47	28.43	12-66	***	28-16	1
2	0	113,493 235,653	600,168	1,136	37	714,834	3,037	14,694	3		17,734	28-76	24.48	4:37	***	24.81	3
-	Gurgaon	224,920	492,684 578,947	836	143	729,167	7,348	12,005	13		25,797	32-67	32,12	15:55		32.25	4
1	1-1-1-	188,252		745	354	799,787 632,553	6,638	18,436	13		21,743	35.26	34.05	17.45		34.38	5
	01-1-	4,775	443,202 27,093	533	2,589	84,970	137	15,092	5		690	28 69	20.04	9.38	1.95	19.73	6
	JULLUNDUR DIVISION.	4,110	21,000	003	2,000	84,510	10,	0.80				2000	2004		1,00	1010	0
	Kangra	38,770	723,570	221	4,125	766,686	1,072	22,881	6		23,958	27.65	31.62	22.62		31.25	7
1	Hoshisrpur	281,805	633,786	2,954	24	913,569	11,079	24,984	23		36,086	39-31	39.42	7.79		39-29	8
1	Jullundar	352,829	434,503	1,107	17	787,956	19,249	17,750	11		37,010	54.63	40.85	994		46-97	9
10	Ludhiana	176,043	340 261	731	157	517,192	7,446	13,949	7		21,402	42-30	41.00	9-58		41.38	10
11	LAHORE	408,380	524,058	915	148	933,499	16,726	15,451	4		32,181	40.96	29.48	4:37		34-47	11
	DIVISION.	010 505	677 080	15.070		1017749	07 400	11,435	542	2	39,405	44:25	30-26	33-93	0.49	38 72	10
1:		619,735	377,928	15,972		1,017,742 879,311	27,426	23,742	128	23	45,983	54:07	50.93	30.26	65.90	52.29	1
12		408,571	466,202	4,189	349	832,561	22,090 18,685	18,898	762		38,345	45.83	47.05	38.03			14
14		407,701	401,628	23,068		963,279	29,017	12,562	2,619	84	44,282	48.41	39-51	57:27	311-11		15
15		699,340	317,942 284,773	45,727	270	923,419	29,860	8,624	778	472		47:97	30-28	43:15	2		16
16	Gujranwala RAWALPINDI DIVISION.	622,430	204,110	10,117	99	020,415	25,000	0,024	110		00,102		0020	2310			-
17	Gujrat	650,893	94 171	463	107	745,684	38,765	2,852	2	20	41,639	59-56	30.29	4.35	186 92	55.84	17
18	Shahpur	572,565	106,156	8,419	226	687.366	19,785	2,859	384	***	23,028	34.56	26.93	45.61		33.20	18
19	Jhelum	449 553	54,364	151	127	504,195	22 967	1,654			24,621	51.09	30:42		***	48.83	19
20	Bawalpindi	442,090	64,209	932	411	507,642	26,773	2,353	22	1	29,149	60.56	36.65	23.61	2:43	57.42	20.
21	Attock	470,155	45,071	31	29	515,286	19,460	1,520		82	21,062	41'39	33-72		?	40'87	21
22	Mianwali MULTAN DIVISION.	299,971	41,233	91	77	341,377	7,618	1,187	-	1	8,806	25.40	28.78		12.99	25'80	23
22	Montgomery	376,174	127,368	459	114	504,115	9,392	2,751	26	19	12,188	24.97	21.60	56.64	166-67	24'18	23
	Lyallpur	547,837	309,021	31,889	148	888 895	14,171	7,217	1,004	5	22,397	25.87	23-35	31.48	23-78	25.20	24
25		422,468	92,857	177	24	515,526	10,212	2,928	2	10	13,152	24.17	31.23	11.30	416.67	25.51	25
20		650,320	140,389	384	312	801,375	15,095	3,938	1	4	19,038	22-86	28:06	2-60	12.82	23.7	26
27		494,915	74,481	40	25	569,461	11,481	1,856		6	13,343	28.20	24.92		240-00	23-43	27
28		442,234	57,550	25	51	499,860	8,320	1,143		10	9,473	18-81	19-86			18-95	28
	Total for the Province.	10,729,972	8,434,583	158,078	14,513	19,837,146	415,489	279,961	6,356	744	702,550	38-72	33:19	40.21	51.26*	36.33	

ANNUAL FORM No. VI.

DEATHS REGISTERED FROM DIFFERENT CAUSES IN THE DISTRICTS (RURAL CIRCLES) OF THE PUNJAB DURING THE YEAR 1915.

ANNUAL FORM
DEATHS REGISTERED FROM DIFFERENT CAUSES IN THE DISTRICTS

_			-		1 -				1		_				-	
1		2		3	4	5	6	7	8	9				10		
				Ceasus									In:	TURIES.		
				3				1	1		Sai	eide.	i	P. P.	1	1
									Dysentery and Diarrhosa.	2	-	T	nts.	killed		1
	ARun	AL CIRC	CLES.	according					d Dia	isease		1	recide	70		
						8			r, as	ory d		١.	and	74		
Number.				Pepulation of 1911.	Cholers,	Small-pox.	Plagne.	Fevers.	sente	Respiratory diseases.	Males.	Females,	Wounds and accidents,	Snake-bite ar	Rrbies.	7
N				- A	ਰੰ	Seg	Pla	Fe	- A	Be	Ms	Per	W	Sna	Bel	Total.
1		2		3	4	5	6	7	8	9	10	11	12	13	14	15
-	-				-	-	-	-	-	-	-	-	-	-	-	-
	AMBALA	DIVIS	SION.					1	1							100
1	Histor	***	***		748	96	2,723	11,051	263	780	4	9	170	84	2	269
2	Rohtak Gurgaon	***	***		394	16	951	7,879 6,628	136 329	889	11	21	233	48		307
3	Karnal			723,742	137	25	1,032	11,135	165	1,033	4	5	259	69 73	8	380
5	Ambala	***	***	577,034	69	40	5,211	7,569	409	2,997	3	3	79	31	3	297
6	Simla			16,036	1			121	86	77			5		-	5
	JULLUNDU	R DIV	ISION.													
.7	Kangra			760,548	761	1	23	13,301	1,223	2,675	1	8	177	38	6	230
8	Hoshiarpur	***	***	864,823	53	19	13,286	14,759	19	1,841	5	3	195	38	1	242
9	Jullundur		-	691,816	5	29	16,221	9,393	186	2,867	1		205	6	5	217
10	Ludhiana	***		448,172	470	111	6,859	5,038	105	1,007	2	5	130	5	2	144
11	Ferciepere	 DITT		878,765	2,836	392	4,560	12,213	333	1,469	3	3	104	2		112
10	LAHORE			758,826	0.070	000	8,675	11,677	248	0.00	7		100	1		
12	Amritsar			711,530	2,373 674	322 127	16,671	13,408	C66	1,762	9	6	199	13	3	270
14	Gurdaspur			784,343	52	18	16,934	9,925	722	8,017	3	3	180	25	6	128
15	Sialkot			855,399	45	7	20,942	11,487	865	3,261	2	6	185	41	10	244
16	Gujranwala	***		838,879	499	1	16,186	14,438	200	794	1	6	246	176	4	433
	RAWALPIN	DI DIV	VISION.													
17	Gujat			702,866	1,194	6	26,423	7,560	264	1,833	1	3	131	2	2	163
18	Shahpur			630,940	223	35	8,679	6,896	213	669	1	2	216	45	1	265
19	Jhelum			481,307	48	1	13,779	6,397	140	994	4	2	137	44	6	193
20	Rawalpindi Attock	***	***	450,639	145	2	14,367	8,461	1,858	875	1	1	164	44	1	211
21	Mianwali		***	496,291 316,243	2	7	8,852	9,020 6,411	102	592 172	2	1	90	29	2	179
1	MULTAN		 ION.	010,243		7		0,411	102	172	2	1	90	8	2	103
23	Montgomery			479,837	585	44	383	7,497	22	185	3		101	85	1	251
24	Lyallpur	***		863,900	314	97	3,875	11,920	210	400	:		298	33	6	338
25	Jhang			475,527	5	5	1,612	6,185	193	546	1	1	16	66	4	88
26	Multan			709,294	1	46	2	12,405	118				227	115	1	843
27	Muzaffargarh			547,005	5	18	112	11,133	5.5	86	2	3	153	100	8	266
28	Dera Ghazi Kh	an	•••	463,304	16	1		7,612	105	259	3	2	91	52		151
1									-			-		-		
	Total of the P-	m1 (1)	alan .	17 500 000	18.004	1.705	217 507	961 510	0.000	07 75					-	
	Total of the Ru	ear Circ		17,800,802	12,234	1,485	211,501	261,519	9,215	37,784	80	139	4,573	1,357	83	6,232
200		-		100	730		91	Times.	10,0		-	-			-	-

No. VI.

(RURAL CIRCLES) OF THE PUNJAB DURING THE YEAR 1915.

	11	12				1	13				14		15
-		angul		1	CATIO OF	DEATHS PE	n 1,000 or	POPULATIO	N.		FROM ALL	CAUSES.	
	All other causes,	Total deaths from all causes.	Cholora,	Small-poz.	Plague.	Fev. rs.	Dysentery and Diarrhona,	Respiratory siscuses.	Injuries.	All otler causs.	For the year,	Mean ratio of previous five years.	Number.
	16	17	18	19	20	21	93	23	24	25	28	27	28
-													-
-	3,865	19,795	1.03	C·13	376	15-24	0.36	1708	C·37	5 33	27:30	31.26	,
-	5,220	15,792	05:0	0.02	1'45	12.05	0-21	1.36	0.47	7.98	24.14	38.94	
	6,536	16,092	0.50	0.03	1 53	9142	0:49	1.53	0.20	9.68	23-83	45-5	
	6,154	22,423	0.80	0.03	4.34	15:39	0.23	1.28	0:41	8.20	30.08	42.02	
ŀ	3,277	19,691	0.13	0.7	9.03	13:12	071	5:19	0:21	548	34.12	86.58	
-	117	857	0.00			7-55	2 24	4.80	0:31	7:30	22 26	23-21	
	5,578	23,792	1.00	0.001	C*03	17:49	1.61	8-52	0.50	7:33	31.28	29-18	
	4,018	34 257	0.09	0.03	15:36	17:07	U-02	2.13	0.58	4:65	20.20	83-73	1
	3,990	32,9: 8	C-01	0.04	23'45	13.28	0.52	4'14	0/31	5-77	47'57	31.38	
	4,382	18,116	1.02	0.25	15'30	11:24	0.53	2.25	0.32	9.78	40.42	\$5.13	1
	8,586	30,501	3 23	0.42	5.19	18.90	0.38	1.67	0.:3	9.77	34:71	30:36	1
l	5,824	20,168	3:13	0'42	11:43	15:39	0.33	1.03	0:36	7.68	89.76	29-89	1
	5148	28,654	6*95	0.18	23'43	18-84	0.84	2:48	0.28	7:24	54'33	38-16	1
	570	36,452	0.07	0.02	21.59	12 65	0'92	10.22	0'27	0.73	46*47	34.84	)
	3,715	40,566	C-05	0.01	24:48	13 43	1.01	3.81	0'29	4 34	47:42	82-64	1
1	4,002	36,553	0.20	0.001	19-29	17:21	0°24	0.52	0 52	4:77	43-57	31 80	1
	2,612	40,055	1.70	0.01	37-59	10.76	0.38	2.61	0.53	3.72	56-99	26-27	1
	4,070	21,050	0 35	0.06	13 76	10-93	0.84	1.08	0.42	6:45	23:36	24-22	1
l	2 376	23,928	0.10	0.002	28 63	13-29	0.29	2.07	0.40	4:94	49-71	26 40	3
l	1 421	27,340	0.35	0.004	31.26	18:41	4:04	1.90	0.46	3.09	59 48	29 07	2
l	1,873	20,550	0 004	0.004	17:84	18-17	0.06	1.19	0.36	3.77	41:41	26 75	2
۱	1,293	8,088		0.02		20 27	0.33	0.24	013	4.09	25'58	25.49	1
	2,247	11,214	1.22	0.00	C-80	15 62	0:05	080	0 52	4.68	23-37	20-57	2
1	5 048	22,202	0.36	011	4'49	13.80	0.24	0.46	0 9	5.84	25.70	24 53	2
1	29.0	11,544	0.61	0.01	3:39	13.01	0'41	1:15	0 19	6:12	24.28	21 53	94
	8,068	15,983	0.001	0.06	0.002	17:49	0.17		0.48	4:33	22-53	23 38	2
1	973	12,648	0.01	0.03	0.20	20.35	0.10	0.6	6 49	178	23.12	26'45	2
1	533	8,677	0:03	0 002		16.43	0.23	0.26	0.83	1 15	18-73	21-20	2
-		-	7	1	70	-				T			
1	99,406	639,376	070	0.08	12.02	14.87	€.25	2.15	Cr35	5.65	36:35	39:83	1

