

# West Virginia TUBERCULOSIS PROFILE 2009



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BUREAU FOR PUBLIC HEALTH  
Office of Epidemiology & Prevention Services  
Division of Tuberculosis Elimination



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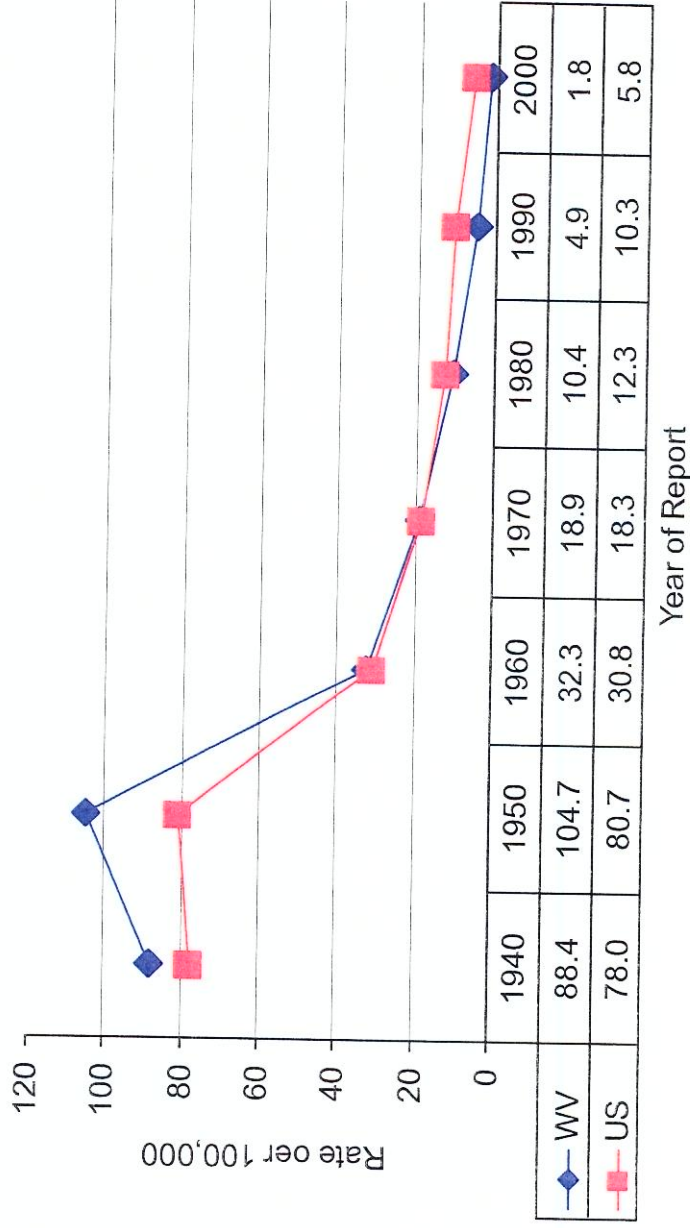
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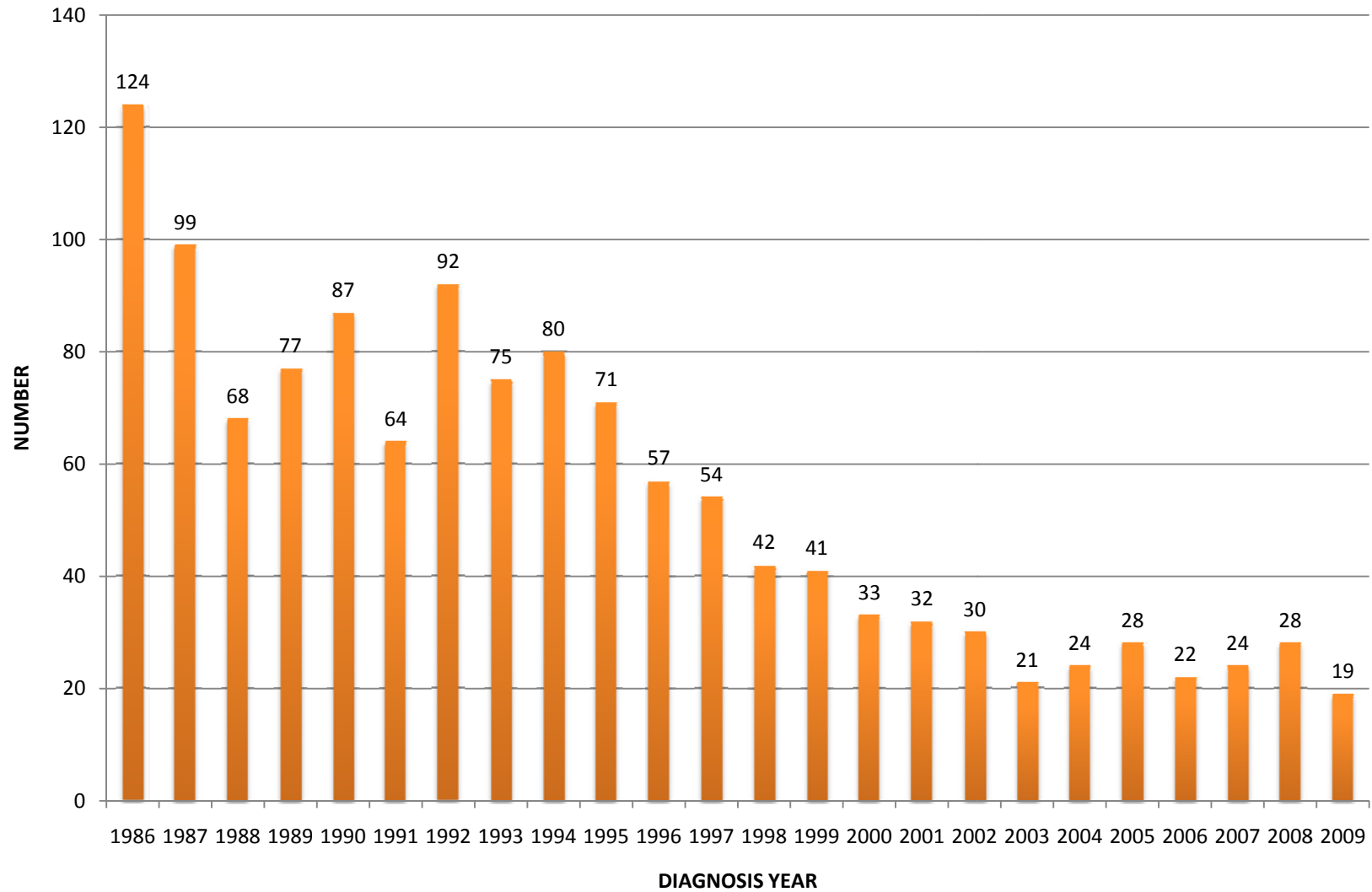
## TB Advisory Committee

1. Kelli Caseman American Lung Association
2. Dr. Edward Dugan WV School of Osteopathic Medicine
3. Dr. Melanie Fisher West Virginia University
4. Dr. Dominic Gaziano Division of TB Elimination  
Medical Director
5. Dr. Loretta Haddy State Epidemiologist
6. Dr. D.E. Hendricks Clinician, Eastern Panhandle
7. Rebecca King Department of Education
8. Judy McGill Public Health Nursing and Administration
9. Carmen Priddy Division of TB Elimination Director
10. Dr. Cathy Slemph State Health Officer
11. Ann Goldberg Counsel – BPH
12. Dr. Harry Tweel Cabell-Huntington Health Department
13. Carolyn Winkler Division of TB Elimination  
Surveillance Nurse
14. Dr. Rahul Gupta Kanawha-Charleston Health Department

