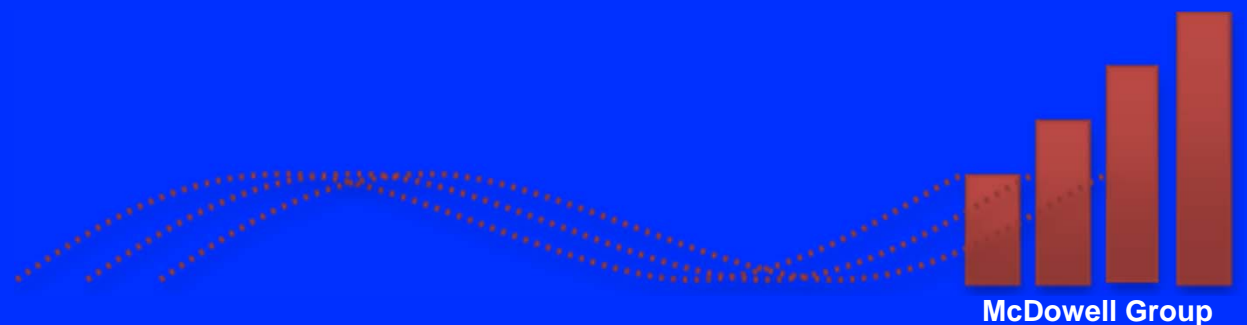


# Pebble Project Socioeconomic Baseline

Prepared for:  
**Baseline Environmental Team Meetings**

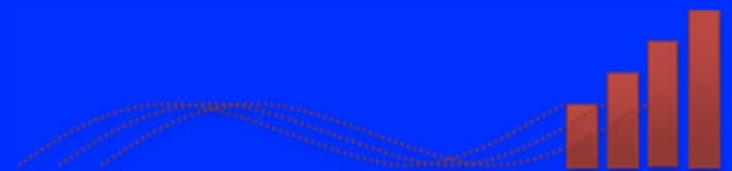
Prepared by:  
McDowell Group, Inc.  
Juneau · Anchorage  
February 2012



McDowell Group

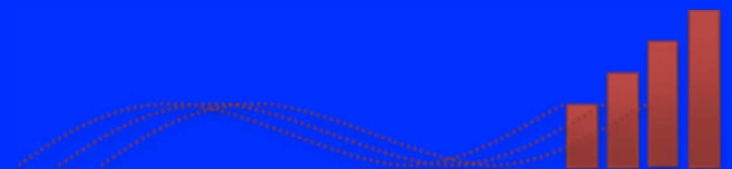
# Scope of Work

- ◆ Demographics Baseline
- ◆ Community Infrastructure Baseline
- ◆ Cash Economy Baseline
- ◆ Health and Social Baseline



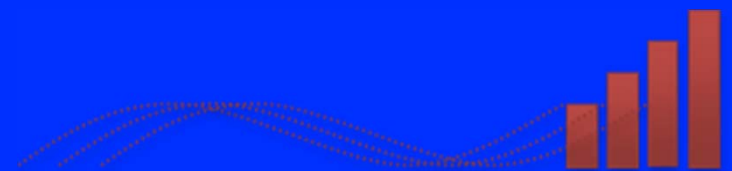
# Communities Included

- ◆ Iliamna Lake/Lake Clark Communities
  - ◆ Kokhanok, Iliamna, Newhalen, Nondalton, Pedro Bay, Port Alsworth, Levelock, and Igiugig
- ◆ Nushagak/Bristol Bay Borough
  - ◆ Balance of Lake and Peninsula Borough, Bristol Bay Borough, and Dillingham Census Area
- ◆ Cook Inlet/Mat-Su Borough
  - ◆ Kenai Peninsula Borough, Municipality of Anchorage, and Matanuska-Susitna Borough



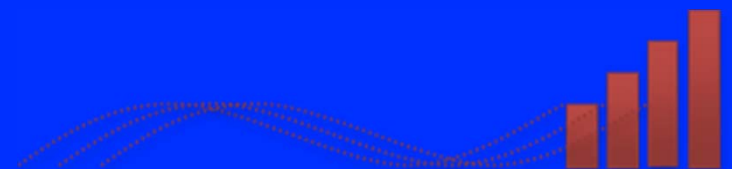
# Demographics: Content/Scope

- ◆ Population Trends (1990-2009)
- ◆ Population Characteristics (1990 and 2000)
  - ◆ Age characteristics
  - ◆ Gender
  - ◆ Race
  - ◆ Migration
- ◆ Household and Family characteristics (1990 and 2000)
- ◆ Language



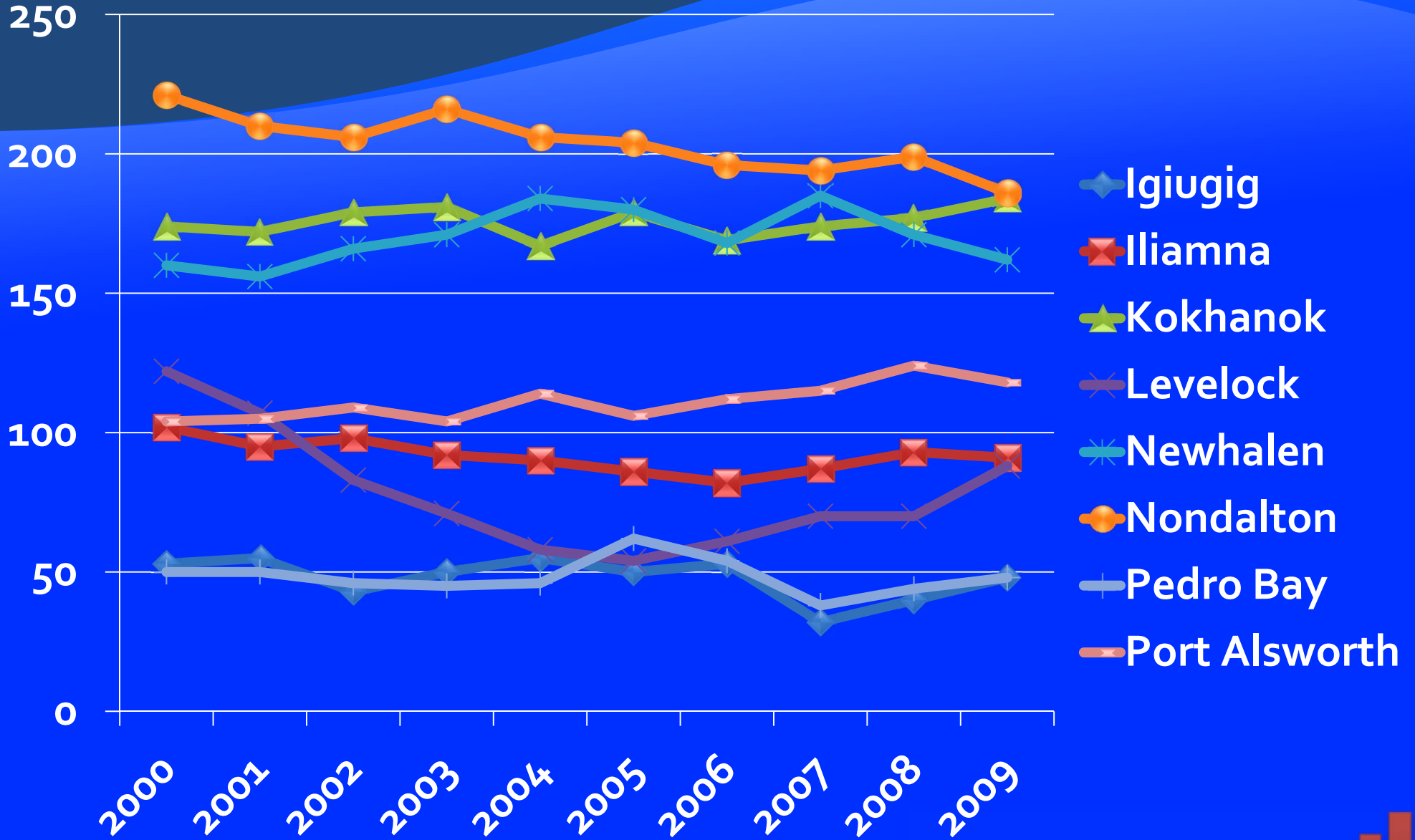
# Demographics: Data Sources/Limitations

- ◆ U.S. Census Bureau
  - ◆ Comprehensive local-level data
  - ◆ Dated data
  - ◆ Misses key seasonal trend
- ◆ ADF&G Subsistence Survey
- ◆ Alaska Department of Labor and Workforce Development
  - ◆ More current, but limited local-level data
  - ◆ Estimates only