ANNUAL FORM

### DEATHS REGISTERED FROM DIFFERENT CAUSES IN THE TOWNS

1		2		3	4	5	6	7	8	9				10		
	200000000000000000000000000000000000000			3			0001						Isa	URIES.	-	-
				according 311.					rrbon.	163.	Sui	oide.				
	В.—	Towns.		of 1911.	1 8				and dia	y diseas		T	d secid	and killed beasts.		
	1			Population acco	Cholera.	Susall-pox-	Plague.	Fevers.	Dysentery and diarrhosa.	Respiratory diseases.	Males.	Females.	Wounds and accidents.	Snake-bite by wild b	Rabies.	je j
- N		2	_		5	5	-6	7	- B	9	10	11	12		-	Total.
		-			-	-			-		-	-		13	14	15
	HISSAR	PISTRI	ICT.				15	- 12	-							
1 2	Hissar Hansi	***		17,162 14,576	1	3	18	208 168	23 37	50 59		1	4 3	2		7
8 4 5	Bhiwani Sirea Fattebabad			31,100 14 629 2,406	27	1	191	315 193 15	76 22 2	122 51 5		1				8 1
	ROHTAK	DISTR	ICT.				100	and the same	25		100				2.3	
6	Rohtsk			19,862	33 16	1	8	238	29	71			1	***		1
8 9	Jhajjar Beri Golana			10,617 7,798 5,438	1 111		63	108 103 72	10 7 10	46 13 34		 1	5 4 1	2 2		6
10	Bahadurgarh Sonepat	***		4,990 12,014				74 180	14	12 28			2 3	1		2 6 4 2
	GURGAON	DISTR	ICT.					15.11								
12 13	Rewari Palwal	***		24,780 9,485			2	10 73	66 15	142 49		2	4 1		ï	6
14	Firezpur Hodal	***		5,719 5,468			91	58 54	6	7			2		-	3 2 1 3
16 17	Ballabgarh Faridabad			4,053 4,487		7		45 £2	7 7	14 22	1		3			3
18	KARNAL	DISTRI	2000	199-							12					
19 20	Karnal Kaithal			21,018 12,912	13	3 8	61	342 218	27	61			3	"1		3 2
21 22	Fanipat Shahabad Thanesar			26,342 11,054 4,719	23		233 34	806 63 45	29 6 15	125 38 24			9 1 3		-	3 9 1 3
	ANBALA			3,120			Transit I									3
23 24	Amb-la Jagadhri		-	24,493 12,045	13		29 119	260 255	73 35	175 58		1	4 2		1	6
25 26	Burya Sadhaura			4,272 7,774			3 49	74 51	5 17	16 87				1	-	
27	Bupar SIMLA I			6,935	10	1	86	54	24	43				î		1
28	Simla			18,934	1			148	5	40	1		3			4
	KANSRA	DISTRI	CT.													
29 30	Kangra Dharmeala			2,620 2,518	1 13		-	31 15	21	23 15			1 2	1		2 2
	HOSHIARPU	R DIST		150	1 5		100			13334	13				100	
31	Hoshiarpur Hhanpur			16,980 2,523	3	1	65	232	11	133 16	1		13		1	15
33	Hariana Garhdiwala	***	***	5,395		-	60	100		9	-		1			1
35	Dasuya		***	3,093			45	78	1	18 23			2			2
36	Tanda Urmar Misni		***	7,016 4,870			38	63		30 14			2	***		3
88	Mukerian Una	***	***	2,053 4,178	1	***	31 79	26 48	***	10			3	1		4
	Anandpur	=		4,041			1	49		7 4			1			1
4	JULLUNDUI			*****			000	FOI				10	1		174	
42	Jullandur Kartarpur	***	=	57,354 8,631	14	4	888	521 84	144	397 68		-	15	,	1	16
	Bungah Rahon			4,602 6,292	-	,	81	49 96	9	17 21		1	2	***		8
45	Phillaur		1	5,224	***	5	50	60	4	33			3			3
	Nurmabal Nakodar			7,178 8,859		5 2	142	81 120	35	59 48	-		- 5	1		6

No. VI. OF THE PUNJAB DURING THE YEAR 1915.

11		12		0	8	7	0	13			-		14
		anses.				RATIO OF	DEATHS P	ER 1,000 or	POPULATIO	os.			
		n all ce	latte.				diar-	Macs.			From all		
Ail other causes.	L L L L L L L L L L L L L L L L L L L	Total deaths from all causes	Cholera.	Small-pox.	Plague.	Fevers.	Dysentery and rhea.	Respiratory diseases.	In juries.	All other causes.	For the year.	Mean ratio of previous five years.	No.
16		17	18	19	20	21	22	23	24	25	26	27	28
. :	282 250 530 177 15	575 537 1,246 471 38	0.06 0.07 0.26 1.85	0°17 0°03 0°42	0°06 1°23 6°14 	12·12 11·53 10·13 13·19 6·23	1.34 2.54 2.44 1.50 0.83	2-91 4-05 3-92 3-49 2-08	0.41 0.27 0.10 0.07	16:43 17:15 17:04 12:10 6:23	33°50 36°84 40°06 32°20 15°79	42:42 38:21 41:00 36:98 31:75	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	243 115 66 81 37 140	624 300 196 875 130 317	1.66 1.51 0.13 20.41  0.08	0.05	0.40  11-59 	11:98 10:17 13:21 13:24 14:83 10:82	1'46 0'94 0'90 1'84 0'80 1'17	3:57 4:23 1:67 6:25 2:40 - 2:33	0.05 0.47 0.77 0.74 0.40 0.33	12:23 10:83 8:46 14:90 7:41 11:65	31·42 28·26 25·13 68·96 26·05 26·39	38·71 36·64 36·14 50·53 43·21 50·67	1 1
	367 149 65 101 48 50	595 291 139 268 127 132	0.16	1-73	0.21 16.64 	0:40 7:70 10:14 9:88 11:10 11:59	2:66 1:58 1:05 2:01 1:73 1:56	5.73 5.17 1.22 1.83 3.45 4.90	0°24 0°32 0°35 0°18 0°74 0°22	14:81 15:71 11:54 18:47 11:84 11:14	24-01 80-68 24-30 49-01 31:33 29-42	36-94 72:35 44:17 56:40 54:58 49:34	
	244 198 384 133 44	725 566 1,439 479 165	0.43 1.01 0.87	0.23 0.30 0.45	0.95 4.72 21.07 21.08 7.20	16:27 16:88 11:62 5:70 9:54	2·19 2·09 1·10 0·54 3·18	2·90 3·41 4·75 8·44 5·09	0°14 0°15 0°34 0°09 0°84	11.61 15:33 14:58 12:03 9:32	34·49 43·84 54·63 43·33 34·97	46:53 53:36 52:00 40:03 40:39	
	160 140 62 60 71	716 610 160 276 290	0.53 0.42  1.44	  0.14	1:18 9:88 0:70 6:30 12:40	10·62 21·17 17·32 6·56 7·79	2.98 2.91 1.17 3.47 3.46	7°14 4°40 3°75 11°19 6°20	0°24 0°25  0°26 0°14	6.53 11.62 14.60 7.72 10.24	29:23 50:64 37:45 35:49 41:82	85°53 41°76 42°04 45°28 34°52	
	135	383	0.02			7.82	0.26	2-11	0.31	7:13	17-59	20.62	
	23 19	101 65	0:28 5:16			8·56 5·96	5-80 0-40	6:35 5:96	0°55 0°79	6 35 7 55	27-90 25-81	28'84 22'56	
	133 23 10 23 39 27 29 22 30 27	593 78 180 89 180 244 144 94 165 82	0·18	0.06	3·83 4·36 11·12 2·91 12·51 5·42 6·78 15·10 18·91 0·25	13-66 11-10 18-54 11-64 20-02 20-24 12-94 12-66 11-49 12-13	0.65  0.32 0.28 	7-83 6:34 1:67 5:82 9:39 4:28 2:87 4:87 1:68 0:99	0°88 0°19 0°65 0°29 1°95 0°24 0°25	7'83 9'12 1'85 7'44 10'84 3'85 5'95 10'72 7'18 6'68	34 92 30 92 33 36 28 77 50 04 34 78 29 57 45 79 39 49 20 29	37'54 43'68 38'59 84'34 54'49 40'79 37'25 60'20 40'11 30'14	
	357 71 51 26 51 59 62	2,341 390 210 175 206 361 399	0.52	0.07  0.16 0.96 0.70 0.23	16:04 16:68 17:60 2:54 9:57 19:78 17:61	9:41 9:73 10:65 15:26 11:49 11:28 13:55	2-60 2-09 1-96 2-07 0-77 4-88 0-56	7:17 7:89 3:69 3:34 6:32 8:22 5:42	0°29 0°46 0°65 0°32 0°57	6:45 8:23 11:08 4:13 9:76 8:22 7:00	42*29 45*19 45*63 27*81 39*43 53*08 45*04	33.71 44.61 37.20 38.18 38.36 28.67 29.48	

