



State of Illinois
Illinois Department of Public Health

Annual Tuberculosis Report Illinois, 2009

February 2011

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Annual Tuberculosis Report Illinois, 2009

Introduction

Tuberculosis (TB) is a reportable disease in Illinois (suspect and confirmed case of active TB disease) caused by an infection of *Mycobacterium tuberculosis* complex. The sooner cases are reported to the local TB control authority (local programs), the sooner their personnel can begin investigations that may interrupt transmission of TB in the community. Delays in reporting may contribute to the spread of TB. The U.S. Centers for Disease Control and Prevention (CDC) has set national objectives to guide elimination of TB in the United States. Progress has been made toward meeting these objectives in Illinois (Appendix A).

In 2009, Illinois reported 418 TB cases of persons newly diagnosed with active TB disease (TB cases) and ranked fifth in the United States among states for the total number of TB cases reported (California 2,472; Texas 1,501; New York 1,006; and Florida 833). Illinois continues to report more TB cases among foreign-born (62%) than U.S.-born persons.

The incidence (number of new cases) of TB reported by local Illinois programs ranges from very low incidence (less than one case per year) of disease in rural counties, to high incidence (nearly 302 cases per year) in the Chicago metropolitan area.

The Illinois Department of Public Health (the Department) TB Program is responsible for statewide surveillance, management of the Illinois TB case registry, and oversight of TB prevention and control activities conducted by local programs. The state program continues to work with local programs to ensure accurate and timely reporting of TB disease in Illinois.

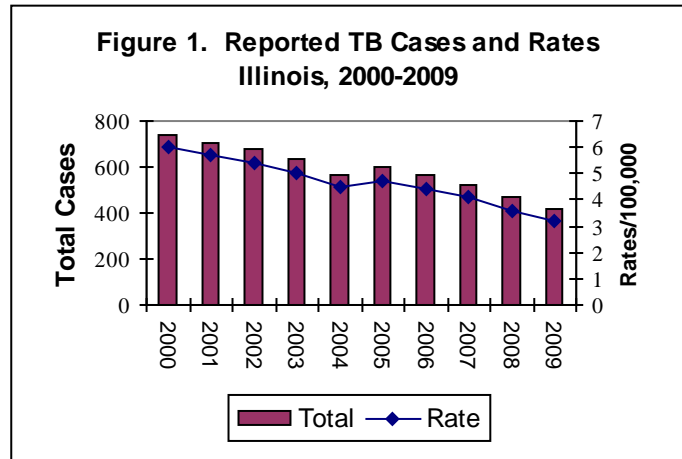
Surveillance data is used to direct public health efforts to identified high risk groups or individuals and geographic locations. The Department TB Program staff assist local programs through the provision of Directly Observed Therapy (DOT) grants, assessment and identification of local problems, appropriate interventions, assistance with outbreaks, orientation and training of local staff, and promotion and facilitation of networking with other programs.

This report provides an overview of statewide TB morbidity. For more detailed information on the TB incidence for Illinois jurisdictions and the city of Chicago, please refer to the following resources:

National level detailed surveillance reports can be obtained from the CDC at:
[Division of Tuberculosis Elimination - Surveillance Reports](#)

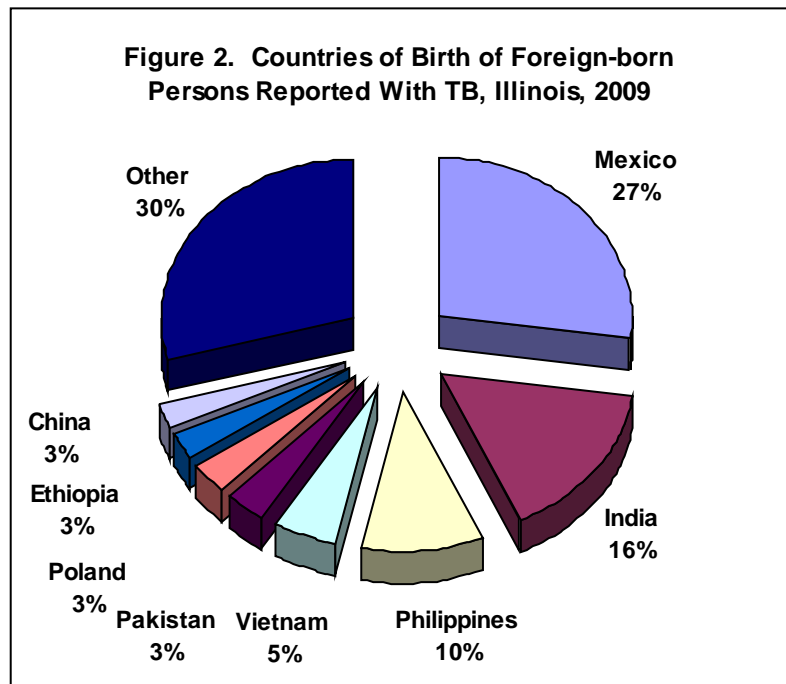
Executive Summary

This is the fourth consecutive year Illinois has observed a decrease in the total number of TB cases (Figure 1). During 2009, a total of 418 TB cases were reported, representing a decrease of 10.3 percent from the 469 cases reported in 2008. Since 2000, the number of TB cases reported annually in Illinois has decreased 44 percent. In 2009 the case rate in Illinois was 3.2 per 100,000 population, which remains below the 2009 national rate of 3.8 per 100,000 population.



In 2009, Suburban Cook County reported 100 TB cases which is no change from total reported in the previous year (Table 1). The percent of foreign-born TB cases reported in Suburban Cook County increased from 65 percent (65/100) in 2008 to 72 percent (72/100) in 2009 (Table B3). In 2009, for this area the highest numbers of foreign-born cases were from three countries: Philippines, Mexico and India.

The Chicago TB Program reported 202 TB cases in 2009 compared with 214 cases in 2008, representing a decrease of 6 percent. The percent of foreign-born TB cases reported in Chicago increased slightly from 54 percent (116/214) in 2008 to 55 percent (112/202) in 2009 (Table B3). The TB rate per 100,000 population decreased from 11.7 in 2005 to 7.1 in 2009 (Table B2).



