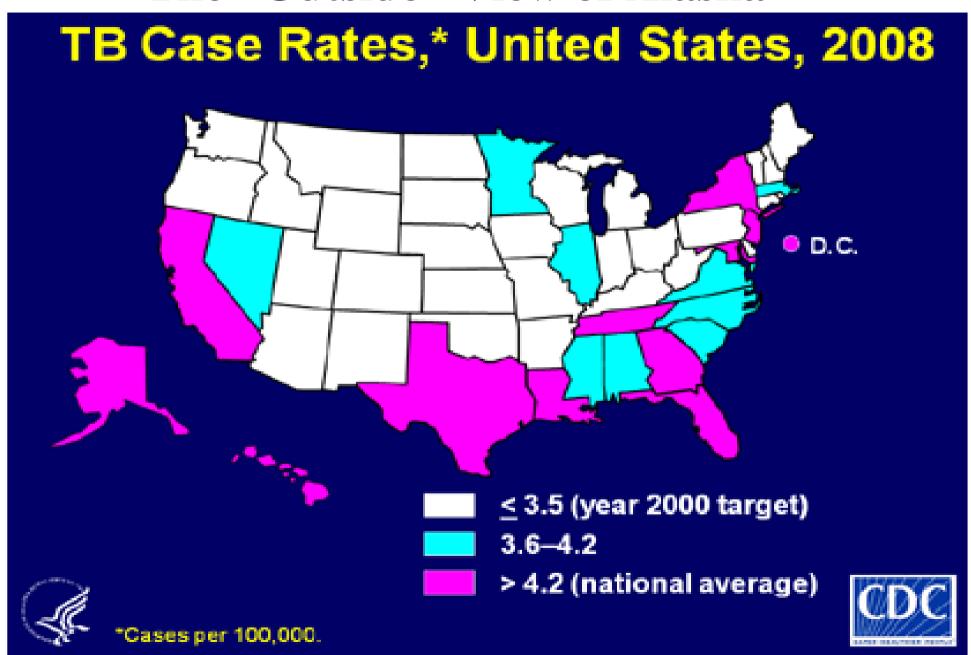
# Tuberculosis Surveillance in Alaska

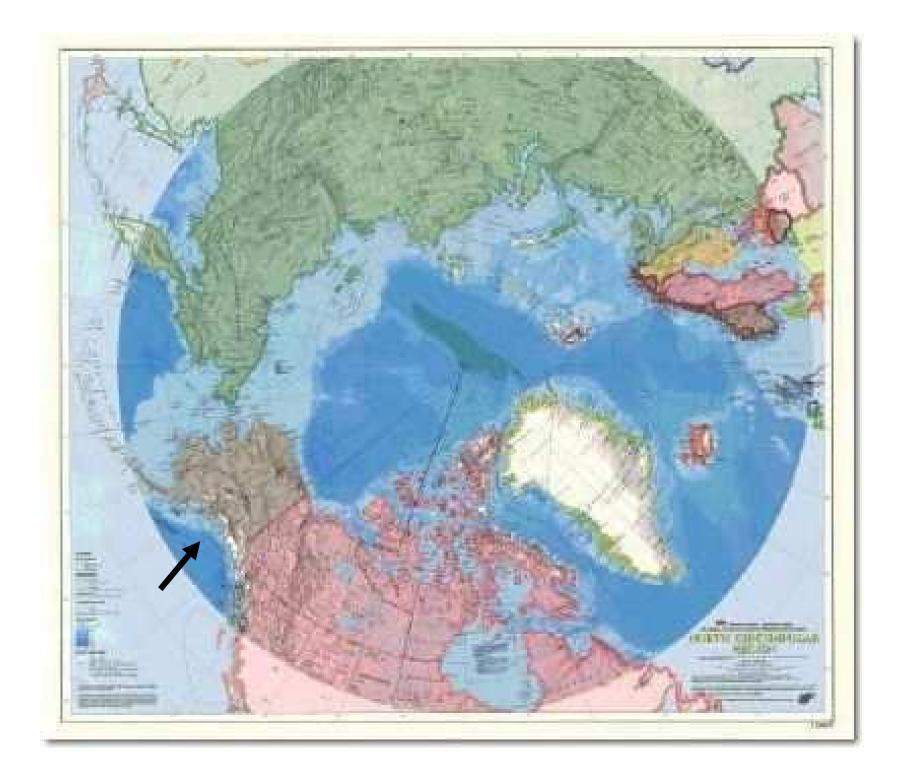
Presented by
Tammy Zulz, MPH
Centers for Disease Control & Prevention
Arctic Investigations Program



