



# MONTHLY MORBIDITY REPORT

Reported Morbidity  
June, 1981

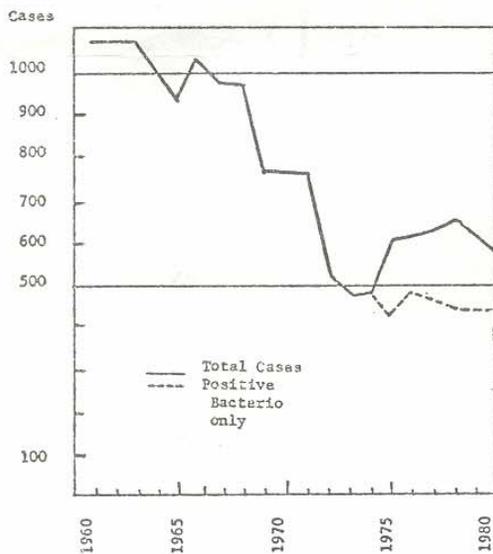
**PUBLIC HEALTH STATISTICS and  
DIVISION OF DISEASE CONTROL**

## TUBERCULOSIS IN LOUISIANA

### Incidence

From 1960 to 1980 the number of new TB cases reported in Louisiana dropped from 1,000 per year to 600 per year (Figure 1), this represents a drop in incidence from 30 per 100,000 to 15 per 100,000 (Figure 2). However, there is reason for concern since

Figure 1 NUMBER OF TB CASES REPORTED  
LOUISIANA, 1960 - 1980



from 1975 to 1980 the annual incidence has dropped at a lower rate.

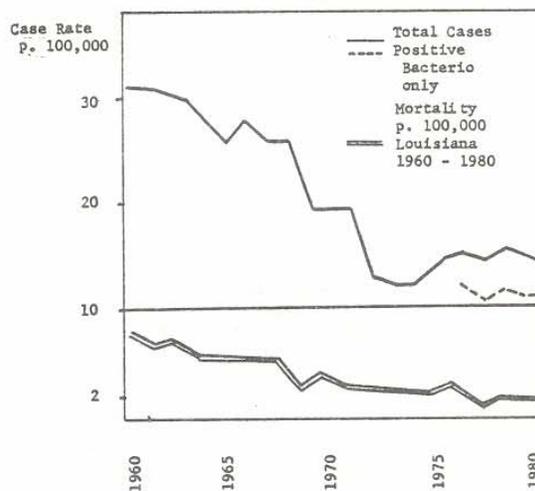
The increase observed in 1975 is due to a change in definition of the cases to be counted in the morbidity reported. When looking at the positive bacteriology case rate this artifact is removed. The slowly diminishing trend is confirmed.

### Geography

The distribution of tuberculosis in Louisiana is presented in Maps Number 1 and Number 2. Map 1 represents the average annual incidence for the period 1970 - 1974, Map 2 the average annual incidence for 1975 - 1979. A comparison of these two maps show the situation parish by parish and the progress made over a five year period.

New Orleans was and remains the most important focus of tuberculosis in the State, the average incidence in last 5 years was 32.8 cases per 100,000, twice the Louisiana average of 16.0 per 100,000. Orleans had 28% of the cases of tuberculosis reported in Louisiana from 1975 - 1979 while it has only 13% of the population.

Figure 2 TB MORBIDITY RATE PER 100,000  
LOUISIANA, 1960 - 1980





### Age - Sex Distribution

The age and sex distribution (Figures 3 & 4) show a predominance of tuberculosis among males and an increase in incidence with age. The incidence of tuberculosis cases among children below age 5 has been very irregular: close to United States average in 1975 and 1977, twice the national average in 1976, 1978, and 1979.