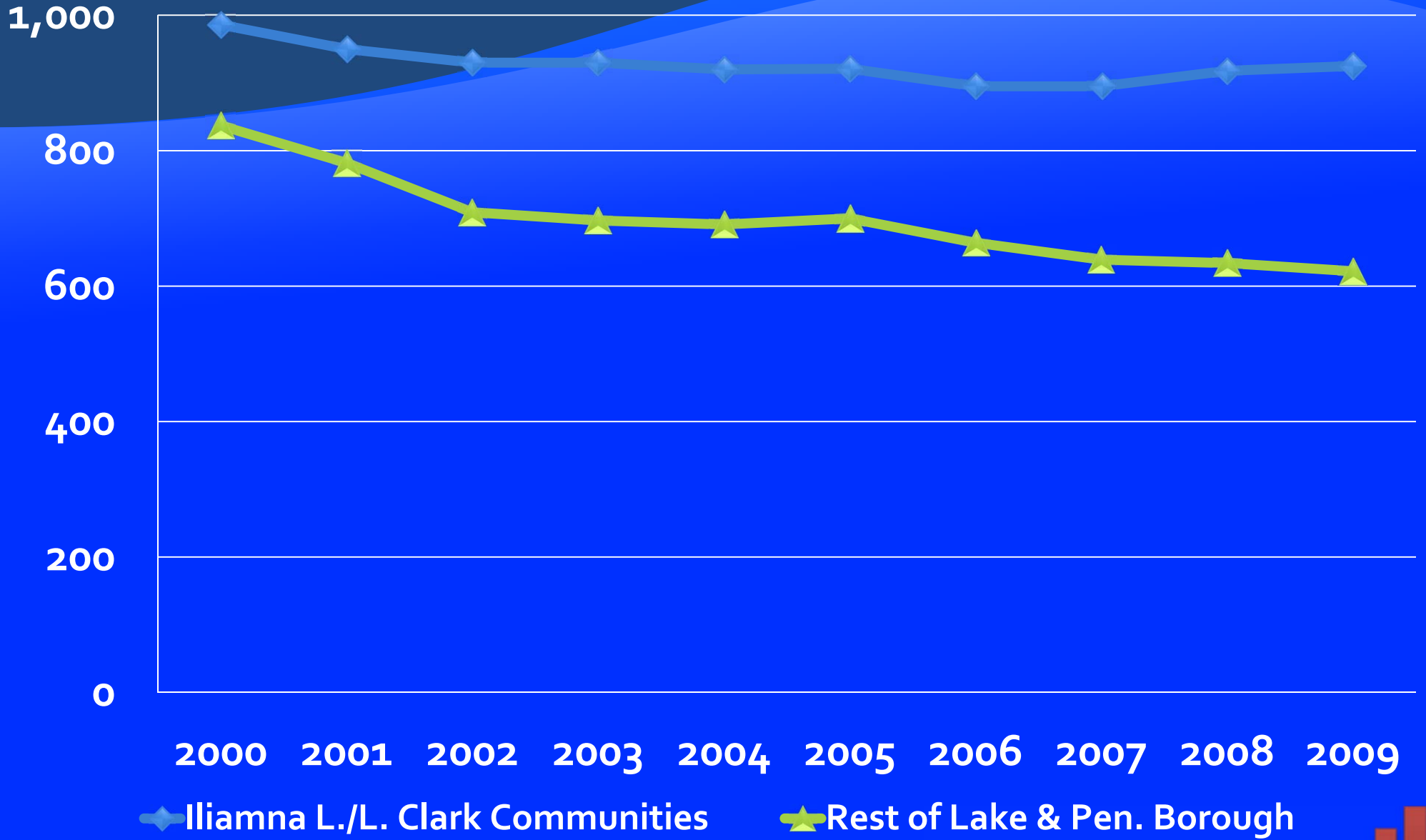
# Iliamna Lake/Lake Clark Communities: Population

## 2000-2009



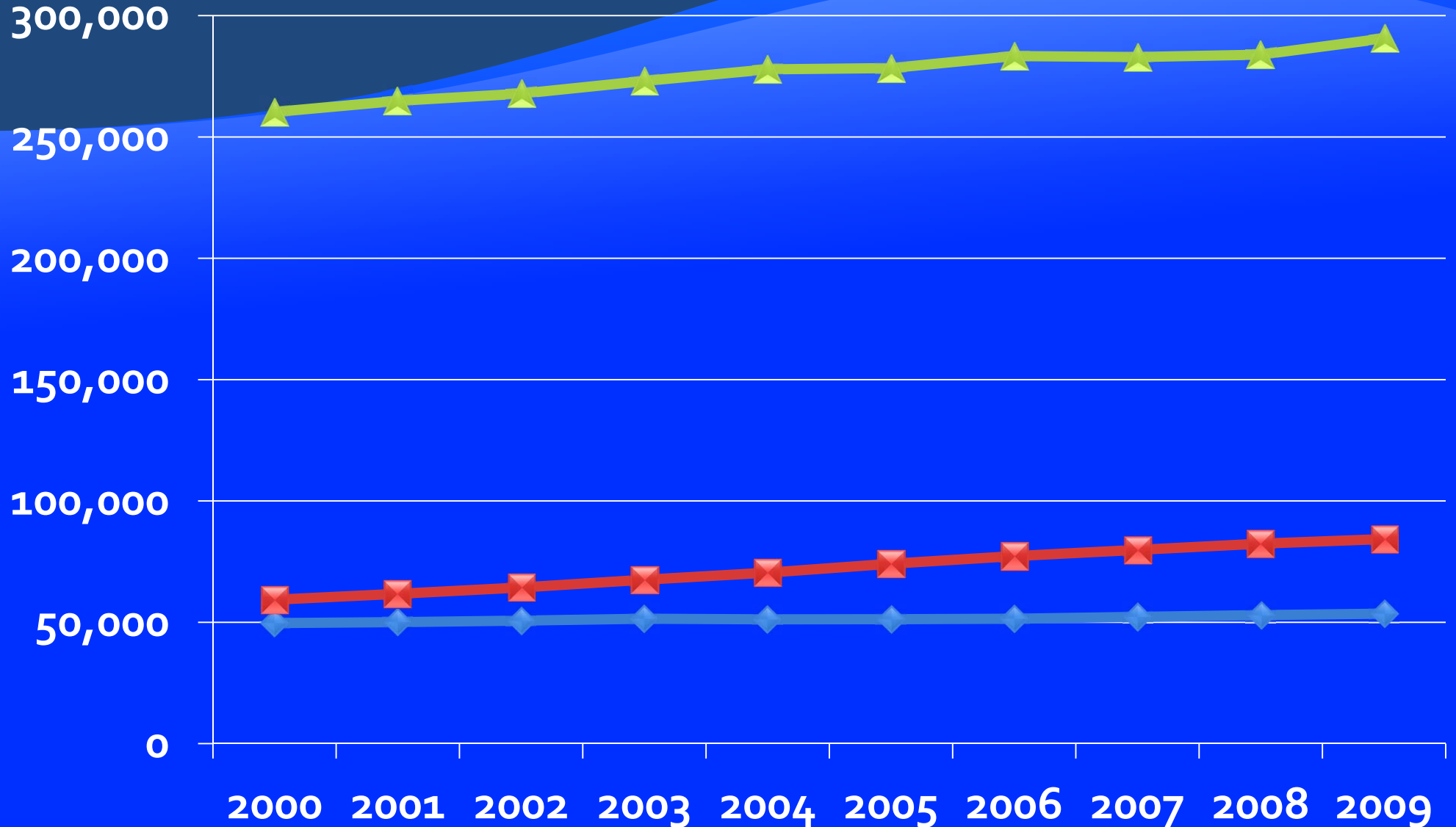
Sources: U.S. Bureau of Labor Statistics and Alaska Department of Labor and Workforce Development

# Lake and Peninsula Borough: Population 2000-2009



Sources: U.S. Bureau of Labor Statistics and Alaska Department of Labor and Workforce Development