ANNUAL FORM
DEATHS REGISTERED FROM DIFFERENT CAUSES IN THE

1	2	3	4	5	6	7	8	9				10		11
-		3	10/50	15 650	HEATE.	or charge					Isa	URIES,		
	B.—Towss.	according 1911.			outs tra		Dysentery and diarrhora,	discuses.	Sui	oide.	accidents.	and killed sasts.		
No.		Population acc Consus of 1911.	Cholera.	Small-pox.	Plague.	Fevers.	Dysentery a	Respiratory discuses.	Males.	Females,	Wounds and accidents	Snake-bite and l. by wild beasts.	Rabies.	Total,
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	LUDHIANA DISTRICT.													
48 49 50 51	Ludbiana Jagraon	43,152 15,039 7,510 3,319	8 6 7 11	17	550 328 251 42	675 152 36 30	83 23 3 1	\$07 89 27 17	1	1111	17 5 2 		3	19 8 2
52 53 54 55 56	Ferezep re	24.678 4,378 5,859 8 834 10,985	23 27 4 	<sub>1</sub> <sub>2</sub>	86 1 53 31 28	266 52 29 81 129	41 1 4 23 15	89 8 22 12 43		11111	 1 1 1		1.1111111	1  1 2 2
57 58 59 60 61 62	Lahore	210,271 7,151 2,992 24,753 5,732 7,987	86 9 5 135 35 14	6 1 4 2 1	180 3 45 207 94 55	3,908 96 43 374 38 99	337 25 10 66 8 22	1,045 21 7 115 43 30	4	1	98 2 2 14 2 1	3 1  1	···	106 3 2 16 4 1
	AMRITSAR DISTRICT.										127		200	
63 64 65 66	Amritsar Majitba Jandiala Tarn Taran	151,339 5,223 6,959 4,260	90 12 2 4	32 1 5 1	724 53 125 45	2,339 57 124 34	330 21 10 18	2,185 20 22 25	5		81 3 1 1	1	1	88 3 1 1
	GURDASPUR DISTRICT,		1					153					10	
67 68 69 70 71 72	Gurdaspur Dina Nagar Pathankot Dalbousie Batala Dera Nanak	5,133 4,154 7,007 978 26,430 4,556	3 4	1 1  32	84 10 63  281 13	50 94 72 4 402 47	12 8 30 3 44 18	71 83 66 18 257 45	`i		1 1 1 11 2		::::::	1 2  1 12 2
	SIALKOT DISTRICT.			81-19		ET I								
73 74 75 76 77 78 79 80 81 82 83 84 85 86 87	Sialkot Daska Jamke Pasrur Zaffarwal Narowal Sambarial Sahowala Begowala Bhopalwala Mifranwali Endomali Kalaswala Paud Chawinda	48,595 f,046 3,542 7,564 3,633 4,464 6,285 8,518 3,788 3,788 3,183 2,815 2,915 3,481 4,695	6 1 		264 28 63 79 91 7 14 75 27 49 1(0 27 42	449 41 27 72 27 52 58 2* 59 23 54 30 13 46 29	128 14 11 10 12 3 13 15 8 5 10 2 10	437 30 12 58 25 38 19 11 16 22 20 8 32 7	1		17 8  3 3  1  2  1  1		1	19 3  4 5  1  2  2
	GUJRANWALA DISTRICT.	857				33		1370			123	F		
88 89 90 91 92 93 94 95 96 97 98 99 100	Gujranwala Wazirabad Eminabad Kila Didar Singh Akalgarh Bamuagar Sohdra Hafizabad Khangah Dogran Pindi Bhattian Sangla Sharakpur Shahkot	28,637 17,146 5,526 2,210 3,943 5,256 4,666 5,742 1,267 3,631 980 4,482 1,054	18 2	1	248 135 107 18 8 86 60 24 1 21 5 189 10	454 247 98 23 26 64 99 45 7 34 19 35 6	51 29 7 3 2 10 1 5 1 1  5	135 59 39 11 13 20 8 14 2 11 1 6	2	3	20 3 3 1 1 3 2 1 1 1 1			25 3 3 1 1 3 2 1 1 1 1

No. VI - CONTINUED.

## TOWNS OF THE PUNJAB DURING THE YEAR 1915-COMPINUED.

,	11	12		7 0			1	3			-	-	14
		UDBOB.			R	ATIO OF D	EATHS PER	1,000 or 1	POPULATION.		- Landing		
		n all ca	No.				pae				From all	causes.	
	All other causes,	Total deaths from all causes.	Cholera,	Small-pox.	Plague.	Foreis,	Dysentery diarrhons.	Bespiratory diseases,	Injuries.	All other causes,	For the year.	Mean ratio of previous five years.	No.
1	6	17	18	19	20	21	22	23	24	25	26	27	28
	319 159 81 35	1,978 765 407 136	0°19 0°40 0°93 3°31	0.30	12:75 21:81 33:42 12:65	15·64 10·11 4·79 9·04	1.92 1.53 0.40 0.30	7 <sup>-</sup> 11 5 <sup>-</sup> 92 3 <sup>-</sup> 60 5 <sup>-</sup> 12	0:44 0:53 0:27	7:39 10:57 10:79 10:55	45.84 50.87 54.19 40.98	31.79 35.12 38.30 52.97	48 49 50 51
	161 42 88 189 223	017 132 201 288 442	0 93 6 17 0 68 	0°23  0°18	1'46' 0'28 9'05 8'51 2'55	1078 1188 495 918 1174	1.66 0.23 0.68 2.60 1.37	3-61 1-63 3-75 1-96 3-91	0.04  0.18 0.23 0.18	6.52 9.59 15.02 15.73 20.30	25 00 80 15 34 31 32 60 40 24	22:49 34:72 37:21 30:27 36:19	52 53 54 55 56
	1,394 79 83 275 73 88	7,062 237 149 1,190 295 304	0.41 1.26 1.67 6.45 6.11 1.75	0°03 0°14 1°34 0°08 0°17	0:86 0:42 15:04 8:35 16:40 6:89	18:59 13:42 14:37 15:09 6:63 12:40	1.60 3.50 8.84 2.66 1.40 2.75	4:97 2:94 2:34 4:64 7:50 8:76	0.60 0.42 0.67 0.65 0.70 0.13	6.63 11.05 11.03 11.10 12.56 10.39	83.59 83.14 49.80 48.02 51.47 88.06	31.76 37.20 33.09 29.49 29.48 33.33	57 58 59 60 61 62
	775 69 59 43	6,583 228 348 170	0.59 2.30 0.29 0.14	0°21 0°19 0°72 0°23	4.78 10:53 17:96 10:56	15.59 10.91 17.82 7.98	2-18 4-02 1-44 4-23	14:44 8:83 3:16 6:87	0.58 0.57 0.14 0.23	5·12 11·30 8·48 9·86	43:50 43:65 50:01 89:91	39:26 39:75 35:18 29:81	63 64 65 66
	18 26 37 1 58 18	183 177 208 27 1,090 143	039 072  015	0°24 0°14 	6.62 2.41 8.85  10.63 2.85	9:74 22:63 10:28 4:26 15:21 10:32	2:34 1*93 4:28 3:20 1:66 3:95	13:83 7:94 9:42 19:19 9:72 9:88	0°19 0 48  1°07 0°45 0°44	3:51 6:26 5:28 1:07 2:19 3:95	36·63 42·61 38·25 28·78 41·24 31·39	25-03 48-48 95-65 57-78 43-82 28-49	67 68 69 70 71 72
The same of the sa	379 48 19 24 8 23 11 126 13 18 21 21 7	1,682 165 134 247 168 123 116 152 124 112 207 75 104 69 238	0-12 0-17	0.27	5 43 4 63 18 35 10 44 25 05 1 57 2 23 21 08 7 17 14 69 31 42 9 69 14 41 34 08	9°24 6°78 7°62 9°52 7°43 11°65 9°23 6°46 15°66 6°89 16°97 10°66 4°41 13°21 6°18	2·63 2·82 3·11 1·32 3·30 0·67 2·06 4·22 2·12 1·50 3·14 0·71 8·43 0·29 1·28	8:99 4:96 3:39 7:67 6:88 8:51 3:02 3:09 4:25 6:59 6:28 2:84 1:098 2:01 7:24	0°39 0°50 0°58 1°38 0°16  0°63  0°34	7'80 7'94 5'36 3'17 2'20 5'15 1'75 7'31 3'45 3'90 6'60 2'84 2'64 2'64	34·61 27·29 37·83 32·65 46·24 27·55 18·46 42·72 32·91 33·67 65·03 26·64 35·68 19·82 50·19	25'97 30'40 43'70 37'44 30'39 35'89 35'89	73 74 76 76 77 78 80 81 81 84 84 86 87
	242 128 41 9 8 46 22 20 11 20 2 30 2	65 58 229 201 111 23 89 36 274	0.63 0.36  2.36 0.17 0.28 8.16 0.45	0.03	8-66 7-87 19-36 8-14 2-03 16-36 12-86 4-18 0-79 5-78 5-10 42-17 9-49	15:65 14:41 17:73 10:41 6:59 12:18 21:22 7:84 5:52 9:36 19:39 7:81 5:69	1.78 1.69 1.27 1.36 0.51 1.90 0.21 0.87 0.79 0.28 	4-71 3-44 7-06 4-98 3-30 3-81 1-71 2-44 1-58 3-03 1-02 1-34 0-95	0°87 0°17 0°54 0°45 0°25 0°57 0°35 0°79 0°28 1°02 0°22	8:45 7:47 7:42 4:07 2:03 8:75 4:71 3:48 8:68 5:51 2:04 8:03 1:90	41'00 35'05 53'75 29'41 14'71 43'57 43'08 19'33 18'15 24'51 36'73 61'13 19'92	37·62 51·02 29·54	8 9 9 9 9 9 9 9 9 9