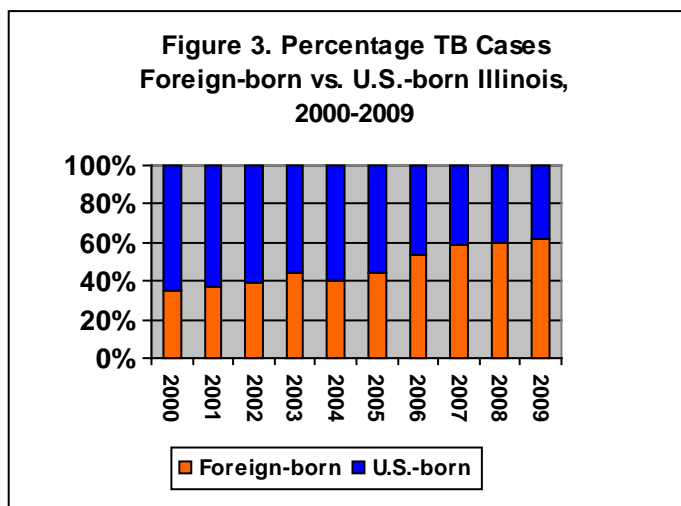
Illinois outside of Cook County reported a 22.6 percent decrease in the number of cases between 2008 and 2009 (Table 1). The largest decrease of cases from 2008 to 2009 for the jurisdiction outside of Cook County was reported among the Asian non-Hispanic race/ethnicity group (66 to 38).

In 2009, 61.5 percent (257/418) cases were foreign-born, coming from 41 countries. Mexico, India and Philippines accounted for 53 percent of all foreign-born cases reported (Figure 2). The percentage of foreign-born cases increased from 33 percent

(N=269) in 1999 to 61 percent (N=257) in 2009 (Figure 3). Among cases reported in 2009 within Illinois and outside of Chicago, 67.1 percent (N=145) were foreign-born.

Among the total cases reported between 2005 and 2009, 31.9 percent were black non-Hispanic, 28.4 percent Asian, 23.6 percent Hispanic and 15.1 percent white non-Hispanic. In 2009, the total cases reported among Asians accounted for both the largest percentage (30.6) and number of cases (N=128) among race/ethnic groups. Among the cases reported as Asian non-Hispanic, 95 percent were foreign-born (among Hispanics 85 percent, blacks non-Hispanic 19 percent and whites non-Hispanic 14.5 percent were foreign-born). During this five-year period, the percent change in number of cases varied among all race/ethnic groups. The changes were as follows: black non-Hispanic declined 42.7 percent, white non-Hispanic declined 31.3 percent, Hispanic declined 27.5 percent, and Asian declined 15.2 percent (Table B3).

Illinois demographic data shows that, from 2005 to 2009, by age group the highest average percentage was reported among the 25- to 44-year-old and 45- to 64-year-old age groups (32.9 and 32.2 percent respectively), whereas the highest rates per 100,000 persons were recorded among the 65 and older age group (Tables B7 and B8). During this same period, cases were divided 56.6 percent male to 43.4 percent female. The percentage of cases aged 15 and older reporting to be unemployed in the past 24 months decreased slightly from 44.7 percent in 2008 to 33.8 percent in 2009 (Table B12).



Regional differences by race and ethnicity were noted among cases reported in 2009. Among the 128 African-American non-Hispanic TB cases reported, 69.6 percent were reported within Chicago; 70.3 percent of the 128 Asian TB cases reported, were reported within Cook County including Chicago (Table B4).

Among all cases reported in 2009, 64.8 percent were pulmonary TB, 25.6 percent extra-pulmonary TB and 9.6 percent both. There were four multi-drug resistant (MDR) cases and no extensively drug-resistant TB (XDR-TB) cases were reported (Table B9).

Among the total cases reported between 2005 and 2009, 76.6 percent reported a valid human immunodeficiency virus HIV status (positive, negative or indeterminate). Of those cases with a valid HIV status reported during this five-year period, 6.0 percent of cases all ages were HIV positive. During this five-year period, reporting of HIV status for TB cases improved from 74.7 percent in 2005 to 80.4 percent in 2009 (Table B11).

Table 1 Tuberculosis Cases by Jurisdiction and Regions, 2009-2008

Jurisdiction	2009	2008	% Change
Illinois	418	469	-10.9%
Illinois Outside of Chicago (downstate)	216	255	-15.3%
Illinois Outside Cook County	120	155	-22.6%
Cook County	302	314	-3.8%
City of Chicago	202	214	-5.6%
Suburban Cook County	100	100	0.0%
DuPage County	29	43	-32.6%
Will County	10	15	-33.3%
Kane County	10	15	-33.3%
Lake County	11	23	-52.1%
St. Clair County	7	7	0.0%
McHenry County	3	5	-40.0%
Winnebago County	3	5	-40.0%
Rock Island County	1	1	0.0%
Champaign County	9	9	0.0%
Madison County	3	0	300.0%

IDPH Regions

Rockford	5	8	-37.5%
Peoria	11	7	+57.1%
Edwardsville	11	13	-15.4%
Marion	9	8	+12.5%
Champaign	14	14	0.0%
West Chicago	65	104	-37.5%
Chicago (Cook County)	302	314	-38.2%
TB Regions*	115	154	-25.3%
North	59	95	-37.9%
Central	36	38	-5.3%
South	20	21	-4.8%

* Illinois Department of Public Health and TB Regions are defined in appendix C.

Glossary of Definitions

Active tuberculosis (TB) disease

Diagnosis demonstrated by clinical, bacteriologic, or diagnostic imaging evidence, or a combination thereof. Persons who have been diagnosed as having active tuberculosis and have not completed a course of antituberculosis treatment are still considered to have active tuberculosis and may be infectious.

Directly observed therapy or DOT

Process by which a trained health care worker or other designated trained person watches the patient swallow each dose of TB medication.

Extensively drug resistant (XDR) TB

Active TB disease caused by *M. tuberculosis* organisms that are multi-drug resistant and also resistant to the best second-line medications: fluoroquinolones and at least one of three injectable drugs (i.e., amikacin, kanamycin or capreomycin).

Extra-pulmonary TB

TB disease occurring at a body site outside the lungs is not infectious, except in rare circumstances.