### Race

From 1975 to 1979 the tuberculosis case rate for non-whites has been nearly 3 times higher than the rate for whites:

| Population Group  | Incidence per 100,000 |
|-------------------|-----------------------|
| White Males       | 15.1                  |
| Non-White Males   | 41.8                  |
| White Females     | 5.2                   |
| Non-White Females | 19.1                  |
| All of Louisiana  | 16.0                  |

### Site

During the period of 1975 - 1979 pulmonary tuberculosis was the predominant site of tuberculosis (83% of all cases) followed by lymphatic tuberculosis (8.4%) pleural tuberculosis (3.7%) then tuberculosis of the bone, urogenital system, etc.

### Positive Cases

The majority of cases were confirmed bacteriologically (73% of all cases), the rate of bacteriological confirmation was highest among pulmonary tuberculosis (80% of pulmonary cases are positive). The main sources of infection are the pulmonary cases with positive smear and culture. They represent about 50 - 60% of the new cases.

### Tuberculous Infection

In 1979 over 100,000 tuberculin skin tests were performed in Louisiana, 76,491 were read. These include contacts and screening results; therefore the rates observed are biased and probably slightly higher than actual rates found in the general population.

The percentage of infected persons was the following:

| Age          | Percent Infected |
|--------------|------------------|
| 0 - 4 yrs.   | 0.7              |
| 5 - 14 yrs.  | 2.9              |
| 15 - 24 yrs. | 3.6              |
| 25 - 34 yrs. | 6.1              |
| 35 - 44 yrs. | 7.2              |
| 45 - 54 yrs. | 8.6              |
| 55 - 64 yrs. | 10.9             |
| 65 + yrs.    | 10.0             |