ANNUAL FORM

# DEATHS REGISTERED FROM DIFFERENT CAUSES IN THE

1	2		3	4	5	6	7	8	9	1			10		12
-			2	1	-		1					I	NJURIE	8.	
No.	B.—Towns,	The same of	Population according Census of 1911.	Cholera.	Small-pox.	Plague.	Fovers.	Dysentery and diarrhua.	Respiratory diseases.	Males.	Females.	and accide	Snake-bite and killed	Rabies.	Total,
1	2		3	4	5	6	7	8	9	10	11	12	13	14	15
101 102 103 104	GUJRAT DISTRI Gujrat Jalalpur Kunjah Dinga		18,692 11,615 7,090 5,351	50		127 4/ 65 200	3 134	20	2 79		***	10	***		"1
105 106 107 108 109 110	SHAHPUR DISTR Shahpur Sahiwal Bbora Miani Khushab Sargodha	  	8,789 7,658 15,202 5,819 10,159 8,849			128 62 44 42 284 42	103 255 95 81	32 4 33	14 63 24 40	-		 11 6 3			12 6 3
111 112	JHELUM DISTRU Jhelum Pind Dadan Khan RAWALPINDI DIST		12,298 10,590	2	==	83 21	103 163			1		11 3	,		12 4
113 114	Rawalpindi Murree		48,943 1,961	33		143	612 41	104			-	27	2	1:1	29
115 116	Pindigheb		9,045 9,950				183 141	2 8	16 46	 1	***	1	1		2 2
	MIANWALI DISTRI Mianwali Bhakkar Isa Khel Kalabagh MONTGOMERY DISTR		6,224 5,888 6,868 6,654	<sub>1</sub>			113 130 79 127	15  43 38	11 9 8 13			3 4 5			 3 4 5
123	Montgomery Kamalia Pakpattan		8,129 8,237 7,912	1	<sub>1</sub>	 70 200	121 184 150	4	19 9 15			3 3 2	 2 1		3 5 3
	LYALLPUR DISTRI Lyallpur Gojra JHANG DISTRICT		19,578 5,417	2		4 5	99		23						2
	Jhang-Maghiana Chiniot MULTAN DISTRIC		25,914 14,085		::	116 83	884 140	87 85	69 69				3		5
	Multan Shujabad MUZAFFARGARH D TRICT.		85,747 6,384	Ξ	33	172 1	1,319 148	209 14	1 1	1.1		17 3	6	::	23
131 132 133 134	Musaffargarh Khangarh Alipur Leiah Karor DERA GHAZI KHAN TRICT	   DIS-	4,119 3,349 3,312 8,173 3,503	"1 			70 93 74 122 94	7 10 1 6 1	6 6 3 12 4		:: ::	<sub>1</sub>	:: <sub>1</sub>	:::::01	 2  3
136 137 138	Dera Ghazi Khan Jampur Dajal Rajaupur Kot Mithan		16,853 6,517 6,893 3,704 2,589		  		169 96 106 62 49	36 17 11 13 2	11 16 36 7 8			2  2		11111	2  2 1
122	Total Total of the Province	-	9,337,146	962 13,196	1,694	10,465	23,265	3,343	9,409	102	12	5,136	1,106	98	6,893

TOWNS OF THE PUNJAB DURING THE YEAR 1915-concluded.

	11	12				301010		13					14
	-	sos.			America	RATIO (	P DEATHS	РВВ 1,000	OF POPULAT	TON.			
	8	all can			3	Shirten	liart-	100.			From al	l causes.	
No.	All other canses.	Total deaths from all causes.	Cholera,	Small-pox.	Plague,	Ferers.	Dysentery and diarr- hora.	Respiratory diseases,	Injuries,	All other causes.	For the year.	Mean ratio of the previous five years.	No.
	16	17	18	19	20	21	22	23	24	25	26	27	28
	123 52 69 13	685 332 294 273	0°32 0°09 7°05		6-79 3-96 9-59 38-31	14°07 11°54 5°64 5°23	1.77 1.72 3.10 0.56	6:58 6:80 6:21 4:49	0·53  0·14	6-58 4-48 9-73 2-43	36.65 28.58 41.47 51.02	32·60 32·65 31·11 20·26	101 102 103
	36 76 169 80 86 20	238 262 575 252 126 125	0.52 0.17 	0.11	14.65 8.10 2.89 7.22 27.96 4.75	6°06 13°45 16°77 16°33 7°97 4°75	1°37 0°39 2°10 0°69 3°15 0°23	0.92 1.83 4.14 4.12 3.94 1.70	0°79 1°03 0°30 0°45	4·12 9·92 11·12 13·75 8·47 2·26	27·23 34·21 37·82 43·31 51·78 14·13	17-32 32-67 35-51 36-02 33-35 not avail- able.	100 100 100 100 100
	105 81	350 843	0.16	::	2:68 1:98	8-38 15-39	1.54 8.97	6·18 3·02	0.88	8:54 7:65	28°46 32°39	31·57 86·11	111
	438	1,721 88	071	:::	8.07	13·12 30·12	2:23 17:63	7.76 9.55	0-62 0-73	9-39 6-61	86-90 64-66	\$8-03 31-15	11:
	48 56	251 261	G·10		1-21	20°23 14°17	0°22 0°80	1.77 4.62	0°22 0°20	5-31 5-63	27-75 26-23	88°06 26°01	110
	23 45 11 40	162 188 145 223	0.19	=	0.18	18:16 24:13 11:50 19:09	2:41 6:26 5:71	1.77 1.67 1.16 1.95	C·56 0·58 0·75	8.53 8.35 1.60 6.01	26-03 34-89 21:11 33:51	21.58 86.34 24.84 34.05	111 118 119 120
	50 93 39	200 865 409	0.13	0°25  0°13	8.50 25.28	14°88 22°34 18°96	0 49 0 49 	2 <sup>-34</sup> 1 <sup>-09</sup> 1 <sup>-90</sup>	0°37 0°61 0°38	6·15 11·29 4·93	24-60 44-31 51-69	19 <sup>-</sup> 90 32·24 26·62	121 12: 12:
	38	182 13	0.10	0:15	0.50 0.83	5.08 0.74	0-58	1·17 0·18	0.10	1.94 0.55	9°30 2°40	15.83 not avail- able,	124
	893 294	1,055 553	0.04		4·48 2·34	14·82 9·94	3·36 2·48	2-66 3-55	0°19 0°07	15·17 20·87	40°71 89°26	34'41 42'84	126
19	1,085	2,842 213		0.38	2-01 0-16	15-38 23-37	2:44 2:21	0°01 0°16	0°27 0°47	12.65 6.63	88°14 83°63	30-76 33-82	128 129
	16 30 32 72 29	99 140 112 212 132	0.30		  0.29	16-99 27-77 22:34 14:93 26:83	1.70 2.99 0.30 0.73 0.29	1:46 1:79 0:91 1:47 1:14	0.86 	3'88 8'96 9'66 8'81 8'28	24.03 41.80 33.82 25.94 37.68	29-91 41-45 36-90 29-51 37-40	130 131 132 133 134
	73 88 16 22 2	291 167 169 106 63		0.06		9.97 14.73 15.38 16.74 18.93	2:14 2:61 1:60 3:51 0:77	0.65 2.46 5.22 1.89 3.09	0·12  0·54 0·39	4:33 5:83 2:32 5:94 0:77	17-27 25-63 24-52 28-62 24-33	22°20 27°28 30°26 34°77 37°08	135 136 137 188 139
_	4,860	63,174	0.22	0.13	5-99	13:32	1.91	5-89	0:38	8-51	36:17	34'97	
11	4,266	702,550	0.68	0.09	11.48	1473	0.65	2'44	0.36	6-91	86.33	31.25	

### xxvi

### APPENDIX TO ANNUAL FORM No. VI B.

# DEATHS REGISTERED IN THE CANTONMENTS OF THE PUNJAB, DURING THE YEAR 1915.

15																		44	100	
			Sensus	170	12.84	1 10 1	POLT IN	1 3 8 7	75	2773	Is	JURII	18,				-ndod	g the	-ndod	
	Augusta II		the C		-			,	9.1	Sui	cide.		d uy			nses.		during	Jo of	
No	CANTONMI	INTS,	ling to					arrhos	163.			lents.	killed			all ca	1,1 sec	registered	0'1 a	No.
	Hill		Population according to the Census of 1911.			200	7 8	Dysentery and Diarrhose,	Respiratory diseases	١.		Wounds and accidents.	and ste.		auses.	Total deaths from all causes,	Ratios of deaths per 1,000 of	is regi	of births per 1,000 n.	
	200	50.03	ilation 1911.	era,	Small-pox.	'ae.	ź	mtery	iratori		Females.	nds an	Snake-bite s wild beasts.	1	All other causes	I deatl	tios of d	Total births year.	Ratio of b	
_	1	16	-	Cholera,	-	Plague.	Fevers.	-	-	Males.	-	Won	oo_	Total.	-		Rati	-		_
	2	200	4	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	Ambala		54,223	4	1		347	18	119			10		10	443	942	17	1,204	22	1
2	Kasauli		3,194								***	10	9	1				72	23	2
	1945	***	12181				19	3	8	***	***	-		9	27	66	21		100	
3	Dagshai		2,032	1	-		4	3							32	40	20	24	17	3
4	Sabathu		1,847	***			19		1		***	***			11	31	17	35	19	•
5	Jatogh		471					2				2		2	9	13	28	7	15	5
6	Dharmsala		3,700	9			38					1		1	11	59	16	37	10	6
7	Juliundur	-	13,964	1		46	73	2	98			1		1	28	219	18	153	11	7
8	Ferozepore		26,158	19		56	332	25	87	1		7		8	195	723	28	746	29	8
9	Lahore		18,416	3			162	12	57	2		5	1	8	73	315	17	266	14	9
10	Amritsar		1,417				18		5						9	32	23	40	28	10
11	Dalhousie		644				2		5						10	17	26	9	14	11
12	Bakloh		3,566				20	15							5	40	11	70	20	12
13	Sialkot		16,274			7	60	33	78			1		1	79	258	16	290	18	13
14	Jhelum		7,380				2	1							4	7	1	3		14
15	Rawalpindi		39,841			5	317	5				2		2	47	376	9	430	11	15
16	Campbellpur		3,357				18		***	***	de-				2	20	6	20	6	16
17	Murree		344	4			7	2		-		_			18	31	90	28	110	17
18	Barian*		30		1		2003 020			10			18		1	1	33	5	167	18
19	Attock		630					-1										1	2	19
20	Multan		1199				***	1		***	-	-				133		98	7	20
20	autau	-	13,496	1	-		78	1	3	-		-			50	100	10	98	1	
-			-			0	20		13	100	10.		-	11	10 9		1		1	- 4
						57				-				T		91			THE STREET	
			179		0	2	-	-	10					1			F	000	9	
	Total		210,984	42	1	114	1,516	122	461	3	-	29	10	42	1,054	3,352	16	3,558	17	11
-				-	-			-		-		-	-	1			-			_