#### The "Outside" View of Alaska







### Alaska Reporting Regulations

- TB one of many reportable infectious diseases
- Report suspected or confirmed cases within 5 days
- Rapid Telephonic Reporting System
- Phone, Fax, Mail
- Electronic Lab Reporting
- Health care providers and labs must report

### **TB Surveillance Components**

- Cases/Suspects
- Persons with latent TB infection (LTBI)
- Contacts to Cases
- Treatment completion for cases and LTBI
- School Screening

## **Electronic Lab Reporting**

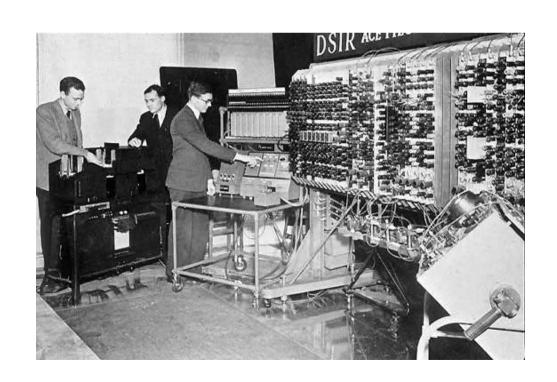
- 26 hospitals (3 major)
- Currently

5 currently on line, including 2 major

In works

3 private labs

1 major hospital



#### **New TB Case**

Reported to Alaska TB Program by Health care worker or Lab

Hard Copy of Data Nursing Staff

Data Entered into Database by Clerical Staff

Unnamed Data Received by CDC

Data Analyzed by TB Program

**US Public** 

**AK Public** 

# State Public Health Laboratory Capacity

- Trained laboratorians
- Smear (fluorochrome stain)
- Culture (MGIT, 7H10 bi-plates)
- Genprobe and HPLC
- Susceptibility testing
- Genotyping of all isolates at reference lab in California



## Tuberculosis in Alaska 2010 Annual Report



#### State of Alaska

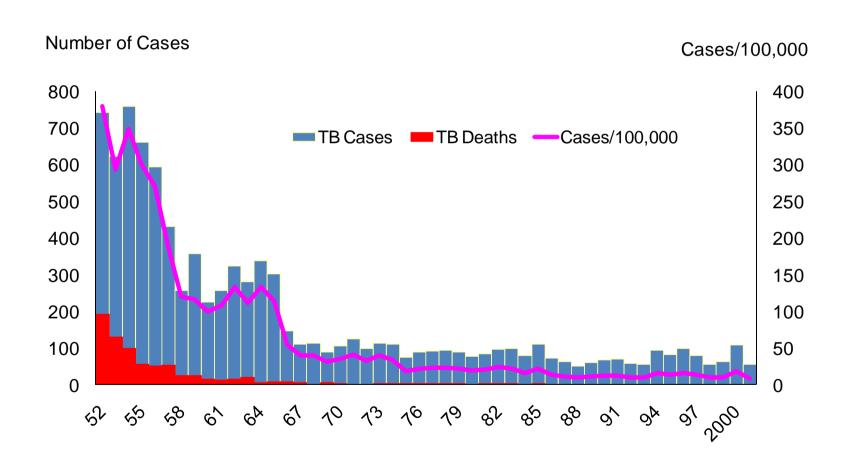
Department of Health and Social Services

