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#### Valdez-Cordova Census Area Dashboard

**Population:** The Alaska Department of Labor and Workforce Development's current (2012) population estimate for the Valdez-Cordova Census Area is 9,953–a decrease of 2% from 2000.

**Housing Units:** There are currently 6,031 housing units in the Valdez-Cordova Census Area. Of these, 3,793 are occupied, 312 are for sale or rent, and the remaining 1,926 are seasonal or otherwise vacant units (Profile Figure C6).

**Energy:** The average home in the Valdez-Cordova Census Area is 1,855 square feet and uses 140,000 BTUs of energy per square foot annually, 2% more than the statewide average of 137,000 BTUs per square foot per year.

**Energy Costs:** Using AKWarm estimates, average annual energy cost for homes in the Valdez-Cordova Census Area is \$8,530, which is approximately 3.1 times more than the cost in Anchorage, and 4 times more than the national average (Profile Figure C13).

**Energy Programs:** Approximately 14% of occupied housing in the Valdez-Cordova Census Area has completed either the Home Energy Rebate, Weatherization, or BEES programs since 2008, compared to 21% statewide (Profile Figure C12).

**Housing Quality:** Within current housing stock, newer homes have better energy performance. On average, homes built in the 1940s are currently rated at 1-star-plus, compared to a current average rating of 4-stars for houses built after 2000.

Air-tightness: Within current housing stock, newer homes are tighter. On average, homes built in the last decade very nearly meet the 2012 BEES standard of 4 air-changes per hour at 50 pascals (ACH50). In contrast, homes built in the 1950s are 3 times leakier than those built since 2000 (Profile Figure C7).

**Ventilation:** An estimated 1,868 occupied housing units (or 49%) in the Valdez-Cordova Census Area are relatively air-tight and lack a continuous ventilation system. These houses are at higher risk of moisture and indoor air quality-related issues (Profile Figures C9-C10).

**Overcrowding:** 6% of occupied units are estimated to be either overcrowded (4%) or severely overcrowded (2%). This is roughly 2 times the national average, and makes the Valdez-Cordova Census Area the 15th most overcrowded census area in the state.

**Affordability:** On average, approximately 20% of households in the Valdez-Cordova Census Area spend more than 30% of total income on housing costs, which include rent, utilities, and energy costs. Based on average AKWarm estimates, annual energy costs constitute approximately 14% of census median area income for occupied housing.



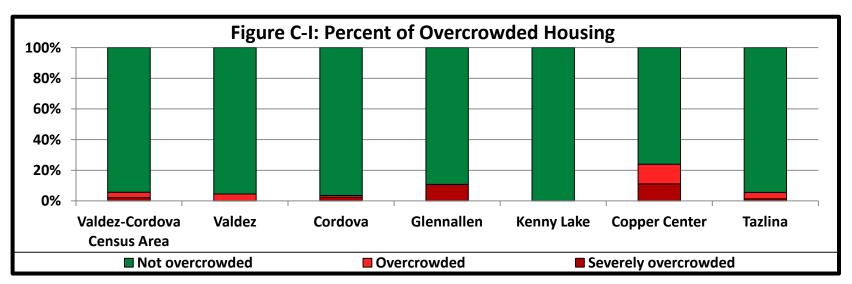
#### Valdez-Cordova Census Area Summary

#### Community

The Valdez-Cordova census area sits in the eastern corner of mainland Alaska, at the junction of Southcentral Alaska, Canada, and the Southeast panhandle. Its northern communities are in the Ahtna Native Corporation ANCSA region and the southern, coastal part of the census area lies in the Chugach Native Corporation ANCSA region. The average home size in the census area is 1,855 square feet. The smallest average home size of 1,521 square feet is found in Glennallen and the largest average home size is found in the community of Copper Center, where homes are an average of 2,063 square feet.

#### **Overcrowding**

Overcrowding rates vary widely in communities in the Valdez-Cordova census area, from an estimated zero homes in Kenny Lake to an estimated 100% of homes in Nelchina having more than one person per room. The six most populous communities have overcrowding rates ranging from the estimated zero overcrowded homes in Kenny Lake to 24% of homes in Copper Center classified as overcrowded (Figure C-I). Overall, the census area has an overcrowding rate of 6%, roughly twice the national average.



Approximately 5% of housing in Valdez-Cordova census area is available for sale or rent. Rates for available housing have a wide span among communities: an estimated no housing is available for sale or rent in Chistochina and while 54% of available housing is found in Nelchina.



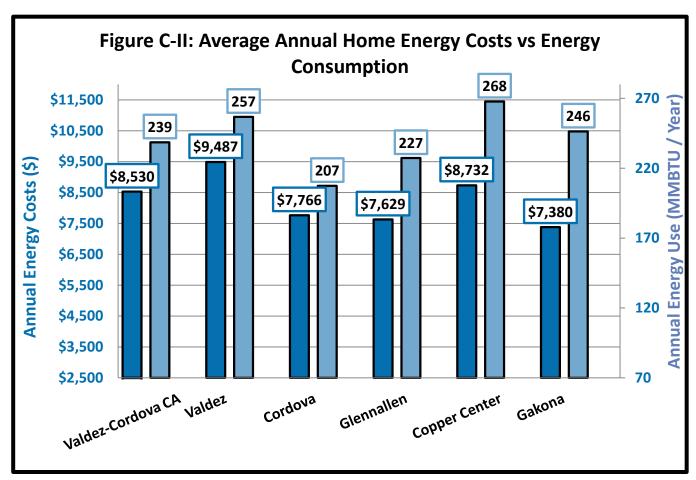
Approximately one third of housing units in the census area (32%) is considered vacant because it is used for seasonal, recreational, or "other" purposes.

#### **Energy**

The average annual energy use in the census area is 239 million BTUs per housing unit, the fourth highest of any census area in the state. This results in an average annual energy cost of \$8,530 for the census area as a whole (Figure C-II). The lowest average energy costs are found in Gakona, where households pay an average of \$7,380 per year. Glennallen has the next lowest average annual energy cost at \$7,629 and has the

lowest average home heating index in the census area at 8.2 BTUs/ ft²/HDD. The highest average energy cost, and the highest average home heating index is found in the community of Valdez, where households pay on average \$9,487 in energy costs each year for houses with an average heating index of 10.5 BTUs/ft²/HDD.

Approximately 15% of housing units in the Valdez-Cordova census area as a whole have completed either the Weatherization, Home Energy Rebate, or BEES programs since 2003. The greatest community participation has occurred in

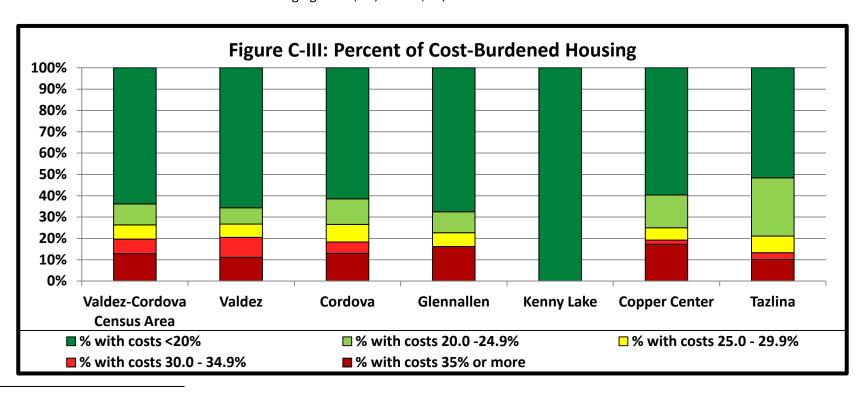




Tatitlek, where 33% of housing units have completed an energy program, and the lowest participation is found in Whittier, where it is estimated that no homes have completed one of the programs. The six most populous communites have participation rates ranging from 2% to 31%.

#### **Affordability**

According to ACS estimates<sup>1</sup>, approximately 1 in 5 households in the census area are considered cost-burdened, though percentages widely by community. The six most populous communities have between zero and 21% of households spending more than 30% of total income on housing costs (Figure C-III). The estimated percentage of zero cost-burdened households found in Kenny Lake is the lowest in the census area. In the least affordable community, Paxson, an estimated 100% of households spend over 30% of their income on housing costs. Median household incomes throughout the region vary from a low of \$16,964 in Chitina to a high of \$143,125 in McCarthy. The six most populous communities have median household incomes ranging from \$44,792 to \$79,750.



<sup>&</sup>lt;sup>1</sup> CCHRC's analysis of ACS energy costs indicate that there are systematic underestimations for rural Alaska, which suggests that ACS-based cost burdened housing estimates are low. See Appendix A, "Analysis of American Community Survey Energy Cost Estimates" for more details.



#### Community, Regional, and Statewide Housing Characteristics

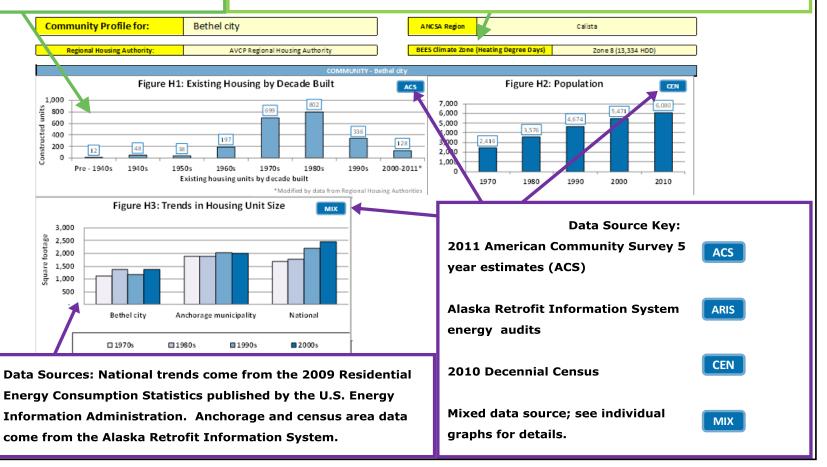
This census area summary only includes the highlights of housing characteristics at the census area level. Detailed data profile with charts and tables for both the census area and for each of the communities within it follow. The 2014 Alaska Housing Assessment provides a significant amount of data and analysis at statewide, ANCSA region, census area, and community levels. This assessment provides a statewide analysis of housing characteristics, how they compare to national numbers, and the estimated housing needs. Within the 2014 Alaska Housing Assessment, written summaries are available for each individual ANCSA region and census area, and data profiles are available for each community and census area characterizing the housing stock from the perspective of community, overcrowding, energy and affordability. These different tiers of information and analysis allow researchers, housing authorities, policymakers and others to generate answers to specific questions. For a detailed discussion of estimating housing need and comparison of methods to previous Housing Assessments, see Appendix B, "Statewide Need Assessment" of the 2014 Alaska Housing Assessment.





This graph show the breakdown of *current* housing stock by the decade in which the housing units were built. It does *not* show trends over time.

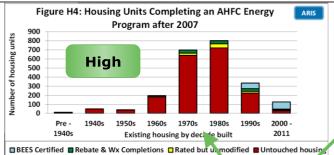
The Alaska Building Energy Efficiency Standard (BEES) was established by AHFC for the State of Alaska to promote the construction of energy efficient buildings. The standards for specific building components are divided into four climate zones, from Zone 6 in Southeast AK to Zone 9 on the North Slope.







Energy program activity within communities with high, medium and low amounts of ARIS data available. (See p.7 of "How to Interpret" for detail on data levels).



**Communities - AHFC Energy Program Activity** 

High Data - Reported by decade built for the housing units.

Medium Data - Reported by percent of total housing units touched.

Low Data - Have few or no post-2008 Weatherization/Rebate completions or BEES certifications in the ARIS database.

American Community Survey (ACS) Data:

# House-

20,816

15,459

ACS

Estimated Total Community Space Heating Fuel Use by Ty

Complete Plumbing: Includes hot & cold running water, a flush toilet, and a bathtub or shower within the home.

Complete Kitchen: Includes a sink with a faucet, a stove/range, and a refrigerator.