### xxvii

# ANNUAL FORM No. VII.

# DEATHS REGISTERED FROM CHOLERA IN THE DISTRICTS OF THE PUNJAB DURING EACH MONTH OF THE YEAR 1915.

1.	2		3	- 1								5							6			7		8	9
100	1112	REC	LES OF HSTRA- ON,	VILLA	GES.					731	Mo	STES.	7270	200					TOTAL		P1	OF DE	OF	ious five	
No.	Districts.	Number in each district.	Number from which deaths from cholera were re- ported.	Number in each district.	Number from which deaths from cholera were re- ported.	January.	February.	March,	April.	May.	June,	July.	August.	September.	October.	November.	December.	Males.	Females.	Total.	Males.	Females.	Total,	Mean ratio per 1,000 for previous years.	No.
1	3	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	20
	AMBALA DIVI-				-											Г		-							
1	SION.	27	10	963	55		-		13	236	384	123	29			-		412	373	785	0-94	1-02	0.98	0.003	
2	Rohtak .	19	15	731	40			-	18	275	254	9						312	244	558	0-81	0.74	0.78	0.07	
3	Gurgson	24	11	1,387	18					51	40	27	26		-81		140	82	62	144	0-21	0 18	0.20	0.17	
4	Karnal	25	17	1.583	94		-		28	122	242	196	30	6				385	259	624	0-83	0.73	0.78	0-13	
8	Amba'a	19	11	1,715	12			-	13	17	25	35	7	107				59	58	97	0.17	0.14	0.15	0:10	1
	Simla	8	,	13	1		-		1					1				1	1	2	o os	0.03	0.06	0.25	1
	JULLUNDUR DIVISION.		1				1				1				-						9.09	400			
7	Kangra	17	11	713	89	3		4	87	519	146		-	16				400	375	775	1.00	1.02	1.01	0.10	1
8	Hoshiarpur	34	11	2,108	22	-			11	35	5	2	8	1		-		34	28	62	0-07	0-07	0.07	C-17	
9	Jullundur	17		1,215	4	-	-		9	7			-		100			17	3	20	0.04	0.01	8-08	0 37	
10	Ludhiana	14	12	878	108	-			13	19	116	174	174	6				318	184	502	1:08	0.62	0.02	0-19	1
11	Ferezepore	34	21	1,500	246		-		28	970	1,181	449	202			1		1,670	1,220	2,800	3-21	296	3:10	0.18	2
	LAHORE DIVISION.			TE			1		100		118	Ť.			13		-						111		-
13	Labore	28	26	1,194	337	-		5	381	1,018	673	168	274	125	5	-	-	1,524	1,123	2,657	2:63	2.60	2.61	0.87	1
13	Amritaar	18	14	1,000	133	-		1	304	483	97	1		3	2	-	***	445	337	793	0-140	0.88	0-89	0.47	1
14	Gurdaspur	23	8	2,238	10		-	-	4	13	11	-	4	4	18	7		35	26	18	0.08	0.02	0.07	0.14	1
15	Sialkot	30	10	2,349	8				3	10	2	17	22	-	1		***	32	22	54	0 06	0.02	0.06	0.41	1
16	Gujranwala	30	27	1,756	63				14	210	122	150	17	29		100		260	182	542	0.60	0-45	0.59	0.07	1
1	DIVISION.								-						1										1
17	Gujrat	15	15	1,326	210		-			100	39	585	515	12			-	670	581	,,251	1.67	1.68	1.68	0.17	1
18	Shahpur	23		1,054	23				1	61	51	18	97	100			-	123	106	228	0.33	034	0.23	0.03	1
19	Jhelum	14	5	898	8			-		20	5	13	1	3	***	-00	-	25	25	50	0-10	0-10	0:10	0.02	1
90	Rawalpindi	16	10	1,177	46		-		7	31	13	2	91	41	tent		-	97	81	178	0.38	0:34	0.35	0-03	2
11	Attock	13	3	618	3	-		-	1	1	-	1	***	100	100	-	-	2	1	3	0.01	0.004	0.01	0.12	2
22	Mianwali	15	1	396		-	***	-				144		1			-		1	1	-	6-01	0.002	0-13	21
	MULTAN DIVISION.				65				-	83	118	138	150	73	3			317	270	587	1-15	1:18	1:18	0.01	21
13	Montgomery	21	9	1,348	7	**			23		93		96	2				201	115	316	0.40	0:30	0.36	0-14	24
14	Lyalipur	20	16	1,177	69		-		6	87	1	33		1			-	5	1	6	0.02	0.004	C-01	0.01	25
5	Jhang	13	3	955	3	-	-	-	3	1		1		1			-	1		1	61002		0.001	0.00	26
8	Multan	18	1	1,353	1	-	-	-	-	-		-						,		6	0.08	0-02	0:01	0.01	27
7	Muzafargath	23	3	900	2	***	-		1	5		***	-			-	-		11	16	0.02	0.02	003	0.08	
18	Dera Ghazi Khan	23	3	707	•		-		1	8			***	7		_	-	5	-1		0.02	0.00	0.0	0.05	28
}	Total for the Pro-	552	291	33,110	1,678	3		10	877	4,390	3,607	2,145	1,796	331	29	8		7,513	5,653	3,196	0.71	0.65	0 68	0.18	

ANNUAL FORM

# DEATHS REGISTERED FROM SMALL-POX IN THE DISTRICTS

1	2				3	-	4						5	
-	SE SELS.	21107			OF REGIS-	VILI	AGES.			110	- E	100	м	ONTHS.
No.	Distr	LICTS.		Number in each district.	Number from which deaths from small- pox were reported.	Number in each district,	Number from which deaths from small- pox were reported.	January.	February.	March.	April.	May.	June.	July.
- i		3		3	4	5	6	7	8	9	10	11	12	13
-	AMBALA	DIVISIO	N.	TIM	100		32 (43	12 1	1-2	100	200	8-17		1
1	Hissar			27	. 7	963	53	3		15	5	21	14	16
2	Rohtak			19	9	731	14	8	1		2	5	1	1
8	Gurgaen	***		24	7	1,367	12	1	1	4	11	8	8	
4	Karnal			25	14	1,382	23	3		3	7	6	6	6
5	Ambala			19	13	1,715	38	5	1	3	4	13	3	8
6	Simla			8		23								
	JULLUNDU	R DIVIS	10N.											
7	Kangra	***	***	17	1	713	1			1				***
8	Hoshiarpur	***	***	24	13	2,108	19	3	6	1	2	8	6	***
9	Juliundur Ludhiana		***	17	10	1,215	26	1	2	2	9	10	17	17
10	Ferozepore	***		14	21	858	97 218	20	1	7 24	22	68	89	80
11	rerozepore			29	21	1,500	218	20	15	25		08	69	00
	LAHORE	DIVISIO	N.								and a		200	
12	Lahore			28	23	1,194	137	6	7	17	23	44	82	46
18	Amritear			15	15	1,039	81	1	8	10	11	42	83	17
14	Gurdaspur	***		22	11	2,233	10		1	***	3	6	6	2
15	Sialkot			80	6	2,349	7		1	1			1	1
16	Gujranwala			80	2	1,736	1	***		***	1		***	***
1	RAWALPINI	DI DIVIS	ION.		12 2						1		-	The same of
17	Gujrat			15	5	1,328	5	1	***	2	1	1		
18	Shahpur			28	9	1,054	23	1	1	2	9	10	8	8
19	Jhelum			14	1	898	1				-			1
20	Rawalpindi			16	1	1,177	2	1		***			***	1
21	Attock			13	2	628	2					1	***	
22	Mianwali			15	5	296	7	1		255		1		3
1	MULTAN	DIVISIO	N.	-							1	4	B	WAR S
23	Montgomery			21	5	1,348	7	2	3	3	1	8	9	7
24	Lyallpur			20	16	1,277	90	6	7	6	10	20	14	17
25	Jhang			13	2	955	7		1		1			-
26	Multan			18	13	1,353	38	4	2	***	5	6	13	13
27	Muzaffargarh		1	23	6	860	8					5	4	3
28	Dera Ghazi Kha	n	10	23	3 -	707	1	***	1	***		1	1	
100			14			-		-	-	7		-		-
	Total for the	Frovince		552	231	33,110	924	64	59	101	131	306	262	244
-		-											100	

No. VIII.

OFTHE PUNJAB DURING EACH MONTH OF THE YEAR 1915.

3						6			7		8		9	10
Same		1				TOTAL.	15/7	DEATHS	BER OF AMONG DREN.	RATIO 1,000	OF DEAT	HS PER ATION.	or pre-	
Angust.	September.	October.	November.	Docember.	Males	Pemales.	Total,	Under one year.	Over one year and under ten years.	Males.	Females.	Total,	Mean ratio per 1,000 for pre- vious five years.	No.
14	15	16	17	19	19	20	21	22	23	24	25	26	'27	28
	1	17			11.30				13				30	
8	4	6	1	8	49	52	101	16	70	0.12	0.14	0.13	0.90	1
	1	1	1	2	12	6	18	6	6	0.03	0.02	0.03	0-12	2
	-	1		***	12	12	24	14	8	0.03	0.04	0.03	0.46	3
829.4	2	1	3	****	32	9	41	15	21	0.07	0.02	0.02	0.28	4
2	1	1	3	2	19	22	41	. 8	24	0.02	0.08	0.08	0.72	5
			-	5.0		-							0.19	6
12/33	14	09 1	TI	15.11	124 .	= ,	1	1	1	- 181	0.000	0-001	0:00	~
1					15	10	25	2	1 15	0.03	0.003	0.001	0.06	7 8
6	6	1	3		23	23	48	10	25	0.02	0.07	0.08	0.87	9
11	17	10	7	- 3	73	55	128	27	62	0.25	0.25	0.25	0.96	10
34	23	23	13	14	208	187	395	126	172	0:40	0.45	0.42	1.79	11
COL.	N.	122 -	Luc -		143	that "	Sec.		2 1			- North	mer la	
87	28	21	13	12	164	172	836	65	197	0.28	0.39	0.33	1.51	13
17	8	7	3	9	95	71	166	21	93	0.19	0.19	0.19	0.74	13
3	2	3	8	18	26	26	52	2	47	0.08	0.07	0.06	0.33	14
1	2			1	5	3	8	4	3	0.01	0.01	0.01	0.81	15
-	-			1	1	1	2	1	1	0.001	0.003	0.002	0.42	16
						All In				Store	1910.20	1275	ARDIO-	
100	Marie I	94		992	200	ALL!		11 1				1	table.	
-		1		***	2	4	6	2	3	0.004	0.01	0.01	1.10	17
CT.	1	1		***	21	15	36	12	22	0.05	0.05	0.02	1.28	18
1005	107		-		2	***	1 .		1	0.003		0.001	0.80	19
1	200			117	1	1	2 2		2	0.003	0'004	0.003	1.35	21
	1	1			1	6	7	1	4	0.01	0.04	0.03	0.21	22
1	100							4						
		1			1000					frh C	-	Day of		
2	1	2	5	4	24	23	47	11	26	0.09	0.10	0.09	1.66	23
7	3	7	1	2	58	42	100	18	61	0.13	0.11	0.11	1.30	24
	1	2		-	1	4	5	2	1	0.003	0.03	0.01	0.82	25
6	4	5	16	9	35	48	83	14	40	0.08	0.13	0.10	0.34	26
4	-	2			7	11	18	1	5	0.05	0.04	0.03	0.48	27
-			***		1	2	3	1	1	0.003	0.01	0.01	1.07	28
144	105	96	77	85	888	806	1,694	379	911	0.08	0.09	0.09	0.82	
	1													