Division of Public Health

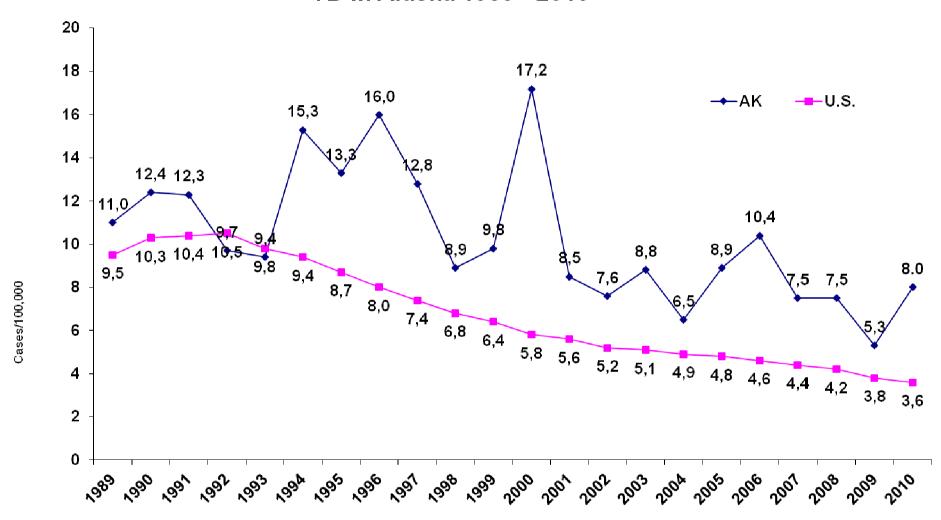
Section of Epidemiology

http://www.epi.alaska.gov/pubs/webtb/TBReport2009.pdf

# TB in Alaska: 50 years of experience



#### TB in Alaska 1989 - 2010



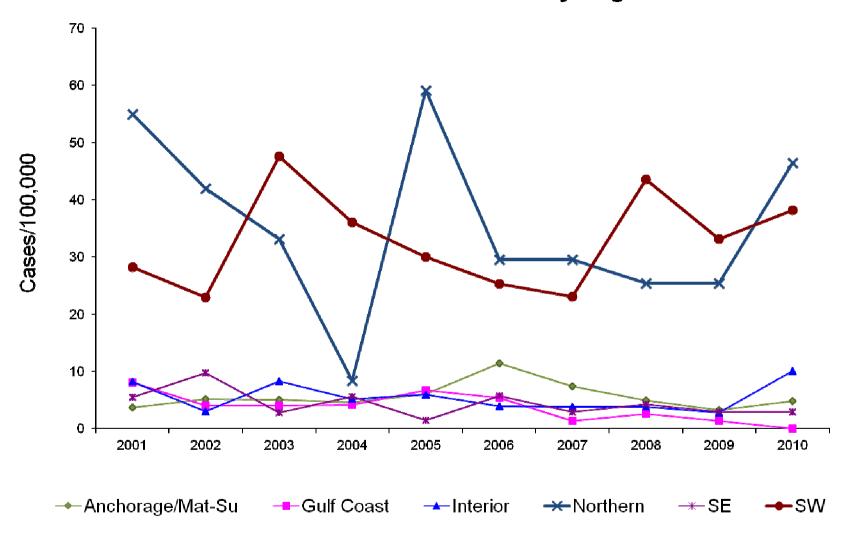
#### States with the highest incidence of tuberculosis in 2010<sup>[1]</sup>

State or District	Number Cases	Incidence of TB	Population
Hawaii	114	8.8	1,300,086
Alaska	57	8.0	708,862
District of Columbia	44	7.2	610,589
California	2,328	6.2	37,266,600
Texas	1,385	5.5	25,213,445

<sup>[1]</sup> Centers for Disease Control and Prevention. Division of Tuberculosis Elimination; preliminary data.



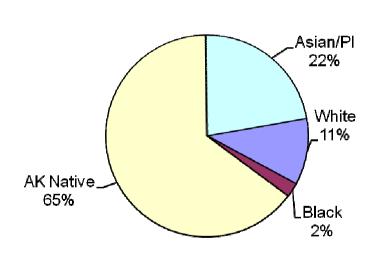
#### Incidence of TB in Alaska by Region

