

Village Income, Jobs, & Mineral Exploration: *A case study of the Pebble Exploration Project*

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Acknowledgements & Caveats

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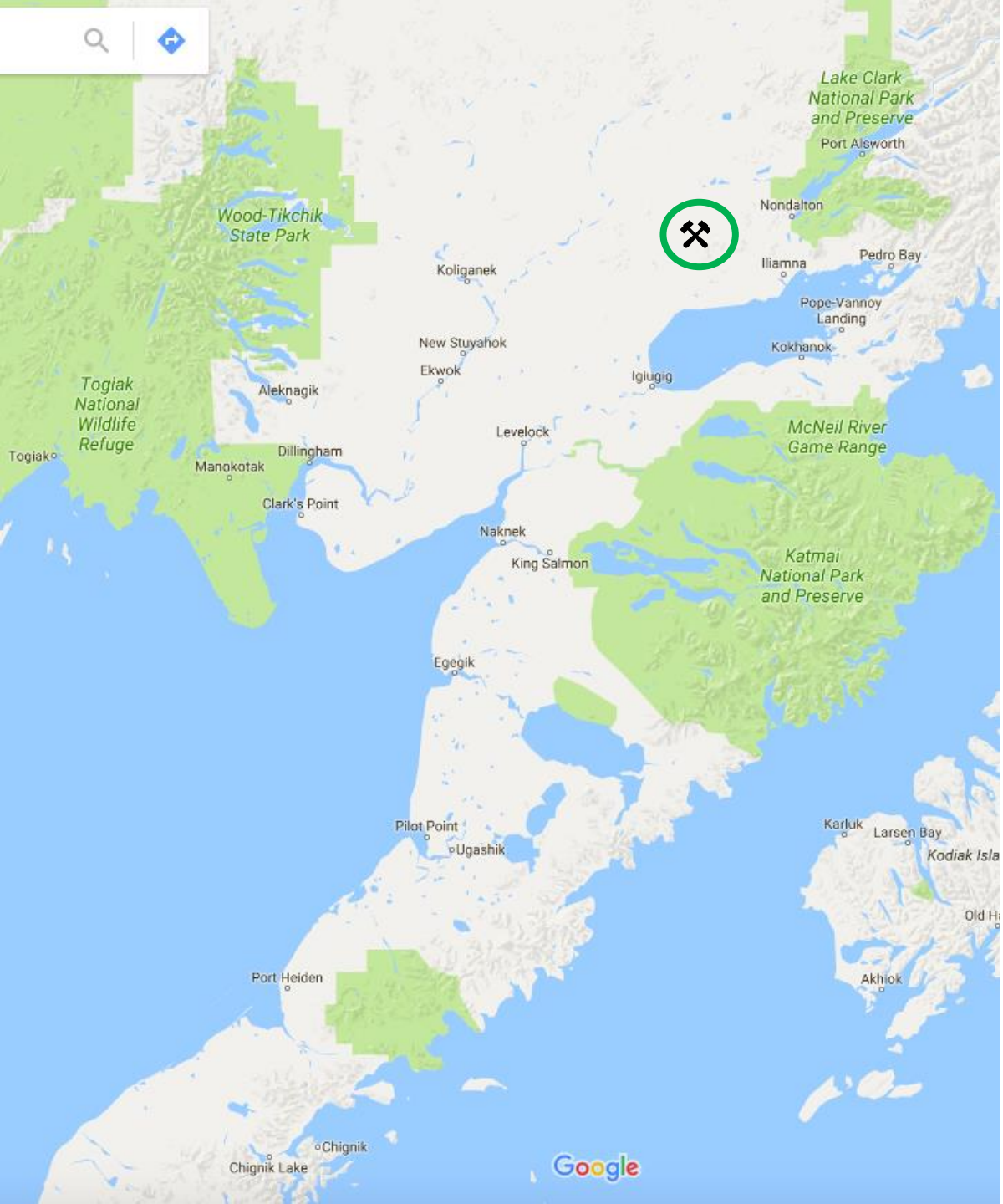


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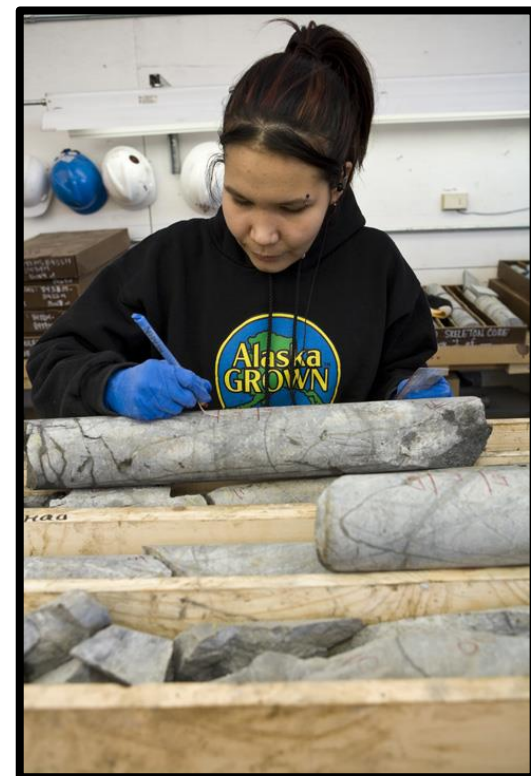