ANNUAL FORM
DEATHS REGISTERED FROM FEVERS IN THE DISTRICTS OF THE

1	0	2			3		4						6
	1		DOLE .	CIRCL	BATION.	VIL	LAORS.		1		-		Момтия.
No.	Dia	stricts.		Number in each dis-	Number from which deaths from fevers were reported.	Number in each dis- trict,	Number from which deaths from fevers were reported.	January.	February.	Narch.	Agril.	Жау.	June.
1		2		3	4	5	6	7	8	9	10	11	12
7 0	0 000		0.00	Total I	31	-	41			-	-	-	-
1	AMBALA		809	27	27	963	002	1,156	801	1,032	979	1,198	1,144
2	Rohtak	000	200	19	19	731	963	724	513	541	650	1,180	868
3	Gurgaon		7000	24	24	1,367	0	706	375	440	483	713	618
4	Karnal	00.0	380	25	25	1,382	1,153	1,265	978	1,047	771	995	1,051
5	Anbala			19	19	1,715	1,671	786	666	666	594	774	747
6	Simla		1	3	3	23	22	17	16	17	29	38	27
1	JULLUND		ISION.	1	2 21	-		1.	10		1		1
7	Kangra		200	17	17	713	706	882	749	909	858	1,441	1,178
8	Hoshiarpur	100	167	24	24	2,108	2.091	1,323	1,107	1,199	1,381	1,656	1,397
9	Jullundur		20	17	17	1,215	676	866	832	837	805	1,161	945
10	Ludhiana		14.9	14	14	858	677	530	395	468	439	573	588
11	Ferozepore			4 24	24	1,509	1,425	1,153	961	983	926	1,196	1,078
	LAHORE	DIVISI	ON.										
12	Labore	000		28	28	1,194	1,087	1,335	975	1,025	1,087	1,869	1,732
13	Amritear	***		15	15	1,039	1,017	1,375	1,157	1,320	1,263	1,952	1,637
14	Gurdaspur	100		22	22	2,238	1,479	923	771	774	615	1,041	1,093
15	Sialkot	100	010	30	30	2,849	2,166	1,160	932	1,034	899	1,332	1,161
16	Gujranwala	***		30	30	1,736	1,736	1,694	1,181	1,101	792	1,563	1,556
14	RAWALPIN	DI DIVI	SION.	,									
17	Gujrat	***		15	15	1 3 2 6	1,248	775	584	548	346	418	476
18	Shahpur			23	23	1,054	1,054	738	557	544	416	609	655
19	Jhelum		***	14	14	898	895	762	613	466	368	465	529
20	Rawalpindi			16	16	1,177	927	872	693	716	634	741	690
21	Attook			13	13	628	618	1,058	771	721	585	647	644
22	Mianwali		٧	15	15	396	390	637	548	612	492	555	545
	MULTAN	DIVISI	ON.		1						1		17.
23	Montgomery -			21	21	1,348	755	1,126	747	649	458	711	626
24	Lyallpur	***		20	20	1,2:7	1,240	920	725	804	974	1,405	1,154
25	Jhang			13	18	955	908	725	504	522	518	577	498
26	Multan	***		18	18	1,353	1.349	1,911	1,307	1,211	869	1,152	937
27	Muzaffargarh			23	25	860	715	1,747	1,166	890	819	922	687
28	Dera Ghazi Kh	an		23	23	707	707	896	813	80.	652	729	632
	3-16-											1	
	Total for the	Province	0	552	552	33,110	29,659	28,042	21,436	21,877	19,702	27,613	24,885
	By 1400	49234	mage	196	mis I	F101-5	hun .	PRINT	-44		44	691	ADI
-	the same and the same and											_	-

No. IX.

PUNJAB DURING EACH MONTH OF THE YEAR 1915.

						6			7	- 70	8	9
HOLE.						Total			OF DEATH		or previ-	
Jaly. August.	September.	O tober.	Norember.	December.	Malca	Females.	Total.	Males.	Pemales.	Total	Mean ratio per 1,000 for our five years.	No.
13 14	15	16	17	18	19	20	21	22	23	24	25	26
1,083 851 709 556 470 394 1,154 843 706 537 22 20 1,083 966 1,176 1,116 829 729 543 444 1,083 935 1,444 1,263 1,349 1,193 936 795 998 873	444 795 611 17 1,383 1,150 7:5 361 872 1,150 1,041 798 851	761 520 455 736 646 31 1,489 1,273 710 457 933 1,141 1,032 851 913	876 758 726 1,112 735 18 1,190 1,220 873 5-1 1,125 1 374 1,253 978 1,034	1,339 1,151 1,096 1 362 815 17 1,219 1,557 1,102 592 1,527 1,641 1,405 1,020 1,303	6.193 4,409 8,603 6.293 4,210 145 6,583 7,858 5,130 3,005 6,659 8,509 8,018 5,382 6,450	6.767 4.195 3.317 5,816 4,053 124 6,764 7,697 5 274 2,926 6,111 7,726 7,964 5,212 6,040	11,950 8,604 6,920 12,169 8,263 269 13,347 15,555 10,404 5,931 12,770 16,235 15,982 10,694 12,490	14·12 11·44 9·26 14·38 11·73 6·59 16·52 15·67 11·64 10·24 12·78 14·63 16·18 11·55 12·15	15-71 12-73 9-76 16-06 14-73 9-57 18-37 18-36 15-18 13-08 14-81 17-71 20-75 14-22 18-26	14°85 12°04 9°49 15°14 13°06 7°69 17°41 16°93 13°20 11°47 13°68 15°95 18°18 12°72	17:86 17:19 17:04 20:95 20:13 8:35 17:95 19:44 14:50 12:45 12:09 14:85 16:32 13:98 14:86	1 2 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 16 16
1,347 1,193 820 664 669 593 507 457 648 627 663 693 502 483 646 651 1,034 1,004 484 491 977 754 596 520 511	504 468 479 588 561 430 446 813 443 763 615	943 773 496 481 717 621 498 440 787 442 960 922 611	1,303 792 663 669 925 929 584 653 969 594 1,294 1,110 749	1,943 1,025 1,117 867 1,263 1,552 968 999 1,384 911 1,732 1,356 738	8,393 4,080 3,809 3,318 4,653 4,802 3,632 4,009 5,957 3,499 7,379 6,258 4,395	7,202 8,945 3,716 3,345 4,461 4,542 8,228 8,943 6,066 3,210 6,493 5,328 3,698	15,595 8,025 7,525 6,663 9,114 9,344 6,860 7,952 12,023 6,709 18,872 11,586 3,098	16·19 10·18 10·11 12·65 17·38 17·76 20·19 14·52 11·83 12·63 16·95 20·30 16·13	17-78  11-43  11-97  13-82  18-59  18-55  19-99  17-29  15-75  13-46  17-74  20-41  16-26	16·89 10·76 10·95 18·22 17·95 18·13 20·10 15·77 13·53 13·02 17·3: 20·34 16·19	17:27 13:82 13:05 16:13 18:77 18:82 19:24 13:46 12:75 14:53 17:46 22:50 17:36	16 17 18 19 20 21 22 23 24 25 26 27

ANNUAL FORM

## DEATHS REGISTERED FROM DYSENTERY AND DIARRHEA IN THE

1	2	-		3	-	•	2			102/0/6		AL SI
				OF REGIS-	VII	LLIGHS.						Mo
No.	Districts.		Number in each dis- trict.	Number from which dearhs from Dysen- tery and diarrhea- wete reported.	Number in each dis- trict.	Number from which deaths from Dysen- tery and diarrhous were reported.	January.	Pebruary.	March.	April.	May.	June.
1	2	-	3	4	- 5	6	7	8	9	10	11	12
	55 30								-	-	-	-
	AMBALA DIVIS	SION										
1	Hissa	-	27	23	963	200	22	21	22	25	81	-
2	Rohtak		19	19	781	118	5	8	4	12	82	
8	Gurgson		24	24	1,367	179	33	29	26	31	58	
4	Karnal		25	25	1,382	143	25	8	9	24	85	110
6	Ambala		19	19	1,716	883	86	22	33	46	61	5
6	Simla		8	- 8	23	23	2	3	"	2	4	
	JULLUNDUR DIV	TRION	1	122	111					7.5		17/2
						511	90			40	105	
7	Kangra Hoshiarpur	***	17	17	713		30	35	23	49	195	4
8			24	13	2,108	19	1	4	2	4	8	
9	Ludhiana -	***	17	17	1,215		25	24	19	49	44	
10		***	14	14	858	76	14	5	11	25	39	
11	Ferozepore	30.00	24	23	1 500	802	28	17	21	80	48	
	LAHORE DIVIS	SION.									1	-
12	Lahore	***	28	27	1,194	197	22	20	32	58	129	
13	Amritear		15	15	1,039	283	69	41	44	8)	215	1
14	Gurdaspur		. 22	22	2,238	402	41	35	29	53	144	1
35	Sialkot	***	30	80	2,349	511	43	31	47	79	183	1
16	Gujranwala		80	22	1,736	143	21	18	80	82	55	T
	BAWALPINI DIVISION.	IOI	100	-		2015				10/3	153	nes
17	Gujrat	38.22	15	15	1,326	185	19	19	20	11	38	
18	Shahpur	200	23	23	1,054	162	25	18	19	23	38	PIP.
19	Jhelum		14	14	898	109	11	8	6	21	25	28
10	Rawalpindi	-	16	16	1,177	346	165	161	179	135	190	1
21	Attock		13	12	629	30	8	3	2	1	5	100
22	Manwali		15	14	396	61	15	11	12	13	22	1
	MULTAN DIVIS	SION.	1 = H	STATE .	Fisher.	1000	100 -1	1	028 . 7	1	280	100
23	Montgomery		21	8	1,348	13	1	-				TO A
24	Lyal pur	-	20	20	1,277	217	6	7	18	24	51	1
25	Jhang			13	955	103	27	15	29	20	23	The same
26	Multan		18	17	1,353	1:0	36	14	17	19	19	107
27	Muzaffargarh		23	19	860	38	14	10	4	5	9	1000
28	Dera Ghazi Khan		23	, 19	707	79	21	9	10	6	9	-
	2007				-		-				-	TOTAL
	Total for the Provi	inea	552	503	33,110	5,057	760	596	668	893	1,722	1,5

No. X.

DISTRICTS OF THE PUNJAB DURING EACH MONTH OF THE YEAR 1915.