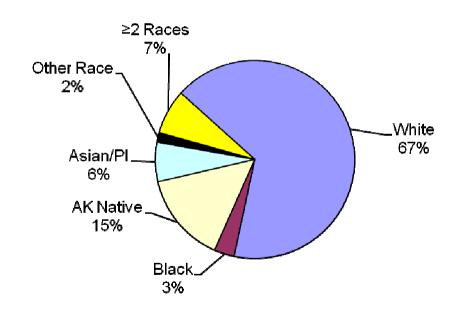


## Racial Demographics TB in Alaska from 2001-2010 compared to Alaska 2010 Census Data

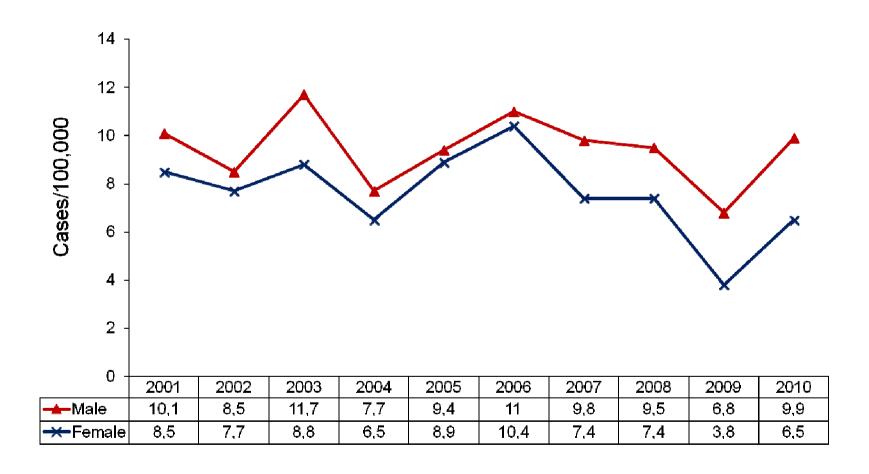
Alaska TB Cases N=601

All Alaska Residents N=710,231

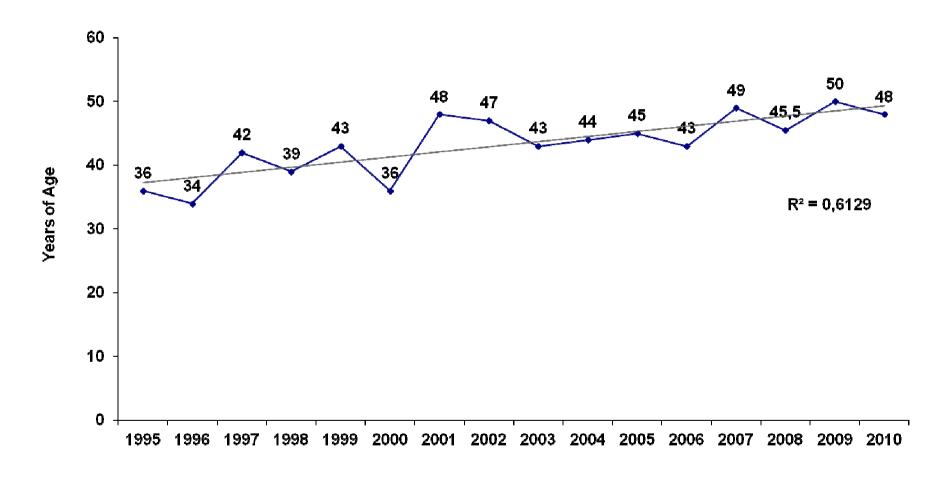




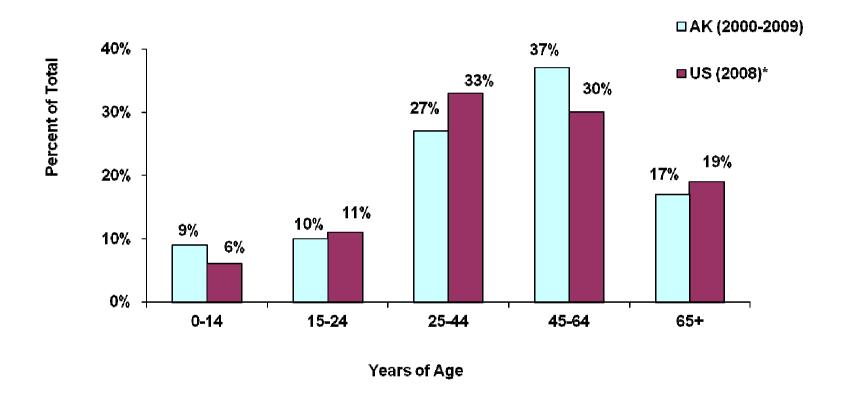
#### **Incidence of TB for Males and Females**