# Cook Inlet/Mat-Su Borough: Population 2000-2009

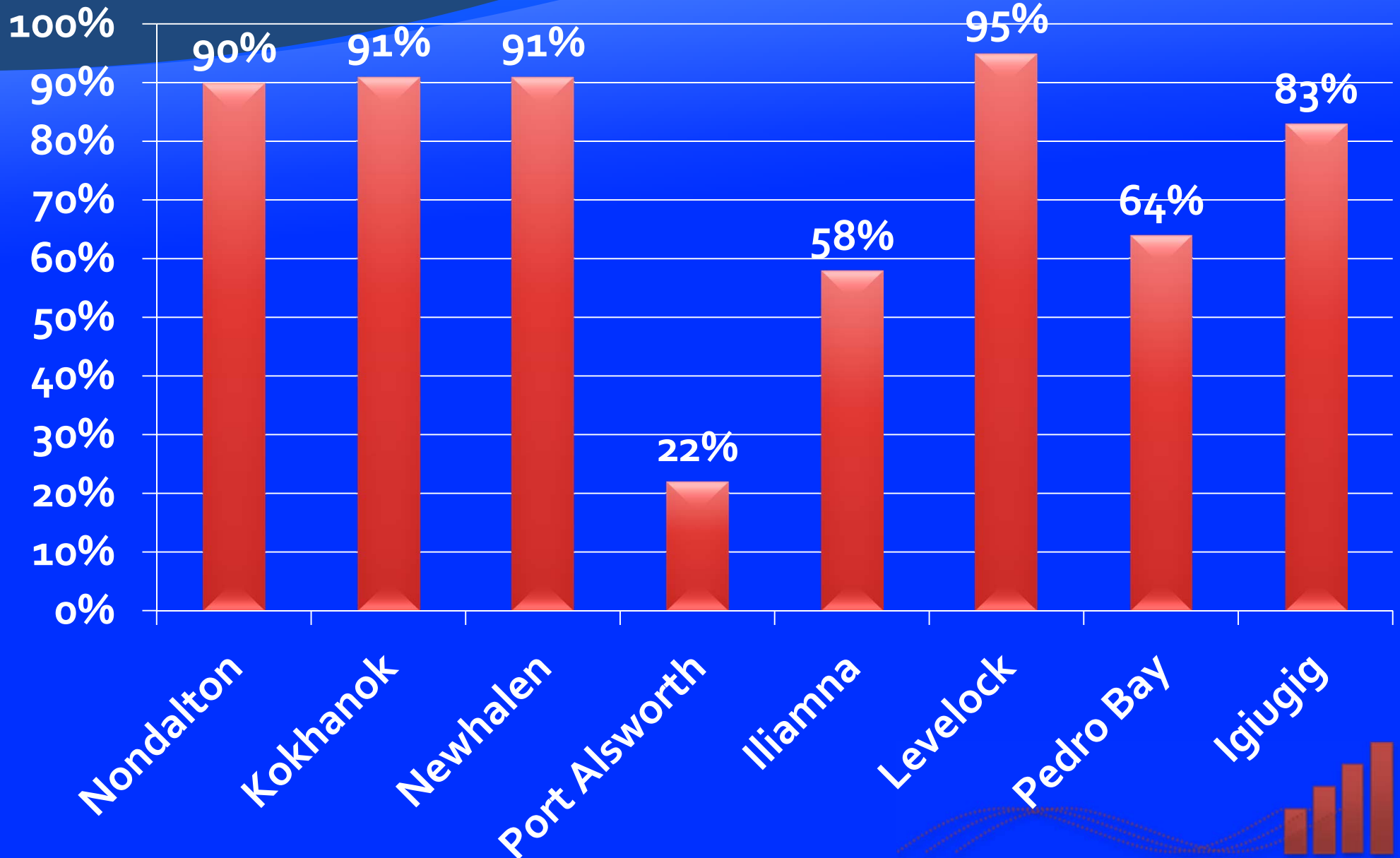


◆ Kenai Pen. Borough

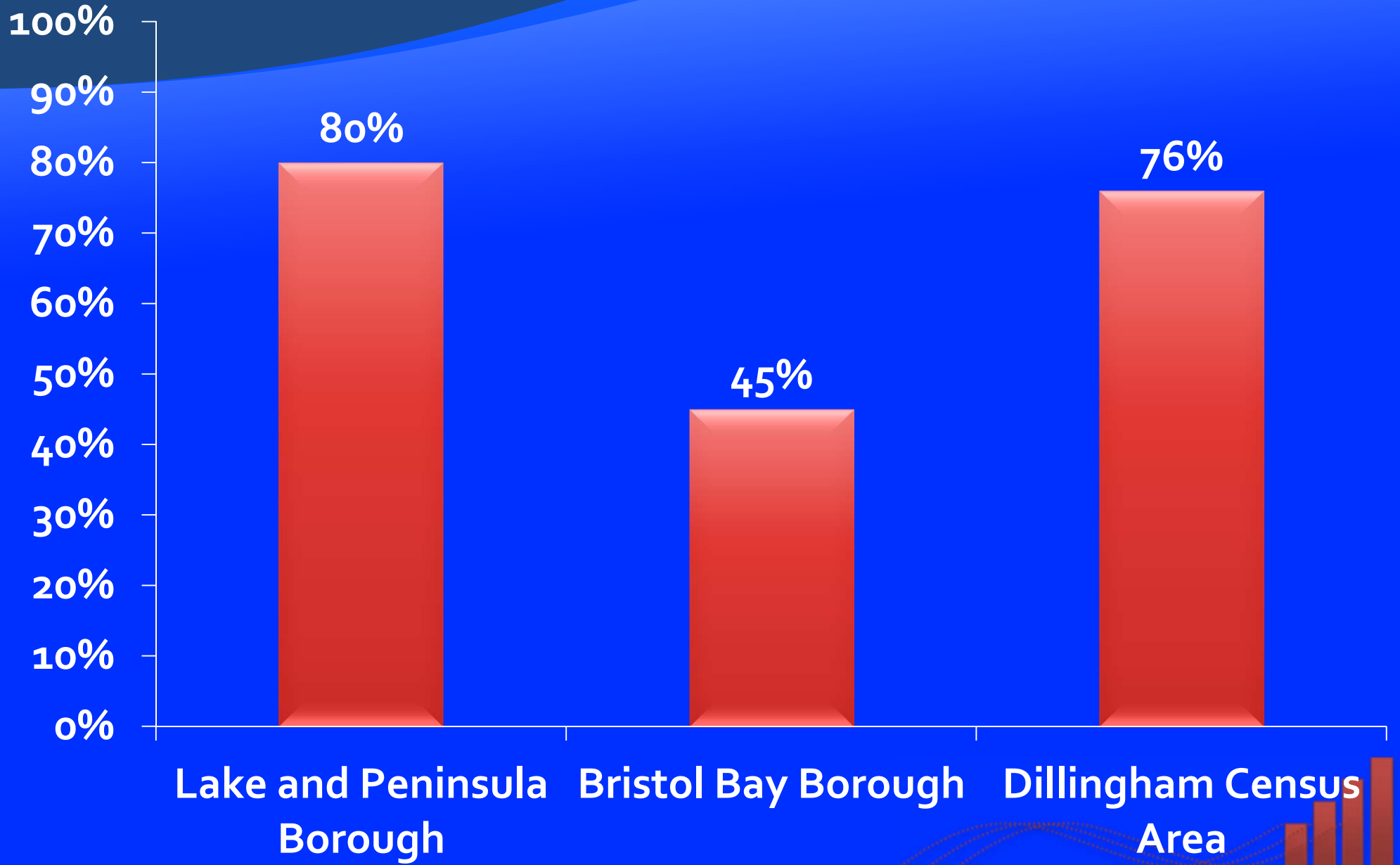
■ Mat-Su Borough

▲ Mun. of Anchorage

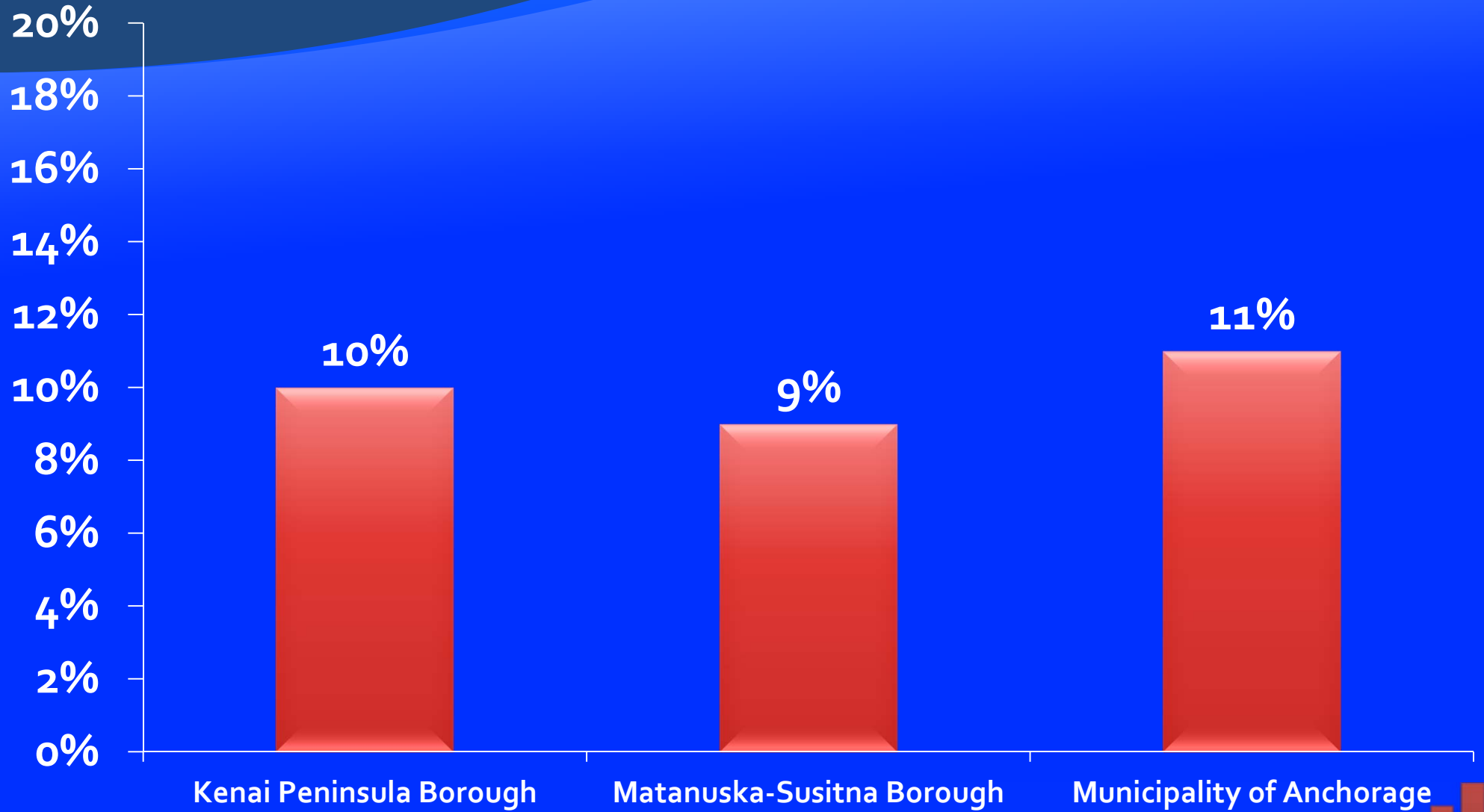
# Iliamna Lake/Lake Clark Communities: Percentage of Population American Indian or Alaska Native