% House-

holds

10%

0%

(gallons)

(ccf)

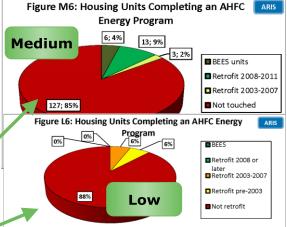
(kWh)

(cords)

(gallons)

(tons)

	K
Avg Annual Energy Cost with PCE	\$5,265
Avg Annual Energy Cost without PCE	\$6,643
Estimated Energy Prices as	of January 2013
#1 Fuel oil cost (\$ / gallon)	\$5.16
Electricity with PCE (\$/kWh)	\$0.03
Electricity cost without PCE (\$/kWh)	\$0.27



- PCE = Power Cost Equalization
- Average Annual Energy Cost with PCE:
   The cost to the household after it has been lowered by the PCE subsidy.
- Without PCE: The actual energy cost, including the amount paid by the State for PCE.

Weatherization Prog	
(funding increase	ed in 200′
Date Range	Units
2008-2011	17
2003-2007	-
1990-2002	10
	•
Housing Stock Estimat	:es
All Housing	

LOccupied Housing

using

incriousing for Sale or Rent

CEN

Units weatherized
before 2008 are
eligible to participate
in the program again.
(Data source: Alaska
Housing Finance
Corporation).

Houses Lacking Complete

Plumbing or Kitchen Facilities

Lack complete plumbing

Lack complete kitchen

Fuel Oil

Nat Gas

Electricity

Wood

Propane

Coal

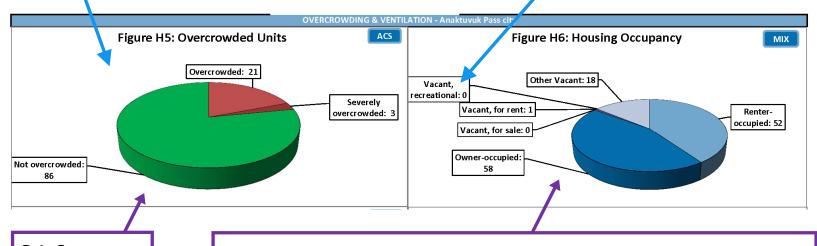




Overcrowded: Housing units with more than 1 person per room Severely Overcrowded: Housing units with more than 1.5 people per room.

"Rooms" include bedrooms, living rooms, dining rooms, kitchens, and other finished, separated spaces, but not including bathrooms, porches, balconies, foyers, halls, or unfinished basements.

Recreational: For seasonal, recreational, or occasional use.



Data Source:
2011 American
Community
Survey 5-year
estimates

Data Sources: The number of owner-occupied, renter-occupied, and total vacant units are taken from the 2011 ACS 5-year estimates. Data for vacancy type, only available from the decennial Census, were derived by taking the decennial census ratios by vacancy type and applying them to the total number of vacant units.





Heat Recovery: Continuous mechanical ventilation with heat recovery operated with automatic controls.

Continuous: Mechanical ventilation without heat recovery operated with automatic controls.

Non-Continuous ventilation: Includes homes with range and/or bath fans not operated using automatic controls.

ACH50: The results of a blower door test to measure building air leakage. Smaller numbers indicate tighter buildings. Tighter buildings lose less heated air to the outside and thus use less energy for space heating.

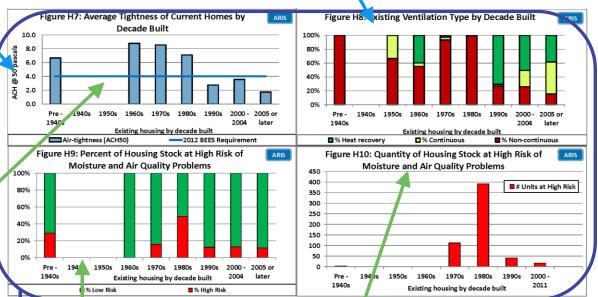
The 2012 Building Energy
Efficiency Standard
(BEES) for air-tightness is
for reference only, as it
was implemented after
the majority of homes in
Alaska were built.

Data Source:
Alaska Retrofit
Information
System

Decades with no bar lack sufficient data for reporting. They should not be considered zero

quantities.

High Risk of Moisture and Air Quality Problems: Note that moisture or poor indoor air quality have not been physically measured; these houses are considered "at-risk" because they are relatively air tight (less than 0.5 estimated natural air changes per hour) and do not have a continuous ventilation system.





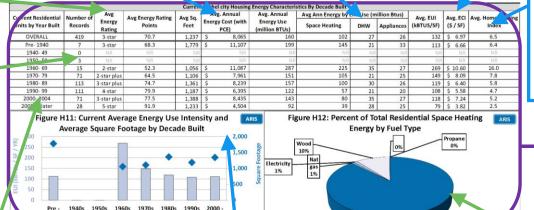


Rating stars and points are based on AHFC's AkWarm energy rating system. Average annual energy cost:
Includes all end uses. Costs
are estimated using January
2013 energy prices, and
include reductions from the
PCE program.

Space Heating, DHW, Appliances:
Estimated annual energy for the end
uses of: Space Heating, Domestic Hot
Water, and all other energy including
lights, appliances, and electronics.

ECI: Energy Cost Index, the amount of money spent on energy per year divided by square footage.

The number of AkWarm records from each decade built that were used to calculate the averages reported.



Home Heating Index:
The energy used per square foot per year divided by the area's

heating degree days.

Data Source:
AkWarm ratings from
AHFC's Alaska
Retrofit Information
System (ARIS).

Average energy characteristics of the *current* housing stock by decade built (high data communities) or by pre-/post-retrofit and new construction categories (medium data communities).

Energy Use Intensity
(EUI) is the total
amount of energy
used per year per
square foot of floor
space.

Existing housing by decade built

This is the community's breakdown by fuel type of the energy (BTUs) used for home space heating. It is not the percent of housing using a given fuel in primary space heating devices. Because wood burning devices are inefficient, they may use a significant portion of total energy even if no homes in a community use wood as a primary fuel.





Average building envelope characteristics of the *current* housing stock by decade built (high data communities) or by pre-/post-retrofit and new construction categories (medium data communities).

ACH50: The results of a blower door test to measure building leakiness. Smaller numbers indicate tighter buildings.

R-value: the capacity to resist heat flow. The higher the value, the better the insulator.

U-value: the conductance to heat flow. The lower the value, the better the insulator.

Data Sources: AkWarm ratings from AHFC's Alaska Retrofit Information System (ARIS).

				Current Bethel	city Housing Er ve	lope Characteristic	s By Decade Built				
Current Residential Units by Year Built	Number of	ACH 50	Ceiling R	Above Grade Wall R	Below Graue Wall R	Above Grade Floor R	On Grade Floor R	Below Grade Floor R	Door U	Garage Door U	Window U
OVERALL	419	6.4	23	17	7	30	NR	2	0.36	0.27	0.54
Pre- 1940	7	6.7	26	21	NR	30	NR	NR	0.30	NR	0.40
1940- 49	0	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1950- 59	3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1960- 69	15	8.8	16	14	NR	21	NR	NR	0.44	NR	1.65
1970- 79	71	8.5	20	15	NR	29	NR	NR	0.39	NR	0.57
1980- 89	113	7.1	29	17	NR	32	NR	NR	0.30	NR	0.44
1990- 99	111	2.7	56	31	NR	50	NR	NR	0.19	0.12	0.29
2000- 2004	71	3.6	13	21	NR	36	NR	NR	0.27	0.23	0.40
2005 or later	28	1.7	41	22	NR	41	NR	NR	0.20	NR	0.31
BEES 2009 - Clima	te Zone 8	7.0	38	30	15	38	15	15	0.22	0.22	0.22
BEES 2012 Clima	te Zone 8	4.0	48	30	15	38	15	15	0.22	0.22	0.22

The number of
AkWarm records from
each decade built that
were used to calculate
the averages
reported.

"NR" is used when there are insufficient records to protect the confidentiality of the occupants.

#### Color Coding--

*Green*: the average value meets or exceeds the 2012 BEES requirement.

Yellow: value is 75-99% of the 2012 BEES requirement.

Red: value is less than 75% of the 2012 BEES requirement.



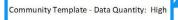


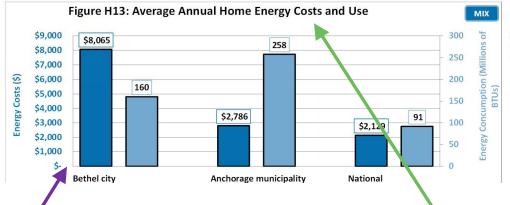
Communities are categorized in this report by the amount of ARIS data available, and reporting is more extensive for locations with more data. Data quantities are defined as--

High: ARIS records exist for housing units built in 7 of the 9 date ranges use in this report, and there are either more than 50 records or records totaling 20 percent or more of the total number of housing units.

Medium: There are three or more ARIS records. Data are presented for an "overall" group if there are "As Is" ARIS records totaling at least 10% of the community's occupied housing units.

Low: There are fewer than three ARIS records for the location.





Housing Information	Avg Household Size (# of people)
All-occupied	3.4
Owner-occupied	3.7
renter-occupied	3.1

Data Source:
2007-2011 American
Community Survey

Data Sources: Census Area and Anchorage data come from AFHC's Alaska Retrofit Information System.

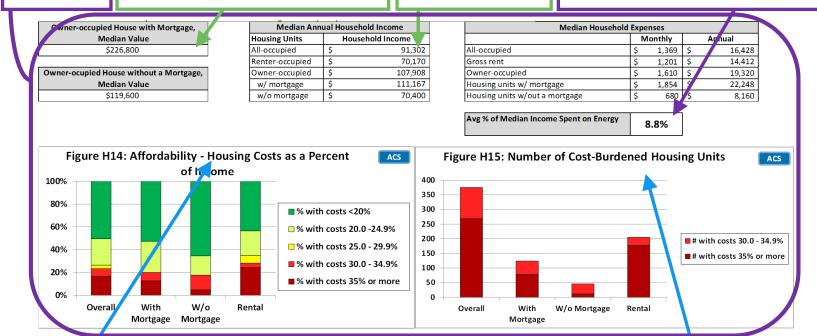
National figures come from the U.S. Energy Information Administration's 2009 Residential Energy Consumption Statistics (RECS) for "cold"/"very cold" climate regions. Average annual home energy costs and usage estimates are for all end uses, including space heating, domestic hot water, lighting and appliances. Costs are estimated using January 2013 energy prices and include reductions from the PCE program.





Data Source: 2007-2011 American Community Survey. "Value" is determined by responses to the ACS question: "How much do you think this house and lot, apartment, or mobile home (and lot, if owned) would sell for if it were for sale?" Household income includes all earnings from salaries, stocks, gifts, public assistance, etc.

Data Source: Median income comes from 2007-2011 ACS estimates; energy costs come from AHFC's Alaska Retrofit Information System (ARIS).



Rental housing costs: Contract rent, fuels, utilities.

Owner housing costs: Mortgage payments, property taxes, insurance, fuels, utilities, condo fees.

Households are considered "cost burdened" if they spend 30% or more of total household income on housing costs. Households spending more than this amount on housing costs may have difficulty affording basic necessities such as food, transportation, and medical care.