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This Talk

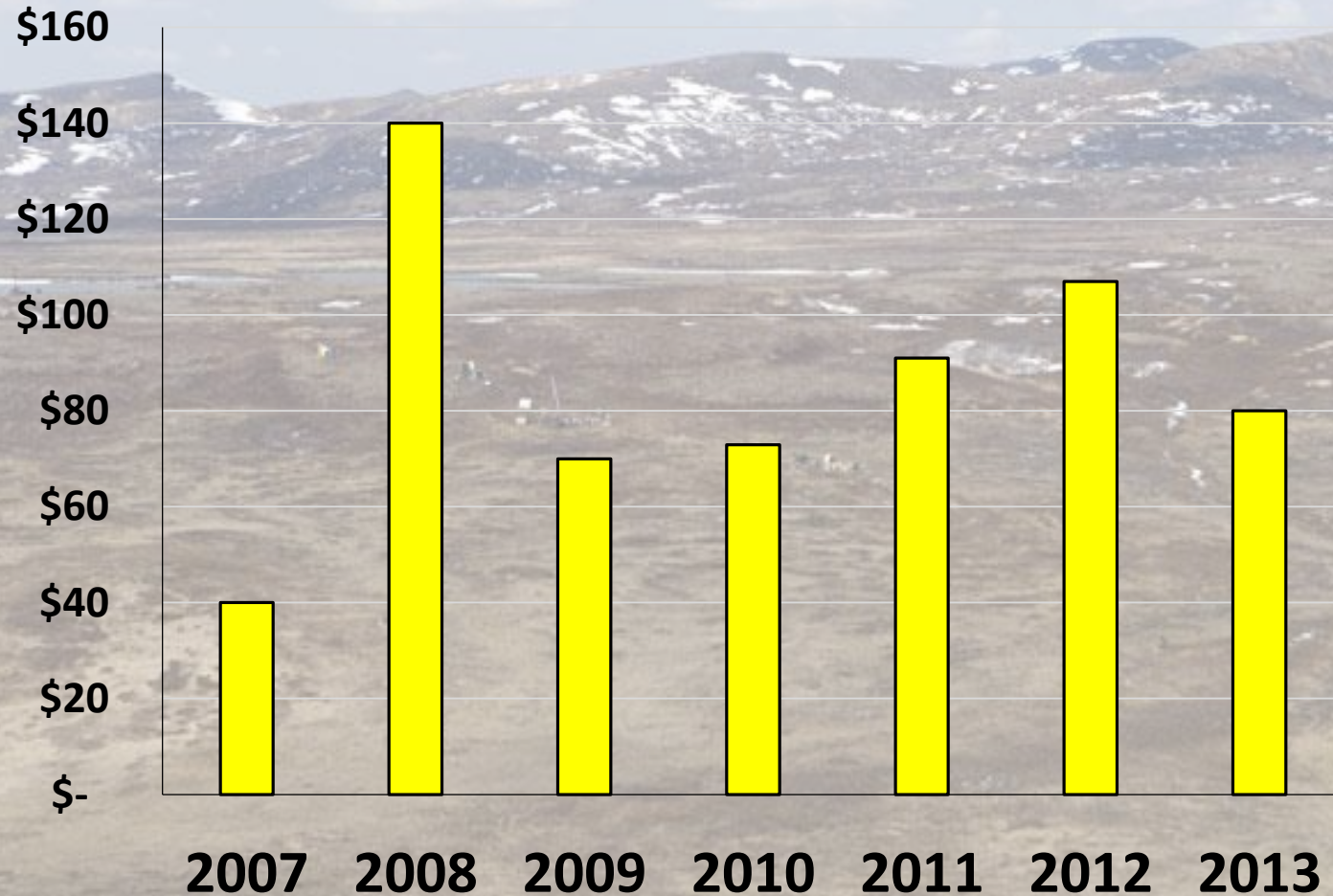
1. Project
2. Villages
3. Workforce
4. Village Effects
5. Aftermath



Photos courtesy of Northern Dynasty Minerals, Ltd website

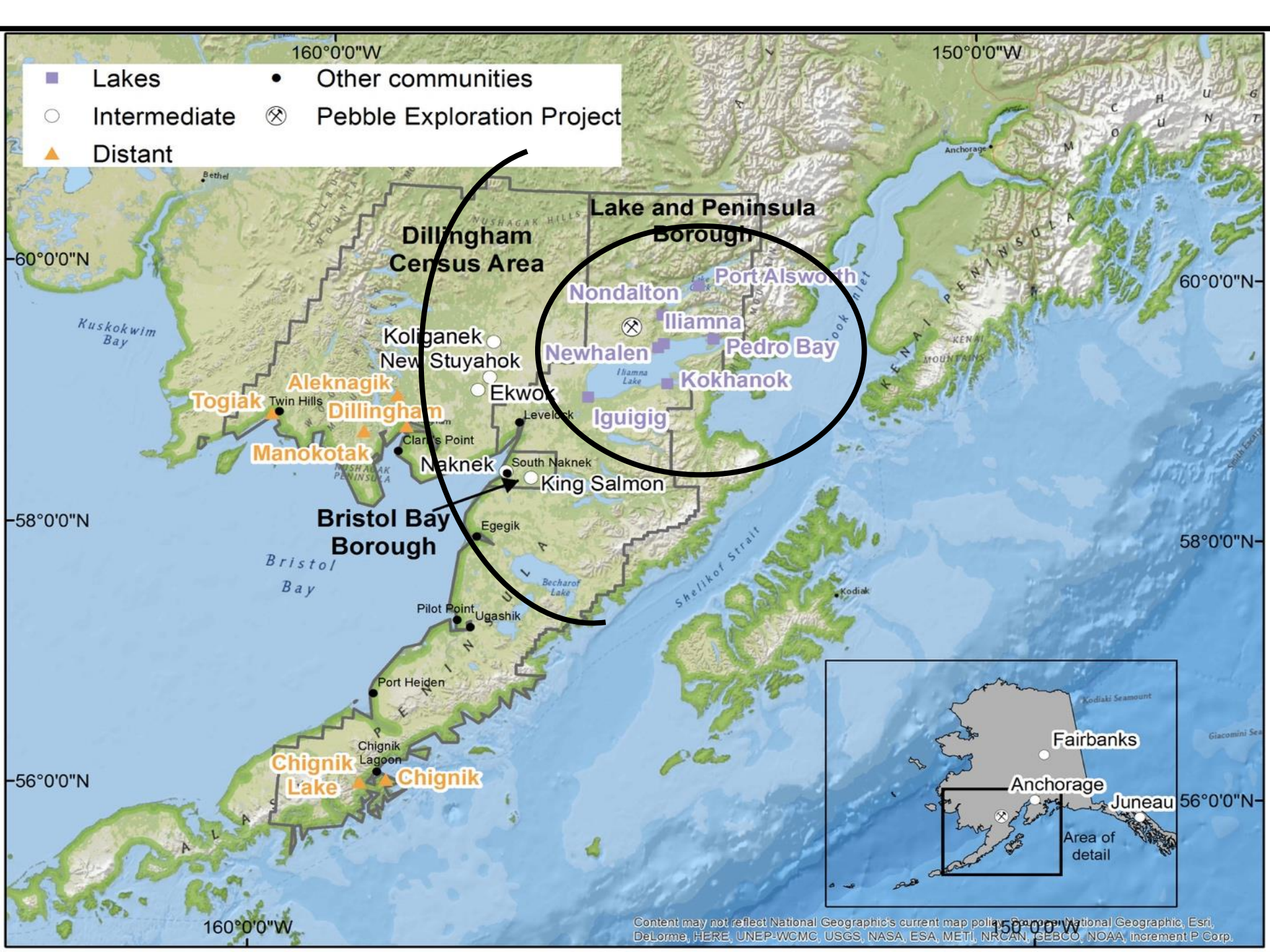
Annual Pebble Exploration, Engineering, and Environmental Expenditures