# Lake and Peninsula Borough: Percentage of Population American Indian or Alaska Native 2000

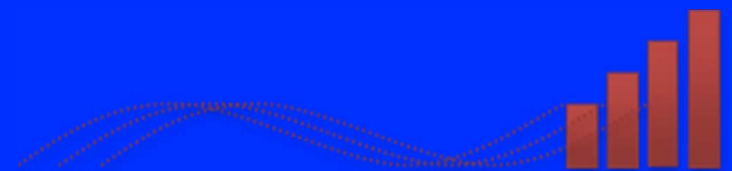


# Cook Inlet/Mat-Su Borough: Percentage of Population American Indian or Alaska Native 2008



# Economy: Content/Scope

- ◆ Cash & Non-cash Economic Profile
- ◆ Employment/Unemployment (1990, 2000, 2009)
  - ◆ Annual average, peak, key local employers
- ◆ Commercial fishing activity/permit holders/crew (1990-2009)
- ◆ Capital improvement projects (2002-2009)
- ◆ Workforce attributes (1990, 2000)
- ◆ Per capita and household income (1990, 2000)
- ◆ Public assistance receipts (2001-2009)



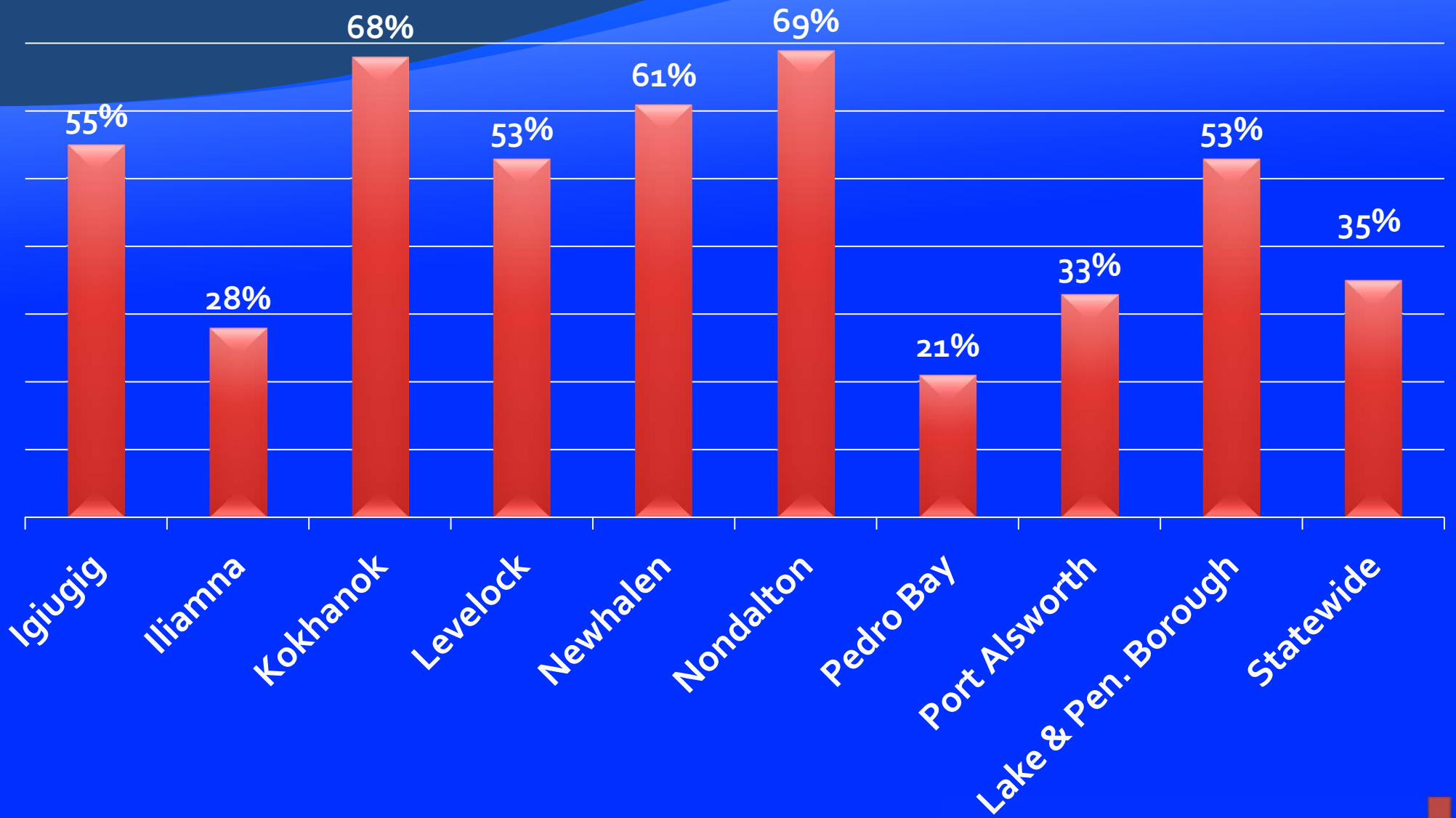
# Iliamna Lake/Lake Clark Communities: Median Household Income (2000 US Census)



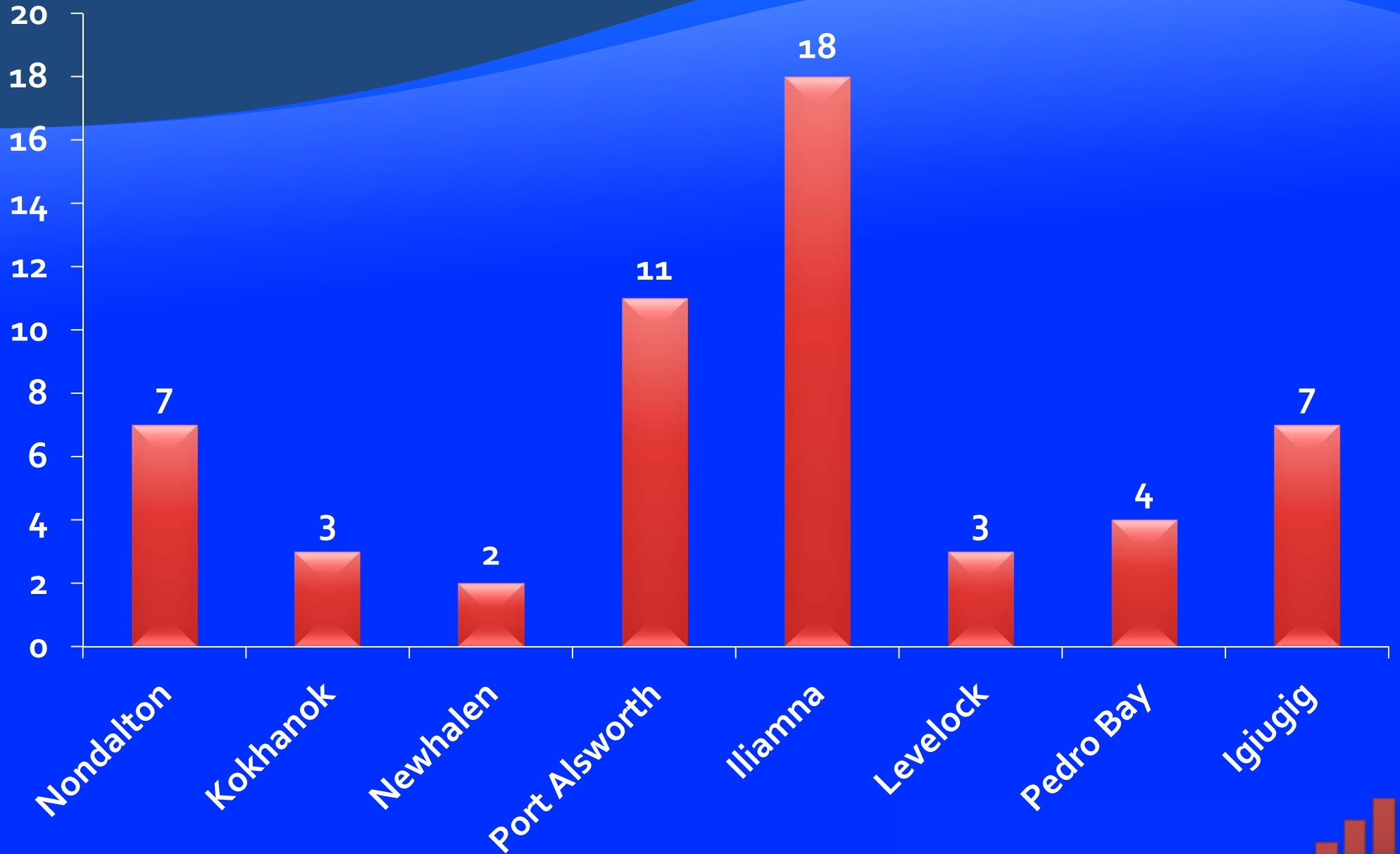
# Iliamna Lake/Lake Clark Communities: Per Capita Income (2000 US Census)