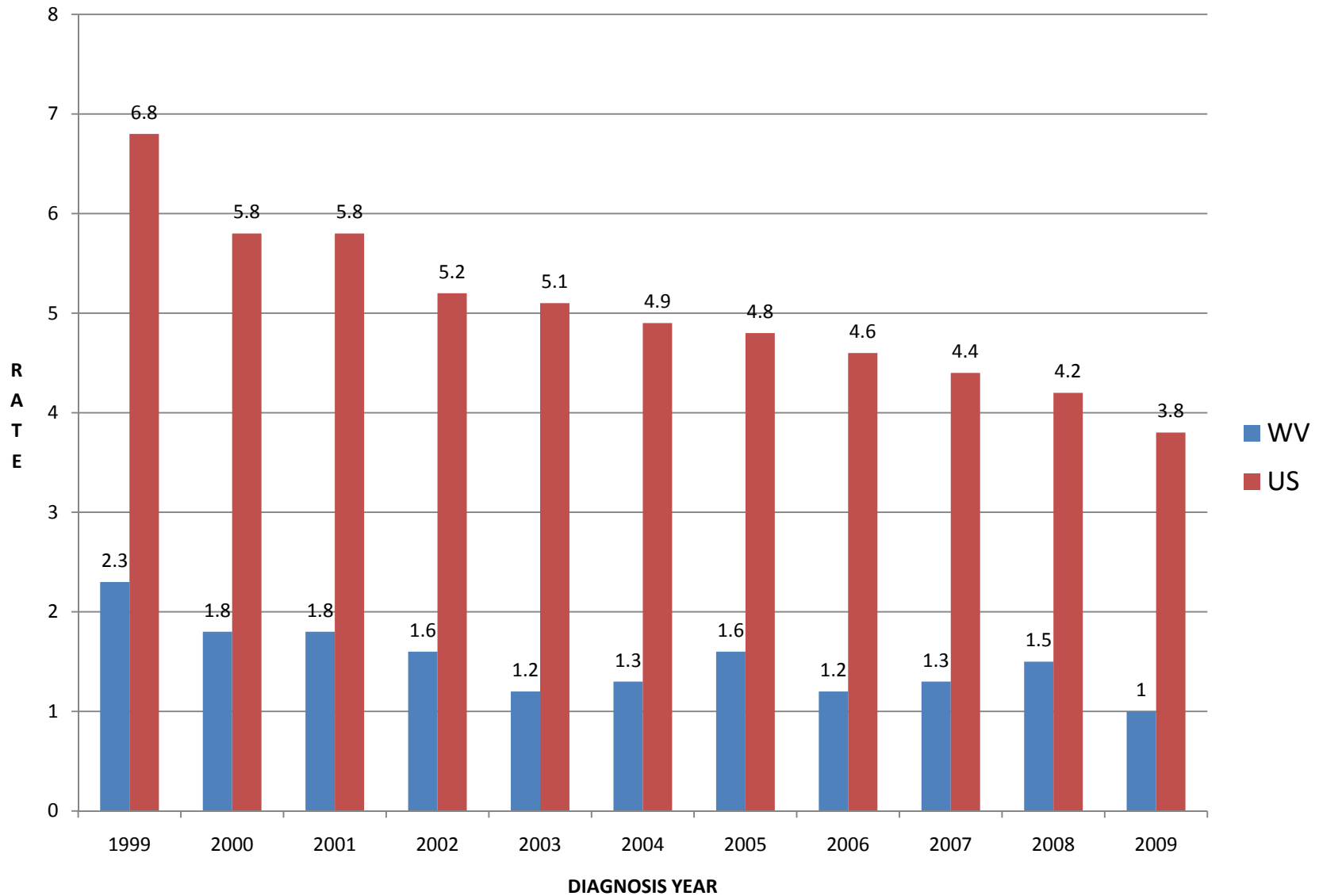
Tuberculosis Incidence Rates by Year of Report  
 West Virginia and United States Decennial Rates, 1940-2000



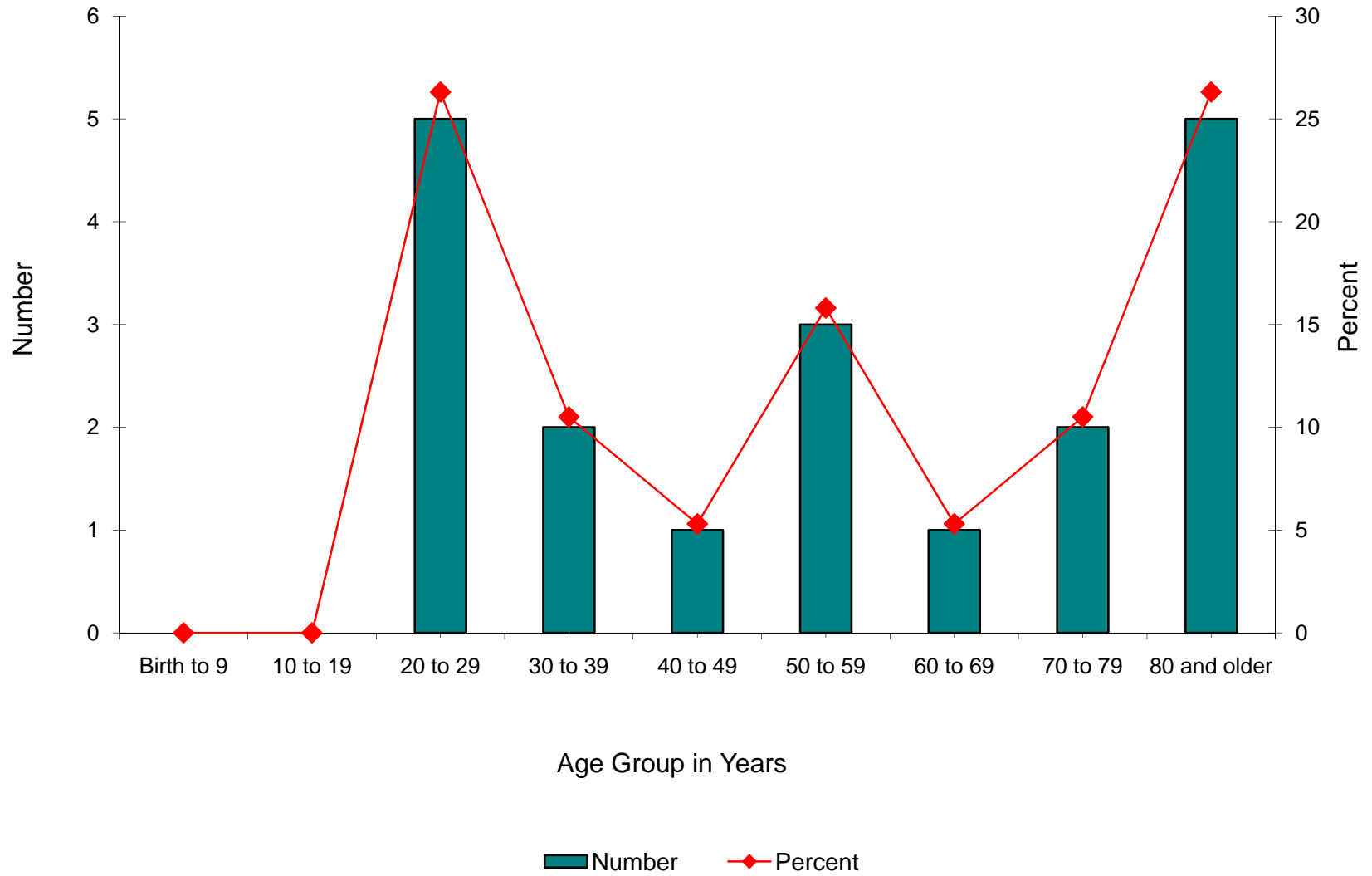
## Number of Newly Diagnosed TB Cases in WV



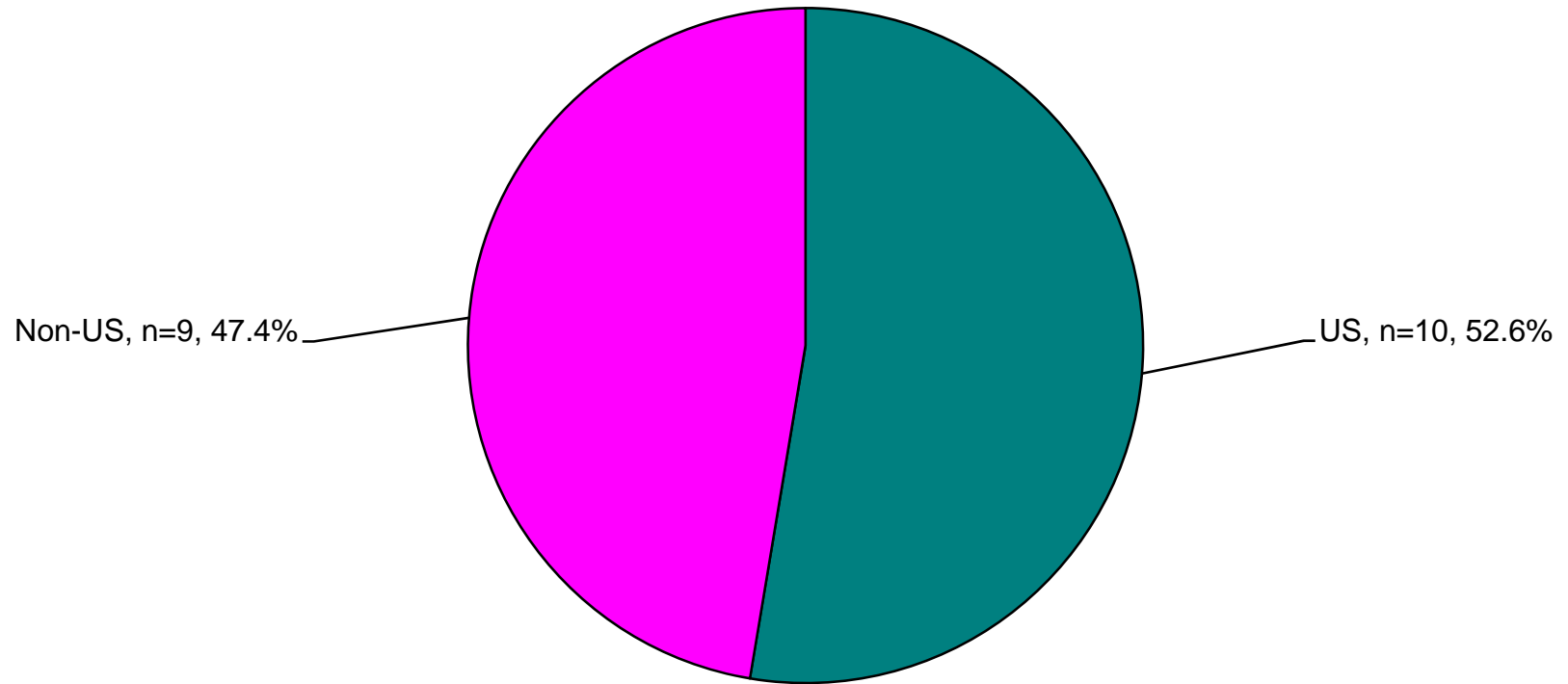
### TB Incidence Rates per 100,000 by Diagnosis Year