(Amount in Million \$)



Source: Pebble Limited Partnership press releases 2007-2013





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Lakes Region

Port Alsworth

Nondalton

Exploration Site 

Pedro Bay

Iliamna

Newhalen

Pope-Vannoy Landing

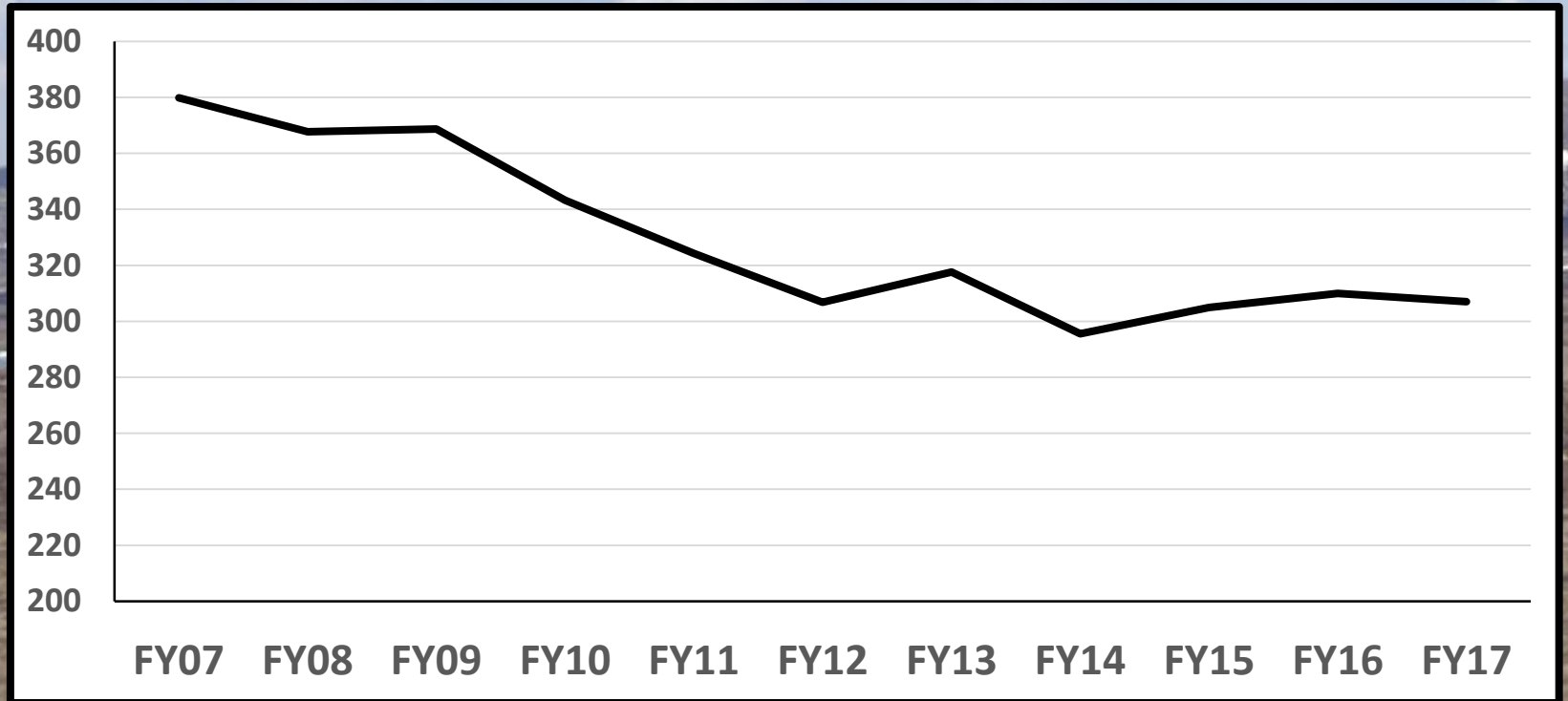
Kokhanok

Igiugig

Iliamna Lake



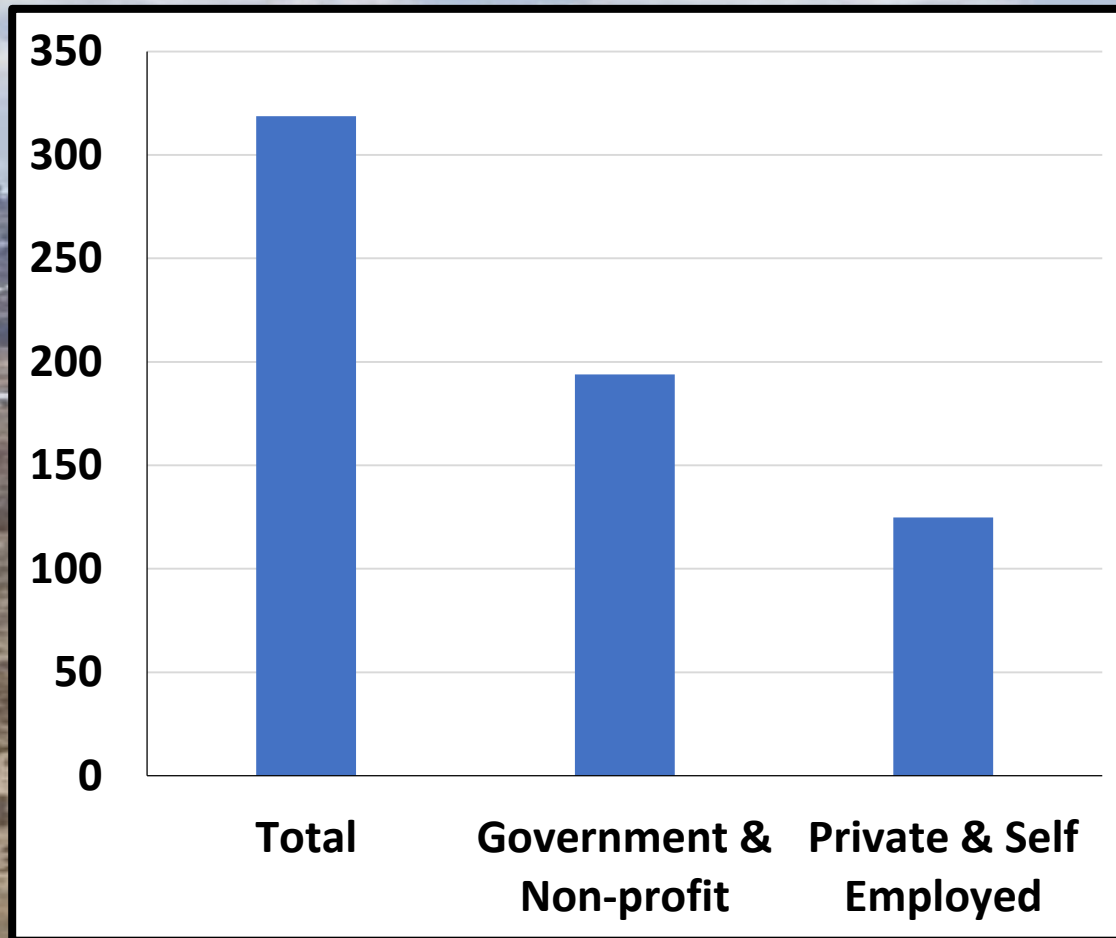
School Enrollment Lake and Peninsula School District