# Iliamna Lake/Lake Clark Communities: Population >16 Years Not in Labor Force (2000)

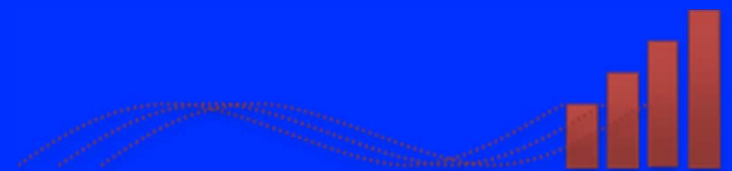


# Iliamna Lake/ Lake Clark Communities: Local Employers (2007)

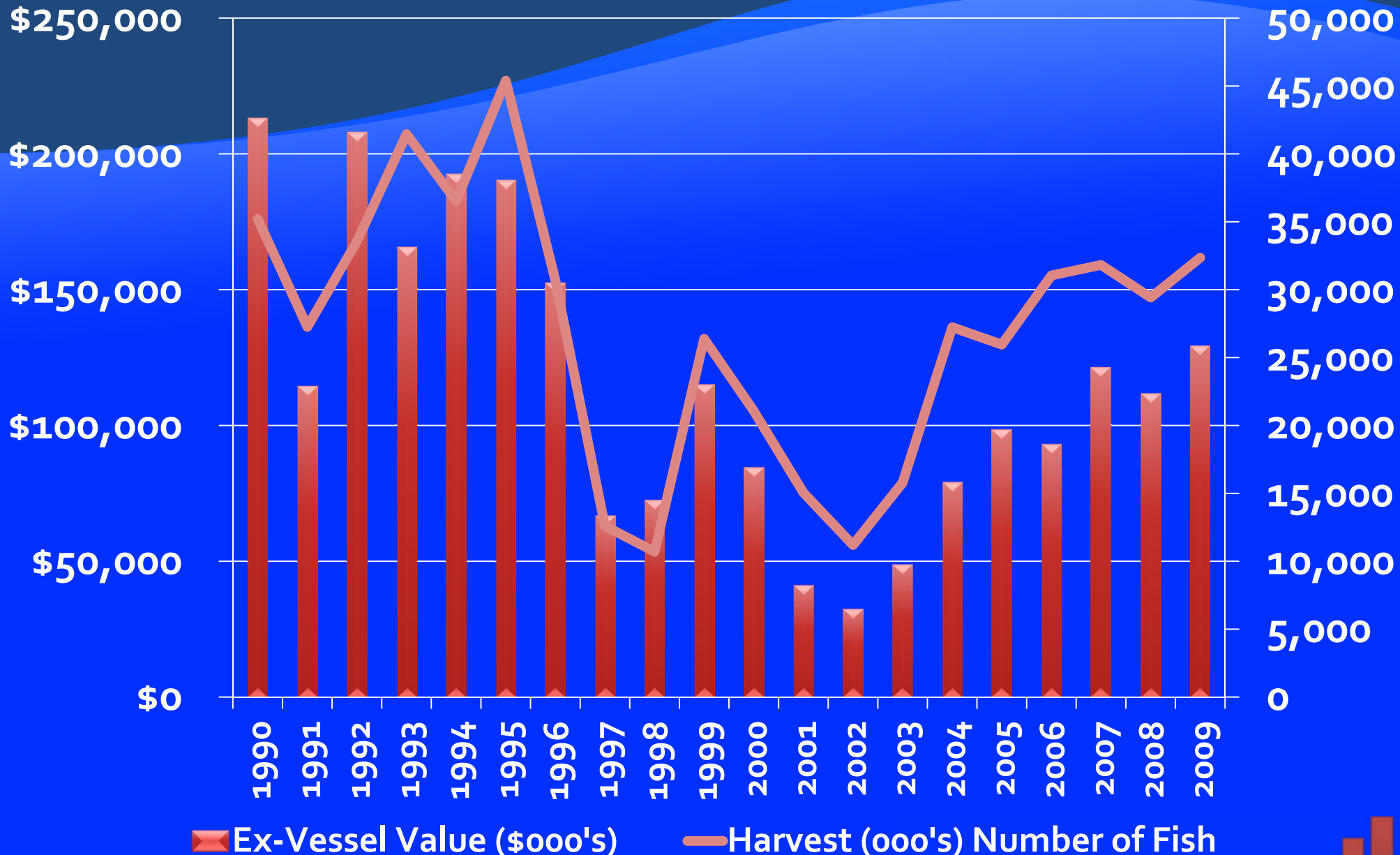


# Cash Economy: Content/Scope

- ◆ Basic Industry Overview
  - ◆ Commercial fishing/seafood processing
  - ◆ Visitor industry
  - ◆ Government
  - ◆ Other mining activity
- ◆ Regional economic outlook



# Bristol Bay Fisheries: Ex-Vessel Value & Harvest Trends (1990-2009)

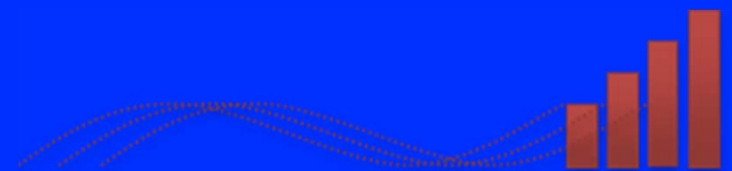


Ex-Vessel Value (\$000's)