High-risk groups or individuals

Groups or individuals with an increased probability of becoming infected with TB, and/or who, once infected, have increased probability of progressing to active TB disease.

Local TB control authority

The agency at the local level recognized by the Department as having jurisdiction over the prevention and control of tuberculosis. The local TB control authority may be an autonomous TB board or a TB program within a local health department.

Multi-drug resistant (MDR) TB

Active TB disease caused by *M. tuberculosis* organisms that are resistant to at least anti-tuberculosis drugs isoniazid and rifampin.

Mycobacterium tuberculosis complex

Includes *M. tuberculosis*, the species that is most common cause of human active TB disease. Less common species include: *M. bovis* and *M. african*, *M. microti*, *M. canettii*, *M. caprae*, and *M. pinnipedii*.

Pulmonary TB

TB disease occurring in the lung.

Suspected TB case

A tentative diagnosis of active TB disease while diagnostic procedures are being completed, whether or not treatment has been started, or a person with an illness marked by symptoms and laboratory tests that may be indicative of tuberculosis.

Appendix A – Progress on Meeting National Program Objectives

Table A1 TB Program Performance Indicators Five-Year Trend, Illinois

	2004	2005	2006	2007	2008	2009	National Objective
Case Completion of Therapy (COT)¹	79.6% (402/505)	80.0% (419/524)	82.0% (414/505)	83.3% (380/456)	83.6% ⁶ (356/426)	NA	90%
Total Case COT²	92.8% (476/513)	91.3% (483/529)	92.3% (466/503)	94.3% (430/456)	91.3% ⁶ (390/426)	NA	NA
Case Susceptibility Testing³	NA	97.8% (442/452)	95.4% (404/437)	98.0% (398/406)	98.4% (360/366)	97.0% ⁶ (320/330)	92%
HIV Testing⁴	NA	86.3% (176/204)	88.6% (155/175)	88.1% (140/159)	92.3% (155/168)	91.1% ⁶ (133/146)	75%

¹ Includes all cases where less than one year of therapy was indicated. Excludes cases who died during therapy, or rifampin resistant, or pediatric (age <15) with meningeal, bone and joint, and miliary TB.

² Includes all cases starting therapy eligible to complete in less than or greater than one year of therapy

³ Includes all culture positive cases

⁴ Includes cases aged 25-44. Valid response includes positive, negative or indeterminate.

⁵ Contacts identified for sputum smear Acid Fast Bacillus (AFB) positive cases

⁶ Preliminary data as of December 2010

Appendix B – Illinois Data Summary

Table B1 Tuberculosis Cases Reported by Jurisdiction, Illinois, 2005-2009

COUNTY	2005	2006	2007	2008	2009	Total
Illinois, Total	596	569	521	469	418	2,573
ADAMS	0	2	0	0	2	4
ALEXANDER	0	0	0	0	0	0
BOND	0	0	0	0	0	0
BOONE	1	3	0	1	1	6
BROWN	0	0	0	0	0	0
BUREAU	0	1	0	0	0	1
CALHOUN	0	0	0	0	0	0
CARROLL	0	0	0	0	0	0
CASS	2	2	0	2	0	6
CHAMPAIGN	6	1	4	9	9	29
CHRISTIAN	0	0	1	2	0	3
CLARK	1	0	0	0	0	1
CLAY	0	0	0	0	1	1
CLINTON	0	0	0	0	0	0
COLES	0	0	0	1	1	2
COOK	453	408	398	314	302	1,875
CHICAGO	333	292	259	214	202	1,300
SUBURBAN COOK	120	116	139	100	100	575
CRAWFORD	0	0	0	0	0	0
CUMBERLAND	0	0	0	0	0	0
DEKALB	4	0	1	1	0	6
DEWITT	0	0	0	1	0	1
DOUGLAS	0	1	0	0	1	2
DUPAGE	29	44	27	43	29	172
EDGAR	0	0	1	0	0	1
EDWARDS	0	0	1	0	0	1
EFFINGHAM	2	0	0	0	0	2
FAYETTE	1	1	0	0	0	2
FORD	0	0	0	0	0	0
FRANKLIN	1	0	0	0	0	1
FULTON	0	1	0	0	0	1
GALLATIN	0	0	0	0	0	0
GREENE	0	0	0	0	0	0
GRUNDY	0	2	0	1	0	3
HAMILTON	0	0	1	0	0	1
HANCOCK	0	0	0	0	0	0
HARDIN	0	0	0	0	0	0
HENDERSON	0	0	0	0	0	0

COUNTY	2005	2006	2007	2008	2009	Total
HENRY	0	0	0	0	0	0
IROQUOIS	2	1	0	0	0	3
JACKSON	0	4	1	1	3	9
JASPER	0	0	0	0	0	0
JEFFERSON	1	1	1	0	0	3
JERSEY	0	1	0	1	0	2
JO DAVIESS	0	0	0	0	1	1
JOHNSON	0	0	0	0	0	0
KANE	10	15	13	15	10	63
KANKAKEE	2	2	0	1	1	6
KENDALL	0	0	1	3	1	5
KNOX	0	1	2	0	1	4
LAKE	30	21	10	21	11	93
LASALLE	1	1	2	0	1	5
LAWRENCE	0	0	0	0	2	2
LEE	0	0	0	0	0	0
LIVINGSTON	0	1	0	1	0	2
LOGAN	0	0	0	0	0	0
MCDONOUGH	0	0	0	0	0	0
MCHENRY	2	11	5	5	3	26
MCLEAN	1	5	2	1	2	11
MACON	3	0	0	0	0	3
MACOUPIN	0	0	0	1	0	1
MADISON	7	2	3	0	3	15
MARION	0	1	0	1	2	4
MARSHALL	0	0	0	0	0	0
MASON	0	0	0	0	0	0
MASSAC	0	0	0	0	0	0
MENARD	0	0	0	0	0	0
MERCER	0	0	0	0	0	0
MONROE	0	0	0	0	0	0
MONTGOMERY	0	0	1	0	0	1
MORGAN	0	0	0	0	0	0
MOULTRIE	0	0	0	0	0	0
OGLE	0	0	2	1	0	3
PEORIA	3	0	2	5	3	13
PERRY	0	0	0	0	0	0
PIATT	0	0	0	0	0	0
PIKE	0	0	1	0	0	1
POPE	0	0	0	0	0	0
PULASKI	0	0	2	2	0	4
PUTNAM	0	0	0	0	0	0
RANDOLPH	0	0	0	0	0	0