2009 West Virginia TB Cases: Age Group



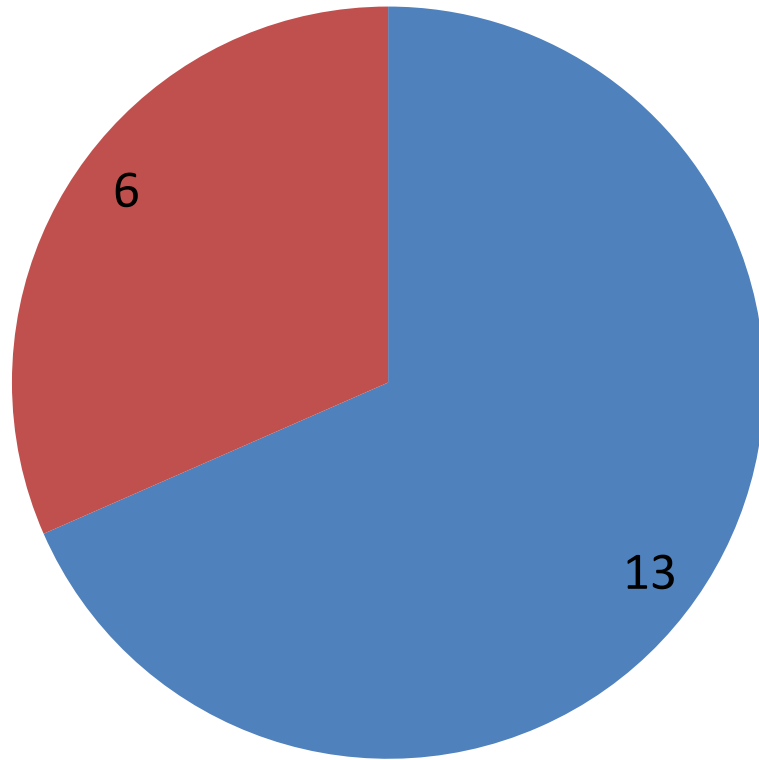
### 2009 West Virginia TB Cases by Country of Origin