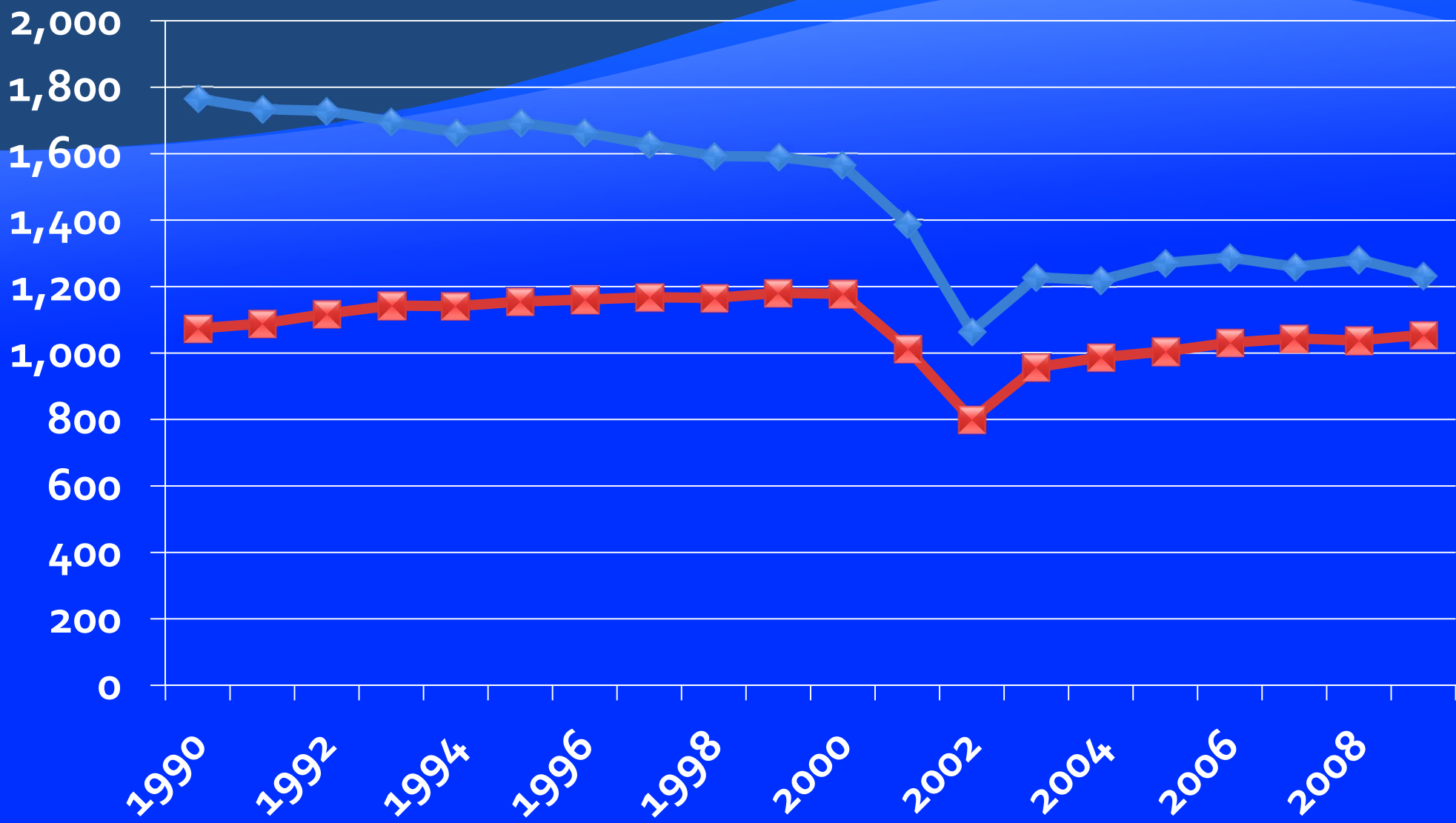
Harvest (000's) Number of Fish

## Bristol Bay Fisheries: Alaska Resident/Non-Resident Participation

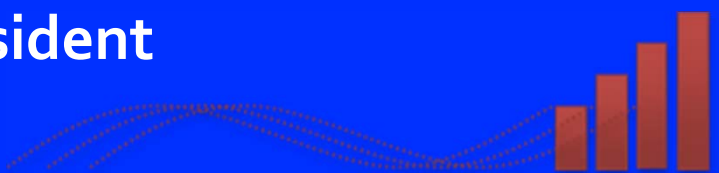
- ◆ AK resident participation in BB driftnet fishery hit a low point of 587 permits fished (50% of all permits fished) in 2002. After 2002, resident participation started to increase
  - ◆ In 2009, AK residents fished 665 permits, 46% of total
- ◆ Similar trends in BB setnet, but majority of permits fished still held by residents
  - ◆ In 2009, AK resident permit holders accounted for 567 permits fished or 67% of total permits fished



# Bristol Bay Fisheries: Resident/Non-Resident Permits Fished (1990-2009)



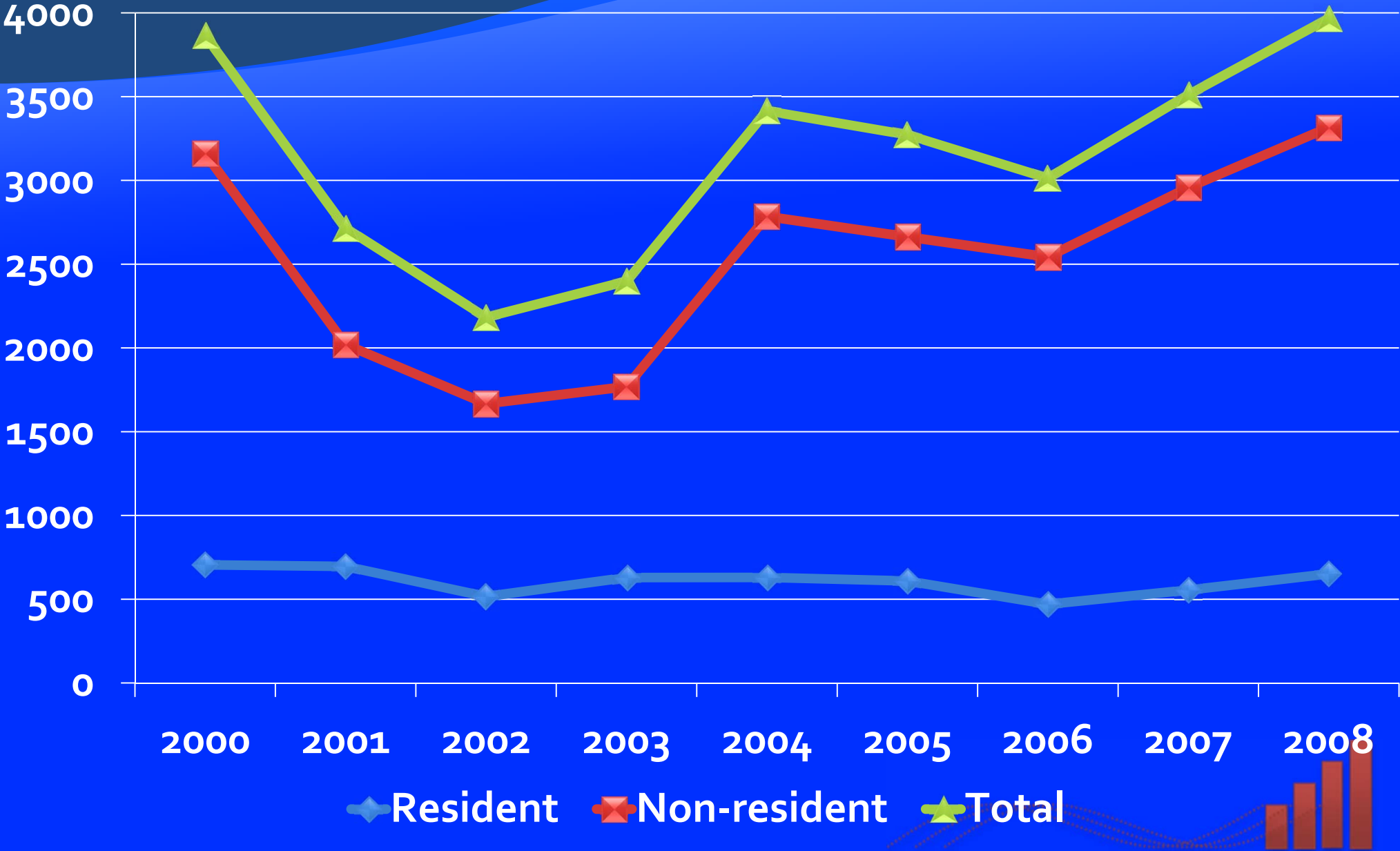
◆ AK Resident    ■ Non-resident



# Bristol Bay Fisheries: Local Region Resident Participation (2009)

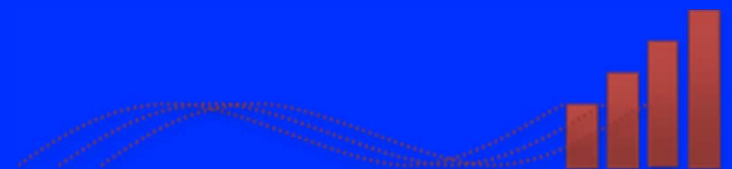
	<b>Bristol Bay Setnet Permits Fished</b>	<b>% of total BB setnet permits fished</b>	<b>Bristol Bay Driftnet Permits Fished</b>	<b>% of total BB driftnet permits fished</b>
<b>Bristol Bay Borough residents</b>	<b>94</b>	<b>7%</b>	<b>48</b>	<b>6%</b>
<b>Dillingham Census Area residents</b>	<b>168</b>	<b>12%</b>	<b>200</b>	<b>24%</b>
<b>Lake &amp; Peninsula Borough residents</b>	<b>37</b>	<b>3%</b>	<b>41</b>	<b>5%</b>

# Bristol Bay Regional Fisheries: Seafood Processing Employment, Total Annual Count (2000-2008)



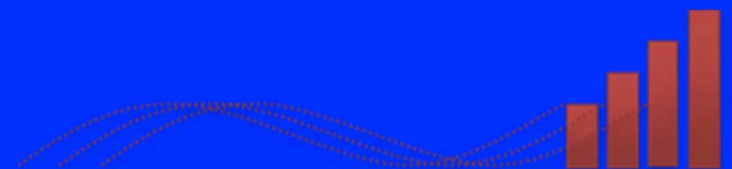
# Cash Economy: Data Sources

- ◆ Local sources
  - ◆ Planning documents
  - ◆ Interviews
- ◆ State sources
  - ◆ DOLWD, DCCED, ADF&G, H&SS, DNR
- ◆ Federal sources
  - ◆ Census, BEA, NPS
- ◆ Other
  - ◆ Internal documents



# Cash Economy: Research Challenges

- ◆ Employment and income
  - ◆ DOLWD data does not include self-employed or military
  - ◆ Data may be reported by company HQ, not job location
  - ◆ Unemployment data is based on applications for benefits
  - ◆ No resident/non-resident data
  - ◆ Confidentiality



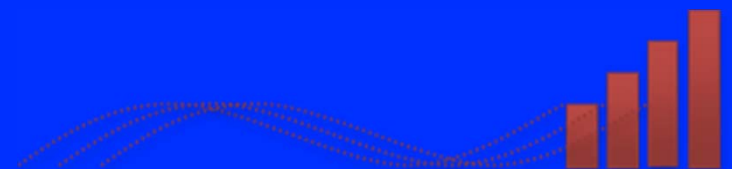
# Community Infrastructure: Content/Scope