COUNTY	2005	2006	2007	2008	2009	Total
RICHLAND	1	0	0	0	0	1
ROCK ISLAND	1	0	4	0	1	6
ST. CLAIR	2	9	7	7	7	32
SALINE	1	0	0	2	0	3
SANGAMON	2	3	1	2	1	9
SCHUYLER	0	1	0	0	0	1
SCOTT	0	0	0	0	0	0
SHELBY	0	0	0	0	0	0
STARK	0	0	0	0	0	0
STEPHENSON	0	0	0	0	0	0
TAZEWELL	0	0	2	0	3	5
UNION	0	0	1	0	0	1
VERMILION	1	2	0	1	1	5
WABASH	0	0	0	1	0	2
WARREN	0	0	1	0	0	1
WASHINGTON	0	0	0	0	0	0
WAYNE	0	0	1	0	0	1
WHITE	0	0	1	0	0	1
WHITESIDE	0	0	0	0	0	0
WILL	18	10	17	15	10	70
WILLIAMSON	0	2	0	1	0	3
WINNEBAGO	7	5	4	5	3	24
WOODFORD	0	0	0	0	0	0
STATE-AT-LARGE	1	4	0	1	1	7

Table B2 Tuberculosis Cases and Rates¹ (per 100,000 Population), Illinois, 2005-2009

	2005	2006	2007	2008	2009
Illinois	596 (4.7)	569 (4.5)	521 (4.1)	469 (3.6)	418 (3.2)
Illinois Outside of Cook County	143 (1.9)	160 (2.1)	123 (1.6)	155 (2.0)	120 (1.6)
Cook County	453 (8.5)	408 (7.7)	398 (7.5)	314 (5.9)	302 (5.7)
Illinois Outside of Chicago	263 (2.7)	277 (2.8)	262 (2.6)	255 (2.5)	216 (2.1)
Suburban Cook County	120 (4.9)	116 (4.7)	139 (5.6)	100 (4.1)	100 (4.1)
City of Chicago	333 (11.7)	292 (10.3)	259 (9.1)	214 (7.5)	202 (7.1)

¹Source: US Census Bureau- See Appendix D-Table 1 for population data.