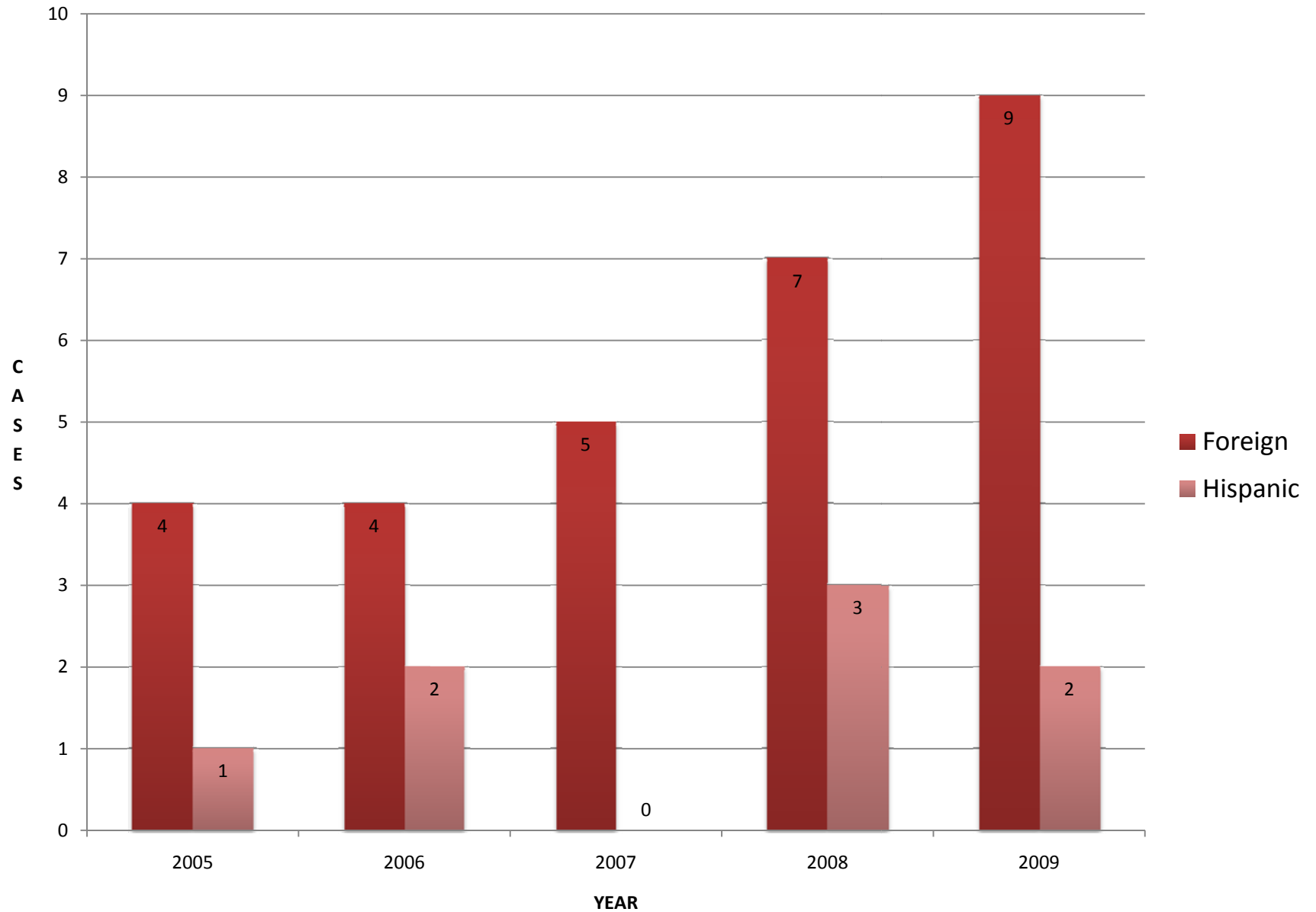
# 2009 TB CASES BY GENDER

Total Cases: 19

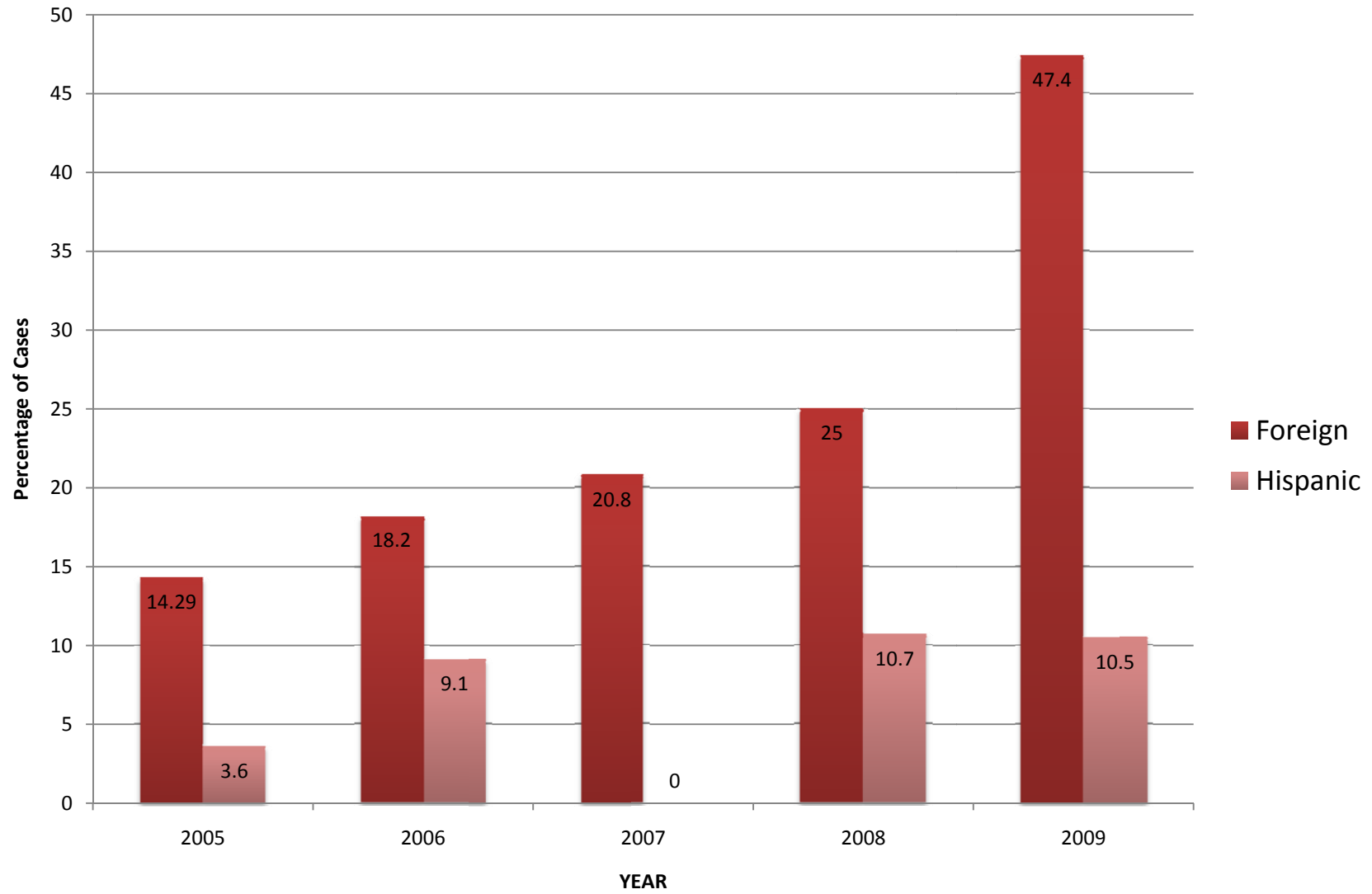


■ Male  
■ Female

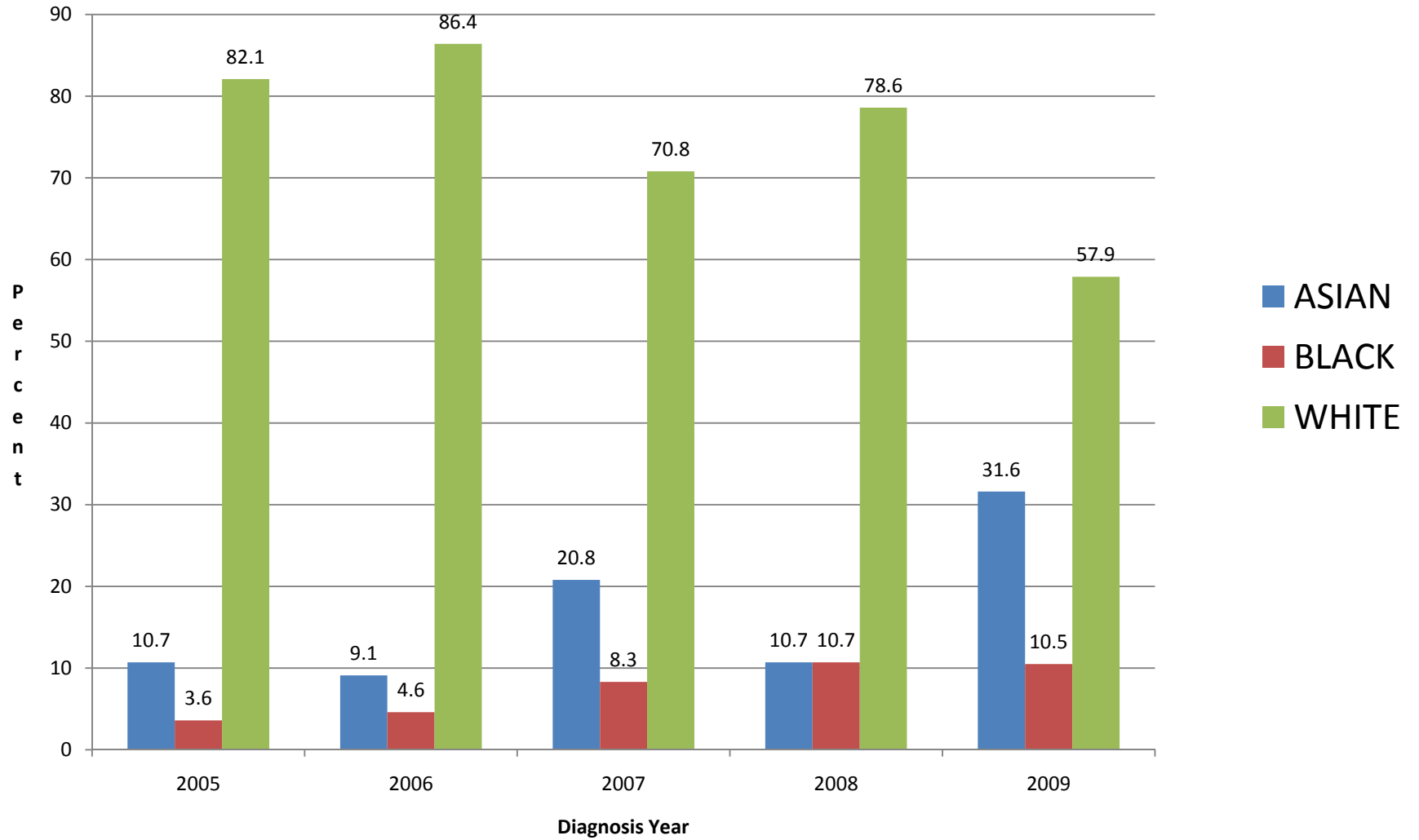
## NUMBER of Cases: Foreign-Born vs. Hispanic



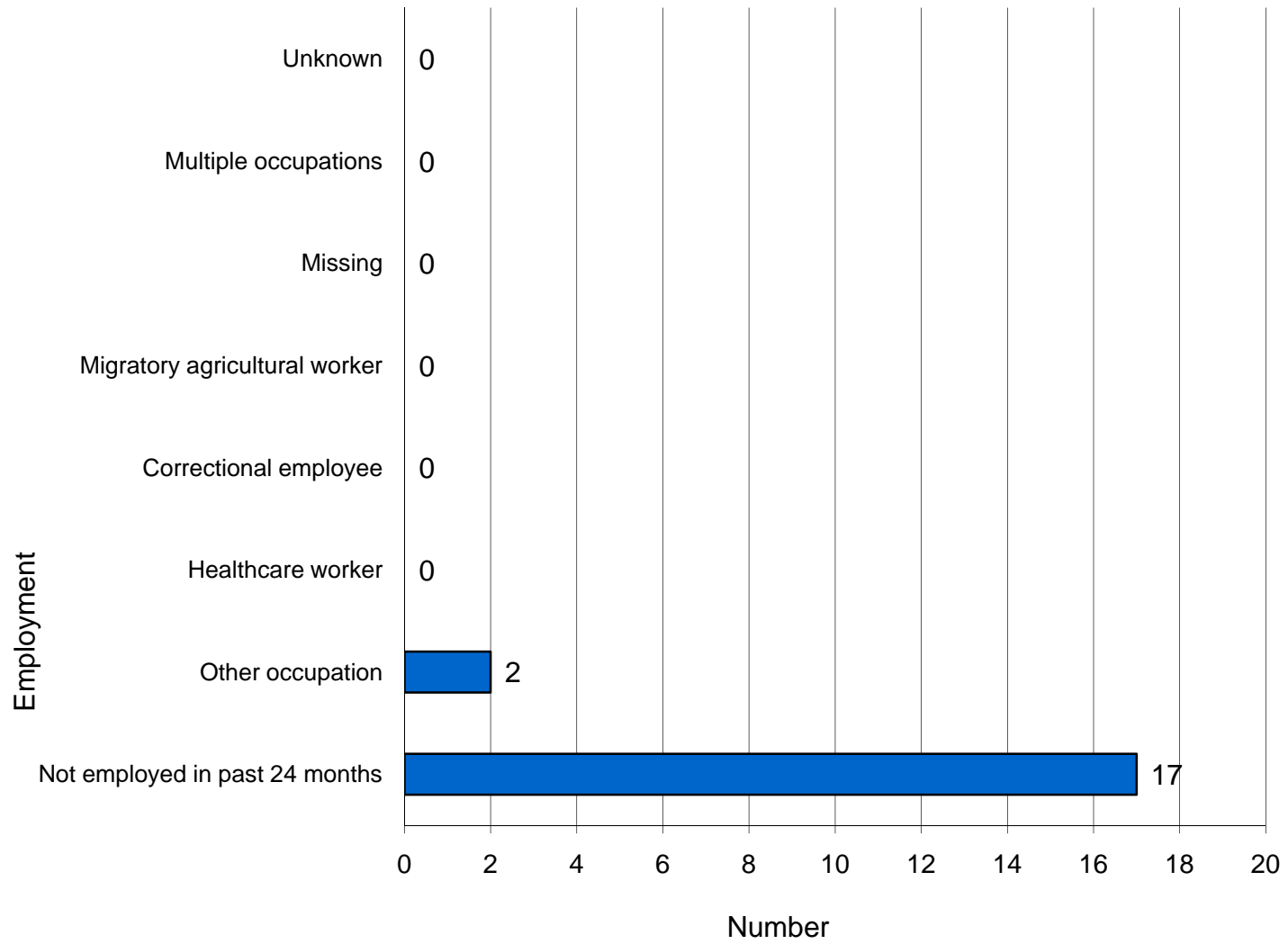
## PERCENTAGE of Cases: Foreign-Born vs. Hispanic