## ◆ Housing

- ◆ Number of housing units, heating source, value, other characteristics

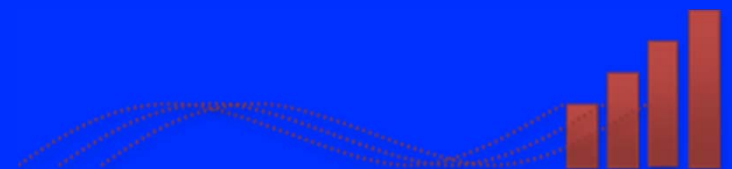
## ◆ Utilities

- ◆ Water and wastewater
- ◆ Solid waste
- ◆ Communications



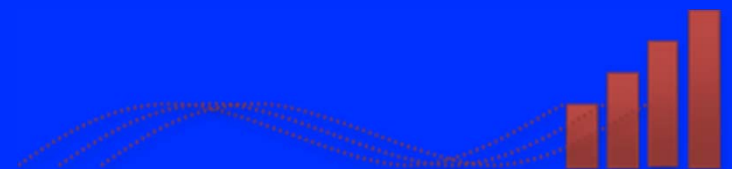
# Community Infrastructure: Content/Scope

- ◆ Education
  - ◆ Facilities, Enrollment, Staff
- ◆ Health Care
  - ◆ Clinic services
  - ◆ EMS
- ◆ Public Safety
  - ◆ Law enforcement, Fire/Rescue



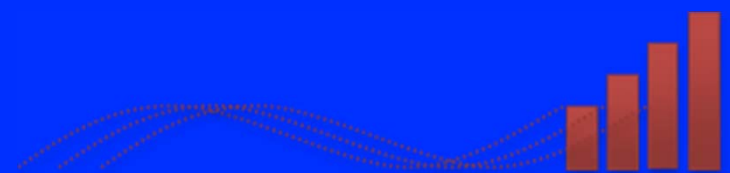
# Community Infrastructure: Data Sources/Limitations

- ◆ Local sources
  - ◆ Interviews
- ◆ State sources
  - ◆ DCCED, DEED, DPS
- ◆ Federal sources
  - ◆ Census
- ◆ Other
  - ◆ Regional housing authorities
  - ◆ Regional health care providers
  - ◆ Communications carriers



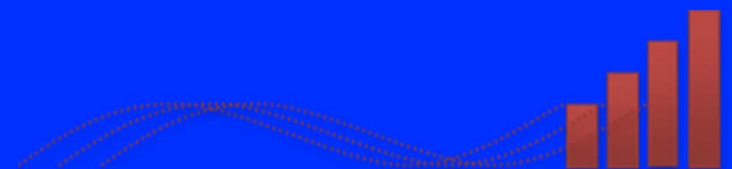
# Health and Social: Content/Scope

- ◆ Health
  - ◆ Birth rates, and death rates and leading causes of death
  - ◆ Hospitalizations by diagnoses
  - ◆ Leading causes of non-fatal injuries



# Health and Social: Content/Scope

- ◆ Crime
  - ◆ Reported crime incidences
- ◆ Education
  - ◆ School inventory and enrollment
  - ◆ Graduation and dropout rates
  - ◆ Assessments – Annual Yearly Progress, Standards Based Assessments, High School Graduation Qualifying Examinations



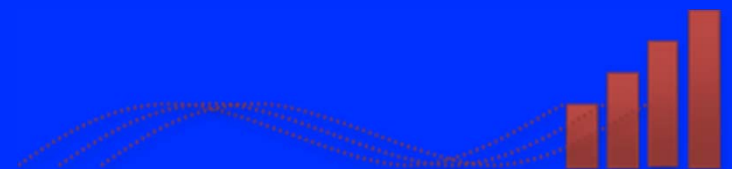
# Health and Social: Data Sources

- ◆ State sources

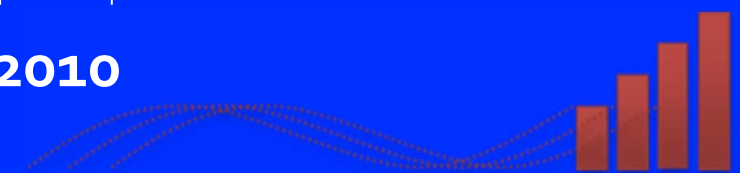
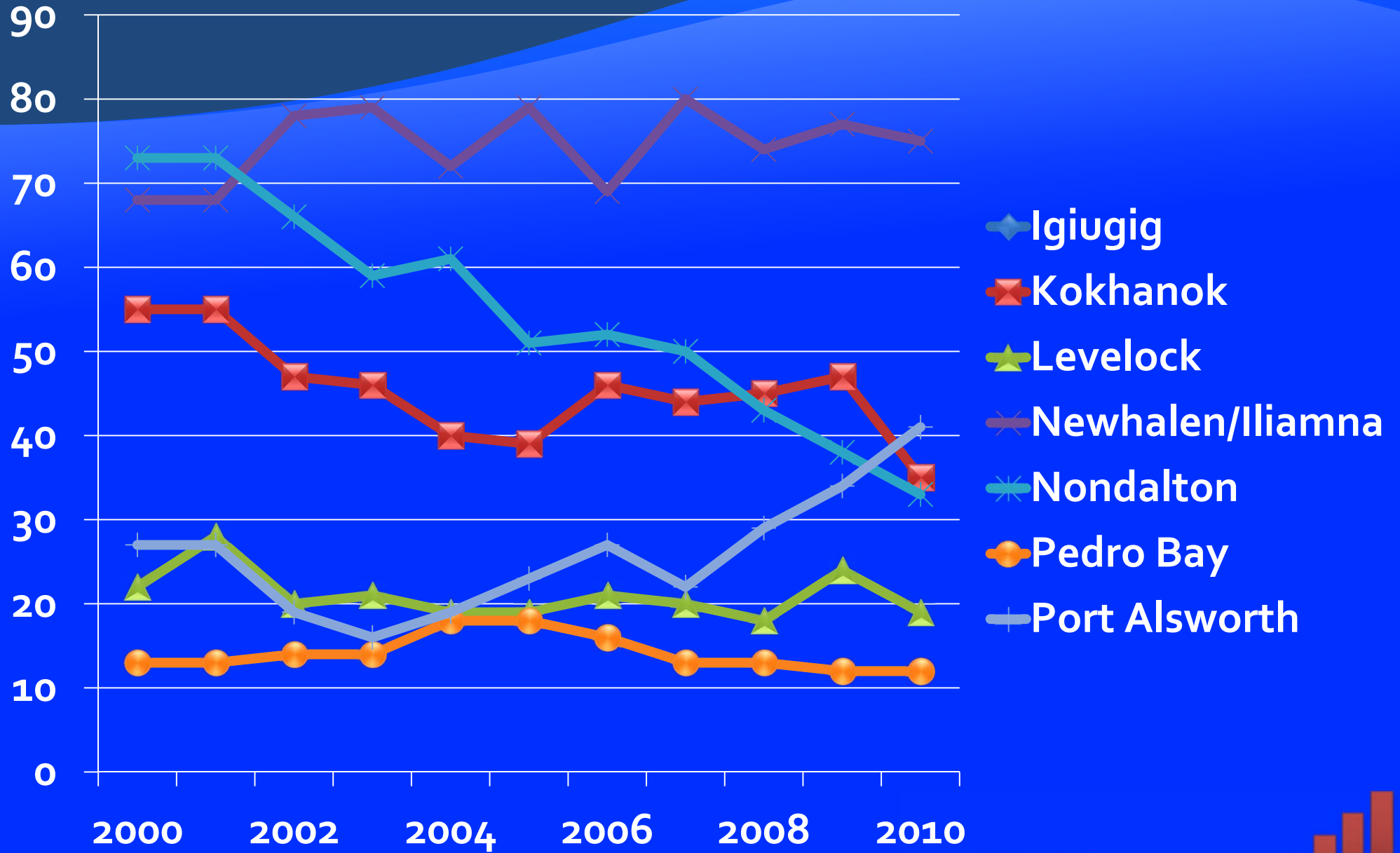
- ◆ Department of Health and Social Services, Bureau of Vital Statistics
- ◆ Department of Public Safety
- ◆ Department of Education and Early Development