Figure B1 TB Morbidity, Number of Cases, Illinois, 1980-2009

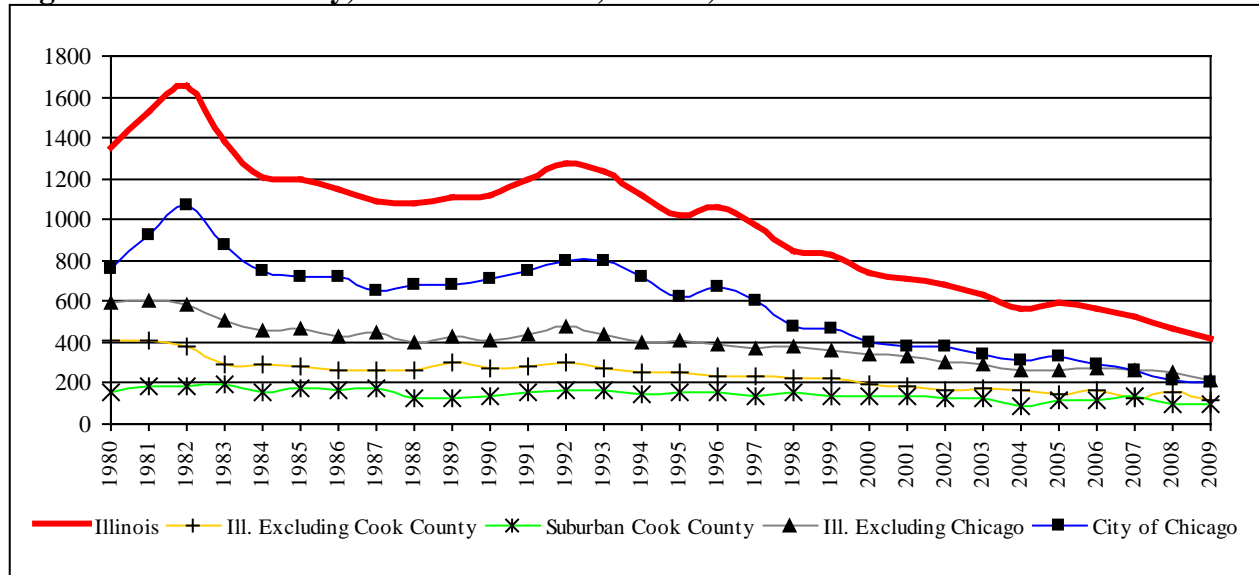


Figure B2 Distribution of Foreign-born Tuberculosis Cases, Illinois, 2005-2009

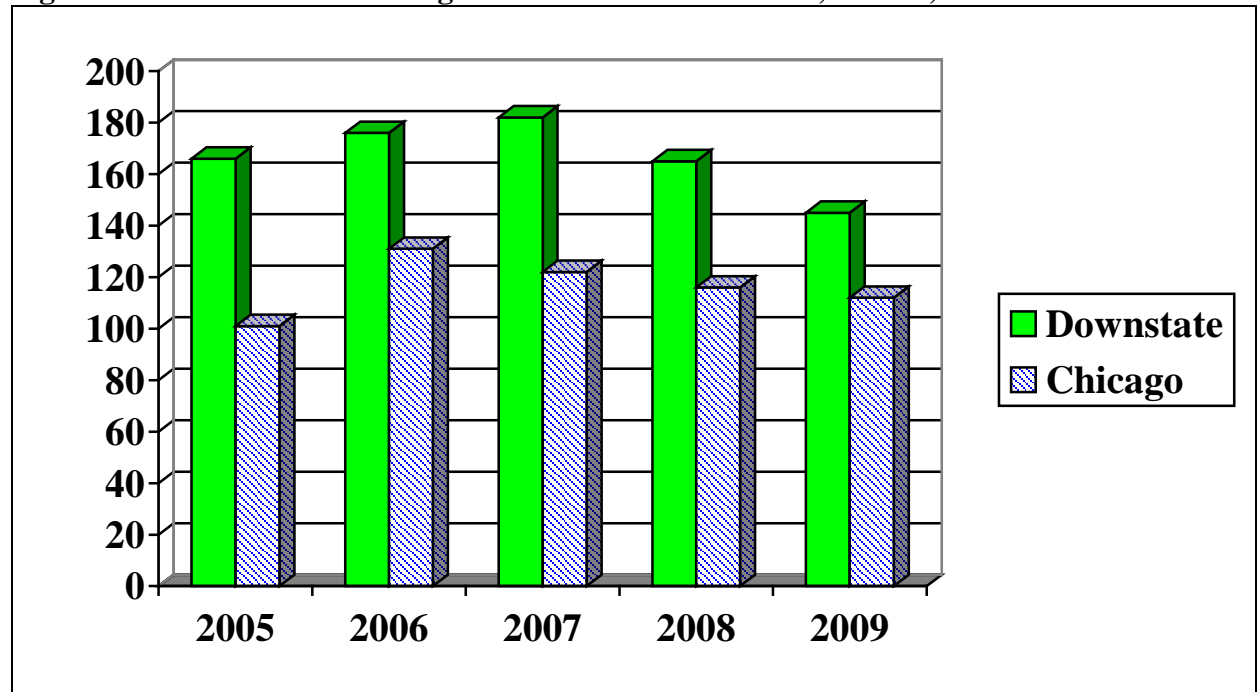


Table B2 Number of Foreign-born Tuberculosis Cases (percent of total cases), Illinois, 2005-2009

Year	2005	2006	2007	2008	2009	Total
Illinois	50.3% (296/589)	53.6% (302/563)	58.5% (311/521)	59.9% (281/469)	61.5% (257/418)	56.5% (1,447/2,560)
Illinois Outside of Cook County	61.5% (87/140)	58.1% (93/160)	62.6% (77/123)	64.5% (100/155)	62.9% (73/116)	61.9% (430/694)
Cook County	39.5% (179/453)	52.0% (212/408)	57.0% (227/398)	57.6% (181/314)	60.9% (184/302)	54.5% (1,017/1,866)
Illinois Outside of Chicago	63.1% (164/260)	62.3% (172/276)	69.8% (183/262)	64.7% (165/255)	67.1% (145/216)	65.3% (829/1,269)
Suburban Cook County	64.2% (77/120)	68.1% (79/116)	76.3% (106/139)	65% (65/100)	72% (72/100)	69.4% (399/575)
City of Chicago	40.1% (132/329)	45.3% (130/287)	49.4% (128/259)	54.2% (116/214)	55.4% (112/202)	69.4% (399/575)

Table B3 Tuberculosis Cases by Race/Ethnicity, Illinois, 2005-2009

	2005 (%)	2006 (%)	2007 (%)	2008 (%)	2009 (%)	Total
Total	596	569	521	469	418	2,573
White, Non-Hispanic	80 (13.4)	89 (15.6)	82 (15.7)	82 (17.5)	55 (13.2)	388 (15.1)
Black, Non-Hispanic	218 (36.6)	186 (32.7)	157 (30.1)	135 (28.8)	125 (29.9)	821 (31.9)
Hispanic	138 (23.1)	143 (25.1)	131 (25.1)	96 (20.5)	100 (23.9)	608 (23.6)
American Indian or Alaskan Native	2 (0.3)	0 (0.0)	0 (0.0)	0 (0.0)	1 (0.2)	3 (0.1)
Asian	151 (25.3)	151 (26.5)	149 (28.6)	152 (32.4)	128 (30.6)	731 (28.4)
Native Hawaiian or Pacific Islander ¹	2 (0.3)	0 (0.0)	0 (0.0)	0 (0.0)	1 (0.2)	3 (0.1)
Multiple Races Indicated ²	5 (0.8)	0 (0.0)	1 (0.2)	1 (0.2)	0 (0.0)	7 (0.3)
Unknown	0 (0.0)	0 (0.0)	1 (0.2)	3 (0.6)	8 (2.0)	12 (0.5)

¹ Native Hawaiian or Pacific Islander was included in Asian before 2003.

² Multiple race reporting was not possible with the pre-2003 RVCT.

Table B4 Tuberculosis Cases by Race/Ethnicity, Illinois, 2009

	Total Cases	White, Non-Hispanic (%)	Black, Non-Hispanic (%)	Hispanic (%)	American Indian or Alaskan Native (%)	Asian (%)	Native Hawaiian or Pacific Islander (%)	Multiple Race Indicated (%)	Unknown (%)
Illinois	418	55 (13.2)	125 (29.9)	100 (23.9)	1 (0.2)	128 (30.6)	1 (0.2)	0 (0.0)	8 (2.0)
Illinois Outside of Cook County	116	20 (17.2)	28 (24.1)	27 (23.3)	0 (0.0)	38 (32.8)	0 (0.0)	0 (0.0)	3 (2.6)
Cook County	302	35 (11.6)	97 (32.1)	73 (24.2)	1 (0.3)	90 (29.8)	1 (0.3)	0 (0.0)	5 (1.7)
Illinois Outside of Chicago	216	21 (10.4)	87 (43.1)	49 (24.3)	0 (0.0)	45 (22.3)	0 (0.0)	0 (0.0)	0 (0.0)
Suburban Cook County	100	14 (14.0)	10 (10.0)	24 (24.0)	1 (1.0)	45 (45.0)	1 (1.0)	0 (0.0)	5 (5.0)
City of Chicago	202	21 (10.4)	87 (43.1)	49 (24.3)	0 (0.0)	45 (22.3)	0 (0.0)	0 (0.0)	0 (0.0)

Table B6 Tuberculosis Cases by Race/Ethnicity by Sex, by Age Group, Illinois, 2009