Figure 3 INCIDENCE OF TB BY SEX - RACE LOUISIANA, 1975 - 1979

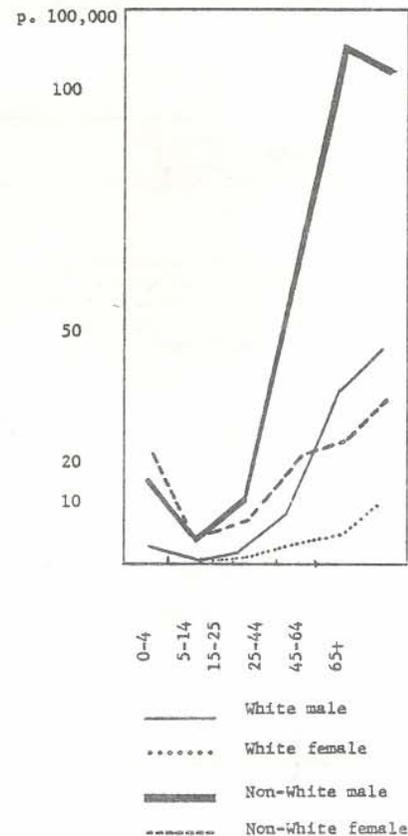


Figure 4 INCIDENCE OF TB ALL SEX - RACE COMBINED LOUISIANA, 1975 - 1979

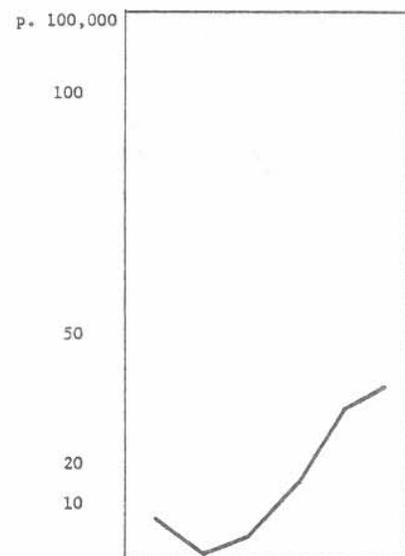
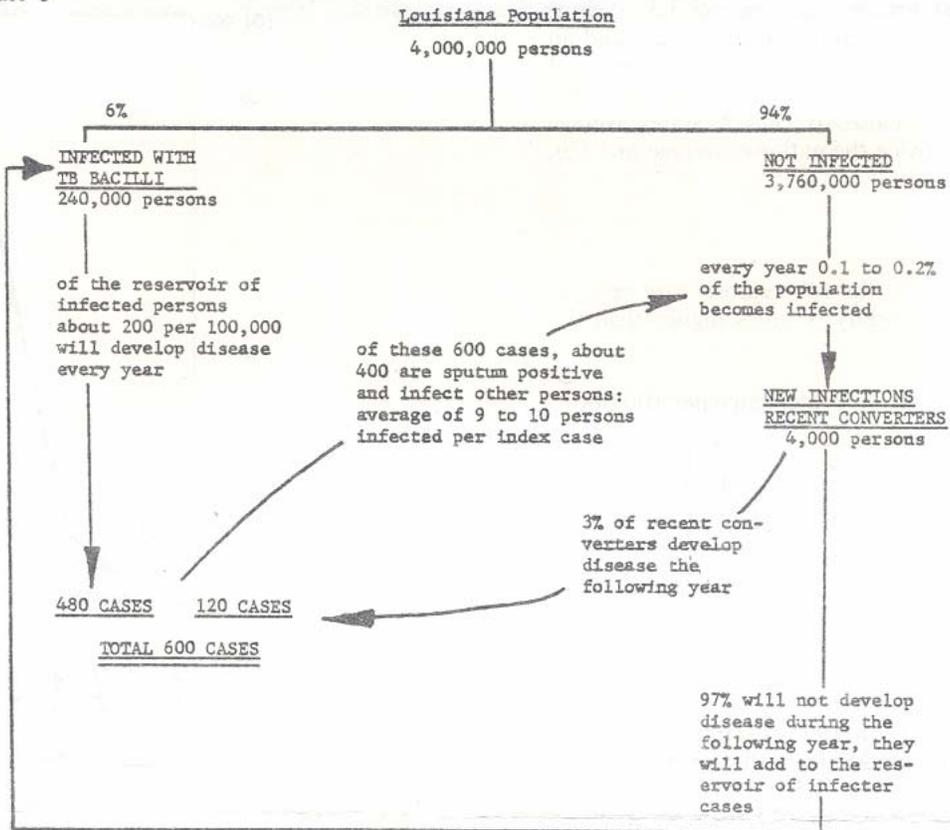


Figure 5



From these figures, it is possible to estimate the annual TB infection rate, that is, the percentage of persons who during one year will become infected (skin test converters). The ATIR\* is between 0.1 and 0.2%.

The total age adjusted rate of tuberculosis infection for Louisiana in 1979 was 5.68%.

**Origin of Cases**

With the knowledge of how many new cases and how many infected persons there are it is possible to reconstruct the dynamics of tuberculosis in

\* Annual Tuberculosis Infection Rate

Louisiana in the late 70's and early 80's. The diagram shown in Figure 5 is useful to understand the origin of cases and plan the strategy for the tuberculosis control program:

**Mortality**

Tuberculosis mortality has steadily declined from 8 per 100,000 in 1960 to a low of 1.5 per 100,000 in 1979, this still represents 60 deaths per year in Louisiana. The mortality rate is 3 times higher among non-whites (3.7 per 100,000 for 75 - 79) than among whites (1.4 per 100,000).