**Census Area Profile for:** Valdez-Cordova Census Area **ANCSA Region:** Valdez-Cordova Census Area

**Regional Housing Authority:** 

North Pacific Rim Housing Authority

**BEES Climate Zone (Heating Degree Day Range)** Zone 7 (9,000 - 12,600 HDD)

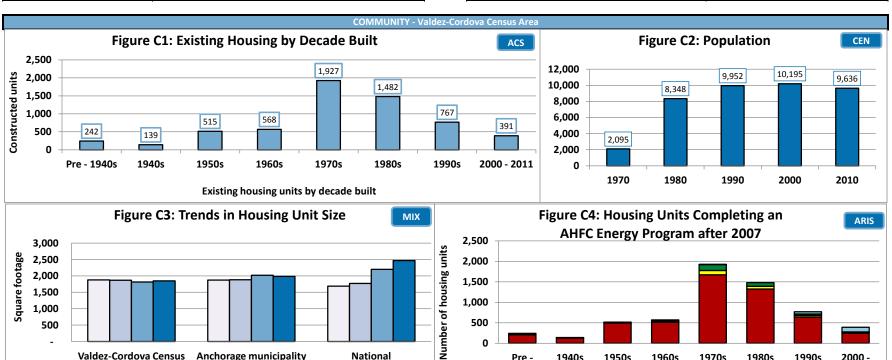
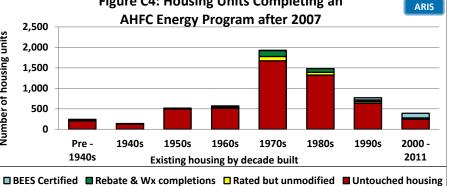


		Figure C3: Trends in Housing Unit Size		MIX	
	3,000 2,500 1,500 1,000 500	000			
		Valdez-Cordova Census Anchorage municipality Area	National		
		□ 1970s □ 1980s □ 1990s	■ 2000s		
Ī	Houses	s Lacking Complete Households	Avg Annual En	ergy Co	st



Houses Lacking Complete	Households			
Plumbing or Kitchen Facilities	Number	Percent		
Lack complete plumbing	338	9%		
Lack complete kitchen	224	6%		

Estimated Total Annual Community Space Heating Fuel Use					
Fuel Oil	4,130,858	(gallons)			
Natural Gas	-	(ccf)			
Electricity	3,050,015	(kWh)			
Wood	6,065	(cords)			
Propane	202,006	(gallons)			
Coal	66	(tons)			

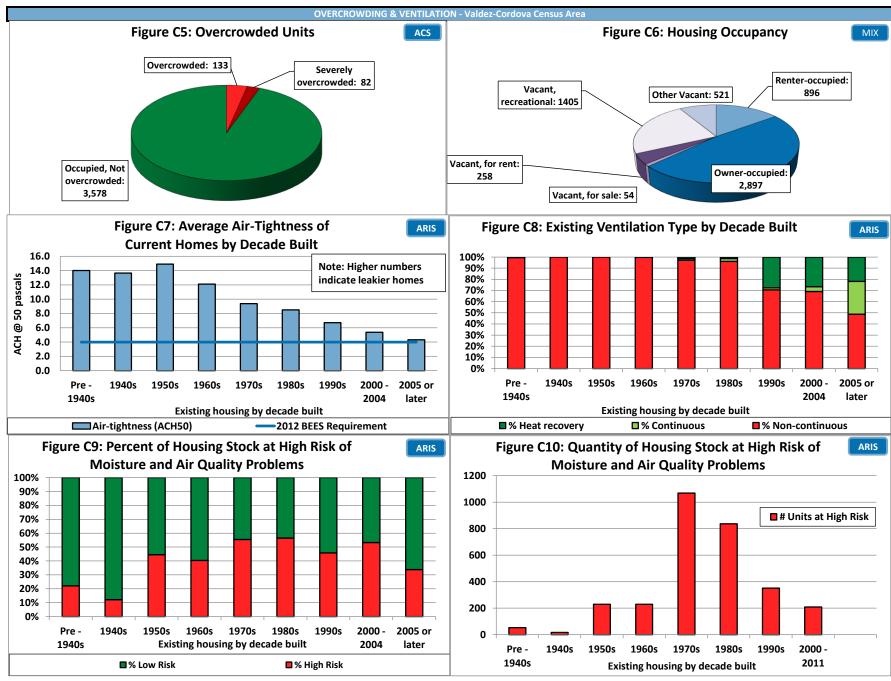
Avg Annual Energy Cost with PCE	\$8,530
Avg Annual Energy Cost without PCE	\$8,835

Housing Need Indicators	Number of Units	% Occupied Housing
Overcrowded	215	6%
Housing cost burdened	704	19%
1 Star Homes	598	16%

Weatherization Retrofits (funding			
increased 2008)			
Date Range	Units		
2008 -2011	128		
2003-2007	40		
1990-2002	332		

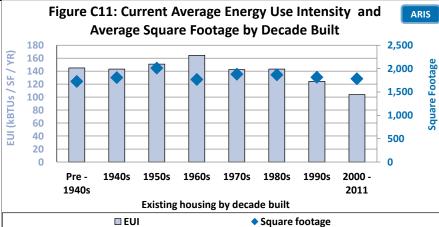
Housing Stock Estimates	Number of Units
All Housing	6,031
All Occupied Housing	3,793
All Vacant housing	2,238
Vacant Housing for Sale or Rent	312

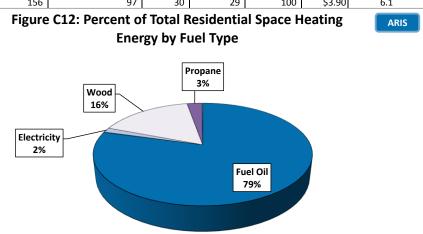






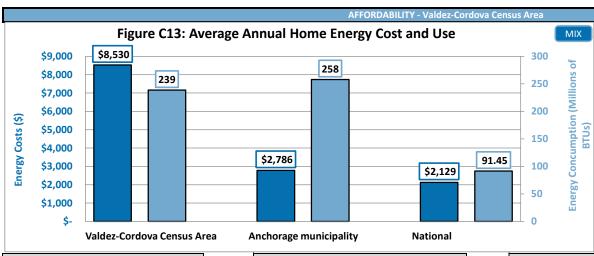
	ENERGY - Valdez-Cordova Census Area											
			Curren	t Valdez-C	ordova Census Area	Housing Energy Cha	racteristics By Decade	Built				
Current Residential	# of	Avg Energy	Avg Energy Rating	Avg Sq.	Avg. Annual	Avg. Annual	Avg Ann Energy by	End Use (m	illion Btus)	Avg. EUI	Avg. ECI	Avg. Home
Units by Year Built	AkWarm Records	Rating Stars	Points	Feet	Energy Cost (with PCE)	Energy Use (million BTUs)	Space Heating	DHW	Appliances	(kBTUS /SF)	(\$ / SF)	Heating Index
OVERALL	1,037	2-star plus	65.0	1,855	\$8,530	239	175	30	31	140	\$5.01	10.2
Pre- 1940	52	2-star	52.5	1,725	\$8,862	241	182	29	30	145	\$5.37	12.3
1940- 49	14	1-star plus	43.1	1,807	\$8,711	235	182	24	28	143	\$5.22	12.5
1950- 59	25	2-star	53.4	2,010	\$9,355	251	189	30	32	151	\$5.69	11.7
1960- 69	74	2-star	59.0	1,766	\$9,425	267	208	29	30	164	\$5.70	12.8
1970- 79	353	2-star plus	63.2	1,880	\$9,038	253	190	31	32	142	\$5.19	10.6
1980- 89	213	3-star	68.2	1,866	\$8,439	244	184	30	31	143	\$4.92	10.0
1990- 99	153	3-star plus	75.5	1,814	\$7,060	197	128	27	28	124	\$4.23	8.0
2000- 2004	86	4-star	79.5	1,847	\$6,808	174	112	30	32	106	\$4.28	6.2
2005 or later	67	4-star	82.5	1,699	\$6,130	156	97	30	29	100	\$3.90	6.1





	Current Valdez-Cordova Census Area Housing Envelope Characteristics By Decade Built										
Current Residential Units by Year Built	# of AkWarm Records	ACH 50	Ceiling R	Above Grade Wall R	Below Grade Wall R	Above Grade Floor R	On Grade Floor R	Below Grade Floor R	Door U	Garage Door U	Window U
OVERALL	1,037	9.3	21	12	4	18	3	3	0.36	0.29	0.54
Pre- 1940	52	14.0	12	9	3	13	3	3	0.41	0.35	0.59
1940- 49	14	13.6	10	9	3	10	NR	NR	0.30	NR	0.56
1950- 59	25	14.9	16	10	3	16	2	3	0.47	NR	0.57
1960- 69	74	12.1	18	10	3	19	3	3	0.41	0.36	0.58
1970- 79	353	9.4	22	11	5	18	3	3	0.38	0.31	0.58
1980- 89	213	8.5	25	14	4	21	3	3	0.33	0.34	0.51
1990- 99	153	6.7	25	16	7	19	3	3	0.28	0.20	0.42
2000- 2004	86	5.4	32	16	5	26	4	3	0.30	0.20	0.39
2005 or later	67	4.3	39	15	8	31	4	3	0.27	0.16	0.36
BEES 2009 - Climat	e Zone 7	7.0	38	21	15	38	15	15	0.33	0.33	0.33
BEES 2012 - Climat	e Zone 7	4.0	43	25	15	38	15	15	0.30	0.30	0.30





Housing Information	Avg Household Size (# of people)
All-occupied	2.4
Owner-occupied	2.6
Renter-occupied	2.0

Median Value of Owner-occupied House with

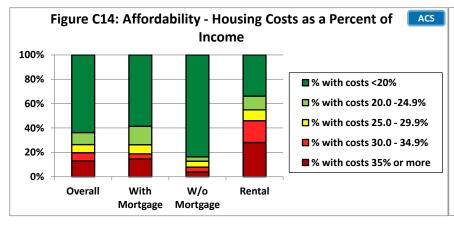
Mortgage
\$178,600

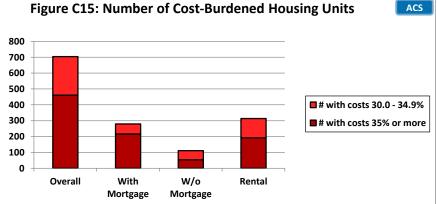
Median Value of Owner-occupied House without a Mortgage \$121,100

Median Annual Household Income					
Housing Units	Household Income				
All-occupied	\$	62,238			
Renter-occupied	\$	37,181			
Owner-occupied	\$	80,313			
w/ mortgage	\$	100,840			
w/o mortgage	\$	53,571			

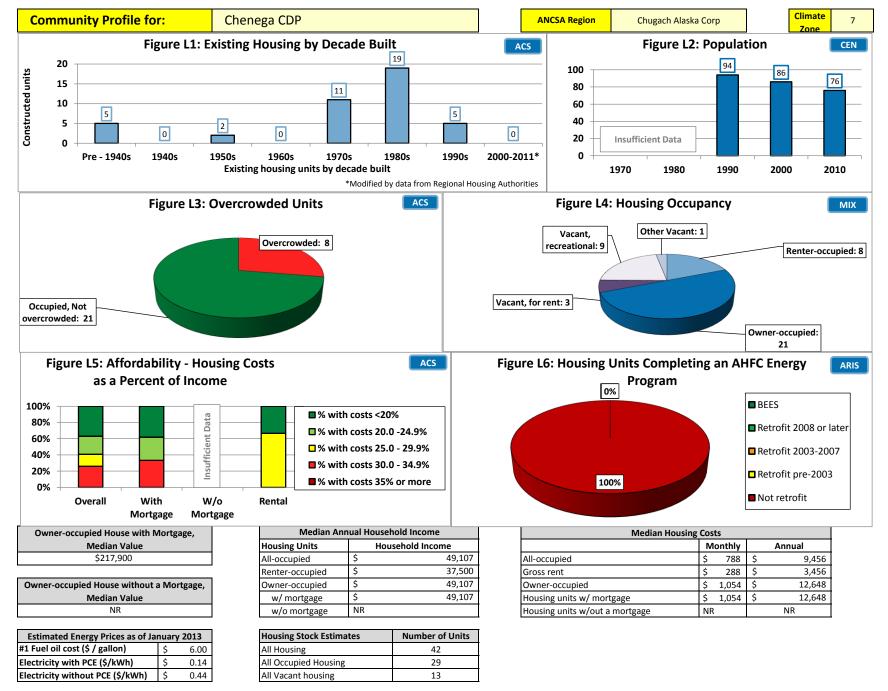
Median Housing Costs						
	1	Monthly		Annual		
All-occupied	\$	800	\$	9,600		
Gross rent	\$	809	\$	9,708		
Owner-occupied	\$	792	\$	9,504		
Housing units w/ mortgage	\$	1,438	\$	17,256		
Housing units w/out a mortgage	\$	441	\$	5,292		