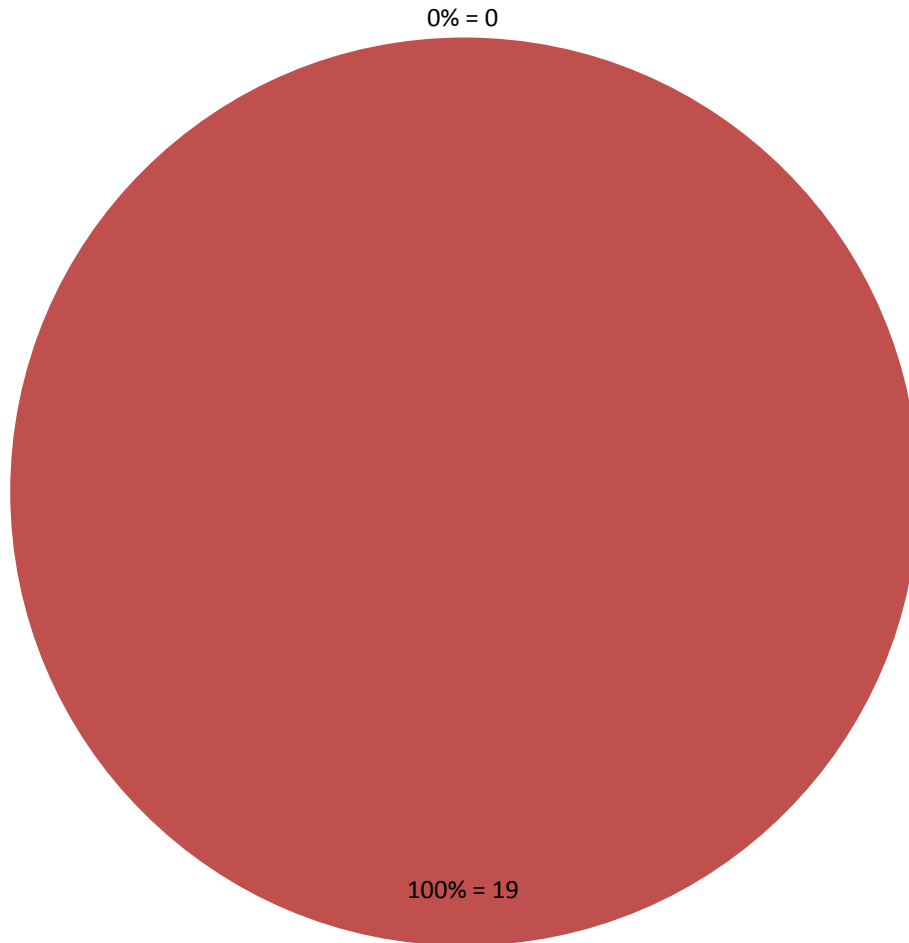
## Race of West Virginia TB Cases by Diagnosis Year



### 2009 West Virginia TB Cases: Employment at Diagnosis

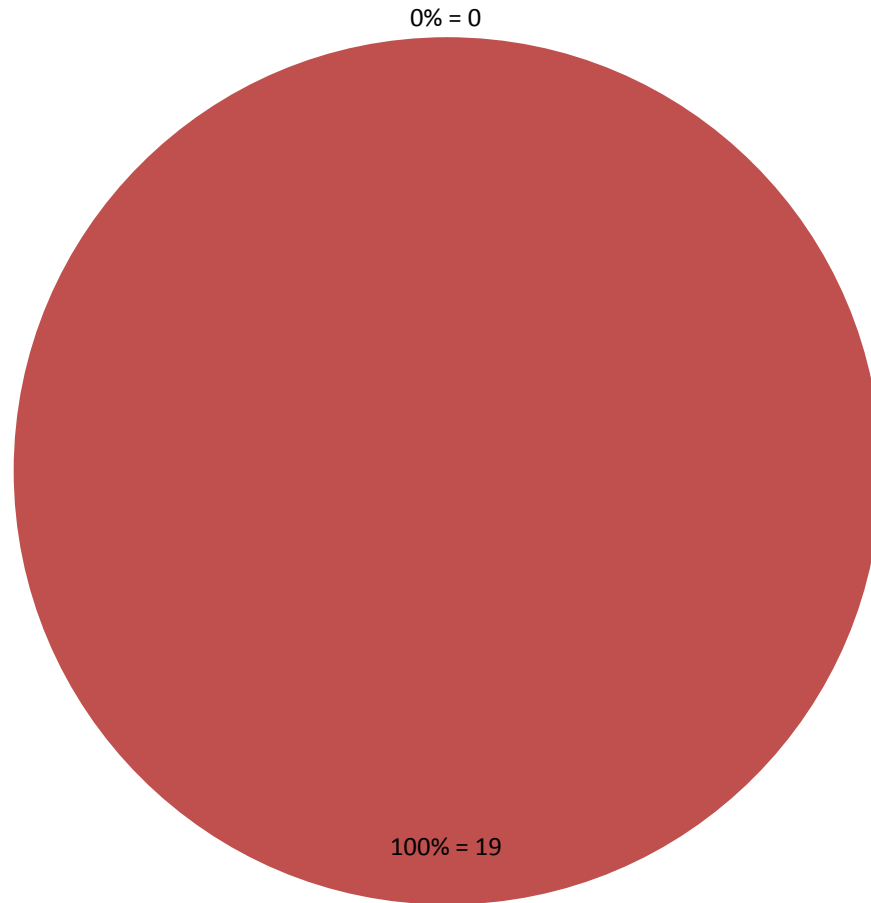


## 2009 WV TB Cases: 19 Injected Drug Use in the Past Year



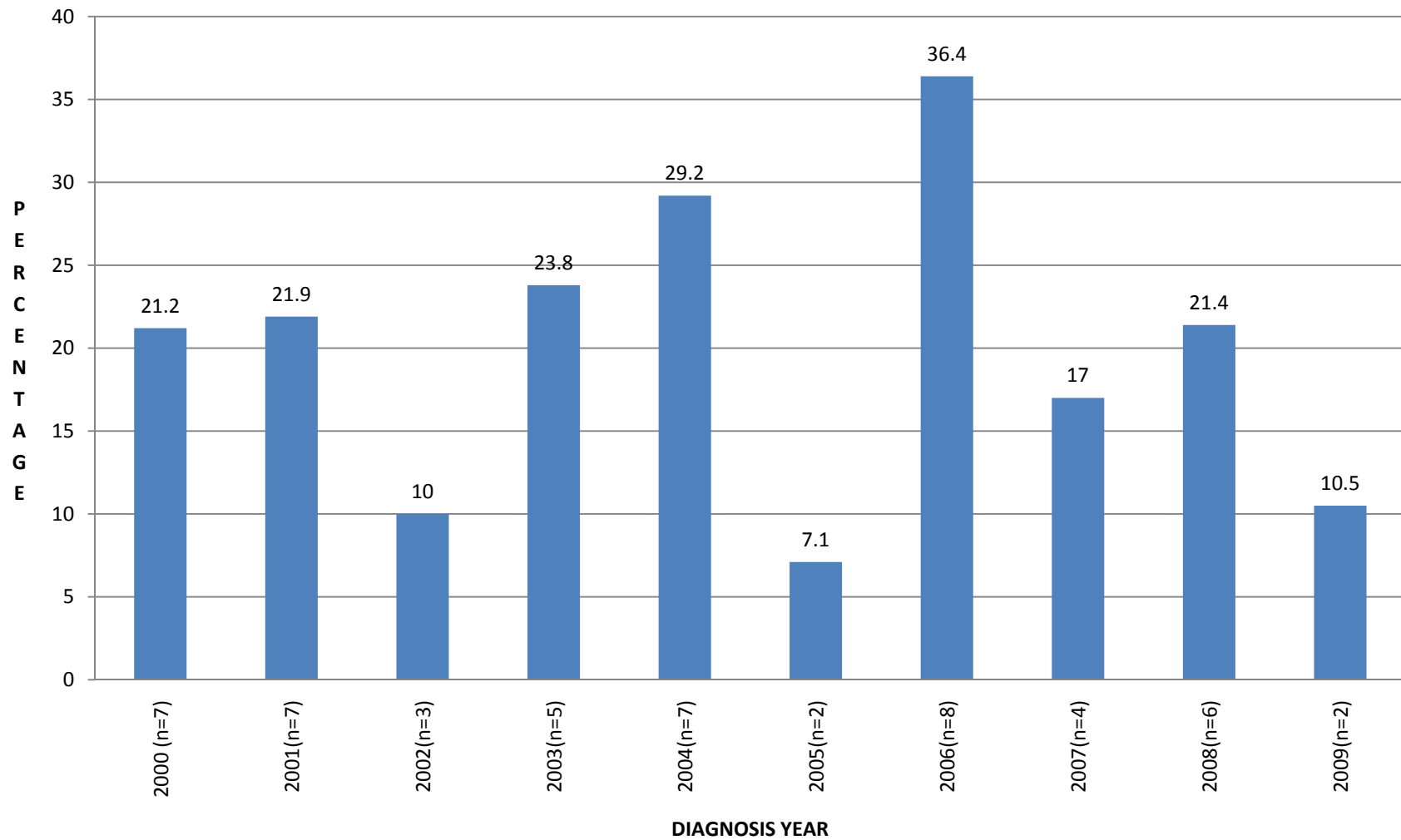
■ Acknowledged  
■ Denies

**2009 WV TB Cases: 19**  
**Non-Injected Drug Use in the Past Year**



- Acknowledged
- Denies

## Percentage of West Virginia TB Cases with Reported History of Alcohol Abuse in Past Year





SURVEILLANCE CLINICAL DATA  
 For the Month-Year Counted  
 BEGINNING 01/2009 AND ENDING 12/2009

Reporting Area: WEST VIRGINIA BUREAU OF PUBLIC HEALTH

Site Name: All Sites

County Name: All Counties

STATUS AT DIAGNOSIS OF TB

Classification	Number of Records	Percent
Alive	19	100.00 %
Dead	0	0.00 %
Unknown	0	0.00 %
Missing	0	0.00 %
Total	19	100.00 %