*To be continued next month*

## SELECTED REPORTABLE DISEASES (By Place of Residence)

| STATE AND PARISH<br>TOTALS<br>REPORTED<br>MORBIDITY<br>JUNE, 1981 | VACCINE PREVENTABLE DISEASES |          |       |           |         | ASEPTIC MENINGITIS | HEPATITIS A AND UNSPECIFIED | HEPATITIS B | LEGIONNAIRES DISEASE | MALARIA* | MENINGOCOCCAL INFECTIONS | SHIGELLOSIS | TUBERCULOSIS, PULMONARY | TYPHOID FEVER | OTHER SALMONELLOSIS | UNDERNUTRITION SEVERE | GONORRHEA | SYPHILIS, PRIMARY AND SECONDARY | RABIES IN ANIMALS (PARISH TOTALS CUMULATIVE, 19 0) |
|---|------------------------------|----------|-------|-----------|---------|--------------------|-----------------------------|-------------|----------------------|----------|--------------------------|-------------|-------------------------|---------------|---------------------|-----------------------|-----------|---------------------------------|--|
|   | MEASLES                      | RUBELLA* | MUMPS | PERTUSSIS | TETANUS |                    |                             |             |                      |          |                          |             |                         |               |                     |                       |           |                                 |  |
| TOTAL TO DATE 19 80   | 11                           | 9        | 62    | 4         | 1       | 35                 | 399                         | 117         | 0                    | 37       | 61                       | 149         | 220                     | 0             | 44                  | 2                     | 11074     | 603                             | 7  |
| TOTAL TO DATE 19 81   | 0                            | 9        | 3     | 5         | 2       | 29                 | 410                         | 167         | 0                    | 3        | 85                       | 39          | 192                     | 0             | 79                  | 1                     | 9912      | 822                             | 20   |
| TOTAL THIS MONTH  | 0                            | 0        | 0     | 1         | 2       | 9                  | 77                          | 31          | 0                    | 0        | 6                        | 12          | 33                      | 0             | 26                  | 0                     | 1521      | 150                             | 5  |
| ACADIA  |                              |          |       |           |         | 2                  | 2                           | 1           |                      |          |                          |             |                         |               | 1                   |                       | 12        |                                 |  |
| ALLEN   |                              |          |       |           | 1       |                    |                             |             |                      |          |                          |             |                         |               | 2                   |                       | 2         |                                 |  |
| ASCENSION   |                              |          |       |           |         |                    |                             |             |                      |          |                          |             |                         |               |                     |                       | 5         | 2                               |  |
| ASSUMPTION  |                              |          |       |           |         |                    |                             |             |                      |          | 1                        |             |                         |               |                     |                       | 8         |                                 |  |
| AVOUELLES   |                              |          |       |           |         |                    |                             |             |                      |          |                          | 1           |                         |               |                     |                       |           |                                 | 1  |
| BEAUREGARD  |                              |          |       |           |         |                    | 1                           |             |                      |          |                          |             |                         |               |                     |                       | 4         |                                 |  |
| BIENVILLE   |                              |          |       |           |         |                    |                             |             |                      |          |                          |             |                         |               |                     |                       | 6         |                                 | 3  |
| BOSSIER   |                              |          |       |           |         | 1                  |                             | 2           |                      |          |                          |             |                         |               |                     |                       | 31        | 1                               | 1  |
| CADDO   |                              |          |       |           |         | 1                  | 3                           |             |                      |          |                          |             |                         |               |                     |                       | 129       | 17                              | 1  |
| CALCASIEU   |                              |          |       |           |         | 2                  |                             | 1           |                      |          | 1                        | 4           | 2                       |               | 6                   |                       | 79        | 3                               |  |
| CALDWELL  |                              |          |       |           |         |                    |                             |             |                      |          | 1                        | 1           |                         |               | 3                   |                       | 3         |                                 |  |
| CAMERON   |                              |          |       |           |         |                    |                             |             |                      |          |                          |             |                         |               |                     |                       | 1         |                                 |  |
| CATAHOULA   |                              |          |       |           |         |                    | 1                           | 1           |                      |          |                          |             |                         |               | 1                   |                       |           |                                 |  |
| CLAIBORNE   |                              |          |       |           |         |                    |                             |             |                      |          |                          |             |                         |               |                     |                       | 5         |                                 |  |
| CONCORDIA   |                              |          |       |           |         |                    |                             |             |                      |          |                          |             |                         |               |                     |                       | 1         |                                 |  |
| DESOTO  |                              |          |       |           |         |                    |                             |             |                      |          |                          |             |                         |               |                     |                       | 1         |                                 |  |
| EAST BATON ROUGE  |                              |          |       |           |         |                    | 1                           | 1           |                      |          |                          | 1           | 1                       |               |                     |                       | 120       | 12                              |  |
| EAST CARROLL  |                              |          |       |           |         |                    |                             |             |                      |          |                          |             |                         |               |                     |                       | 5         |                                 |  |