							-	6	-		7	-	8	9
EUTEO)	K						1	TOTAL.	TARTES	RATIO 1,000,	OF DEATE	IS PER	for pre-	
July		August.	Soptember.	October.	November.	December.	Males.	Pemalos.	Total.	Males.	Females.	Total.	Mean ratio per 1,050 for pre- vious five years.	No.
11	3	16	15	16	17	18	19	20	21	22	23	24	25	26
							1.				200111	10 232	TITA	
		4	TOT	17 40	in .	TTE.	92	12					Total II	2 "
los I	34	62	80	27	45	29	232	191	423	0.23	0.52	0.53	0.44	1
1	19	17	. 18	15	30	85	108	102	210	0.28	0.31	0.29	0.35	2
111	31	29	35	29	70	40	250	191	441	0.64	0.58	0.60	0.90	3
MI.	43	31	25	24	24	11	173	115	288	0:40	0.32	0.36	0.53	4
+	66	53	45	41	62	49	352	221	573	0.28	0.80	0.91	0.76	5
	3	7	4	1	6		21	20	41	0.92	1.54	1.17	1.78	6
200		300	212	To a	915		343.3	121	13				a quart	1
	132	69	51	69	74	68	653	592	1,245	1.64	1.61	1.62	1.03	7
	3	3	2	2	2	1	20	12	82	0.04	0.03	0.03	0.07	8
	25	42	80	29	47	38	226	188	414	0.21	0.24	0-53	0.52	9
NE.	27	18	13	9	25	18	125	90	215	0.43	0.40	0.42	0.48	10
-	29	20	27	61	58	38	238	179	417	0:46	0.43	0.45	0.35	11
				21033	No.		2003	1 83					the state of	
	56	46	61	73	72	73	427	299	718	0.73	0.66	0.70	0.82	12
	99	94	64	65	91	59	568	477	1,045	1.15	1.24	1.19	0.88	13
	55	63	69	81	91	76	478	859	837	1.03	0.08	1.01	0.03	14
	95	92	90	108	123	83	631	482	1,113	1.10	1.11	1.16	0.94	15
	24	18	29	22	15	25	183	134	317	0.32	0.33	0'34	0.22	16
30		100	372	in.		100	1	122	3.5				Seilen.	77
0	84	15	36	87	41	84	199	148	342	0.20	0.41	0.46	0.38	17
6	20	17	13	29	36	26	187	111	298	0.20	0.38	0.43	0.56	18
	15	13	18	26	19	15	134	67	201	0.21	0.38	0:40	0.39	19
	114	166	150	142	222	220	1,080	906	1,986	4.03	3.78	3.91	3.16	20
	4	3	2	2	4	2	20	_ 15	35	0.07	0.06	0.07	0.13	21
	13	6	26	25	21	26	122	76	198	0.68	0-47	0.28	0.63	22
											. 22			
	1	6	1	= 4	10	1	19	11	90	0.07	0.02	0.08	0.13	23
A	8	14	27	19	19	16	120	101	221	0.24	0.52	0.24	0.38	24
0	24	31	81	26	31	38	181	134	315	0.65	0.20	0.91	0.22	25
***	22	25	43	48	42	42	188	153	. 341	0.43	0.43	0.43	0.39	26
	2	5	01 4	7	8	10	44	35	80	0.14	0.14	0.14	0.17	27
1	11	12	17	20	23	31	116	68	184	0.43	0.30	0.37	0.33	28
-				-			7105	* ***	10.550	0.07	6:00	0.62	0.75	
COT IS	1,009	976	951	1,060	1,805	1,009	7,095	5,468	12,558	0-67	6.63	0.69	0.57	1

DEATHS REGISTERED FROM RESPIRATORY DISEASES IN THE

1	3			3		4						5
	A STATES			LES OF RATION.	VILI	AGES.					1	Months.
No.	Districts.		Number in each dis- trict.	Number from which deaths from res- piratory diseases were reported.	Number in each dis- trict.	Number from which deaths from res- piratory diseases were reported.	January. a	February.	March.	April,	May.	Jane.
1	2		1	4	5	6	7	8	9	10	11	12
ATT.												
	AMBALA DIVISION											
1	Hissar		27	24	963	272	123	78	107	83	104	86
2	Rohtak		19	19	731	364	79	55	86	92	93	101
8	Gurgaon		24	24	1,367	887	137	104	102	108	105	74
4	Karnal		25	25	1,882	312	98	87	94	76	143	116
	Ambala		19	19	1,715	521	384	800	824	285	215	230
6	Simla		3	. 8	23	21	15	19	6	11	10	4
0	JULLUNDUR DIVISIO	ON.	1 1 4		14	-		14 33		17		191
7	Kangra	***	17	17	713	615	289	269	245	235	261	254
8	Hoshiarpur	***	24	24	2,108	799	221	173	174	184	206	166
9	Juliandar	***	17	17	1,215	314	894	357	399	317	365	229
10	Ludhiana		14	14	858	324	158	137	128	128	140	195
11	Ferozepore		24	24	1,500	508	156	129	169	129	178	156
				1 10	1				The state of			
	LAHORE DIVISION											
12	Labore	***	28	28		493	135	216	233	187	252	139
13	Amritear	***	15	15	1 1 1 1 1 1	686	306	313	830	354	483	351
14	Gurdaspur	***	22	22	1 1988	2,006	743	623	667	612	957	755
15	Sialkot	***	30	80	1 199	1,017	842	294	328	286	458	. 355
16	Gujranwala	***	80	80	1,736	281	- 96	114	118	120	117	98
	RAWALPINDI DIVISI	ON.		Tea			and the		1	1	3	
17	Gujrat		15	15	1,326	646	199	225	216	148	162	106
18	Shabpur		23	20	1,054	542	81	92	92	73	59	62
19	Jhelum		14	14	898	417	99	100	86	112	111	93
20	Rawalpindi		16	. 16	1,177	433	130	152	146	105	109	97
21	Attock	***	13	18	628	177	45	35	86	20	59	81
22	Mianwali		15	10	\$96	82	26	13	21	16	12	. 16
	MULTAN DIVISION	ī.		1/2	123	NE.	TE.	-			-	
	Montgomery		21	18	1,848	95	41	25	32	20	16	
23	-		20	20	1-2300	395	34	24	61	35	61	8
24	100		13	12	1 120	197	113	100	76	46	86	30
25 26	Multan		18	1			1			1		83
20	Muzaffargarh		23	22	I ETC.	63	21	21	16	10	10	
38	Dera Ghari Khan		23	17	1000	70	66	47	53	21		2
40	Dis Guille State	-			101				- 03	21	29	14
	Total for the Province		552	519	33,110	12,036	4,532	4,101	4,346	3,821	4,791	3,759

No. XI.

DISTRICTS OF THE PUNJAB, DURING EACH MONTH OF THE YEAR 1915.

-					•			6	0		7		8	9
ARYS	oli .					,121	12107	TOTAL.		RATIO 0	OF DRATH	S PRA	for pre-	
101	-(11)	August	September.	October.	November.	December.	Males.	Females.	Total,	Malos.	Pemales.	Total.	Mean ratio per 1,000 for vious five years.	No.
1	3	14	15	16	17	18	19	20	21	22	23	24	25	26
				-							BOUL Y	1000	H2	
-	68	71	47	87	67	196	677	490	1,067	1.32	1.34	1.33	1-29	1
1-	79	84	61	79	101	203	660	533	1,093	1.45	1.62	1.58	2'43	,2
100	88	79	63	64	116	248	648	629	1,277	1.66	1.88	1.75	2.73	3
1	130	115	- 78	62	77	143	649	668	1,217	1.48	1.57	1.23	2-21	6
1-1	228	191	170	196	337	471	1,737	1,684	3,371	4.88	5.94	5-33	2.60	5
	7	6	8	11	9	11	64	53	117	2.91	4.09	3-35	2.08	6
		05		Die.			107		11			-		
1	178	162	198	172	178	276	1,443	1,270	2,713	3.63	8:45	3.24	2.38	7
-	212	131	126	144	162 268	278 427	1,255	850 1,629	2,105 3,510	2-50 4-27	2.04	2:29	2'43	8
-	84	87	68	92	126	194	779	668	1,447	2:65	2.99	2.80	2:40	10
1	102	93	110	122	108	191	845	798	1,643	1.62	1.93	1.76	1.60	11
											A. TEVE	38710		
100	125	118	129	128	181	197	1,138	908	2,040	1.95	2:08	2:00	1.74	12
1	316	278	285	808	843	352	2,041	1,978	4,014	4:12	5:14	4.28	3.34	13
1	631	624	727	705	715	749	4,555	3,952	8,507	9-77	10.78	10.22	10.47	14
In	321	279	324	318	294	431	2,128	1,902	4,030	4.01	4'40	4:18	4:33	15
1=	82	64	71	60	62	112	657	457	1,114	1-27	1.13	1.21	0.80	15
1	1	-		-	18					22.8	String 8	PHILIPAL PROPERTY	men =	
1	160	165	151	175	174	222	1,159	944	2,103	2.89	2:74	2.82	2.77	17
3401	46	46	86	43	65	188	489	344	833	1.30	1:11	1.21	0.83	18
1	102	-80	66	74	72	107	576	526	1,102	2.20	2:17	2.19	1.21	19
1	67	64	65	60	78	177	659	591	1,250	2:46	2.46	2:46	1.68	20
1	42	47	50	67	63	100	314	340	654	1.16	1'39	1.27	0.86	21
1	13	13	12	15	23	33	130	83	213	0.72	0.21	0.62	0.29	22
		1								1	STILL	MANDE	ia i	
1	19	3	8	15	19	22	123	105	228	0.45	0.48	0:45	0 30	23
1	15	16	31	30	26	61	272	152	424	0.24	0.39	0.47	0.92	24
1	32	19	13	19	67	123	385	280	665	1.39	1.17	1.29	1.08	25
1		-	··· ·				1	1	2	0.003	0.003	0.003	0.02	26
-	. 4	2	3	2	5	21	77	40	117	0.52	0.12	C-21	0.11	27
-	13	21	21	13	17	22	186	151	837	0.68	0.68	0.67	0.47	28
-	3,302	3,043	3,084	3,168	3,741	5,508	25,822	21,871	47,193	2:39	2.21	2:44	2.26	
-	3,302	3,043	3,084	3,169	3,741	5,508	25,822	21,871	47,193	2:39	2.21	2:44	2.26	

DEATHS REGISTERED FROM PLAGUE IN THE

	1	8	2			8		4						5
-		3 4	d impunit e	5 01116 10 000		OF REGIS-	VIL	LAGBA.					м	ONTHS.
	No.	Dr	stricts.		Number in each district,	Number from which deaths from plague were reported.	Number in each district	Number from which deaths from plague were reported.	January.	February.	March.	April.	May.	Jane.
-	1		2		3	4	5	6	7	8	9	10	11	12
-		AWRALA	DIVISION	,			-				-		-	
	1	Histor			27	7	963	91	162	891	520	1,287	487	11
	2	Rohtak	Lieu		19	10	731	22	19	68	163	556	209	7
۲.	9	Gurgaon			24	14	1,367	50	45	187	325	472	96	
	4	Karnal			25	25	1,382	125	972	479	1.071	1,537	630	11
	6	Ambala			19	18	1,715	394	523	1,128	1,515	1,719	532	29
	6	Simla	1.103		8		23			***				
		JULLUND	R DIVISI	ON.	1023		46	THE STATE OF		12 -		21/4		
	7	Kangra			17	2	713	9			11	10	2	
	8	Hoshiarpur		***	24	24	2,108	1.693	2,283	8,075	3,591	3,576	1,053	45
	9	Ja Hundur	***	***	17	17	1,215	633	1,291	8,062	5,008	6,284	2,004	48
	10	Ludhiana			14	14	858	429	594	1,217	2 037	3 079	1,080	22
	11	Ferezepore		***	24	21	1,500	150	139	535	1,200	1,856	897	59
		LAHÓRE	DIVISIO	N.										
	12	Labore	***		28	29	1,194	587	151	642	1,728	3,925	2,578	234
	13	Amritsar			15	15	1,039	692	1,248	2,604	5,093	6,148	2,410	117
	14	Gurdaspur		117	22	20	2,238	489	1,907	3,370	4,391	5,551	1,997	110
	15	Sialket	22.0		50	29	2.349	1,329	690	1,076	4,427	9,783	5,570	471
	16	Gujranwala			80	80	1,736	520	1,597	2,410	4,705	5,679	2,495	222
		RAWALPI	SDI DIVIS	ION.								-		
	17	Gujrat		***	15	15	1,326	936	590	1,476	4,877	10,687	8,854	368
	18	Shahpar			23	23	1,054	233	263	573	2,019	4,664	1,605	109
	19	Jhelum		***	14	14	898	374	709	1,478	3,114	5,463	2,698	257
	20	Rawalpindi		***	16	14	1,177	669	1,150	1,888	3,064	4,606	3,249	481
	21	Attock	22.1	***	13	10	628	923	62	147	881	3,555	3,553	590
	23	Mianwali	12.0		15	1	396	· · · · ·				1		
		MULTAN	DIVISIO	N.										
	23	Montgomery	1110		21	7	1,348	21	1	7	189	313	113	16
	24	Lyallpur			20	18	1,277	140	147	532	1,078	1,441	671	20
	25	Jhang	2		13	9	955	110	58	111	607	628	314	43
	26	Multan			18	3	1,353	1	2		14	83	69	7
	27	Muzaffargarh		1	23	3	860	6		1	57	48	7	***
	28	Dera Ghazi I	Khan		23	12.1	707							***
		1			-		-			-		-		
		Total for the	Province	1	552	391	33,110	9,925	13,890	27,057	51,678	82,251	43,176	3,276

No. XII.
DISTRICTS OF THE PUNJAB, DURING EACH MONTH OF THE YEAR 1915.