	All Ages	0-4	5-14	15-24	25-44	45-64	65+
Total	418	14	2	51	144	132	75
Male	238	4	0	20	80	89	45
Female	180	10	2	31	64	43	30
White, Non-Hispanic	55	2	0	3	12	15	23
Male	37	0	0	1	9	14	13
Female	18	2	0	2	3	1	10
Black, Non-Hispanic	125	5	0	10	48	55	20
Male	76	2	0	5	27	19	8
Female	49	3	0	5	21	36	12
Hispanic	102	5	2	18	39	34	11
Male	62	1	0	7	29	27	4
Female	40	4	2	11	10	7	7
American Indian or Alaskan Native	1	0	0	1	0	0	0
Male	1	0	0	1	0	0	0
Female	0	0	0	0	0	0	0
Asian, Non-Hispanic	125	2	1	18	48	35	21
Male	56	1	0	5	21	16	13
Female	69	1	1	13	27	19	8
Native Hawaiian or Pacific Islander¹, Non-Hispanic	1	0	0	0	0	0	1
Male	1	0	0	0	0	0	1
Female	0	0	0	0	0	0	0
Multiple Races Indicated², Non-Hispanic	1	0	0	0	0	1	0
Male	1	0	0	0	0	1	0
Female	0	0	0	0	0	0	0
Unknown	8	0	0	1	2	0	1
Male	4	0	0	1	0	0	1
Female	4	0	0	0	2	0	0

¹ Native Hawaiian or Pacific Islander was included in Asian before 2003.² Multiple race reporting was not possible with the pre-2003 RVCT.

Table B7 Tuberculosis Cases by Age Group, Illinois, 2005-2009

	Age Group						
	Total Cases All Ages	0-4 (%)	5-14 (%)	15-24 (%)	25-44 (%)	45-64 (%)	65+ (%)
2005	596	22 (3.7)	24 (4.0)	63 (10.6)	203 (34.1)	180 (30.2)	104 (17.5)
2006	569	29 (5.1)	15 (2.6)	52 (9.1)	175 (30.8)	182 (32.0)	116 (20.4)
2007	521	10 (1.9)	7 (1.4)	44 (8.5)	159 (30.5)	179 (34.4)	122 (23.4)
2008	469	9 (1.9)	5 (1.1)	44 (9.4)	166 (35.4)	155 (33.0)	90 (19.2)
2009	418	14 (3.3)	2 (0.5)	51 (12.2)	144 (34.4)	132 (31.6)	75 (17.9)
Total	2573	84 (3.3)	53 (2.1)	254 (9.9)	847 (32.9)	828 (32.2)	507 (19.7)

Table B8 Tuberculosis Cases by Age Group, Rates¹ per 100,000 Population, Illinois, 2005-2009

	Age Group Rates per 100,000 ¹					
	0-4	5-14	15-24	25-44	45-64	65+
2005	2.5	1.2	3.4	5.6	5.5	6.6
2006	3.1	0.9	2.9	4.8	5.6	7.3
2007	1.1	0.4	2.4	4.4	5.6	7.9
2008	1.0	0.3	2.4	4.6	4.9	5.8
2009	1.6	0.1	2.8	4.0	4.1	4.8

¹Source: U.S. Census Bureau. Illinois rates based on 2007 population estimates from the U.S. Census Bureau. See Appendix D for population numbers.

Table B9 MDR¹ and Isoniazid² Drug Resistance in Culture Positive Cases, Illinois, 2005-2009

	Year	2005	2006	2007	2008	2009
Illinois	INH Resistant	7.5% (33/442)	6.5% (27/413)	8.6% (34/397)	7.6% (28/367)	5.7% (24/320)
	MDR Resistant	0.0% (0/442)	0.2% (1/413)	1.0% (4/397)	0.5% (2/367)	1.0% (4/320)
Illinois Outside of Cook County	INH Resistant	11.2% 12/108	1.9% (3/114)	6.3% (6/95)	6.7% (8/120)	3.0% (4/151)
	MDR Resistant	0.0% 0/110	0.0% (0/114)	1.1% (1/95)	0.8% (1/120)	0.0% (0/151)
Cook County	INH Resistant	6.3% 21/341	8.0% (24/299)	9.3% (28/302)	8.1% (20/247)	8.2% (22/269)
	MDR Resistant	0.0% (0/341)	0.3 (1/299)	1.0% (3/302)	0.4% (1/247)	1.5% (4/269)
Illinois Outside of Chicago	INH Resistant	8.2% (17/207)	4.5% (9/201)	6.9% (14/203)	6.9% (14/203)	5.0% (8/161)
	MDR Resistant	0.0% (0/209)	0.5% (1/201)	1.5% (3/203)	0.5% (1/203)	1.9% (3/161)
Suburban Cook County	INH Resistant	5.1% (5/99)	6.9% (6/87)	7.4% (8/108)	7.2% (6/83)	6.0% (6/100)
	MDR Resistant	0.0% (0/99)	1.1% (1/87)	1.9% (2/108)	0.0% (0/83)	2.0% (2/100)
Chicago	INH Resistant	6.8% (16/235)	8.5% (18/212)	10.3% (20/194)	8.5% (14/164)	9.5% (16/169)
	MDR Resistant	0.0% (0/235)	0.0% (0/212)	0.5% (1/194)	0.6% (1/164)	1.2% (2/169)

¹ Isolates resistant to at least isoniazid and rifampin

² Isoniazid resistant cases also may be resistant to other drugs, while being susceptible to rifampin.

Table B10 Tuberculosis Cases by Directly Observed Therapy (DOT), Illinois, 2004-2008

Year	Total Cases	Cases Eligible for DOT ¹	DOT				Unknown or Missing (%)
			Totally Self-Administered (%)	Totally DOT (%)	Both DOT and SA (%)	Total (%)	
2004	569	546	134 (24.5)	304 (55.7)	110 (20.2)	414 (75.8)	0 (0.0)
2005	596	575	173 (30.1)	312 (54.3)	93 (16.2)	405 (70.4)	0 (0.0)
2006	569	551	172 (31.2)	288 (52.3)	91 (16.5)	379 (68.8)	0 (0.0)
2007	521	507	96 (18.9)	283 (55.8)	101 (19.9)	384 (75.7)	27 (5.3)
2008	469	462	100 (21.6)	206 (44.6)	152 (32.9)	358 (77.5)	4 (0.9)
Total	2,724	2,641	675 (25.6)	1,393 (52.7)	547 (20.7)	1,940 (73.5)	31 (1.2)

¹ Includes cases alive at diagnosis with an initial drug regimen of one or more drugs prescribed

Table B11 Tuberculosis Cases by HIV Reporting, Illinois, 2005-2009

Year	Total Cases	Valid Response ¹ (%)	Total Cases HIV Positive ² (%)
2005	596	440 (74.7)	39 (6.5)
2006	569	418 (74.2)	27 (4.7)
2007	521	384 (73.7)	32 (6.1)
2008	469	393 (83.8)	35 (7.5)
2009	418	336 (80.4)	22 (5.3)
Total	2,573	1,971 (76.6)	155 (6.0)

¹ Valid response includes (0) negative, (1) positive or (2) indeterminate.