| EAST FELICIANA  |                              |          |       |           |         |                    |                             |             |                      |          |                          |             | 1                       |               |                     |                       | 11        |                                 |  |
| EVANGELINE  |                              |          |       |           |         |                    | 2                           |             |                      |          |                          |             | 1                       |               |                     |                       |           | 1                               | 1  |
| FRANKLIN  |                              |          |       |           |         |                    |                             |             |                      |          |                          |             |                         |               |                     |                       | 1         |                                 |  |
| GRANT   |                              |          |       |           |         |                    |                             |             |                      |          |                          |             |                         |               |                     |                       | 2         |                                 |  |
| IBERIA  |                              |          |       |           |         |                    |                             |             |                      |          |                          |             | 1                       |               |                     |                       | 11        | 3                               |  |
| IBERVILLE   |                              |          |       |           |         |                    |                             |             |                      |          |                          |             |                         |               |                     |                       | 9         |                                 |  |
| JACKSON   |                              |          |       |           |         |                    |                             |             |                      |          |                          |             |                         |               |                     |                       | 9         | 1                               |  |
| JEFFERSON   |                              |          |       |           |         |                    | 22                          | 4           |                      |          |                          |             |                         |               | 1                   |                       | 132       | 8                               |  |
| JEFFERSON DAVIS   |                              |          |       |           |         |                    |                             | 1           |                      |          |                          |             | 1                       |               |                     |                       | 9         | 1                               |  |
| LAFAYETTE   |                              |          |       |           |         |                    | 4                           | 6           |                      |          |                          |             |                         |               |                     |                       | 32        | 1                               |  |
| LAFOURCHE   |                              |          |       |           |         |                    | 2                           |             |                      |          |                          | 1           |                         |               |                     |                       | 27        |                                 |  |
| LASALLE   |                              |          |       |           |         |                    |                             |             |                      |          |                          |             | 1                       |               |                     |                       |           |                                 | 1  |
| LINCOLN   |                              |          |       |           |         |                    |                             |             |                      |          |                          |             |                         |               |                     |                       | 9         | 1                               |  |
| LIVINGSTON  |                              |          |       |           |         |                    | 1                           |             |                      |          | 1                        |             |                         |               |                     |                       | 1         |                                 |  |
| MADISON   |                              |          |       |           |         |                    |                             |             |                      |          |                          |             |                         |               |                     |                       | 4         | 1                               |  |
| MOREHOUSE   |                              |          |       |           |         |                    |                             |             |                      |          |                          |             |                         |               |                     |                       | 16        |                                 |  |
| NATCHITOCHE   |                              |          |       |           |         | 1                  | 1                           |             |                      |          |                          |             |                         |               |                     |                       | 2         |                                 | 6  |
| ORLEANS   |                              |          |       | 1         |         | 1                  | 9                           | 7           |                      |          | 2                        | 2           | 7                       |               | 1                   |                       | 581       | 67                              |  |
| OUACHITA  |                              |          |       |           |         |                    | 8                           |             |                      |          | 1                        |             | 1                       |               |                     |                       | 44        | 5                               |  |
| PLAQUEMINES   |                              |          |       |           |         |                    |                             |             |                      |          |                          |             | 1                       |               |                     |                       | 2         | 1                               |  |
| POINTE COUPEE   |                              |          |       |           |         |                    |                             |             |                      |          |                          |             |                         |               |                     |                       | 1         | 2                               | 2  |
| RAPIDES   |                              |          |       |           |         |                    |                             |             |                      |          |                          |             |                         |               | 2                   |                       | 16        | 5                               | 2  |
| RED RIVER   |                              |          |       |           |         |                    | 1                           |             |                      |          |                          |             |                         |               |                     |                       | 1         |                                 |  |
| RICHLAND  |                              |          |       |           |         |                    |                             |             |                      |          |                          |             | 2                       |               |                     |                       | 4         | 2                               |  |