PREVIOUS DIAGNOSIS OF TB

Classification	Number of Records	Percent
No	18	94.74 %
Yes	1	5.26 %
Unknown	0	0 %
Missing	0	0 %
Total	19	100.00 %

SITE OF DISEASE (Calculated)

Classification	Number of Records	Percent
Pulmonary	13	68.42 %
Extrapulmonary	5	26.32 %
Both	1	5.26 %
Site Not Stated	0	0.00 %
Missing	0	0.00 %
Total	19	100.00 %

SPUTUM SMEAR

Classification	Number of Records	Percent
Positive	5	26.32 %
Negative	6	31.58 %
Not Done	8	42.11 %
Unknown	0	0.00 %
Missing	0	0.00 %
Total	19	100.00 %

SPUTUM CULTURE

Classification	Number of Records	Percent
Positive	9	47.37 %
Negative	2	10.53 %
Not Done	8	42.11 %
Unknown	0	0.00 %
Missing	0	0.00 %
Total	19	100.00 %

SURVEILLANCE CLINICAL DATA  
 For the Month-Year Counted  
 BEGINNING 01/2009 AND ENDING 12/2009

Reporting Area: WEST VIRGINIA BUREAU OF PUBLIC HEALTH

Site Name: All Sites

County Name: All Counties

MICROSCOPIC EXAM OF TISSUE AND OTHER BODY FLUIDS

Classification	Number of Records	Percent
Positive	6	31.58 %
Negative	5	26.32 %
Not Done	8	42.11 %
Unknown	0	0.00 %
Missing	0	0.00 %
Total	19	100.00 %

CULTURE OF TISSUE AND OTHER BODY FLUIDS

Classification	Number of Records	Percent
Positive	12	63.16 %
Negative	1	5.26 %
Not Done	6	31.58 %
Unknown	0	0.00 %
Missing	0	0.00 %
Total	19	100.00 %

CHEST X-RAY

Classification	Number of Records	Percent
Normal	4	21.05 %
Abnormal	15	78.95 %
Not Done	0	0.00 %
Unknown	0	0.00 %
Missing	0	0.00 %
Total	19	100.00 %

TUBERCULIN (MANTOUX) SKIN TEST AT DIAGNOSIS

Classification	Number of Records	Percent
Positive	5	26.32 %
Negative	3	15.79 %
Not Done	11	57.89 %
Unknown	0	0.00 %
Missing	0	0.00 %
Total	19	100.00 %

SURVEILLANCE CLINICAL DATA  
For the Month-Year Counted  
BEGINNING 01/2009 AND ENDING 12/2009

Reporting Area: WEST VIRGINIA BUREAU OF PUBLIC HEALTH

Site Name: All Sites

County Name: All Counties

**HIV STATUS**

Classification	Number of Records	Percent
Negative	11	57.89 %
Positive	0	0.00 %
Indeterminate	0	0.00 %
Refused	4	21.05 %
Not Offered	2	10.53 %
Test Done, Results Unknown	2	10.53 %
Unknown	0	0.00 %
Missing	0	0.00 %
<b>Total</b>	<b>19</b>	<b>100.00 %</b>

**INITIAL DRUG REGIMEN (Calculated)**

Classification	Number of Records	Percent
No Drugs	0	0.00 %
One Drug	0	0.00 %
INH, RIF, PZA, and EMB or SM	15	78.95 %
Isoniazid, Rifampin and Pyrazinamide	2	10.53 %
Isoniazid and Rifampin	0	0.00 %
Any other multiple drug combination	2	10.53 %
Unknown	0	0.00 %
<b>Total</b>	<b>19</b>	<b>100.00 %</b>

\*\*\* Confidential Patient Information \*\*\*

SURVEILLANCE DEMOGRAPHICS REPORT

For the Month-Year Counted

BEGINNING 01/2009 AND ENDING 12/2009

Reporting Area: WEST VIRGINIA BUREAU OF PUBLIC HEALTH

Site Name: All Sites

County Name: All Counties

**ETHNICITY**

Classification	Number of Records	Percent
Hispanic or Latino	2	10.53 %
Not Hispanic or Latino	17	89.47 %
Unknown	0	0.00 %
Missing	0	0.00 %
Total	19	100.00 %

**RACE (Calculated)**

Classification	Number of Records	Percent
Single Race:		
American Indian or Alaska Native	0	0.00 %
Asian	6	31.58 %
Black or African American	2	10.53 %
Native Hawaiian or Other Pacific Islander	0	0.00 %
White	11	57.89 %
Multiple Races	0	0.00 %
Unknown	0	0.00 %
Missing	0	0.00 %
Total	19	100.00 %

**SEX**

Classification	Number of Records	Percent
Male	13	68.42 %
Female	6	31.58 %
Unknown	0	0.00 %
Missing	0	0.00 %
Total	19	100.00 %

**COUNTRY OF ORIGIN**

Classification	Number of Records	Percent
U.S.	10	52.63 %
Non-U.S.	9	47.37 %
Unknown	0	0.00 %
Missing	0	0.00 %
Total	19	100.00 %

\*\*\* Confidential Patient Information \*\*\*

SURVEILLANCE DEMOGRAPHICS REPORT

For the Month-Year Counted

BEGINNING 01/2009 AND ENDING 12/2009

Reporting Area: WEST VIRGINIA BUREAU OF PUBLIC HEALTH

Site Name: All Sites

County Name: All Counties

5 YEAR AGE GROUP (Calculated)

Classification	Number of Records	Percent
0 - 4	0	0.00 %
5 - 9	0	0.00 %
10 - 14	0	0.00 %
15 - 19	0	0.00 %
20 - 24	2	10.53 %
25 - 29	3	15.79 %
30 - 34	0	0.00 %
35 - 39	2	10.53 %
40 - 44	1	5.26 %
45 - 49	0	0.00 %
50 - 54	1	5.26 %
55 - 59	2	10.53 %
60 - 64	1	5.26 %
65 - 69	0	0.00 %
70 - 74	0	0.00 %
75 - 79	2	10.53 %
80 - 84	2	10.53 %
85 and Older	3	15.79 %
Unknown	0	0.00 %
Total	19	100.00 %

10 YEAR AGE GROUP (Calculated)

Classification	Number of Records	Percent
0 - 9	0	0.00 %
10 - 19	0	0.00 %
20 - 29	5	26.32 %
30 - 39	2	10.53 %
40 - 49	1	5.26 %
50 - 59	3	15.79 %
60 - 69	1	5.26 %
70 - 79	2	10.53 %
80 and Older	5	26.32 %
Unknown	0	0.00 %
Total	19	100.00 %

HOMELESS WITHIN PAST YEAR

Classification	Number of Records	Percent
No	18	94.74 %
Yes	1	5.26 %
Unknown	0	0.00 %
Missing	0	0.00 %
Total	19	100.00 %

SURVEILLANCE DEMOGRAPHICS REPORT

For the Month-Year Counted

BEGINNING 01/2009 AND ENDING 12/2009

Reporting Area: WEST VIRGINIA BUREAU OF PUBLIC HEALTH

Site Name: All Sites

County Name: All Counties

RESIDENT OF CORRECTIONAL FACILITY AT TIME OF DIAGNOSIS

Classification	Number of Records	Percent
No	16	84.21 %
Yes	3	15.79 %
Unknown	0	0.00 %
Missing	0	0.00 %
Total	19	100.00 %

RESIDENT OF LONG-TERM CARE FACILITY AT TIME OF DIAGNOSIS

Classification	Number of Records	Percent
No	18	94.74 %
Yes	1	5.26 %
Unknown	0	0.00 %
Missing	0	0.00 %
Total	19	100.00 %

INJECTED DRUG USE WITHIN PAST YEAR

Classification	Number of Records	Percent
No	19	100.00 %
Yes	0	0.00 %
Unknown	0	0.00 %
Missing	0	0.00 %
Total	19	100.00 %

NON-INJECTED DRUG USE WITHIN PAST YEAR

Classification	Number of Records	Percent
No	19	100.00 %
Yes	0	0.00 %
Unknown	0	0.00 %
Missing	0	0.00 %
Total	19	100.00 %

SURVEILLANCE DEMOGRAPHICS REPORT

For the Month-Year Counted

BEGINNING 01/2009 AND ENDING 12/2009

Reporting Area: WEST VIRGINIA BUREAU OF PUBLIC HEALTH

Site Name: All Sites

County Name: All Counties

EXCESS ALCOHOL USE WITHIN PAST YEAR

Classification	Number of Records	Percent
No	17	89.47 %
Yes	2	10.53 %
Unknown	0	0.00 %
Missing	0	0.00 %
Total	19	100.00 %

OCCUPATION (Calculated)

Classification	Number of Records	Percent
Health Care Worker	0	0.00 %
Correctional Employee	0	0.00 %
Migratory Agricultural Worker	0	0.00 %
Other Occupation	2	10.53 %
Multiple Occupations	0	0.00 %
Not Employed Within Past 24 Months	17	89.47 %
Unknown	0	0.00 %
Missing	0	0.00 %
Total	19	100.00 %