Avg % of Median Income Spent on Energy 13.7%

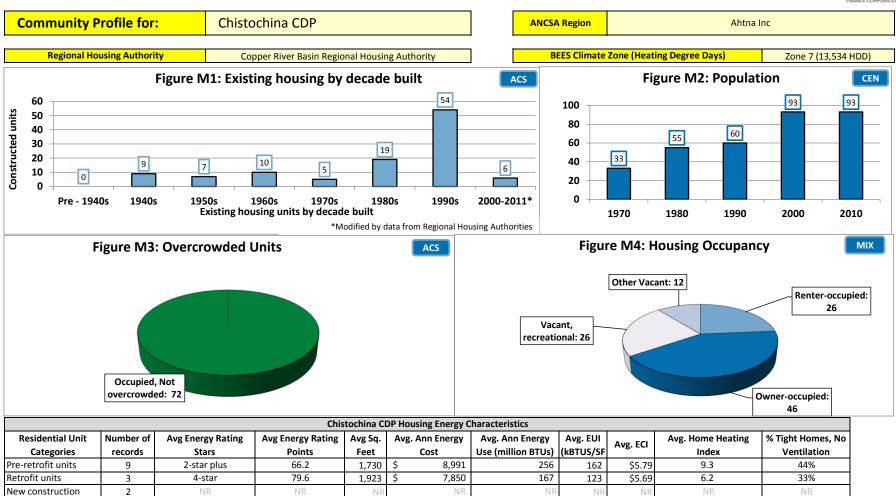










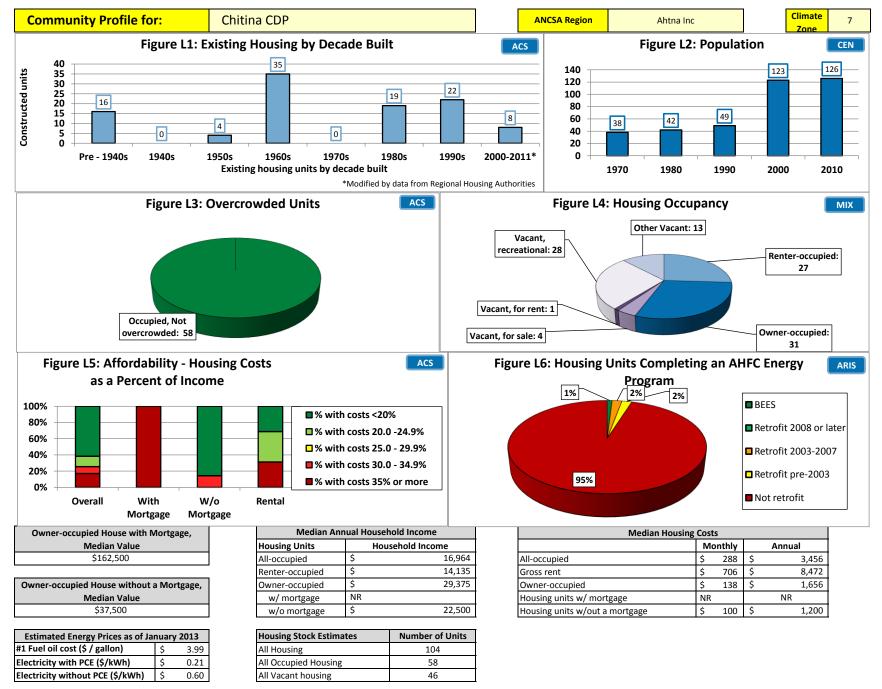


Chistochina CDP Housing Envelope Characteristics											
Residential Unit	Number of	ACH 50	Cailing B	Above Grade Wall R	Below Grade Wall	Above Grade Floor	On Grade Floor R	oor R Below Grade Floor R	Door U	Garage	Window
Categories	Records	ACITO	Cennig it	Above Grade Wall K	R	R	On drade Hoor K			Door U	U
Pre-retrofit units	9	10.9	23	13	7	23	2	3	0.42	NR	0.50
Retrofit units	3	5.1	32	14	6	NR	NR	NR	0.54	NR	0.48
New construction	2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
BEES 200	)9	7.0	38	21	15	38	15	15	0.33	0.33	0.33
BEES 201	.2	4.0	43	25	15	38	15	15	0.30	0.30	0.30











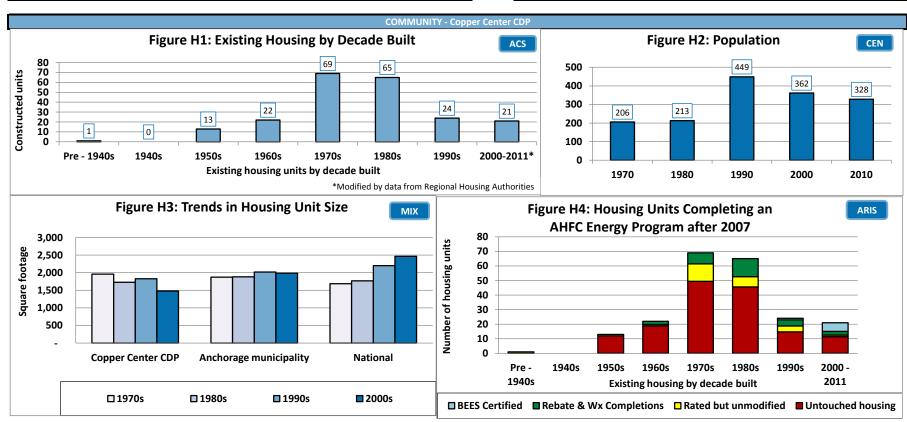
Community Profile for: Copper Center CDP

ANCSA Region Ahtna Inc

Regional Housing Authority:

Copper River Basin Regional Housing Authority

BEES Climate Zone (Heating Degree Days) Zone 7 (14,101 HDD)



Houses Lacking Complete	Households			
Plumbing or Kitchen Facilities	Number	Percent		
Lack complete plumbing	14	12%		
Lack complete kitchen	14	12%		

Estimated Total Annual Community Space Heating Fuel Use						
Fuel Oil	120,056	(gallons)				
Nat Gas	-	(ccf)				
Electricity	95,258	(kWh)				
Wood	466	(cords)				
Propane	1,350	(gallons)				
Coal	-	(tons)				

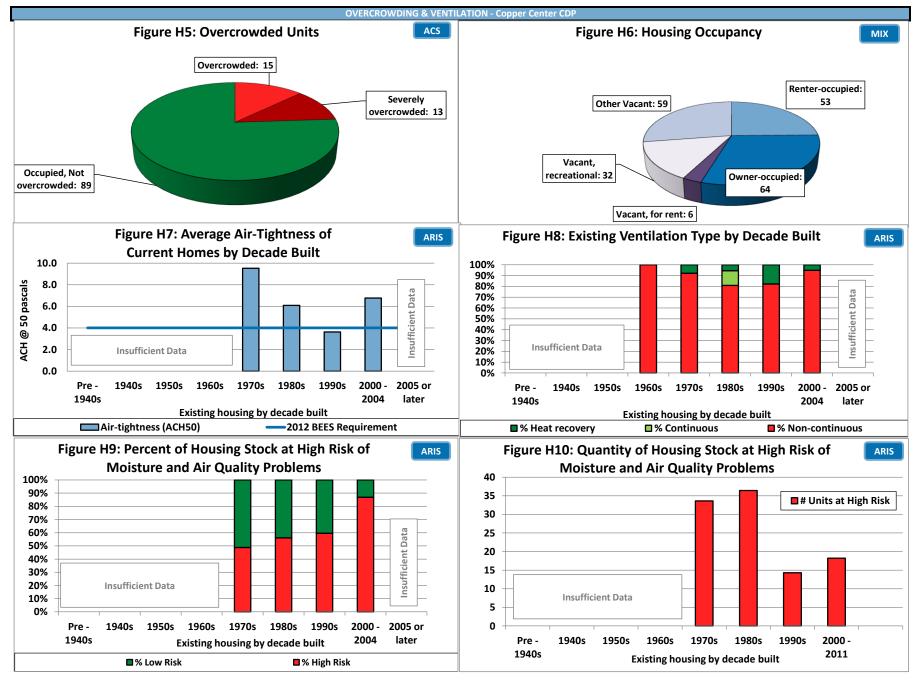
Avg Annual Energy Cost with PCE	NO PCE
Avg Annual Energy Cost without PCE	\$8,732

Estimated Energy Prices as of January 2013					
#1 Fuel oil cost (\$ / gallon)	\$4.06				
Electricity with PCE (\$/kWh)	No PCE				
Electricity cost without PCE (\$/kWh)	\$0.30				

Weatherization Program Retrofits				
(funding increased in 2008)				
Date Range	Units			
2008-2011	14			
2003-2007	9			
1990-2002	65			

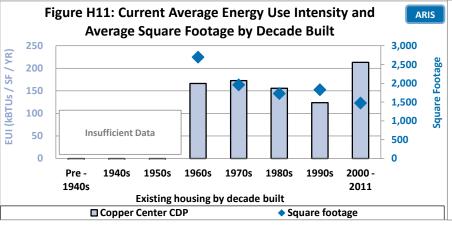
Housing Stock Estimates	Number of Units
All Housing	214
All Occupied Housing	117
All Vacant housing	97
Vacant Housing for Sale or Rent	6

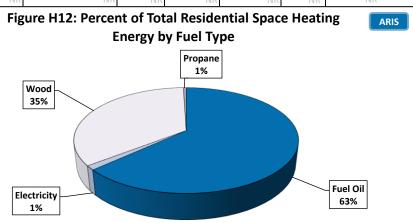






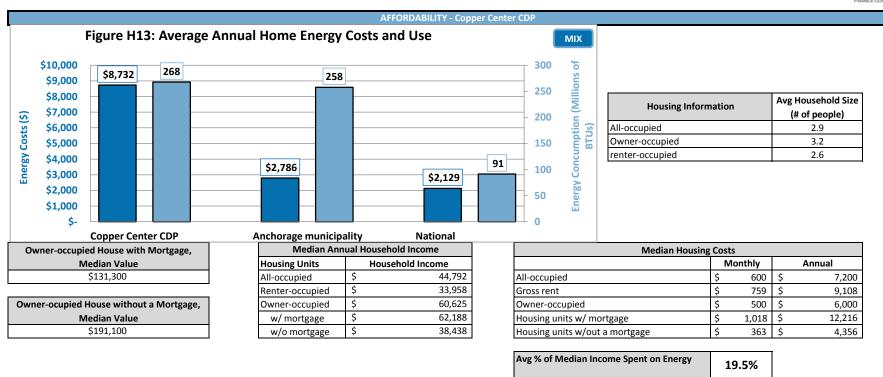
					ENERGY	- Copper Center CD	P					
				Current Co	pper Center CDP Ho	using Energy Charac	teristics By Decade Bu	ilt				
Current Residential	Number of	Avg Energy	Avg Energy Rating	Avg Sq.	Avg. Annual	Avg. Annual	Avg Ann Energy by	End Use (m	illion Btus)	Avg. EUI	Avg. ECI	Avg. Home Heating
Units by Year Built	Records	Rating Stars	Points	Feet	Energy Cost	Energy Use (million BTUs)	Space Heating	DHW	Appliances	(kBTUS/SF)	(\$ / SF)	Index
OVERALL	78	2-star plus	67.5	2,063	\$ 8,732	268	208	26	33	159	\$ 5.08	9.1
Pre- 1940	1	NR	NR	NR	NR	NR:	NR	NR	NR	NR	NR	NR
1940- 49	0	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1950- 59	1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1960- 69	4	2-star	55.1	2,696	NR	341	294	13	34	166	\$ 4.70	10.2
1970- 79	25	2-star plus	61.7	1,958	\$ 9,833	305	248	26	31	173	\$ 5.61	10.1
1980- 89	25	3-star plus	73.0	1,728	\$ 7,449	238	177	27	33	156	\$ 4.72	8.7
1990- 99	12	4-star	78.5	1,830	\$ 7,261	208	144	26	29	124	\$ 4.43	6.5
2000- 2004	6	2-star	55.9	1,475	\$ 7,048	198	153	18	27	239	\$ 7.67	13.8
2005 or later	4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