#### Median age of persons with TB in Alaska

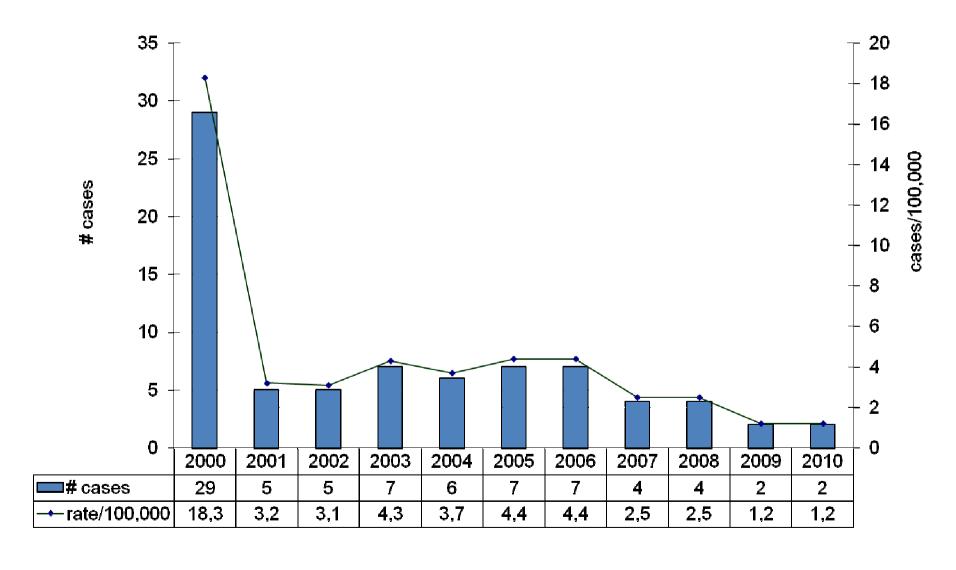


#### Age of persons with TB: Alaska and U.S.

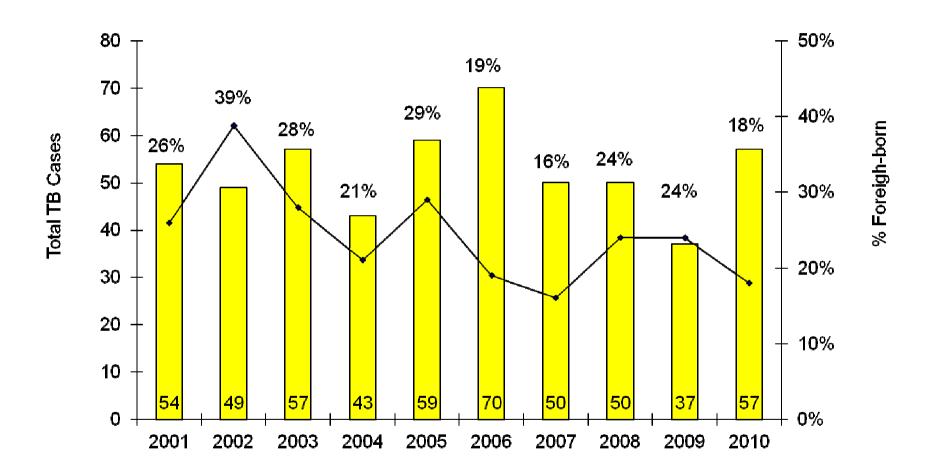


\*CDC. Reported Tuberculosis in the United States, 2008. Atlanta, GA: U.S. Department of Health and Human Services, CDC, September 2009.

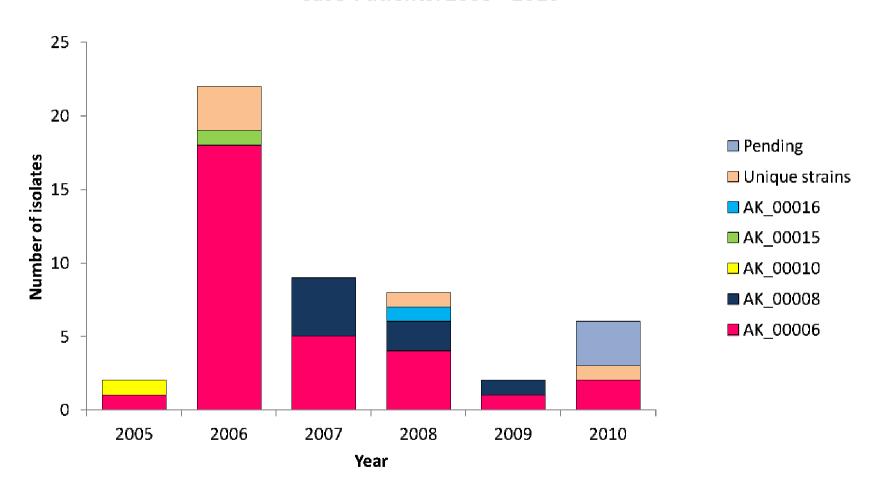
#### Pediatric (< 15 years) TB in Alaska, 2000 - 2010



#### Number of TB cases and the percent foreign-born: 2001-2010

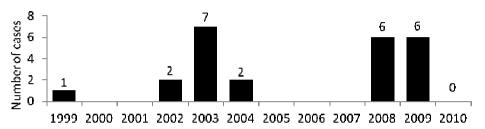


## M. tuberculosis Genotype Clusters Identified in Anchorage Homeless Case-Patients: 2005 - 2010



#### Recent Alaska Outbreaks

TB in Yukon-Kuskokwim Delta Village A Population <300



TB in Yukon-Kuskokwim Delta Village B Population <200