						1						-	
						-	6			7		8	9
							TOTAL.		RATIO 1,000	OF DEAT	HS PER LATION.	for	
July.	Angust,	September,	October,	November,	December.	Males.	Females.	Total.	Mabes.	Females,	Total.	Mean ratio per 1,090 for previous five years.	No.
13	14	15	16	17	18	19	20	21	22	23	24	25	26
				26 30	71 20 20	1,491 477 570 1,956 2,743	1,442 545 555 2,090 2,754	2,933 1,022 1,125 4,046 5,497	3·40 1·24 1·46 4·47 7·67	3-94 1-65 1-63 5-77 10-60	3·64 1·43 1·54 5·06 8·69	4·63 9·78 13·02 7·64 5·41	1 2 3 4 5
3 3 3 1 10	2 1		4 	23	3	9 6,526 8,710 4,085 2,365	14 7,132 8,988 3,945 2,244	23 13,658 17,698 8,030 4,709	0°02 13°01 19°77 13°92 4°54	0°04 17°10 25°88 17°64 5°63	0.03 14.87 22.46 15.53 5.04	0.72 5.87 0.49 7.51 4.43	7 8 9 10
1			-			4,754	4,505	9,259	8:18	10.33	9.10	2.63	12
2			***			8,960	8,660	17,620	18'08	22.57	26'04	7.62	13
8	***	***				8,765	8,569	17,334	18.80	23.38	20.82	8.11	14
- 39	9		1	2	2	10,868	11,602 8,139	21,970 17,098	19:53 17:29	26.82	22°81 18°52	5·69 7·69	15
17 28	i		 12 17	8		12,789 4,520 6,362	14,080 4,761 7,471	26,869 9,281 13,833	31°92 11°99 24°26	40°81 15°33 30°58	36'04 13'50 27'44	1·79 2·27	17 18 19
31	1	3	8	40	10	6,490	8,030	14,510	24.20	33'47	28.28	101	20
58	6		1		2	4,139	4,725	8,864	15:31	19:29	17-20	0.19	21
						1		1	0.01	-	0.002		22
1			1	1	11	322	331	653	1.17	1:45	1.30	1.28	23
-						1,875	2,009	3,881	3.72	5-21	4:37	2107	24
1	-				•••	929	832 76	1,761	3·35 0·23	3°49 0°21	3·42 0·22	0.03	25
	-					66	47	113	0.51	0:18	0.20	0.001	26 27
	***											***	28
235	20	7	44	162	170	108,320	113,645	221,966	10.21	13-62	11:48	4 33	

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STATEMENT No. I.

MONTHLY STATEMENT OF PLAGUE OCCURRENCES IN BRITISH DISTRICTS AND NATIVE STATES IN THE PUNJAB DURING THE YEAR 1915.

STATEMENT
MONTHLY STATEMENT OF PLAGUE OCCURRENCES IN BRITISH

1		JAN	UARY,	FEBRI	DARY.	MAR	CII.	APR	п	Ma	у.	Jes	и,
	District and Native		1			-						-	_
Serial No.	States.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases,	Deaths,	Cases.	Deaths,	Cases,	Deaths.
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Histar	239	162	466	391	732	520	1,601	1,287	414	487	11	11
2	Rohtak	26	19	94	68	230	163	723	556	273	209	9	7
3	Gurgaon	. 49	45	199	187	337	325	490	472	95	96		***
4	Karnal	280	272	492	479	1,078	1,071	1,569	1,537	635	630	48.	11
5	Ambala	637	523	1,343	1,128	1,931	1,515	2,334	1,719	685	532	50	29
6	Simla			***		***							
7	Kangra					16	11	14	10	3	2		***
8	Hoshiarpur	2,606	2,283	3,178	3,075	3,825	3,591	3,697	3,576	1,145	1,053	45	45
9	Jullundur	1,555	1,302	2,948	3,082	7,782	5,010	10,249	6,295	2,618	2.004	100	48
10	Ludhiana	814	594	1,612	1,217	3,851	2,037	5,034	3,079	1,846	1,080	14	22
11	Ferozepote	309	139	773	541	1,541	1,216	2,556	1,884	1,558	903	87	59
12	Lahore	290	151	963	642	2,476	1,728	6,200	3,925	3,588	2,578	779	234
13	Amritsar	1,246	1,246	2,604	2.604	5,093	5,093	6,148	6,148	2,410	2,410	117	117
14	Gurdaspar	2,298	1,907	3,952	3,370	4,983	4,391	6,394	5,551	2,258	1,997	200	110
15	Sialkot	740	690	1,681	1,676	4,467	4,427	9,231	9,090	5,595	5,510	475	471
16	Gujranwala	1,632	1,587	2,710	2,410	6,775	4,705	5,880	5,679	2,575	2,495	222	222
17	Gujrat	619	590	1,562	1,476	5,096	4,877	10,848	10,687	8,890	8,854	883	368
18	Shahpur	492	263	929	573	2,690	2,019	7,342	4,964	3,293	1,605	159	109
19	Jhelum	962	708	1,814	1,478	4,608	3,114	6,249	5,463	2,389	2,696	268	257
20	Rawalpindi	1,490	1,154	2,439	1,888	3,617	3,064	5,344	4,606	4,299	3,249	388	481
21	Attock	112	62	157	147	981	881	3,622	3,555	3,670	3,558	828	590
22 23	Miarwali							3	1		***		
24	Montgomery	1	1	8	7	249	189	402	313	148	113	18	16
200	Lyallpur	1	147	602	532	1,916	1,073	1,644	1,441	660	671	80	20
26	Jhang Multan		58	114	111		607	683	628	385	314	125	7
27		1	2			23	14	181	83	95	69	9	
28	Muraffargarh  Dera Ghazi Khan	1		1	1	67	57	73	48	8		200	
	Deia Gillia Italia	***	***						***	***	***		
	Total British Districts	16,674	13,905	30,641	27,083	64,310	51,698	98,511	82,297	49,535	43,182	4,220	3,276
1	Patiala	642	623	1,624	960	2,024	1,626	4,918	4,093	7,246	6,631	788	685
2	Kapurthala	1	547	1,288	890	1,840	1,109	983	614	390	262		
3	Malerkotla		5	235	141	699	432	348	231	11	12		
4	Jind		1	207	101	437	202	600	336	92	78	4	4
5	Kalsia			3	1	65	28	. 206	99	52	33	2	
-6	Faridkot			660	301	265	111	17	6				
7	Nabha	. 88	68	199	185	320	295	824	725	169	185	21	15
8	Pataudi					***							
9	Bahawalpur .	1				7	6			1	1		
10	Nalagarh .			2	1	7	2	48	27	21	16	1	1
11	Bilaspur .												
	Total Native States ,	2,04	1,413	4,218	2,580	5,664	3,811	7,944	6,131	7,982	7,218	816	705
	GRAND TOTAL .	18,72	15,318	34,859	29,663	69,974	55,509	106,455	88,428	57,517	50,400	5,036	3,981

No. I.
DISTRICTS AND NATIVE STATES IN THE PUNJAB DURING THE YEAR 1915.

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1	Jer	Y.	Avo	UST,	Serre	MBEB.	Осто	BER.	Nove	MBER,	DECES	CBER,	Тот	AL,		
-	Cases.	Deaths.	Cases,	Deaths.	Cases.	Deaths.	Chiers,	Deaths.	Cases,	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Serial No.	RUMARKS,
1	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1		***							12	4	83	71	8,558	2,933	1	
1			***						***		***		1,355	1,022	2	
1							***				'		1,170	1,125	3	
1	***						***	***	44	26	25	20	4,171	4,046	4	
			***		1	1	***	***	28	30	32	20	7,051	5,497	5	
1		***			***	***	***		·					***	6	
1						***						81	33	23	7	
	3	3	2	2			4	4	25	23	3	3	14,533	13,658	8	
1	1	3								***	1	***	25,254	17,744	9	
		1									***	***	13,171	8,000	10	
	12	10	18	1			1		***		25	12	6,880	4,765	11	
	1	1		***						***			14,297	9,259	12	4.4
1	2	2			***				***		***	***	17,620	17,620	13	
	12	8					***					***	20,097	17,834	14	
1	39	39	9	9	2		2	1	5	2	3	2	22,249	21,977	15	
						43.0						***	18,794	17,098	16	
	17	17			1								27,421	26,869	17	
1	89	28		***			19	12	. 9	8			15,022	9,281	18	
1	69	31	5	1	4	3	37	17	53	46	21	19	16,479	13,833	19	
1	20	32	3	1	4	3	12	8	47	19	17	10	17,680	14,515	20	
İ	98	58	2	6			3	1	9	4	6	2	9,288	8,864	21	
1				***						***			3	1	22	
	1	1					1	1	1	1		11	829	653	23	
										***			5,115	3,884	24	
	27	1			***			***			***		2,340	1,761	25	
1		***											312	175	26	
							***				***	***	149	113	27	
										***					28	
	391	235	39	20	12	7	79	- 44	243	163	216	170	264,871	222,080		
-	114	99	8	8	9	9			3	3	20	20	17,396	14,757	1	
													5,434	2,422	2	
-													1,300	821	3	
											15	9	1,504	802	4	
-		***									37	18	372	183	5	
			***										1,165	513	6	
1		-			****	***				***			1,621	1,473	7	
															8	
-											***		8	7	9	
		***	***										79	47	10	
					***										11	
	114	99	8	8	9	9			3	3	72	47	28,879	22,024		
1	505	334	47	28	21	16	79	- 44	246	166	288	217	293,750	244,104		

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