STATISTICAL INFORMATION  
TUBERCULOSIS IN WEST VIRGINIA AND THE UNITED STATES

<u>YEAR</u>	<u>CASE RATE – WV</u>	<u>CASE RATE –USA</u>
1940	88.4	78.0
1950	107.7	80.7
1960	32.3	30.7
1970	18.9	18.1
1980	10.4	12.2
1990	4.9	10.3
2000	1.8	5.8



NEWLY REPORTED VERIFIED CASES OF TUBERCULOSIS IN WEST VIRGINIA

County	Population 2000	2003	2004	2005	2006	2007	2008	2009	2009 I-rate
Barbour	15,557	0	0	0	2	0	1	0	0
Berkeley	75,905	2	2	1	0	<b>3</b>	5	0	0
Boone	25,535	0	0	1	0	0	0	0	0
Braxton	14,702	1	0	0	0	0	0	0	0
Brooke	25,447	0	0	0	1	0	1	0	0
Cabell	96,784	2	2	2	1	0	4	3	3.09
Calhoun	7,582	0	1	0	0	0	0	0	0
Clay	10,330	0	0	0	1	0	0	0	0
<b>Doddridge</b>	7,403	0	0	0	0	0	0	0	0
Fayette	47,579	2	1	1	0	<b>2</b>	1	0	0
Gilmer	7,160	0	0	0	0	0	0	2	27.93
<b>Grant</b>	11,299	0	0	0	0	0	0	0	0
Greenbrier	34,453	0	1	1	1	<b>1</b>	0	0	0
Hampshire	20,203	0	0	0	0	0	0	0	0
Hancock	32,667	0	0	0	1	0	0	0	0
<b>Hardy</b>	12,669	0	0	0	0	0	0	0	0
Harrison	68,652	0	2	2	0	<b>1</b>	0	0	0
<b>Jackson</b>	28,000	0	0	0	0	0	0	0	0
Jefferson	42,190	1	2	3	2	0	1	0	0
Kanawha	200,073	3	3	3	0	<b>2</b>	2	2	0.99
Lewis	16,919	0	0	0	0	<b>1</b>	0	0	0
<b>Lincoln</b>	22,108	0	0	0	0	0	0	0	0
Logan	37,710	1	2	0	1	0	0	0	0
Marion	56,598	0	0	1	1	0	0	0	0
Marshall	35,519	0	0	1	0	0	0	0	0
Mason	25,957	0	0	0	0	0	0	1	3.85
McDowell	27,329	0	3	0	0	<b>2</b>	1	2	7.31
Mercer	62,980	0	0	5	0	0	0	2	3.17
Mineral	27,078	1	2	0	0	0	0	1	3.69
Mingo	28,253	1	1	2	0	<b>2</b>	0	0	0
Monongalia	81,866	0	0	1	3	<b>2</b>	1	2	2.44
Monroe	14,583	0	0	0	1	0	0	0	0
Morgan	14,943	0	0	0	0	<b>1</b>	1	0	0
<b>Nicholas</b>	26,562	0	0	0	0	0	0	0	0
Ohio	47,427	1	0	0	1	0	1	1	2.1
Pendleton	8,196	0	0	0	1	0	0	0	0
Pleasants	7,514	0	0	0	0	<b>1</b>	0	0	0

County	Population 2000	2003	2004	2005	2006	2007	2008	2009	2009 I-rate
Pocahontas	9,131	0	0	0	0	0	1	0	0
<b>Preston</b>	29,334	0	0	0	0	0	0	0	0
Putnam	51,589	1	0	1	1	<b>1</b>	1	1	1.93
Raleigh	79,220	1	0	0	1	<b>1</b>	4	1	1.26
Randolph	28,262	1	0	0	0	0	0	0	0
Ritchie	10,343	0	0	0	1	0	0	0	0
Roane	15,446	1	0	0	1	0	0	0	0
<b>Summers</b>	12,999	0	0	0	0	0	0	0	0
<b>Taylor</b>	16,089	0	0	0	0	0	0	0	0
Tucker	7,321	0	0	0	0	<b>1</b>	0	0	0
<b>Tyler</b>	9,592	0	0	0	0	0	0	0	0
Upshur	23,404	0	0	1	0	0	0	0	0
Wayne	42,903	1	1	2	0	<b>1</b>	0	0	0
<b>Webster</b>	9,719	0	0	0	0	0	0	0	0
Wetzel	17,693	0	0	0	0	0	0	1	5.65
<b>Wirt</b>	5,873	0	0	0	0	0	0	0	0
Wood	87,986	0	1	0	0	<b>2</b>	2	0	0
Wyoming	25,708	1	0	0	1	0	1	0	0
Total	1,810,344	21	24	28	22	<b>24</b>	28	19	1.04
I-Rate for WV		1.2	1.3	1.5	1.2	1.3	1.5	1.0	
Counties with TB		16	14	16	18	16	15	12	

Updated 1-11-10

Counties in blue have had no TB x 9 yrs.

**Latent Tuberculosis Infection and LTBI Incidence/100,000 Population by County**

County	Population	2005 LTBI	2005 Rate	2006 LTBI	2006 Rate	2007 LTBI	2007 Rate	2008 LTBI	2008 Rate	2009 LTBI	2009 Rate
Barbour	15,557	5	32.1	8	51.4	10	64.3	3	19.3	2	12.85
Berkeley	75,905	39	51.4	76	100.2	17	22.3	29	38.2	30	39.52
Boone	25,535	2	7.8	0	0	0	0	0	0	3	11.74
Braxton	14,702	2	13.6	1	6.8	6	40.8	0	0	0	0
Brooke	25,447	1	3.9	2	7.9	2	7.9	1	3.9	0	0
Cabell	96,784	25	25.8	32	33.1	47	48.6	48	49.6	53	54.76
Calhoun	7,582	0	0	0	0	2	26.4	1	13.2	0	0
Clay	10,330	0	0	0	0	0	0	1	9.7	2	19.36
Doddridge	7,403	2	27	3	40.5	3	40.5	5	67.54	1	13.5
Fayette	47,579	2	4.2	1	2.1	6	12.6	1	2.1	1	2.1
Gilmer	7,160	0	0	1	14	0	0	0	0	0	0
Grant	11,299	1	8.9	5	44.3	4	35.4	13	115.1	10	88.5
Greenbrier	34,453	4	11.6	3	8.7	5	14.5	24	69.7	5	14.51
Hampshire	20,203	5	24.7	13	64.3	4	19.8	4	19.8	3	14.84
Hancock	32,667	1	3.1	2	6.1	1	3.1	0	0	0	0
Hardy	12,669	4	31.6	9	71	7	55.3	6	47.4	6	47.35
Harrison	68,652	16	23.3	36	52.4	37	53.9	16	23.3	16	23.3
Jackson	28,000	3	10.7	3	10.7	9	32.1	3	10.7	6	21.42
Jefferson	42,190	69	163.5	85	201.5	88	208.6	37	87.7	58	137.47
Kanawha	200,073	40	20	22	11	9	4.5	31	15.5		
Lewis	16,919	4	23.6	4	23.6	1	5.9			0	0
Lincoln	22,108	0	0	0	0	0	0	0	0	1	4.52
Logan	37,710	8	21.2	6	15.9	7	18.6	9	23.9	13	34.47
Marion	56,598	1	1.8	1	1.8	2	3.5	1	1.8	6	10.6
Marshall	35,519	1	2.8	6	16.9	4	11.3	0	0	1	2.81
Mason	25,957	3	11.6	2	7.7	4	11.1	0	0	0	0
McDowell	27,329	0	0	1	3.7	2	7.3	1	3.7	1	3.65
Mercer	62,980	0	0	10	15.9	21	33.3	13	20.6	16	25.4
Mineral	27,078	2	7.4	0	0	0	0	1	3.7	5	18.46
Mingo	28,253	3	106	2	7.1	5	17.7	1	3.5	3	10.61
Monongalia	81,866	6	7.3	8	9.8	10	12.2	7	8.6	5	6.1
Monroe	14,583	4	27.4	9	61.7	5	1.4	5	34.3	0	0
Morgan	14,943	3	20.1	1	6.7	0	0	1	6.7	0	0
Nicholas	26,562	3	11.3	1	3.8	0	0	1	3.8	1	3.76
Ohio	47,427	8	16.9	1	2.1	1	2.1	3	6.3	2	4.21
Pendleton	8,196	0	0	7	85.4	1	12.2	2	24.4	1	12.2
Pleasants	7,514	1	13.3	0	0	0	0	1	13.3	1	13.3
Pocahontas	9,131	1	11	22	240.9	17	186.2	6	65.7	1	10.95
Preston	29,334	0	0	0	0	0	0	1	3.4	0	0
Putnam	51,589	4	7.8	3	5.8	2	3.9	10	19.4	3	5.81
Raleigh	79,220	5	6.3	12	15.1	13	16.4	15	18.9	68	85.83
Randolph	28,262	9	31.8	10	35.4	5	17.7	2	7.1	1	Mar-53
Ritchie	10,343	0	0	0	0	0	0	0	0	0	0
Roane	15,446	0	0	3	19.4	1	6.5	1	6.5	0	0
Summers	12,999	3	23.1	1	7.7	4	30.8	0	0	0	0
Taylor	16,089	8	49.7	6	37.3	7	43.5	4	24.9	3	18.64
Tucker	7,321	0	0	3	41	6	82	0	0	0	0
Upshur	23,404	0	0	2	8.5	0	0			2	8.54
Wayne	42,903	0	0	0	0	0	0	0	0	1	2.33
Webster	9,719	0	0	0	0	0	0	1	10.3	0	0
Wetzel-Tyl	17,693	1	5.7	0	0	0	0	0	0	1	5.65
Wirt	5,873	0	0	0	0	0	0	0	0	0	0
Wood	87,986	5	5.7	2	2.3	6	6.8	3	3.4	3	3.4
Wyoming	25,708	1	3.9	2	7.8	3	11.7	0	0	0	0
<b>TOTALS</b>	<b>1,808,344</b>	<b>305</b>	<b>16.9</b>	<b>427</b>	<b>23.6</b>	<b>384</b>	<b>21.2</b>	<b>312</b>	<b>17.3</b>	<b>335</b>	<b>18.52</b>