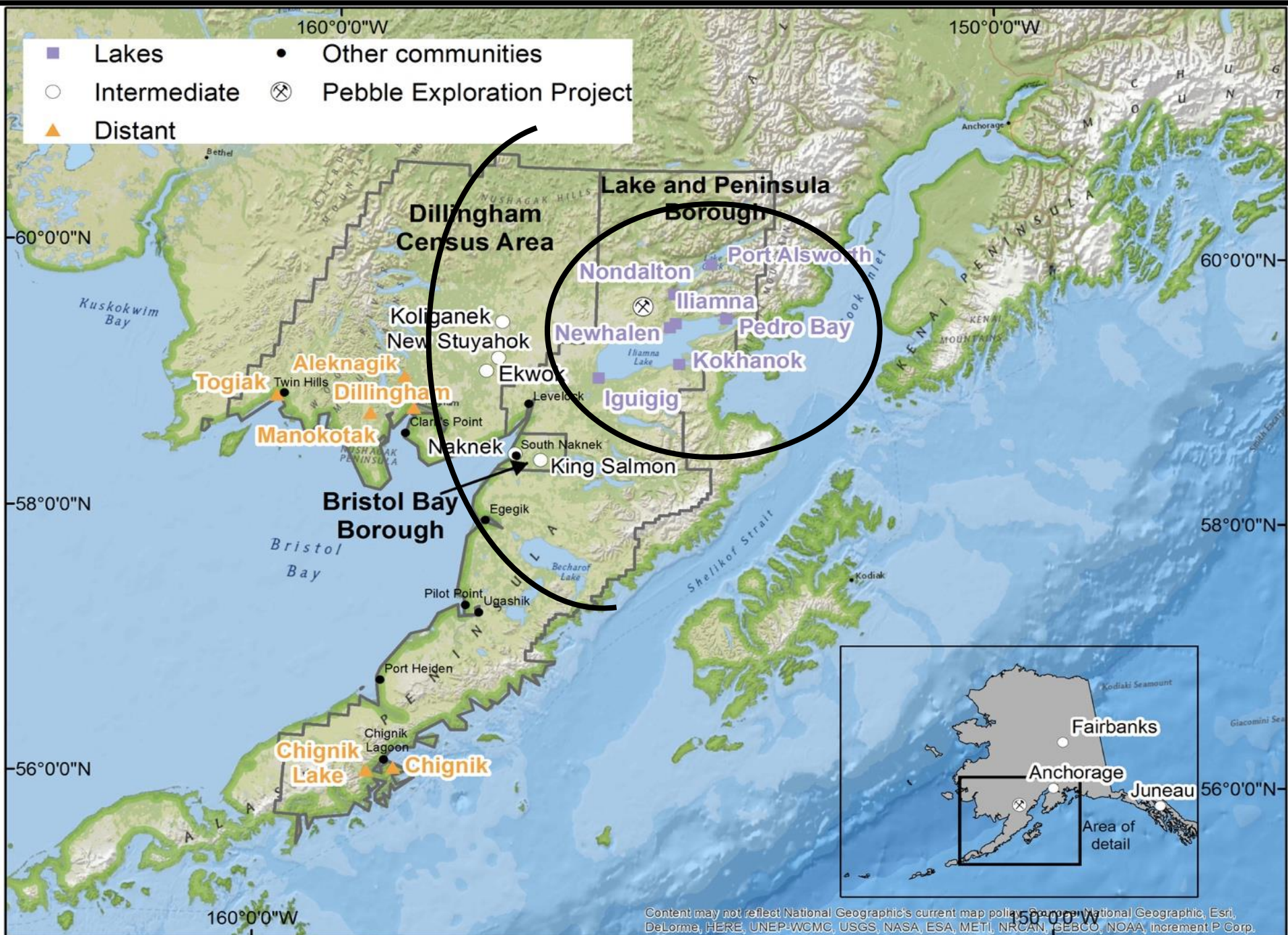


Source: Lake and Peninsula School District

The Government and the Private Economy

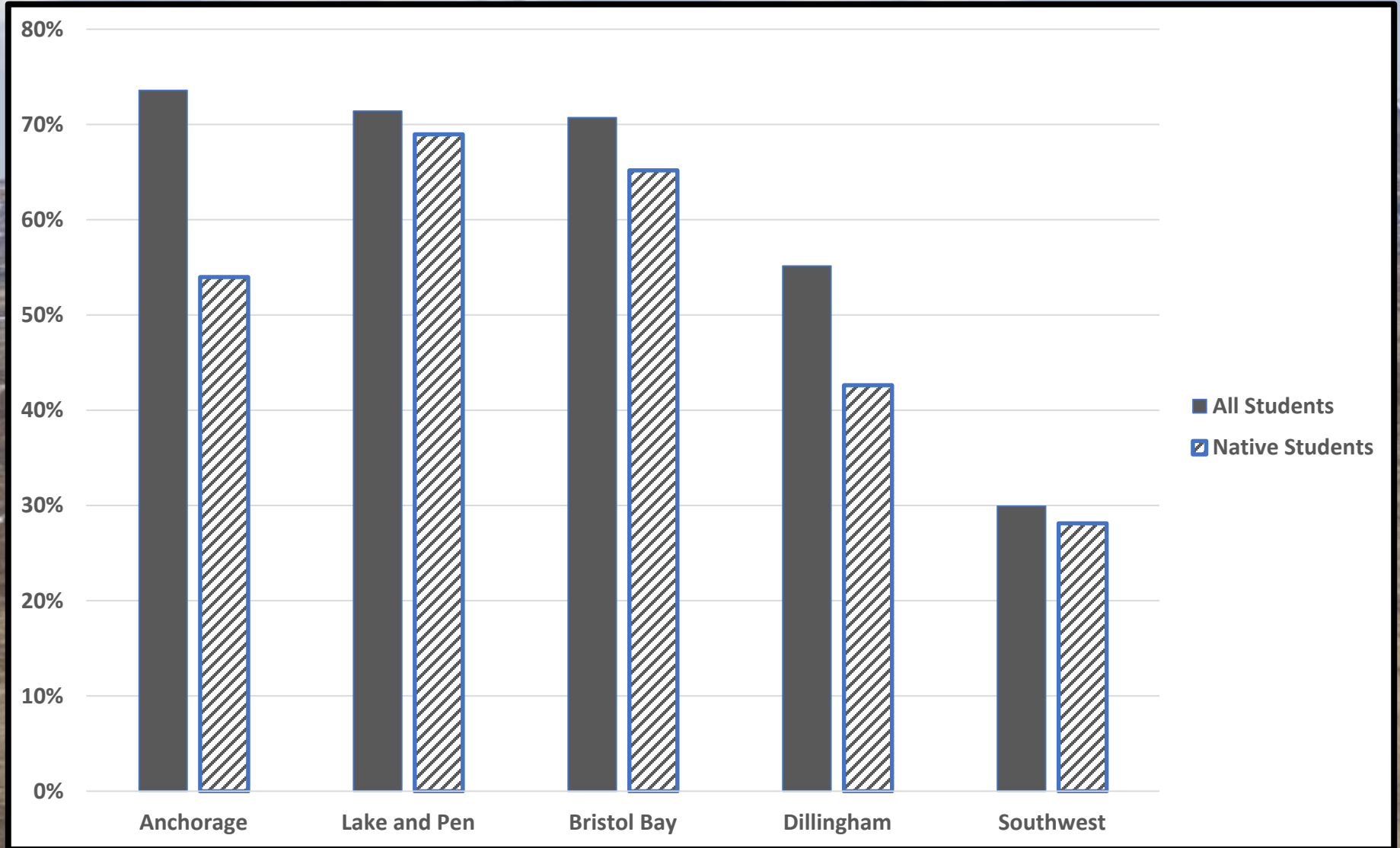
Annual Employment by Category, Lakes Region