| SABINE  |                              |          |       |           |         |                    |                             |             |                      |          |                          |             | 1                       |               |                     |                       | 1         | 2                               |  |
| ST. BERNARD   |                              |          |       |           |         |                    |                             | 1           |                      |          |                          |             |                         |               | 1                   |                       | 6         |                                 |  |
| ST. CHARLES   |                              |          |       |           |         | 1                  |                             |             |                      |          |                          |             | 1                       |               |                     |                       | 9         |                                 |  |
| ST. HELENA  |                              |          |       |           |         |                    |                             |             |                      |          |                          |             | 1                       |               |                     |                       | 1         |                                 |  |
| ST. JAMES   |                              |          |       |           |         |                    |                             |             |                      |          |                          |             | 2                       |               |                     |                       | 8         |                                 |  |
| ST. JOHN  |                              |          |       |           |         |                    | 2                           |             |                      |          |                          |             |                         |               |                     |                       | 7         |                                 |  |
| ST. LANDRY  |                              |          |       |           | 1       |                    | 2                           |             |                      |          |                          |             | 1                       |               |                     |                       | 3         | 6                               |  |
| ST. MARTIN  |                              |          |       |           |         |                    |                             |             |                      |          |                          |             | 1                       |               |                     |                       | 9         |                                 |  |
| ST. MARY  |                              |          |       |           |         |                    |                             |             |                      |          |                          |             | 1                       |               |                     |                       | 2         |                                 |  |
| ST. TAMMANY   |                              |          |       |           |         |                    | 2                           | 1           |                      |          |                          | 1           |                         |               |                     |                       | 17        |                                 |  |
| TANGIPAHOA  |                              |          |       |           |         |                    |                             | 1           |                      |          |                          |             |                         |               | 1                   |                       | 22        | 3                               |  |
| TENSAS  |                              |          |       |           |         |                    |                             |             |                      |          |                          |             |                         |               |                     |                       | 5         |                                 |  |
| TERREBONNE  |                              |          |       |           |         |                    | 8                           |             |                      |          |                          | 2           | 2                       |               | 3                   |                       | 23        |                                 |  |
| UNION   |                              |          |       |           |         |                    | 1                           |             |                      |          |                          |             |                         |               |                     |                       | 9         |                                 | 1  |
| VERMILION   |                              |          |       |           |         |                    | 2                           | 2           |                      |          |                          |             |                         |               | 2                   |                       | 7         |                                 |  |
| VERNON  |                              |          |       |           |         |                    |                             |             |                      |          |                          |             |                         |               |                     |                       | 3         |                                 | 1  |
| WASHINGTON  |                              |          |       |           |         |                    | 1                           | 2           |                      |          |                          |             | 2                       |               |                     |                       | 5         | 1                               |  |
| WEBSTER   |                              |          |       |           |         |                    | 1                           |             |                      |          |                          |             | 1                       |               |                     |                       | 16        | 2                               | 1  |
| WEST BATON ROUGE  |                              |          |       |           |         |                    |                             |             |                      |          |                          |             |                         |               |                     |                       | 10        |                                 |  |
| WEST CARROLL  |                              |          |       |           |         |                    |                             |             |                      |          |                          |             |                         |               |                     |                       |           |                                 |  |
| WEST FELICIANA  |                              |          |       |           |         |                    |                             |             |                      |          |                          |             |                         |               | 1                   |                       | 1         | 1                               |  |
| WINN  |                              |          |       |           |         |                    |                             |             |                      |          |                          |             |                         |               |                     |                       | 1         |                                 |  |
| OUT OF STATE  |                              |          |       |           |         |                    |                             |             |                      |          |                          |             |                         |               |                     |                       | 20        |                                 |  |

\* Includes Rubella, Congenital Syndrome.

\*\* Acquired outside United States unless otherwise stated.

From January 1, 1981 through June 30, 1981 the following cases were also reported : 1-Leptospirosis; 3- Reyes Syndrome



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