- ◆ Federal sources

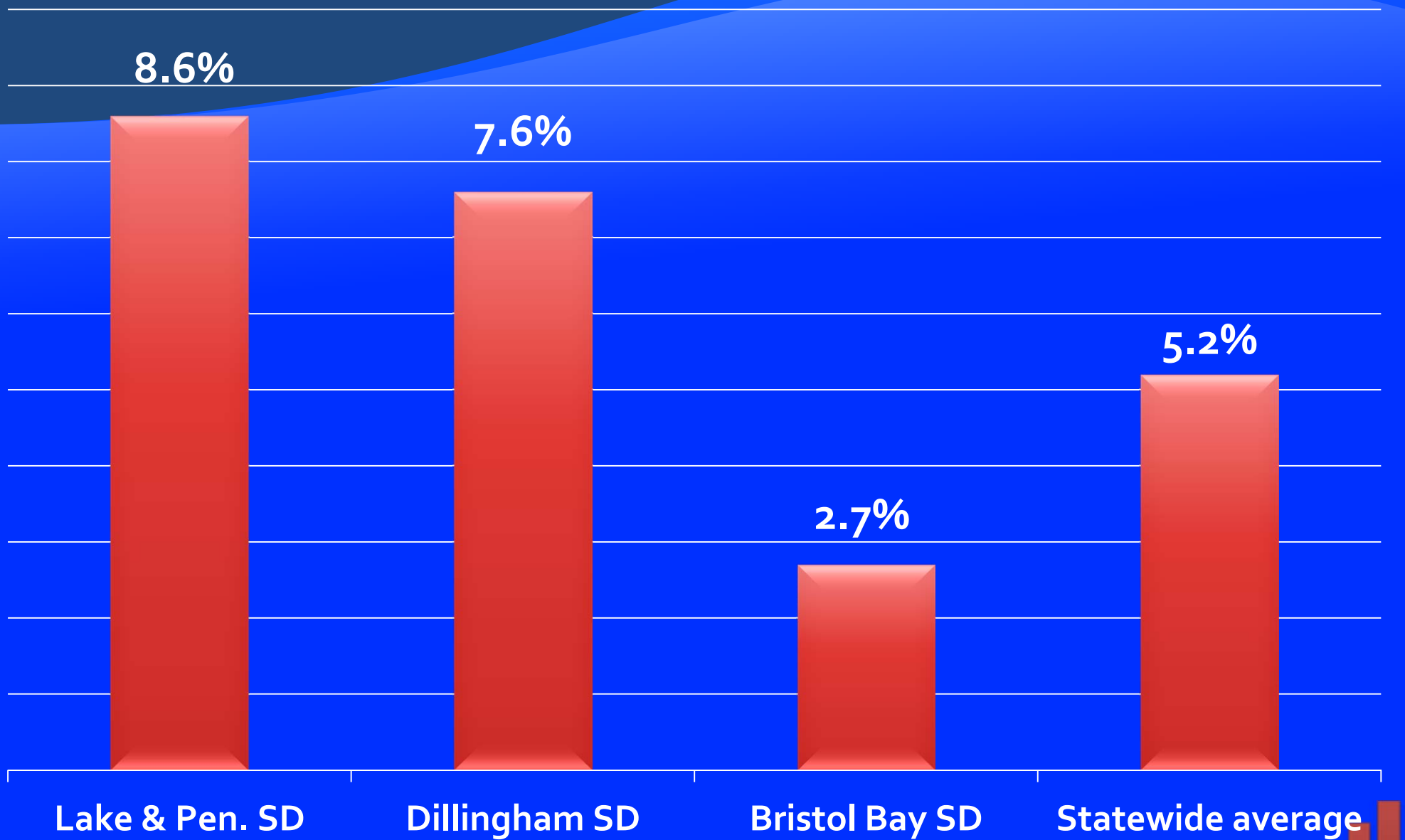
- ◆ U.S. Census
- ◆ FBI



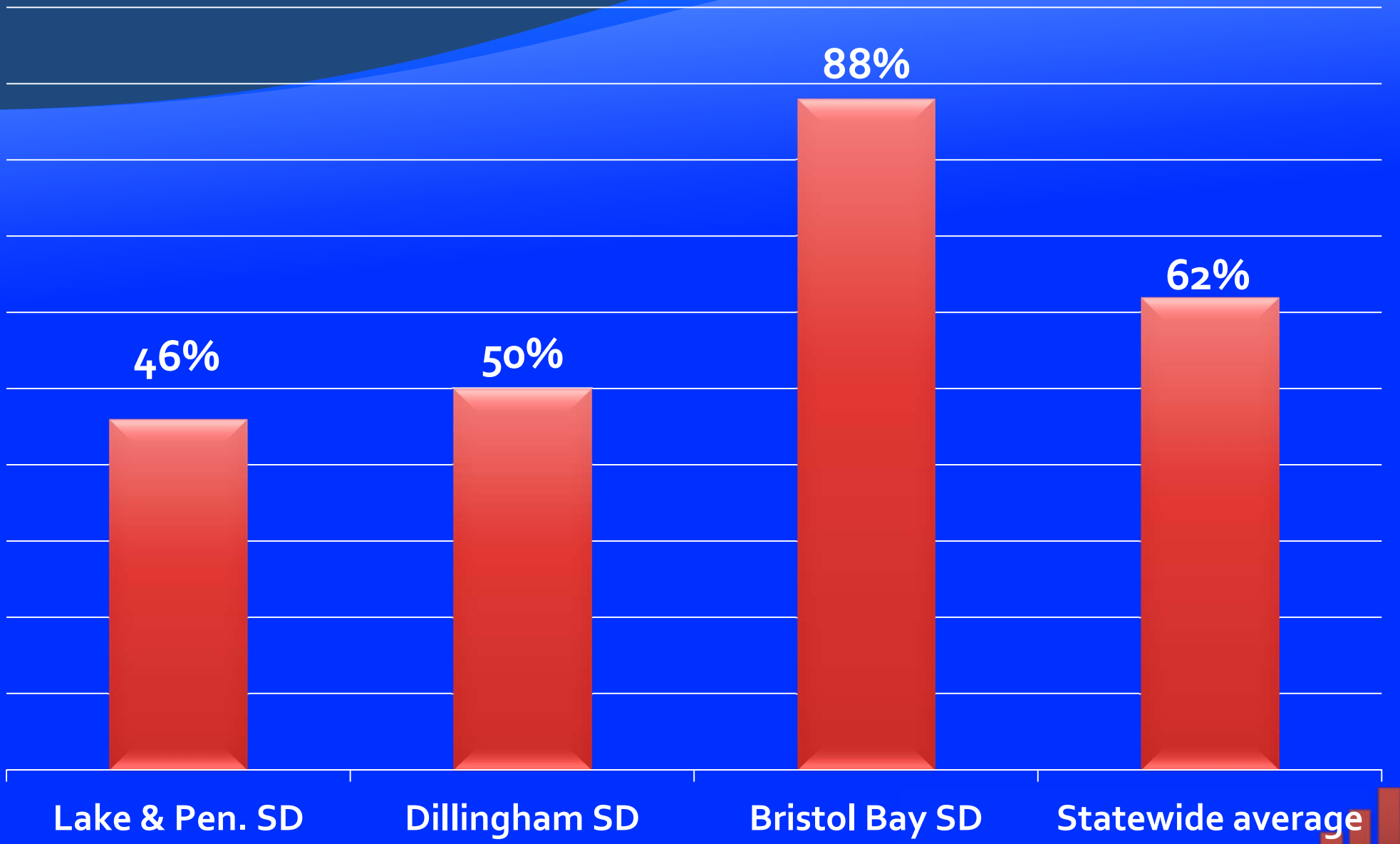
# Iliamna Lake/Lake Clark Communities: School Enrollment 2000-2010



# Education: Drop Out Rates (Grade 7-12) (SY 2008/2009)

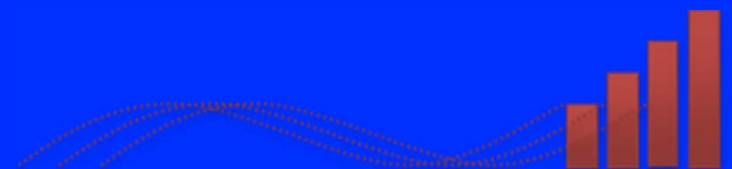


# Education: Graduation Rates (Grades 9-12 Cohort) (SY 2007-2008)



# Health and Social: Research Challenges

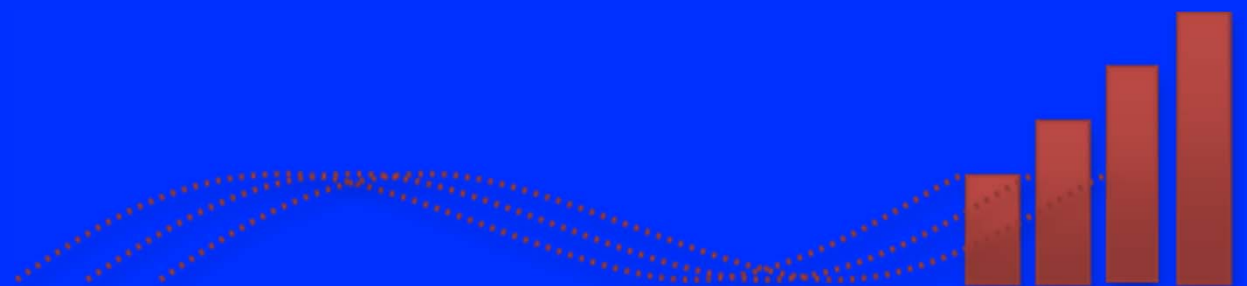
- ◆ Indicator Selection Criteria:
  - ◆ Collected by reliable sources (such as government agencies or experienced private sector researchers)
  - ◆ Regularly and systematically updated
  - ◆ Related specifically to the geographic area studied
- ◆ However, for confidentiality reasons, as well as low (or no) survey samples, some comparative community-level data is limited or unavailable



# Pebble Project Socioeconomic Baseline

Prepared for:  
**Baseline Environmental Team Meetings**

Prepared by:  
McDowell Group, Inc.  
Juneau · Anchorage  
February 2012



McDowell Group