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Percent of Students Proficient at Grade Level: K-12 Average of Reading, Writing, Math, and Science 2013-2014



Recruitment Methods Matter



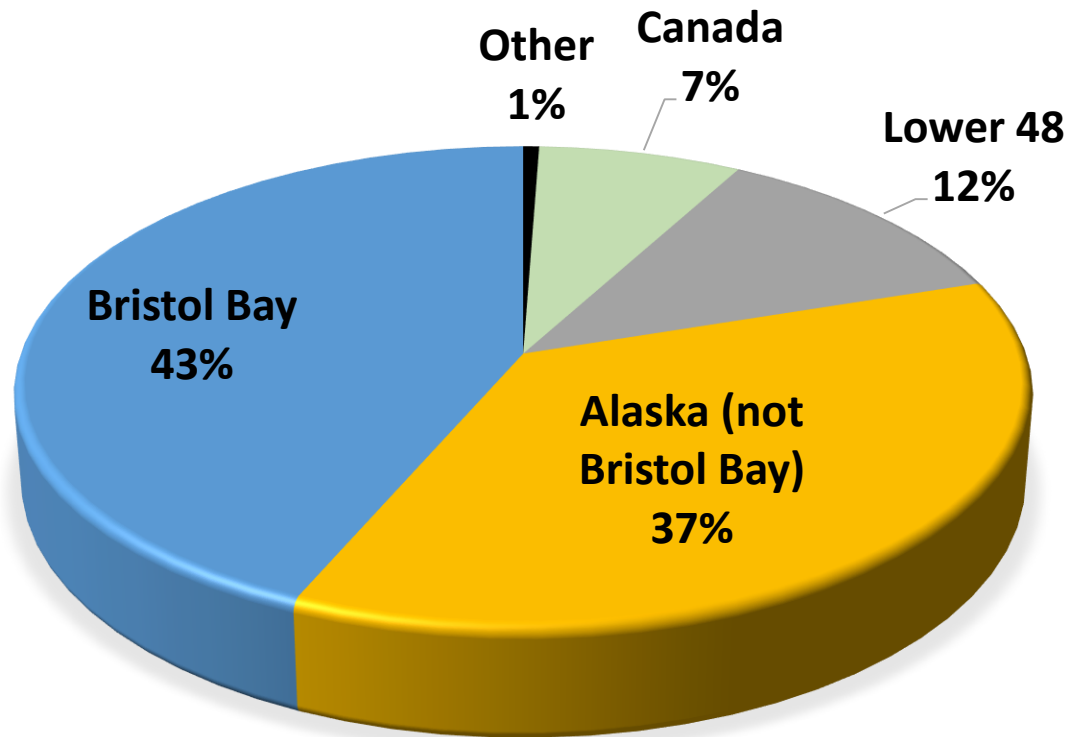
Y FLAGG

I WANT YOU
FOR Our exploration project!