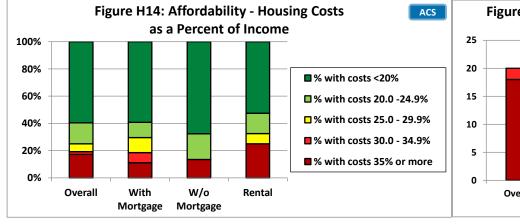


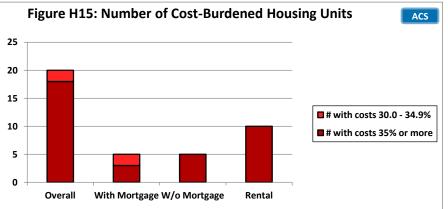


				Current Copper C	enter CDP Housing I	Envelope Characteris	tics By Decade Built				
Current Residential Units by Year Built	Number of Records	ACH 50	Ceiling R	Above Grade Wall R	Below Grade Wall R	Above Grade Floor R	On Grade Floor R	Below Grade Floor R	Door U	Garage Door U	Window U
OVERALL	78	7.0	23	14	8	19	3	3	0.34	0.25	0.52
Pre- 1940	1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1940- 49	0	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1950- 59	1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1960- 69	4	NR	10	11	NR	NR	NR	NR	0.34	NR	0.61
1970- 79	25	9.5	29	11	8	14	3	2	0.33	0.26	0.58
1980- 89	25	6.1	29	18	12	25	3	3	0.33	NR	0.48
1990- 99	12	3.6	37	19	NR	34	3	NR	0.28	NR	0.43
2000- 2004	6	6.8	18	10	NR	NR	NR	NR	0.39	NR	0.48
2005 or later	4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
BEES 2009 - Climat	te Zone 7	7.0	38	21	15	38	15	15	0.33	0.33	0.33
BEES 2012 - Climat	te Zone 7	4.0	43	25	15	38	15	15	0.30	0.30	0.30











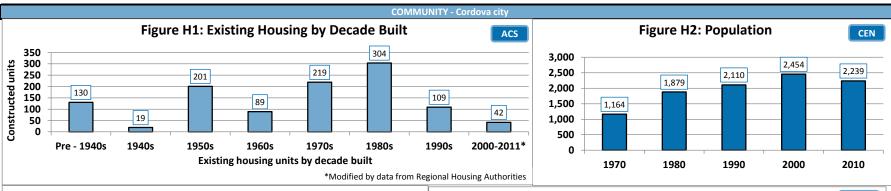
Community Profile for: Cordova city

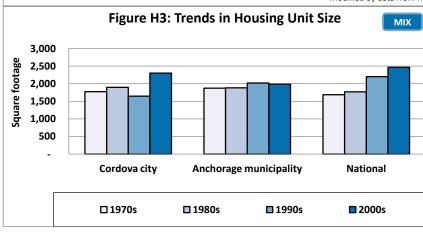
ANCSA Region Chugach Alaska Corp

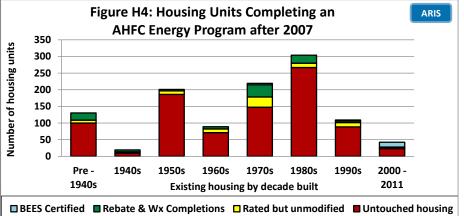
Regional Housing Authority:

North Pacific Rim Housing Authority

BEES Climate Zone (Heating Degree Days) Zone 7 (9,004 HDD)







Houses Lacking Complete	House	holds
Plumbing or Kitchen Facilities	Number	Percent
Lack complete plumbing	9	1%
Lack complete kitchen	0	0%

Estimated Total A	Estimated Total Annual Community Space Heating Fuel Use										
Fuel Oil	897,625	(gallons)									
Nat Gas	-	(ccf)									
Electricity	462,677	(kWh)									
Wood	373	(cords)									
Propane	8,590	(gallons)									
Coal	-	(tons)									

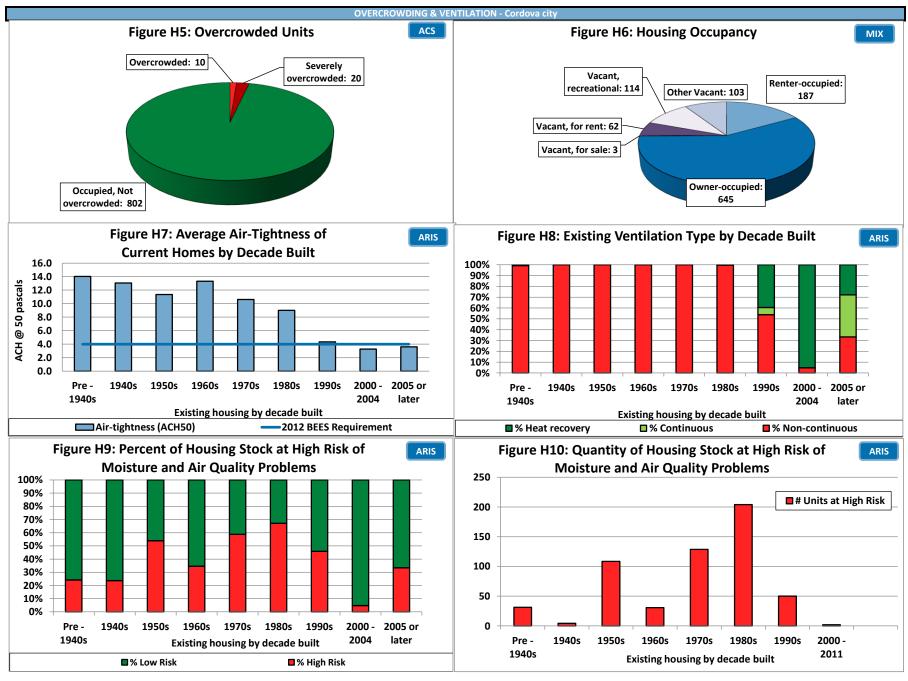
Avg Annual Energy Cost with PCE	\$7,766
Avg Annual Energy Cost without PCE	\$8,412

Estimated Energy Prices as	s of January 2013
#1 Fuel oil cost (\$ / gallon)	\$4.63
Electricity with PCE (\$/kWh)	\$0.16
Electricity cost without PCE (\$/kWh)	\$0.27

Weatherization Program Retrofits								
(funding increased in 2008)								
Date Range Units								
2008-2011	41							
2003-2007	10							
1990-2002	22							

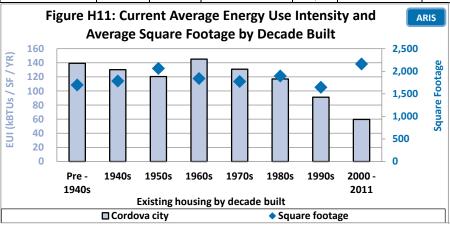
Housing Stock Estimates	Number of Units
All Housing	1113
All Occupied Housing	832
All Vacant housing	281
Vacant Housing for Sale or Rent	65

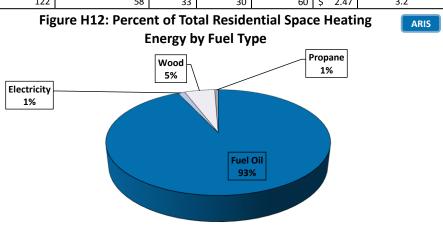






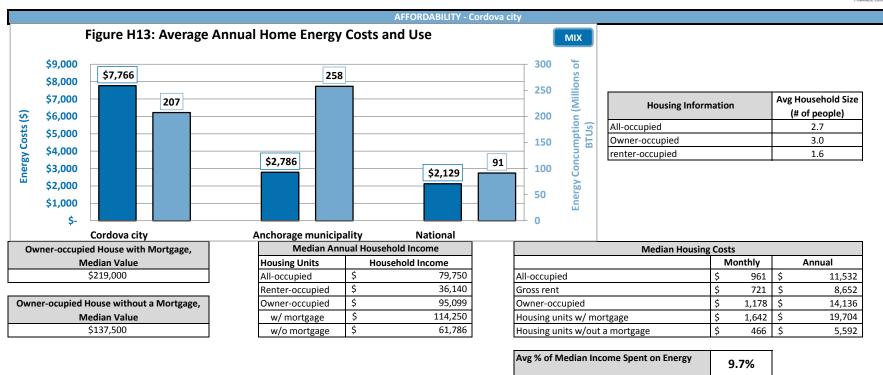
					ENEF	RGY - Cordova city						
				Current	Cordova city Housin	ng Energy Characteri	istics By Decade Built					
Current Residential	Number of	Avg Energy	Avg Energy Rating	Avg Sq.	Avg. Annual	Avg. Annual	Avg Ann Energy by	End Use (m	illion Btus)	Avg. EUI	Avg. ECI	Avg. Home Heating
Units by Year Built	Records	Rating Stars	Points	Feet	Energy Cost (with PCE)	Energy Use (million BTUs)	Space Heating	DHW	Appliances	(kBTUS/SF)	(\$ / SF)	Index
OVERALL	286	2-star plus	63.4	1,866	\$ 7,766	207	148	27	31	125	\$ 4.67	10.3
Pre- 1940	44	2-star	52.8	1,696	\$ 8,393	226	167	28	30	139	\$ 5.20	11.8
1940- 49	12	1-star plus	49.4	1,784	\$ 7,826	209	153	25	31	130	\$ 4.82	11.1
1950- 59	18	2-star plus	60.3	2,064	\$ 8,543	226	164	30	32	121	\$ 4.62	9.7
1960- 69	19	2-star	57.8	1,840	\$ 8,780	249	196	24	29	145	\$ 4.96	12.9
1970- 79	93	2-star	58.6	1,774	\$ 7,945	221	165	23	29	131	\$ 4.86	11.2
1980- 89	55	2-star plus	66.8	1,895	\$ 7,785	204	145	28	31	117	\$ 4.54	9.3
1990- 99	22	3-star plus	76.8	1,645	\$ 5,583	138	83	23	27	91	\$ 3.62	6.4
2000- 2004	7	4-star plus	87.9	2,300	\$ 5,325	136	75	30	31	60	\$ 2.34	3.7
2005 or later	15	5-star	89.3	2,098	\$ 4,924	122	58	33	30	60	\$ 2.47	3.2

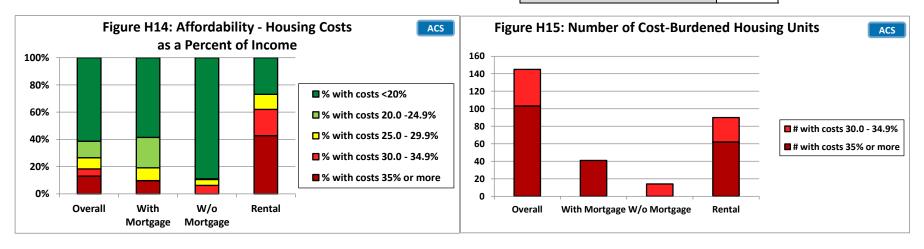




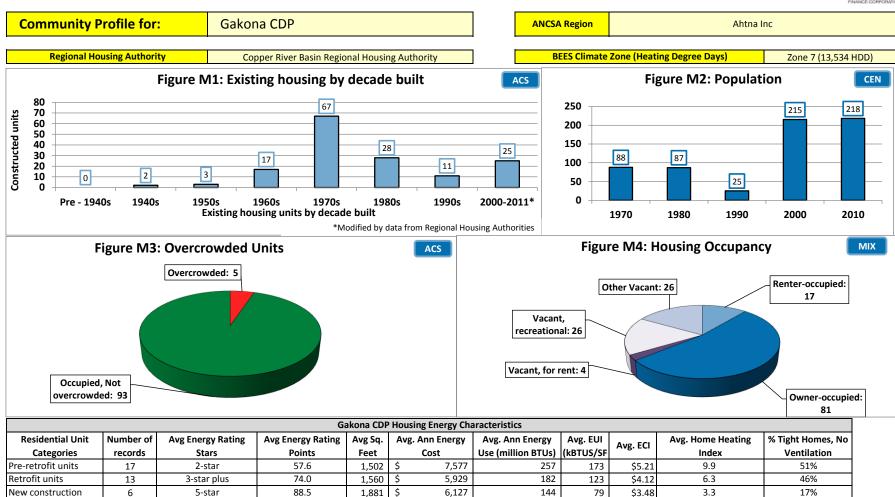
				Current Cordo	ova city Housing Env	elope Characteristics	By Decade Built				
Current Residential Units by Year Built	Number of Records	ACH 50	Ceiling R	Above Grade Wall R	Below Grade Wall R	Above Grade Floor R	On Grade Floor R	Below Grade Floor R	Door U	Garage Door U	Window U
OVERALL	286	10.3	18	11	3	15	3	3	0.36	0.34	0.55
Pre- 1940	44	14.0	12	9	3	13	3	2	0.40	NR	0.59
1940- 49	12	13.1	11	10	NR	12	NR	NR	0.30	NR	0.53
1950- 59	18	11.4	18	10	3	16	2	3	0.45	NR	0.53
1960- 69	19	13.3	19	10	3	15	2	2	0.43	NR	0.59
1970- 79	93	10.6	20	10	3	15	3	3	0.37	0.32	0.58
1980- 89	55	9.0	23	14	3	22	2	2	0.33	0.45	0.54
1990- 99	22	4.3	29	17	3	16	5	NR	0.25	0.18	0.45
2000- 2004	7	3.3	36	19	NR	31	NR	NR	0.30	NR	0.31
2005 or later	15	3.6	41	17	22	NR	5	NR	0.23	NR	0.33
-	·										
BEES 2009 - Climat	e Zone 7	7.0	38	21	15	38	15	15	0.33	0.33	0.33
BEES 2012 - Climat	e Zone 7	4.0	43	25	15	38	15	15	0.30	0.30	0.30