² Positive results are based on either medical documentation or patient history.

**Table B12 Tuberculosis Cases and Percentages by Occupation, Age 15 and Older, Illinois
2005– 2009**

Year	Total Cases	Correctional Worker (%)	Health Care Worker (%)	Migratory Agricultural Worker (%)	Not Employed Within Past 24 Months (%)	Other Occupation (%)	Unknown (%)
2005	555	0 (0.0)	22 (4.0)	0 (0.0)	288 (51.9)	167 (30.1)	78 (14.1)
2006	525	1 (0.2)	18 (3.4)	0 (0.0)	287 (54.7)	184 (35.0)	35 (6.7)
2007	507	1 (0.2)	19 (3.7)	0 (0.0)	254 (50.1)	168 (33.1)	64 (12.6)
2008	456	0 (0.2)	21 (4.6)	1 (0.2)	204 (44.7)	203 (44.5)	27 (5.9)
2009	402	1 (0.2)	22 (5.5)	0 (0.0)	136 (33.8)	201 (50.0)	39 (9.7)
Total	2,445	3 (0.1)	102 (4.2)	1 (0.4)	1,169 (47.8)	923 (37.8)	243 (9.9)

Table B13 Tuberculosis Cases by Risk Factors, Illinois, 2005– 2009

Year	Total Cases	Correctional Facility ¹ (%)	Homeless ² (%)	Long-Term Care Facility ³ (%)	Injection Drug Use ⁴ (%)
2005	596	14 (2.4)	23 (3.9)	11 (1.9)	5 (0.8)
2006	569	21 (3.7)	27 (4.7)	12 (2.1)	9 (1.6)
2007	521	15 (2.9)	34 (6.5)	8 (1.5)	3 (0.5)
2008	469	5 (1.1)	17 (3.6)	14 (3.0)	10 (2.1)
2009	418	6 (1.4)	25 (6.0)	13 (3.1)	7 (1.7)
Total	2,573	61 (2.4)	126 (4.9)	58 (2.3)	34 (1.3)

¹ Resident of correctional facility at time of diagnosis² Homeless in past 12 months³ Resident of long-term care facility at time of diagnosis⁴ Injection drug use in past 12 months**Table B14 Tuberculosis Cases by Verification Criteria, Illinois, 2005-2009**

Year	Total Cases ¹	Culture Confirmed (%)	Smear Positive (%)	Clinical Definition (%)	Provider Diagnosis (%)
2005	596	452 (75.8)	5 (0.8)	54 (9.1)	85 (14.3)
2006	569	440 (77.3)	5 (0.9)	56 (9.9)	68 (12.0)
2007	521	405 (77.9)	6 (1.2)	42 (8.1)	67 (12.9)
2008	469	367 (78.3)	3 (0.6)	51 (10.9)	48 (10.2)
2009	418	330 (78.9)	6 (1.4)	32 (7.7)	50 (12.0)
Total	2,573	1,994 (77.5)	25 (1.0)	235 (9.1)	318 (12.4)

Table B15 Tuberculosis Cases and Percentages by Reason Therapy Stopped, Illinois, 2004-2008

Year	Total Cases ¹	Completed (%)	Moved/Lost ⁴ (%)	Refused (%)	Died ² (%)	Unknown (%)
2004	551	477 (86.5)	40 (5.1)	3 (0.5)	33 (6.0)	8 (1.5)
2005	575	484 (84.0)	32 (5.6)	6 (1.0)	46 (8.0)	8 (1.4)
2006	550	471 (85.6)	31 (6.0)	4 (0.7)	40 (7.3)	2 (.36)
2007	503	436 (86.6)	23 (4.4)	2 (0.4)	40 (7.7)	2 (0.4)
2008 ³	458	393 (85.8)	17 (3.7)	9 (2.0)	29 (6.3)	10 (2.2)
Total	2,637	2,261 (85.7)	131 (5.1)	24 (0.9)	188 (7.1)	30 (1.1)

¹Number of cases alive at diagnosis with initial drug regimen prescribed

²Died = Died by any cause

³Preliminary data

⁴CDC has deleted “moved” as a reason for therapy stopped from the 2009 RVCT follow-up 2 form. Cases who moved and location is unknown are now reported as “lost”

Table B16 Tuberculosis Cases by Country of Origin, Illinois, 2005-2009

Country of Origin	2005	2006	2007	2008	2009	Total
Mexico	86	88	94	65	74	407
India	55	55	54	45	44	253
Philippines	32	39	47	46	28	192
China	14	15	14	13	7	63
Vietnam	8	10	6	18	14	56
Poland	15	6	10	10	9	50
Korea, Republic Of (South)	9	9	10	5	4	37
Ethiopia	6	6	3	7	8	30
Pakistan	4	3	7	5	9	28
Guatemala	4	4	7	3	2	20
Somalia	5	7	3	2	1	18
Burma	1	0	4	8	4	17
Ecuador	4	2	2	3	4	15
Russia	2	2	3	4	2	13
Honduras	2	2	4	3	1	12
Thailand	3	1	2	2	4	12
Korea, Democratic People's Republic of (North)	0	1	1	6	3	11
Nigeria	3	2	3	1	1	11
Cambodia	4	2	1	0	3	10
Congo (Brazzaville)	1	2	1	2	4	10
Haiti	5	1	1	1	1	9
Cameroon	1	1	1	1	4	8
Kenya	0	4	1	1	1	8
Mongolia	2	2	1	1	2	8
Peru	4	1	2	1	0	8
Ukraine	1	2	3	2	0	8
Nepal	1	3	1	0	2	7
Colombia	3	2	0	0	1	6
Zambia	2	0	3	0	0	5
Laos	1	0	1	4	0	6
Romania	1	4	0	1	0	6
Other Countries	17	26	20	21	20	104
Total	296	302	311	281	257	1,447