2009 LTBI's by County by Age Group

County	0 - 4 yrs	5-14 yrs	15-34 yrs	≥ 35 yrs	T- LTBI's
Barbour	0	0	1	1	2
Berkeley	0	8	10	12	30
Boone	0	1	1	1	3
Braxton	0	0	0	0	0
Brooke	0	0	0	0	0
Cabell	1	0	36	16	53
Calhoun	0	0	0	0	0
Clay	0	0	0	2	2
Doddridge	0	0	1	0	1
Fayette	0	0	0	1	1
Gilmer	0	0	0	0	0
Grant	0	0	5	5	10
Greenbrier	0	1	2	2	5
Hampshire	0	0	0	3	3
Hancock	0	0	0	0	0
Hardy	0	1	4	1	6
Harrison	0	0	9	7	16
Jackson	0	0	5	1	6
Jefferson	1	8	27	22	58
<b>Kanawha</b>					
Lewis	0	0	0	0	0
Lincoln	0	0	1	0	1
Logan	0	1	6	6	13
Marion	0	0	2	4	6
Marshall	0	1	0	0	1
Mason	0	0	0	0	0
McDowell	0	0	0	1	1
Mercer	0	5	6	5	16
Mineral	0	0	3	2	5
Mingo	0	0	0	3	3
Monongalia	0	2	2	1	5
Monroe	0	0	0	0	0
Morgan	0	0	0	0	0
Nicholas	0	0	0	1	1
Ohio	0	0	2	0	2
Pendleton	0	0	1	0	1
Pleasants	0	1	0	0	1
Pocahontas	0	0	0	1	1
Preston	0	0	0	0	0
Putnam	0	1	0	2	3
Raleigh	0	0	56	12	68
Randolph	0	0	0	1	1
Ritchie	0	0	0	0	0
Roane	0	0	0	0	0
Summers	0	0	0	0	0
Taylor	0	0	1	2	3
Tucker	0	0	0	0	0
Upshur	0	0	1	1	2
Wayne	0	0	1	0	1
Webster	0	0	0	0	0
Wetzel/Tyler	0	0	1	0	1
Wirt	0	0	0	0	0
Wood	0	0	3	0	3
Wyoming	0	0	0	0	0
<b>Totals</b>	<b>2</b>	<b>30</b>	<b>187</b>	<b>116</b>	<b>335</b>

MONTHLY TUBERCULIN TESTING - 2009

Counties	CONTACTS			Targeted Testing (High Risk)									Administration			Total Tested & Read	Total Positive	% Positive	
				Medical Risk			Population Risk												
	# Tests Given	# Tests Read	# Tests Positive	# Tests Given	# Tests Read	# Tests Positive	Foreign Born			Other Pop. Risk									
							# Tests Given	# Tests Read	# Tests Positive	# Tests Given	# Tests Read	# Tests Positive	# Tests Given	# Tests Read	# Tests Positive				
Barbour	2	2	0	0	0	0	0	0	0	0	0	0	0	264	254	2	256	2	0.78
Berkeley	15	14	0	17	16	0	96	90	21	558	462	5	1200	1139	4	1721	30	1.74	
Boone	0	0	0	0	0	0	0	0	0	0	0	0	248	181	3	181	3	1.65	
Braxton	15	15	0	0	0	0	0	0	0	0	0	0	184	174	0	189	0	0.00	
Brooke	0	0	0	1	1	0	1	1	0	0	0	0	345	334	0	336	0	0.00	
Cabell	40	33	1	31	24	1	45	41	17	2530	2359	27	1391	1241	7	3698	53	1.43	
Calhoun	0	0	0	0	0	0	0	0	0	31	17	0	0	0	0	17	0	0.00	
Clay	2	2	1	0	0	0	0	0	0	0	0	0	88	61	1	63	2	3.17	
Doddridge	0	0	0	0	0	0	0	0	0	0	0	0	257	246	1	246	1	0.40	
Fayette	4	3	0	1	1	1	1	1	0	0	0	0	454	431	0	436	1	0.22	
Gilmer	0	0	0	0	0	0	0	0	0	2	2	0	134	127	0	129	0	0.00	
Grant	0	0	0	0	0	0	0	0	0	1	1	0	469	418	10	419	10	2.38	
Greenbrier	3	3	1	17	15	0	9	8	3	433	380	0	310	289	1	695	5	0.71	
Hampshire	0	0	0	0	0	0	0	0	0	417	398	2	214	202	1	600	3	0.50	
Hancock	0	0	0	21	21	0	2	2	0	29	29	0	368	360	0	412	0	0.00	
Hardy	0	0	0	0	0	0	0	0	0	5	5	4	350	321	2	326	6	1.84	
Harrison	0	0	0	6	6	1	12	12	4	1478	1418	11	0	0	0	1436	16	1.11	
Jackson	3	3	0	21	19	0	0	0	0	34	33	0	892	842	6	897	6	0.66	
Jefferson	7	7	0	158	153	5	138	86	26	274	255	8	1645	1584	19	2085	58	2.78	
Kanawha																			
Lewis	0	0	0	0	0	0	0	0	0	0	0	0	254	236	0	236	0	0.00	
Lincoln	2	2	1	0	0	0	0	0	0	0	0	0	145	136	0	138	1	0.72	
Logan	0	0	0	172	157	2	8	6	3	513	453	2	989	873	6	1489	13	0.87	
Marion	3	3	0	9	9	1	5	5	2	298	274	2	725	661	1	952	6	0.63	
Marshall	6	2	0	0	0	0	0	0	0	2604	1414	0	532	510	1	1926	1	0.05	
Mason	0	0	0	33	31	0	2	2	0	103	88	0	369	349	0	470	0	0.00	
McDowell	18	18	1	1	0	0	1	1	0	0	0	0	171	38	0	57	1	1.75	
Mercer	9	9	3	0	0	0	0	0	0	0	0	0	534	534	13	543	16	2.94	
Mineral	13	12	5	2	2	0	1	1	0	74	70	0	488	453	0	538	5	0.92	
Mingo	6	5	0	16	11	0	2	2	0	255	189	1	419	323	2	530	3	0.56	



**TB DRUG RESISTANCE IN WV  
1992 TO 2009**

<u>YEAR</u>	<u>MONO</u>	<u>MDR</u>	<u>2 OTHER</u>
2009	3	0	0
2008	0	0	0
2007	1	0	1
2006	2	0	0
2005	3	0	0
2004	3	0	0
2003	0	0	1
2002	2	0	1
2001	5	0	0
2000	4	0	2
1999	2	0	2
1998	3	0	0
1997	3	0	0
1996	3	0	0
1995	1	0	1
1994	5	0	0
1993	6	1 (TX 1987)	2
1992	2	0	5

**STATISTICAL INFORMATION  
TUBERCULOSIS IN WEST VIRGINIA AND THE USA**

<u>YEAR</u>	<u>#WV CASES</u>	<u>WV RATE</u>	<u># USA CASES</u>	<u>USA RATE</u>
2009	19	1.0	11,540	3.8
2008	28	1.5	12,898	4.2
2007	24	1.3	13,293	4.4
2006	22	1.2	13,779	4.6
2005	28	1.6	14,093	4.8
2004	24	1.3	14,511	4.9
2003	21	1.2	14,874	5.1
2002	30	1.7	15,075	5.2
2001	32	1.8	15,989	5.6
2000	33	1.8	16,377	5.8
1999	41	2.3	17,531	6.4
1998	42	2.3	18,361	6.8
1997	54	3.0	19,851	7.4
1996	57	3.2	21,337	8.0
1995	71	3.9	22,860	8.7
1994	80	4.4	24,361	9.4
1993	75	4.1	25,287	9.8
1992	92	5.1	26,673	10.5
1991	64	3.6	26,283	10.4
1990	87	4.9	25,701	10.3



STATISTICAL INFORMATION: TB IN WV AND THE USA  
PAGE 2

<u>YEAR</u>	<u>#WV CASES</u>	<u>WV RATE</u>	<u>#USA CASES</u>	<u>USA RATE</u>
1989	77	4.1	23,495	9.5
1988	68	3.6	22,436	9.2
1987	99	5.2	22,517	9.3
1986	124	6.5	22,768	9.5
1985	108	5.6	22,201	9.3
1984	133	6.8	22,255	9.4
1983	133	6.8	23,846	10.2
1982	162	8.3	25,520	11.0
1981	181	9.3	27,373	11.9
1980	203	10.4	27,749	12.2
1979	221	11.8	27,669	12.3
1978	216	11.6	28,521	12.8
1977	239	12.9	30,145	13.7
1976	263	14.4	32,105	14.7
1975	263	14.6	33,989	15.7