NEAREST RECRUITING STATION
APPLY TO YOUR POSTMASTER

Employee Home Location

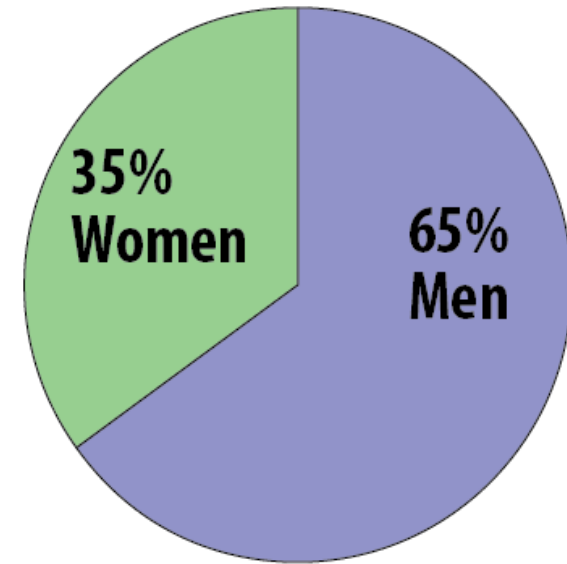
2009-2012



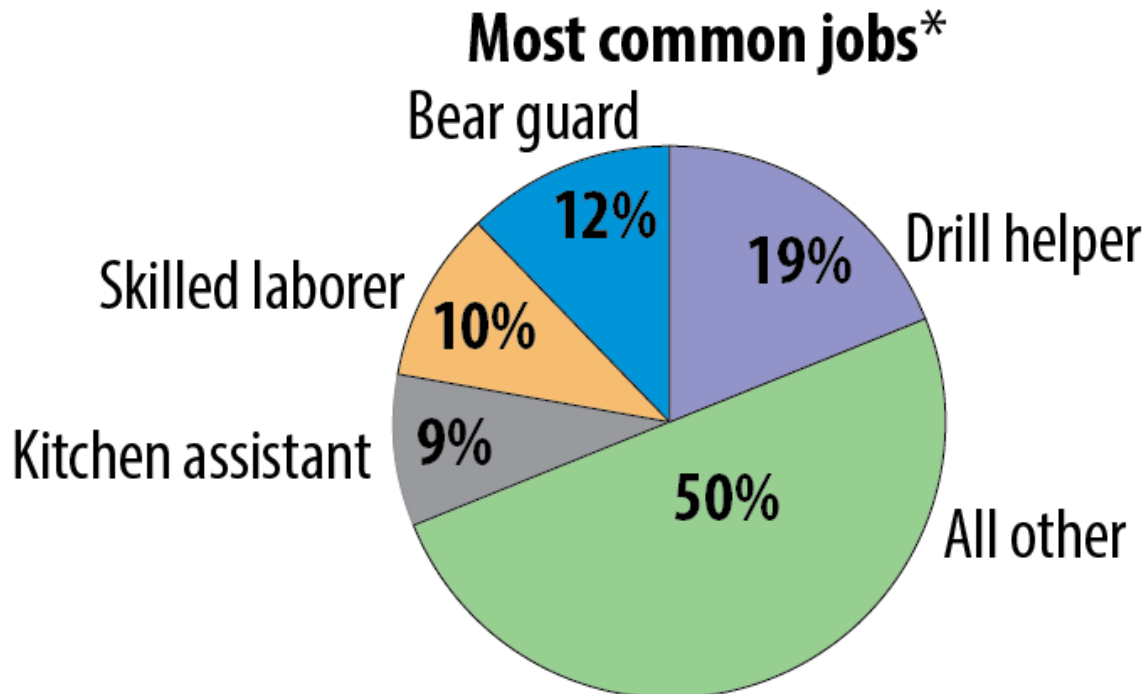
Bristol Bay Workers

Total 301 Workers, 2009-2012

- Gender of workers:
Two-thirds men

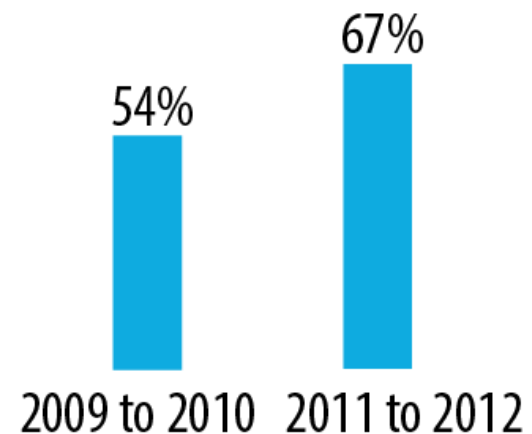


- Total kinds of jobs held: 56



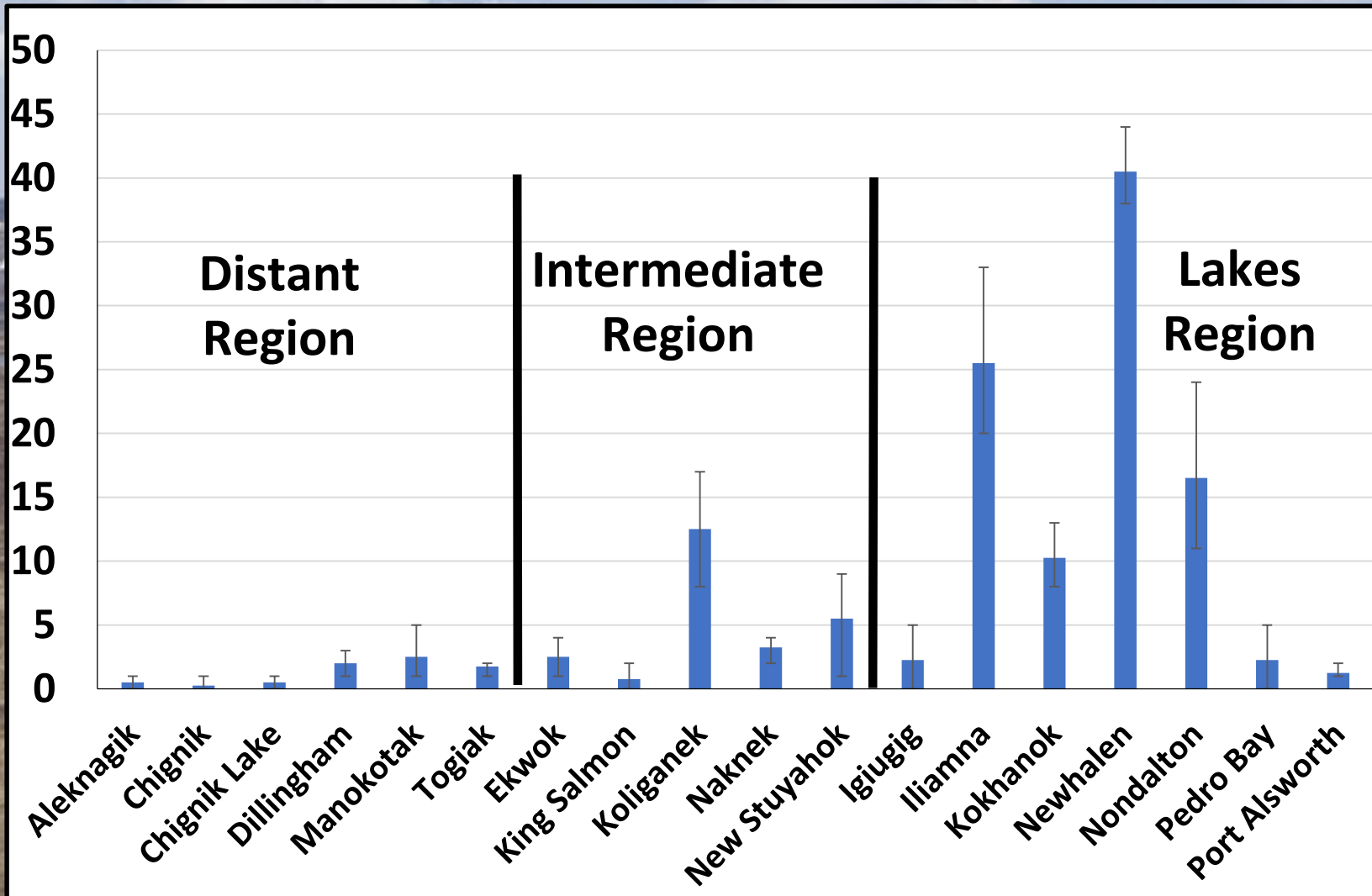
Wages and Retention Rates

- Almost all jobs seasonal (May-October/November)
- Average hourly wage: \$19.15
- Average annual income: \$15,415
- Year-to-year employee retention:
Increasing from one half to two-thirds