	Gakona CDP Housing Envelope Characteristics												
Residential Unit	Number of	ACH 50	Ceiling R	Cailing D	Above Grade Wall R	Below Grade Wall	Above Grade Floor	On Grade Floor R	Below Grade Floor R	Door U	Garage	Window	
Categories	Records	ACH 30		Above Grade Wall K	R	R	On Grade Floor K	20.011 0.0001.1001.11	D001 0	Door U	U		
Pre-retrofit units	17	11.0	26	12	NR	18	NR	NR	0.32	NR	0.54		
Retrofit units	13	7.4	36	13	NR	29	NR	NR	0.27	NR	0.51		
New construction	6	2.4	43	20	NR	35	13	NR	0.19	NR	0.32		
		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		
	•												
BEES 2009		7.0	38	21	15	38	15	15	0.33	0.33	0.33		
BEES 201	2	4.0	43	25	15	38	15	15	0.30	0.30	0.30		







Community Profile for: Glennallen CDP

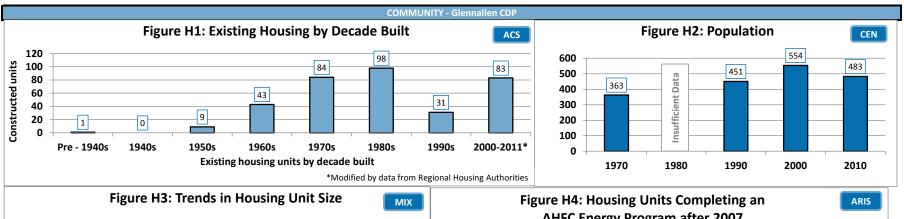
ANCSA Region Ahtna Inc

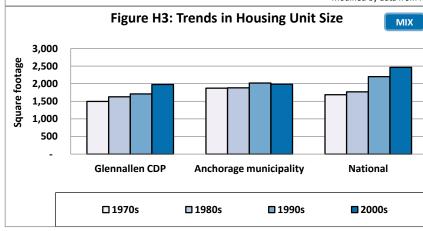
**Regional Housing Authority:** 

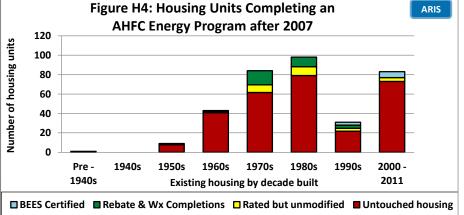
Copper River Basin Regional Housing Authority

BEES Climate Zone (Heating Degree Days)

Zone 7 (14,067 HDD)







Houses Lacking Complete	Households	
Plumbing or Kitchen Facilities	Number	Percent
Lack complete plumbing	77	36%
Lack complete kitchen	66	31%

Estimated Total Annual Community Space Heating Fuel Use			
Fuel Oil	195,667	(gallons)	
Nat Gas	-	(ccf)	
Electricity	198,604	(kWh)	
Wood	585	(cords)	
Propane	4,742	(gallons)	
Coal	-	(tons)	

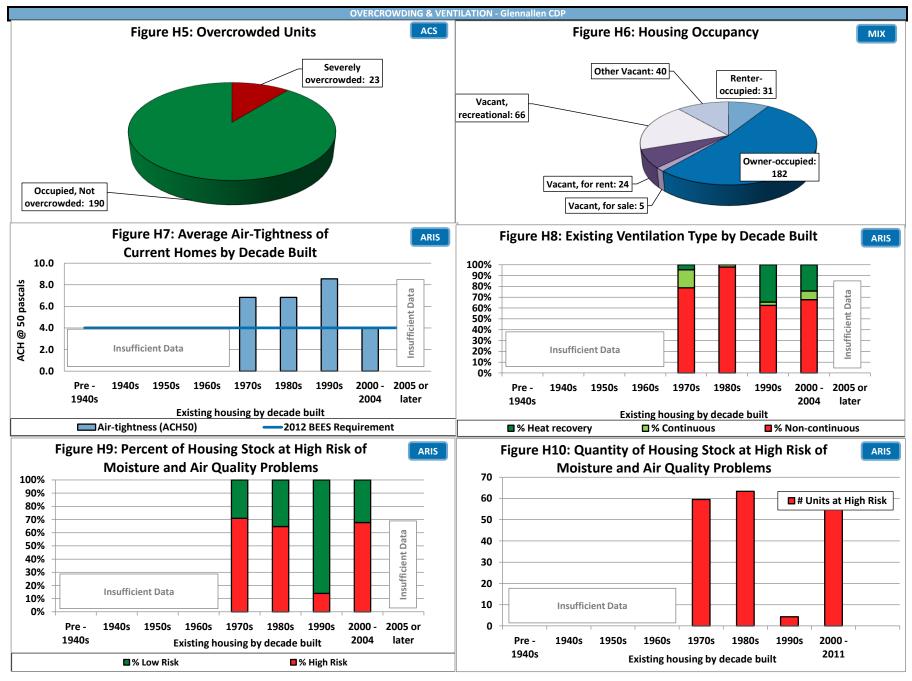
Avg Annual Energy Cost with PCE	NO PCE
Avg Annual Energy Cost without PCE	\$7,629

Estimated Energy Prices as of January 2013		
#1 Fuel oil cost (\$ / gallon)	\$4.07	
Electricity with PCE (\$/kWh)	No PCE	
Electricity cost without PCE (\$/kWh)	\$0.30	

Weatherization Program Retrofits		
(funding increased in 2008)		
Date Range	Units	
2008-2011	20	
2003-2007	5	
1990-2002	62	

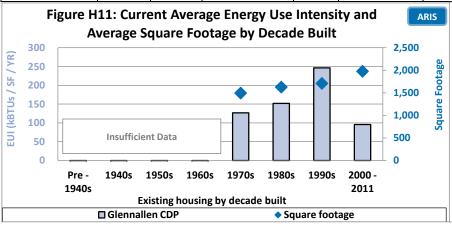
Housing Stock Estimates	Number of Units
All Housing	348
All Occupied Housing	213
All Vacant housing	135
Vacant Housing for Sale or Rent	29

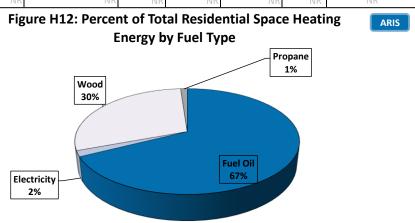






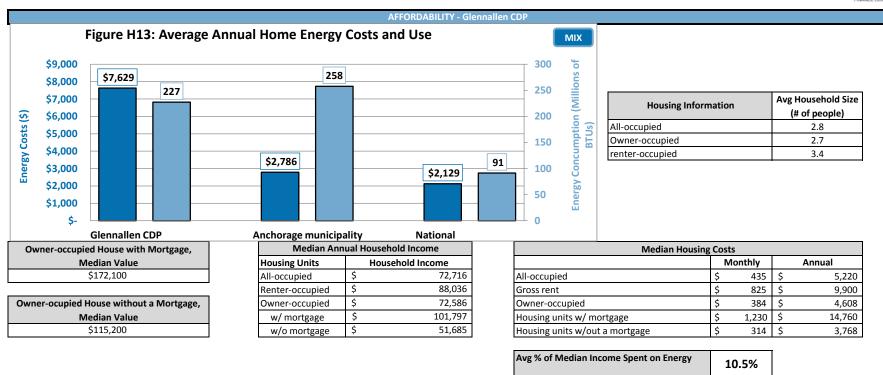
					ENERG	Y - Glennallen CDP						
				Current G	Glennallen CDP Hous	ing Energy Characte	ristics By Decade Built					
Current Residential	Number of	Avg Energy	Avg Energy Rating	Avg Sq.	Avg. Annual	Avg. Annual	Avg Ann Energy by	End Use (m	illion Btus)	Avg. EUI	Avg. ECI	Avg. Home Heating
Units by Year Built	Records	Rating Stars	Points	Feet	Energy Cost	Energy Use (million BTUs)	Space Heating	DHW	Appliances	(kBTUS/SF)	(\$ / SF)	Index
OVERALL	76	2-star plus	65.8	1,521	\$ 7,629	227	169	26	30	150	\$ 4.92	8.2
Pre- 1940	2	NR	NR	NR	NR	NR:	NR	NR	NR	NR	NR	NR
1940- 49	0	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1950- 59	1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1960- 69	2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1970- 79	27	3-star plus	73.2	1,494	\$ 7,176	203	134	33	36	127	\$ 4.61	6.2
1980- 89	23	3-star	71.0	1,627	\$ 7,498	227	175	24	28	152	\$ 5.12	8.5
1990- 99	10	2-star	53.8	1,709	\$ 6,817	273	211	14	21	247	\$ 5.01	15.7
2000- 2004	9	4-star	81.5	1,977	\$ 7,189	181	124	26	30	95	\$ 3.80	4.7
2005 or later	1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

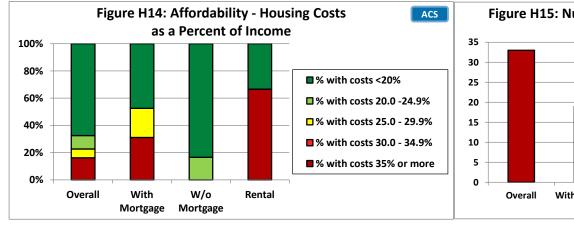


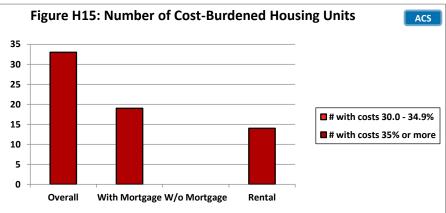


				Current Glenna	llen CDP Housing En	velope Characteristi	cs By Decade Built				
Current Residential Units by Year Built	Number of Records	ACH 50	Ceiling R	Above Grade Wall R	Below Grade Wall R	Above Grade Floor R	On Grade Floor R	Below Grade Floor R	Door U	Garage Door U	Window U
OVERALL	76	8.3	25	14	10	24	3	3	0.41	0.29	0.47
Pre- 1940	2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1940- 49	0	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1950- 59	1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1960- 69	2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1970- 79	27	6.8	29	16	17	27	3	3	0.51	0.28	0.47
1980- 89	23	6.8	27	13	5	25	3	3	0.30	0.40	0.48
1990- 99	10	8.5	29	19	24	12	3	NR	0.22	0.25	0.39
2000- 2004	9	4.0	40	18	NR	37	3	NR	0.25	0.18	0.40
2005 or later	1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
BEES 2009 - Climat	te Zone 7	7.0	38	21	15	38	15	15	0.33	0.33	0.33
BEES 2012 - Climat	te Zone 7	4.0	43	25	15	38	15	15	0.30	0.30	0.30

