Calculating Zones of Underemployment and Other Measures Used in Alaska Employment Preference Determinations

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Senate Labor and Commerce Committee

February 27, 2020

 R&A was asked to provide details on how zones of underemployment are calculated

 R&A's role is limited to running a set series of calculations every other fiscal year

 The commissioner uses the calculations to determine zones of underemployment and which of their occupations qualify for resident hire preference

Statutes and Regulations

- AS 36.10.150 Determination of zone of underemployment
- 8 AAC 30.064 Hiring preference for residents of zone of underemployment
- 8 AAC 30.068 Determination that lack of employment opportunities has substantially contributed to serious social or economic problems
- 8 AAC 30.069 Determination of peculiar source of unemployment

Two Main Calculations

 Zone of underemployment – calculated by comparing seasonally adjusted unemployment rates for Alaska and the U.S.

 Occupations within the zone that qualify for resident hire preference – calculated by combining several data sets and applying a series of formulas

Zone of Underemployment

 Alaska and U.S. average seasonally adjusted unemployment rates for the most recent 12-month period available

 Rates compared to see whether Alaska's rate was higher or lower than the nation's over that time

 If Alaska's rate was 10 percent higher, commissioner generally deems the entire state a zone of underemployment

Calculation Example

 For the 2019 determinations, rates were 6.8 percent for Alaska and 3.8 percent for the U.S.

Alaska's rate was about 79 percent higher: well above the
 10 percent threshold for zone of underemployment

• 6.8 - 3.8 = 3.0

• (3.0 / 3.8) * 100 = 78.9% above U.S. rate

Occupations Evaluated for Resident Hire Preference

1.Boilermakers	9. Foremen and Supervisors	17.Plumbers and Pipefitters
2.Bricklayers	10.Insulation Workers	18.Roofers
3.Carpenters	11.lronworkers	19.Sheet Metal Workers
4.Cement Masons	12.Laborers	20.Surveyors
5.Culinary Workers	13.Mechanics	21.Truck Drivers
6.Electricians	14.Millwrights	22.Tug Boat Workers
7. Engineers and Architects	15.Painters	23.Welders

For an occupation to be eligible for resident hire employment preference, <u>ALL</u> of these criteria must be met:

- Nonresident percentage in that occupation is over 10% (column 3, next slide)
- Percent of total residents in that occupation who are unemployed is over 10% (column 5)
- Percent of unemployed residents with experience in that occupation relative to its total workers is over 10% (column 6)

Calculation Example

To qualify, columns 3, 5, and 6 must all be 10% or more

Table 1

Employment Preference Determinations Zone of Underemployment

Prepared June 2019, Third Quarter 2018 Labor Supply and Demand Data

	1	2	3	4	5	6	
Occupation	Resident Workers	Nonresident Workers	Percent Nonresident	Unemployed Residents Available for Work	Percent Unemployed Residents	Percent of Available Unemployed Residents to Total Workers	Qualifies for Hiring Preference?
			Col2/ (Col1+Col2)		Col4/ (Col1+Col4)	Col4/ (Col1+Col2)	
Carpenters	2,628	453	14.7	905	25.6	29.4	Yes
Engineers and Architects	3,121	555	15.1	290	8.5	7.9	No
							0

Data Sources Used in Occupational Calculations

- Wage records used to calculate workers by occupation
- Permanent Fund Dividend applications used to calculate Alaska residency
- Claims for unemployment insurance used to determine number of unemployed workers available for work
- Active resumes and work history in ALEXsys Used to identify workers looking for work in particular occupations

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