Appendix C - References

Tuberculosis Case Definition for Public Health Surveillance

see CDC reference: <http://www.cdc.gov/tb/surv/surv2002/PDF/AppendixB.pdf>

Recommendations for Counting Reported Tuberculosis Cases

see CDC reference: <http://www.cdc.gov/tb/surv/surv2002/PDF/AppendixC.pdf>

Appendix D – Illinois Department of Public Health and TB Regions

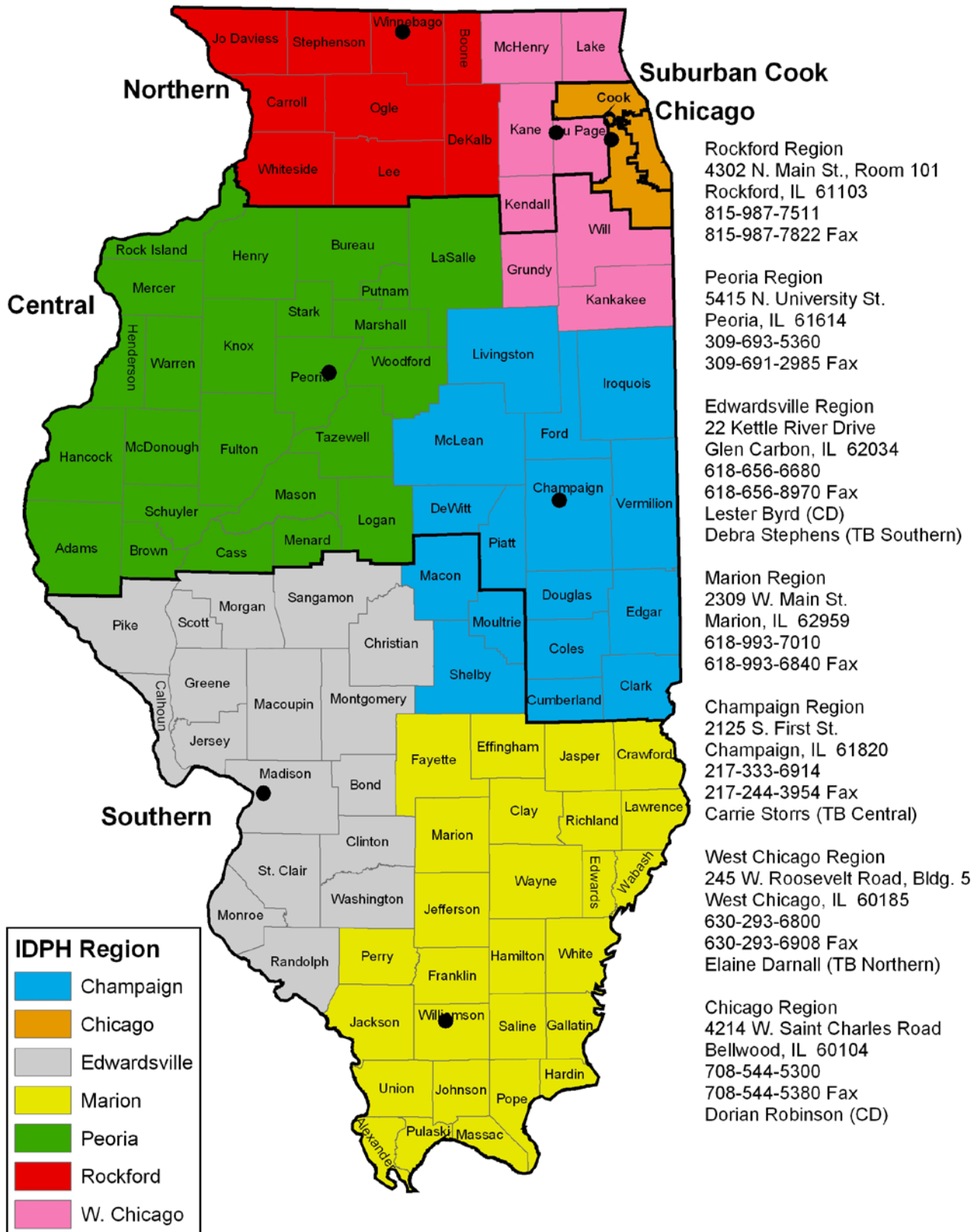
TB Regions vary from IDPH regions as follows:

Northern TB Region includes the counties in the Department's Rockford and West Chicago Region except Grundy, Kankakee and Will.

Central TB Region includes the counties in the Department's Peoria and Champaign Region, excluding Macon, Moultrie and Shelby and includes the Grundy, Kankakee and Will from the West Chicago Region.

Southern TB Region includes the counties in the Department's Edwardsville and Marion Region plus Macon, Moultrie and Shelby counties from Champaign Region.

Illinois Department of Public Health and TB Regions



TB Regions are bordered by the heavy black lines, with the name indicated to one side. Names and vacancies as of October 8, 2010.

Appendix E – Population Data

Table E1 Total Populations¹ by Year and by Jurisdiction, Illinois, 2005-2009

	2005	2006	2007	2008	2009
Illinois	12,719,550	12,777,042	12,852,548	12,901,563	12,901,563
Illinois Outside of Cook County	7,420,479	7,496,736	7,567,441	7,606,899	7,606,899
Cook County	5,299,071	5,280,306	5,285,107	5,294,664	5,294,664
Illinois Outside of Chicago	9,879,606	9,948,456	10,015,890	10,015,890	10,015,890
Suburban Cook County	2,459,127	2,451,720	2,448,449	2,448,449	2,448,449
City of Chicago	2,839,944	2,828,586	2,836,658	2,836,658	2,836,658

¹The 2009 population estimate was not available for Chicago and Suburban Cook County at the time of this report. Rates were calculated using 2008 population estimate for Chicago, Suburban Cook County and Illinois outside of Chicago.

Table E2 Population¹ by Age Group, Illinois, 2007

0-4	5-14	15-24	25-44	45-64	+65
891,315	1,752,118	1,847,996	3,620,379	3,191,959	1,548,781

¹Age group data taken from the U.S. Census Bureau 2007 population estimate