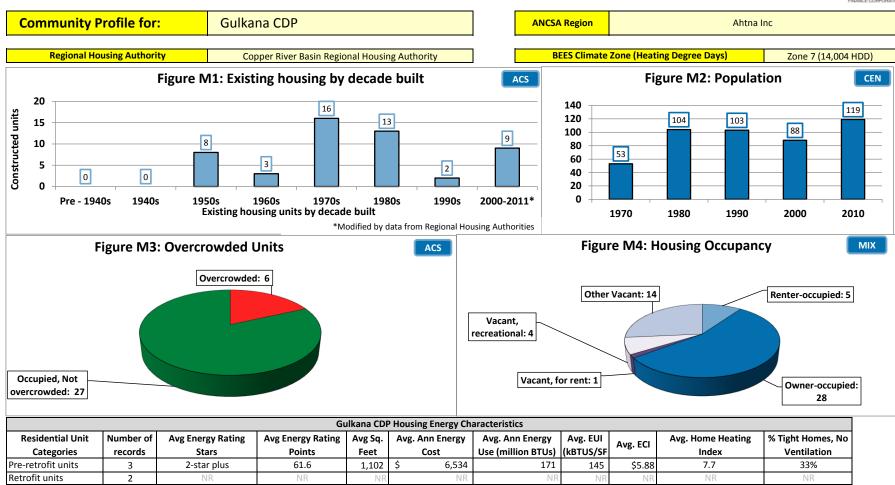












				Gul	kana CDP Housing E	nvelope Characterist	ics				
Residential Unit	Number of	ACH 50	Ceiling R	Above Grade Wall R	Below Grade Wall	Above Grade Floor	On Grade Floor R	Below Grade Floor R	Door U	Garage	Window
Categories	Records	701130	cennig it		R	R			500.0	Door U	U
Pre-retrofit units	3	14.8	31	15	NR	NR	NR	NR	0.35	NR	0.45
Retrofit units	2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
New construction	0	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	•	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	•										
BEES 200	9	7.0	38	21	15	38	15	15	0.33	0.33	0.33
BEES 201	2	4.0	43	25	15	38	15	15	0.30	0.30	0.30

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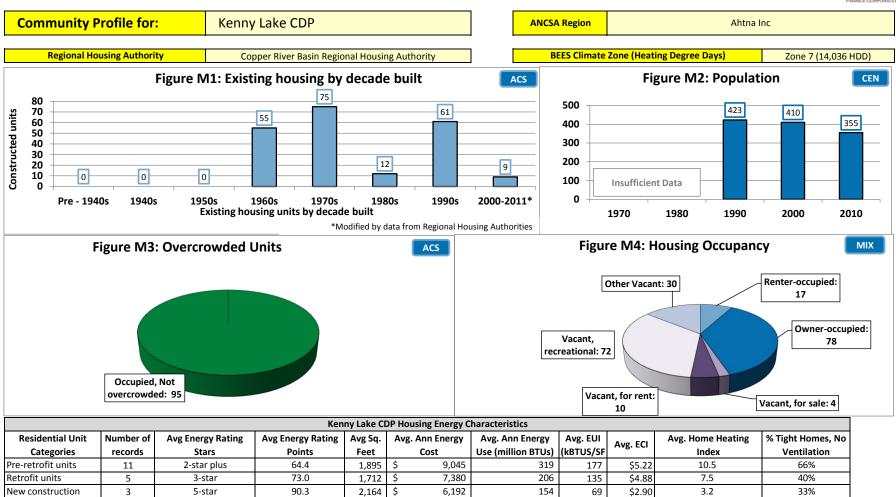
NR

New construction







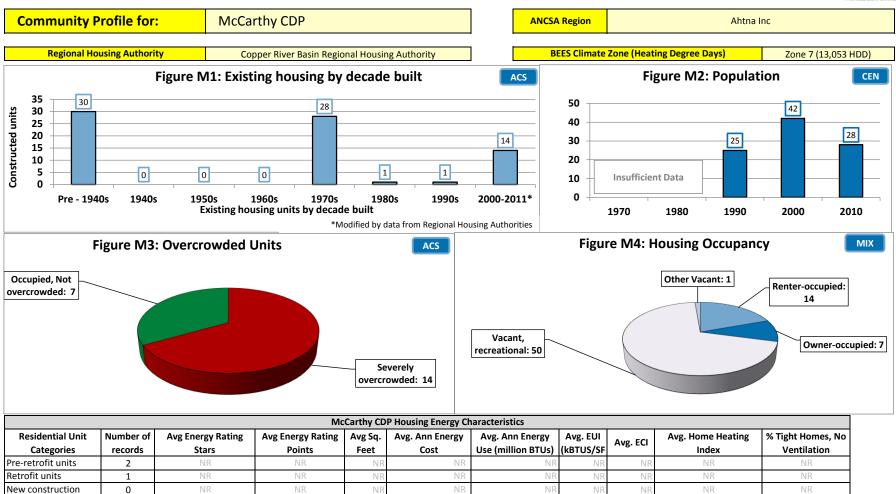


	Kenny Lake CDP Housing Envelope Characteristics											
Residential Unit	Number of	ACH 50	Cailing B	Above Grade Wall R	Below Grade Wall	Above Grade Floor	On Grade Floor R	Below Grade Floor R	Door U	Garage	Window	
Categories	Records	ACH 30	Cennig K	Above Grade Wall K	R	R	On Grade Floor K	Below Grade Floor R	D001 0	Door U	U	
Pre-retrofit units	11	9.0	23	14	7	26	3	3	0.41	NR	0.50	
Retrofit units	5	6.0	29	12	19	24	3	NR	0.33	NR	0.46	
New construction	3	2.2	47	20	NR	NR	NR	NR	0.24	NR	0.29	
		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
	•		•	•	•					•		
BEES 200	9	7.0	38	21	15	38	15	15	0.33	0.33	0.33	
BEES 201	2	4.0	43	25	15	38	15	15	0.30	0.30	0.30	







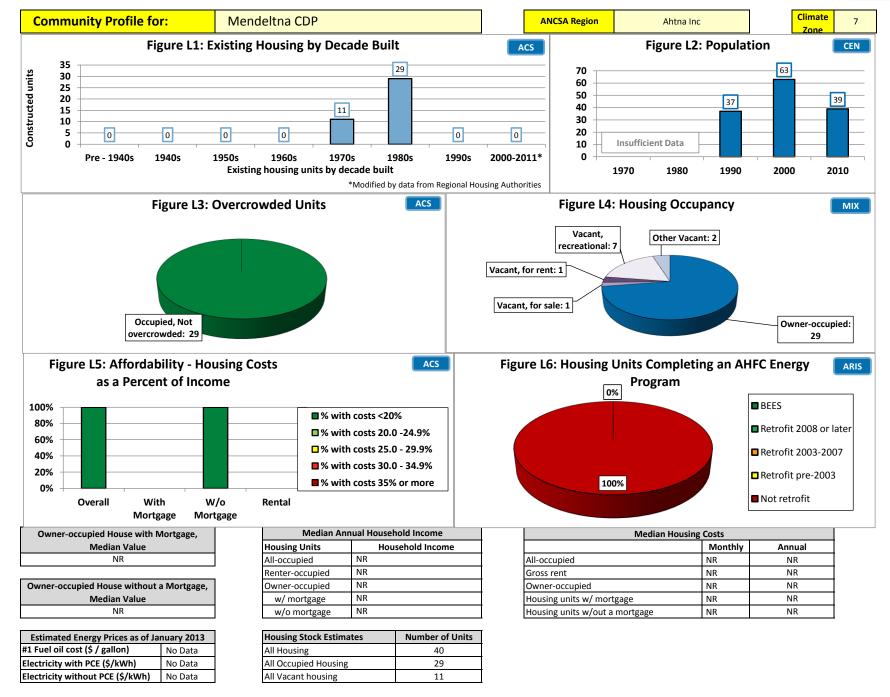


	McCarthy CDP Housing Envelope Characteristics											
Residential Unit	Number of	ACH 50	Ceiling R	Above Grade Wall R	Below Grade Wall	Above Grade Floor	On Grade Floor R	Below Grade Floor R	Door U	Garage	Window	
Categories	Records	71000	Coming it		R	R			200. 0	Door U	U	
Pre-retrofit units	2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Retrofit units	1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
New construction	0	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
	•											
BEES 200	)9	7.0	38	21	15	38	15	15	0.33	0.33	0.33	
BEES 201	.2	4.0	43	25	15	38	15	15	0.30	0.30	0.30	

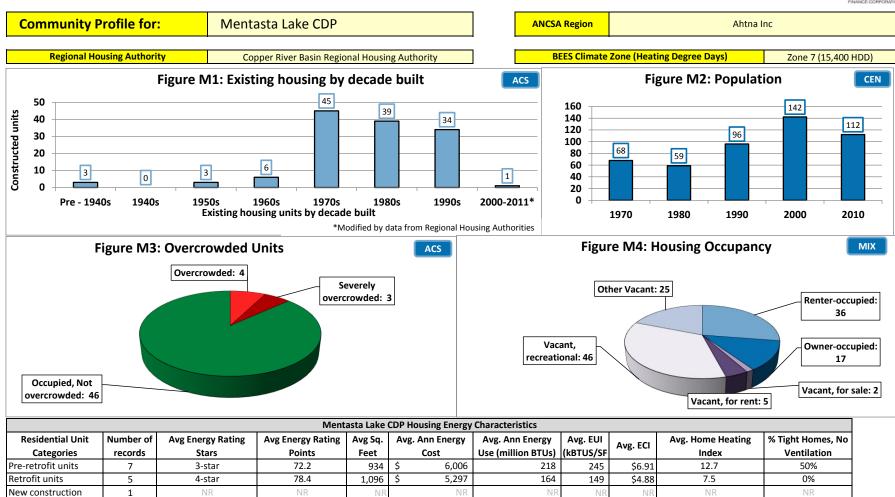












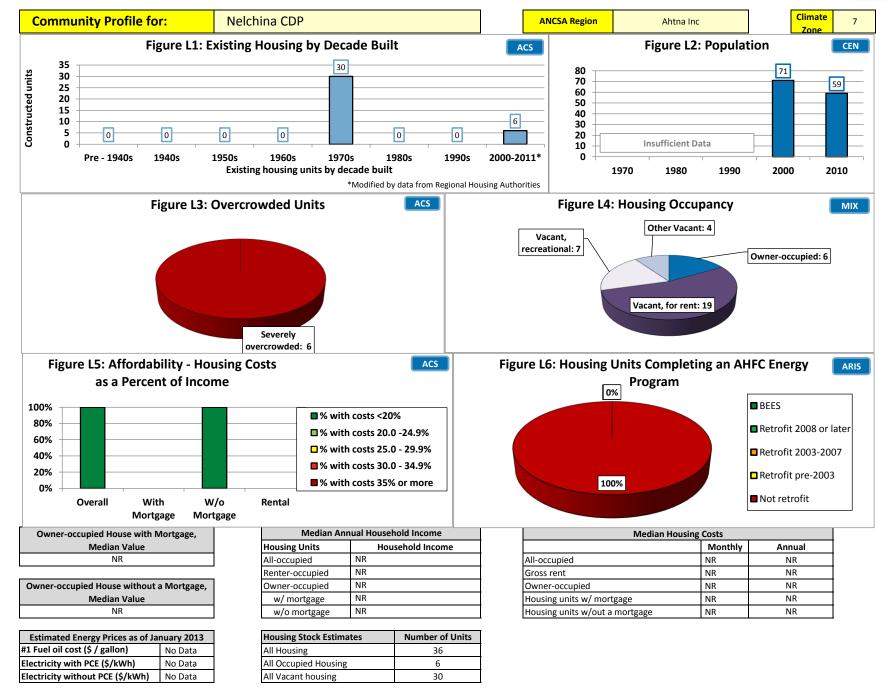
	Mentasta Lake CDP Housing Envelope Characteristics										
Residential Unit	Number of	ACH 50	Cailing P	Above Grade Wall R	Below Grade Wall	Above Grade Floor	On Grade Floor R	Below Grade Floor R	Door U	Garage	Window
Categories	Records	ACH 30	Cennig K	Above Grade Wall K	R	R	Oli Grade Floor K	below drade Floor R	Door 0	Door U	U
Pre-retrofit units	7	8.6	28	10	29	NR	NR	2	0.33	NR	0.49
Retrofit units	5	5.5	50	10	28	NR	NR	2	0.32	NR	0.48
New construction	1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
			1	I	l .	I I		l l		ı	