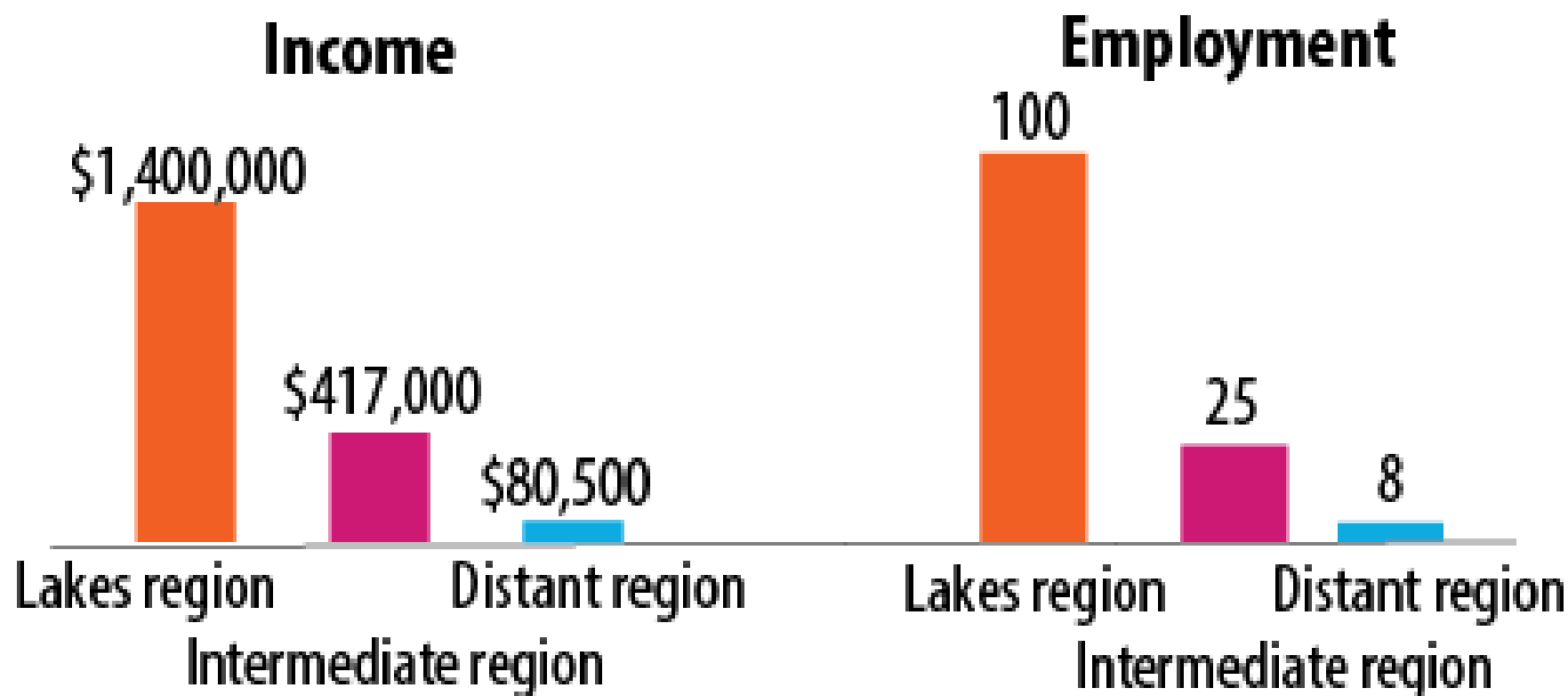


Average Annual Employment by Village

2009-2012



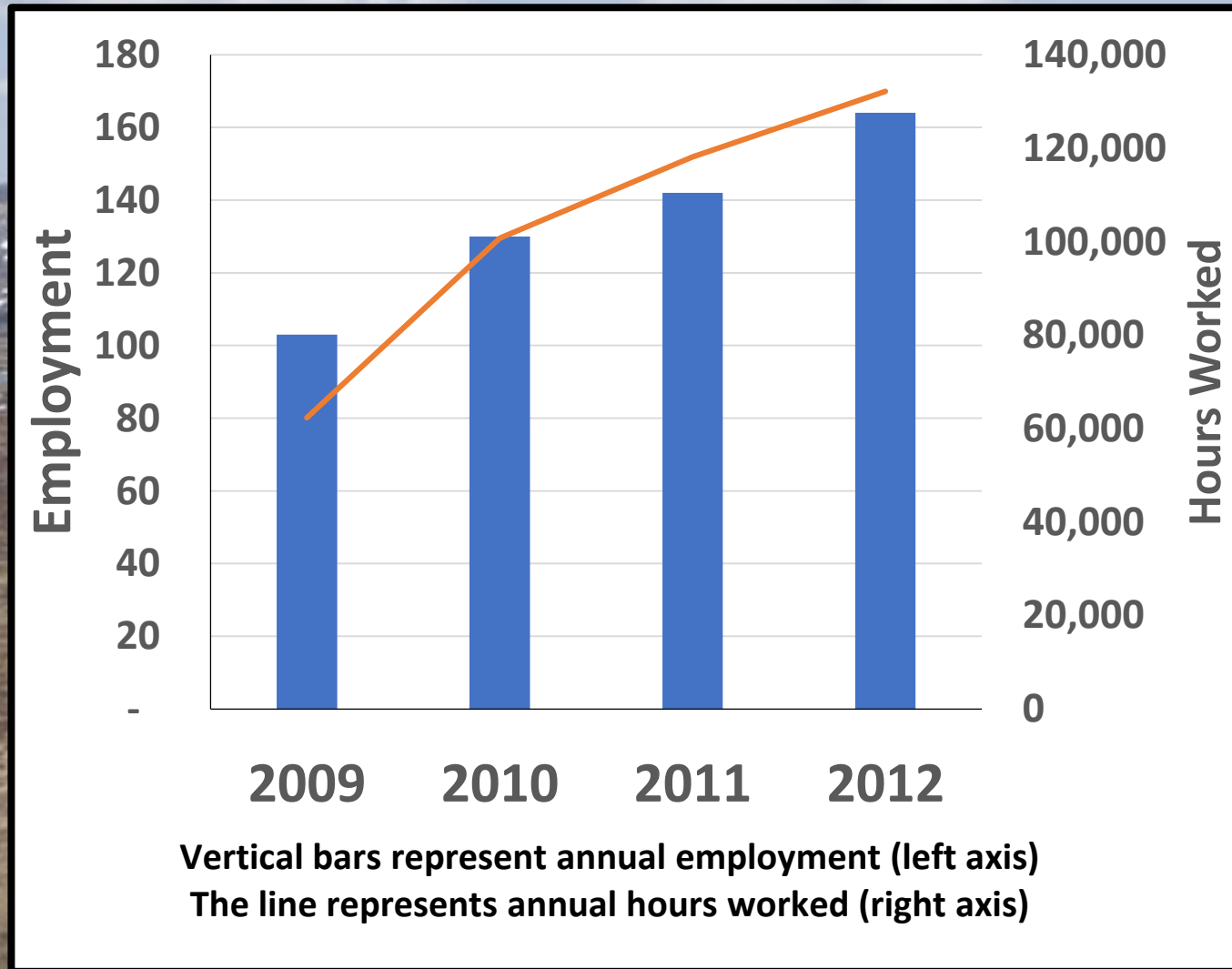
Average Annual Income and Employment, by Bristol Bay Community Region, 2009-2012



Source: PLP exploration-site database and authors' calculations

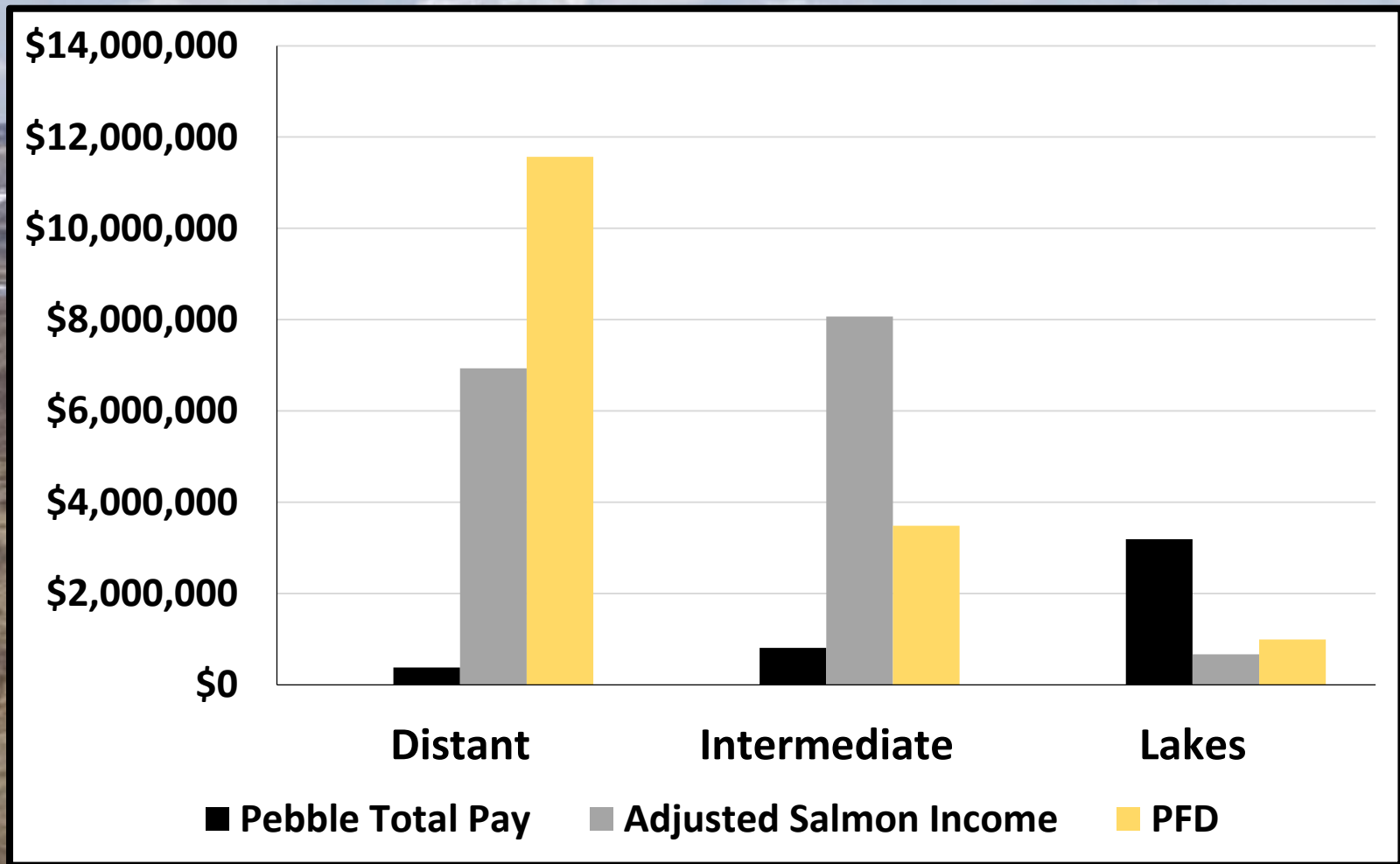
Annual Changes: Employment & Hours Worked

Workers from Bristol Bay, 2009-2012



Regional Comparison: Income from Commercial Salmon Fishing; PFD; & Pebble Exploration

2009-2012



The Aftermath



Lessons



1. Strong Local & Alaskan Hire
2. Employment and Income Drop Sharply with distance from the project.
3. A large employment and income effect on the Lakes Region.
4. Benefits increased significantly over the 4 year period