BEES 2009	7.0	38	21	15	38	15	15	0.33	0.33	0.33
BEES 2012	4.0	43	25	15	38	15	15	0.30	0.30	0.30

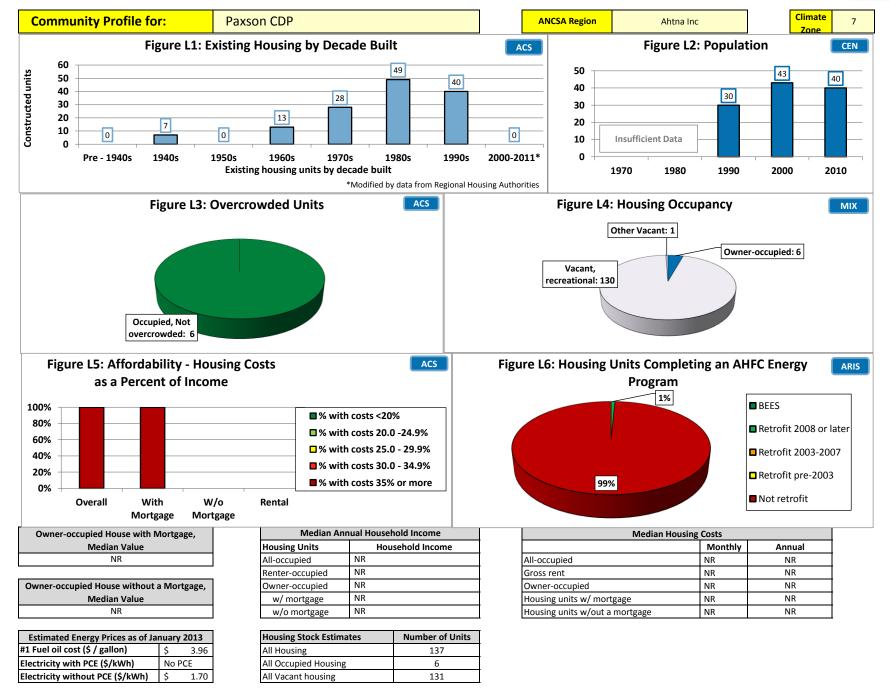




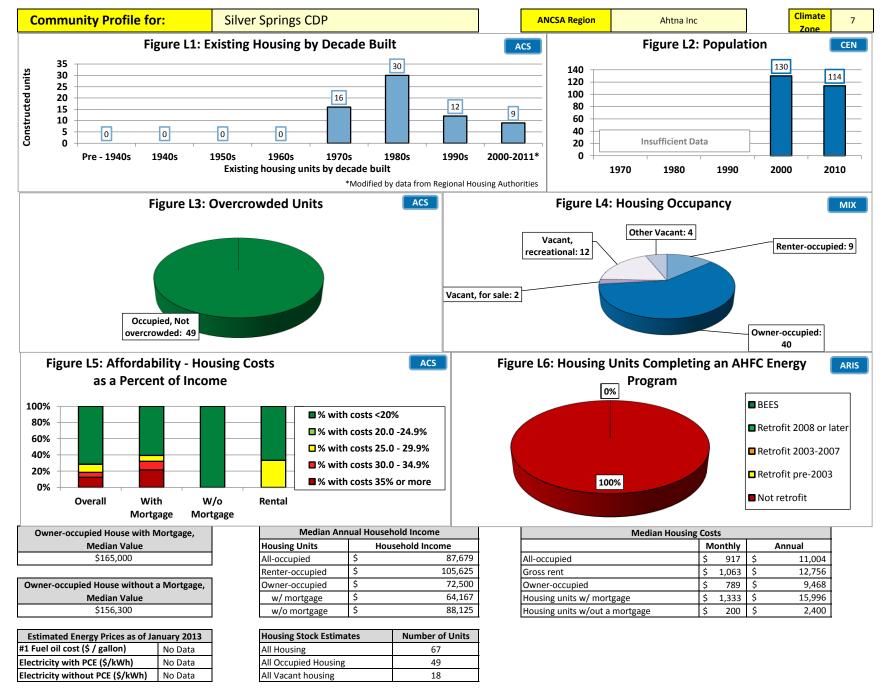




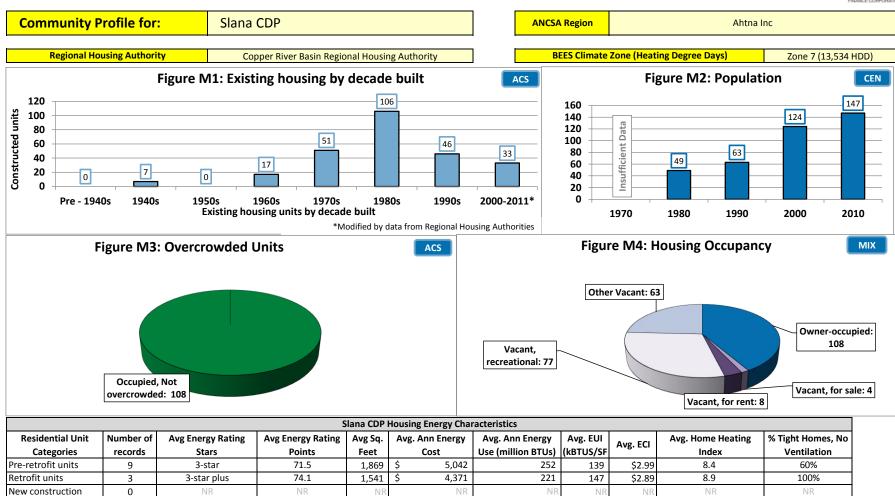






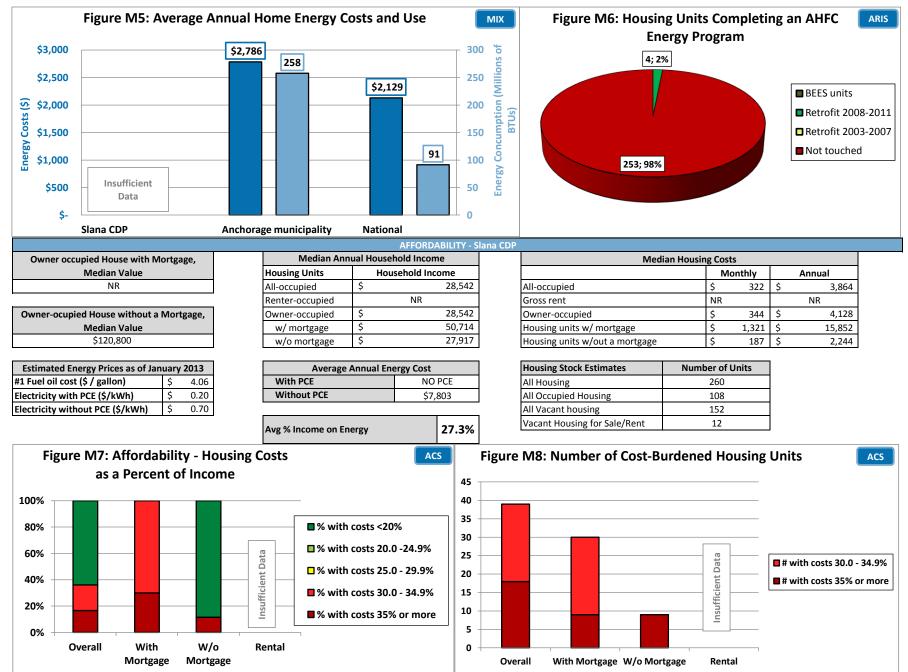




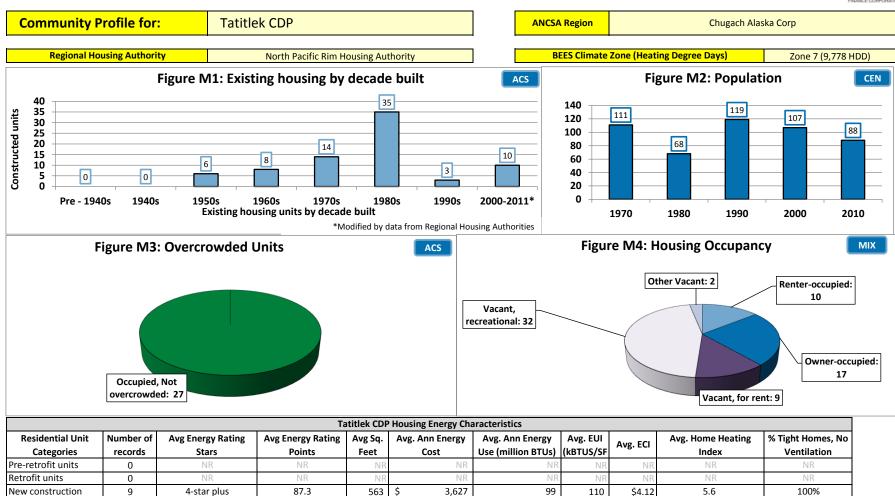


	Slana CDP Housing Envelope Characteristics											
Residential Unit	Number of	ACH 50	Cailing B	Above Grade Wall R	Below Grade Wall	Above Grade Floor	On Grade Floor R	Below Grade Floor R	Door U	Garage	Window	
Categories	Records	ACITO	Cennig it	Above Grade Wall K	R	R	On Grade Floor R	Delow Grade Floor K	D001 0	Door U	U	
Pre-retrofit units	9	7.1	23	15	NR	13	NR	NR	0.29	NR	0.55	
Retrofit units	3	7.0	NR	NR	NR	NR	NR	NR	NR	NR	NR	
New construction	0	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
	•											
BEES 2009	9	7.0	38	21	15	38	15	15	0.33	0.33	0.33	
BEES 2012	2	4.0	43	25	15	38	15	15	0.30	0.30	0.30	







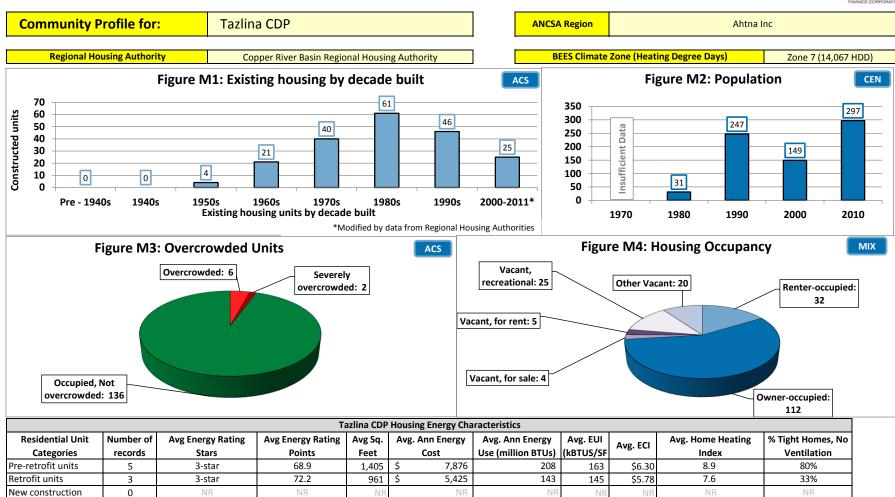


	Tatitlek CDP Housing Envelope Characteristics											
Residential Unit	Number of	ACH 50	Cailing P	Above Grade Wall R	Below Grade Wall	Above Grade Floor	On Grade Floor R	Below Grade Floor R	Door U	Garage	Window	
Categories	Records	ACITO	Cennig it	Above Grade Wall K	R	R	On Grade Floor K	Delow Grade Floor II	D001 0	Door U	U	
Pre-retrofit units	0	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
Retrofit units	0	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
New construction	9	1.8	40	18	13	NR	NR	2	0.26	NR	0.34	
	•	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
	·				•			<u>.                                      </u>		•		
BEES 200	9	7.0	38	21	15	38	15	15	0.33	0.33	0.33	
BEES 201	.2	4.0	43	25	15	38	15	15	0.30	0.30	0.30	







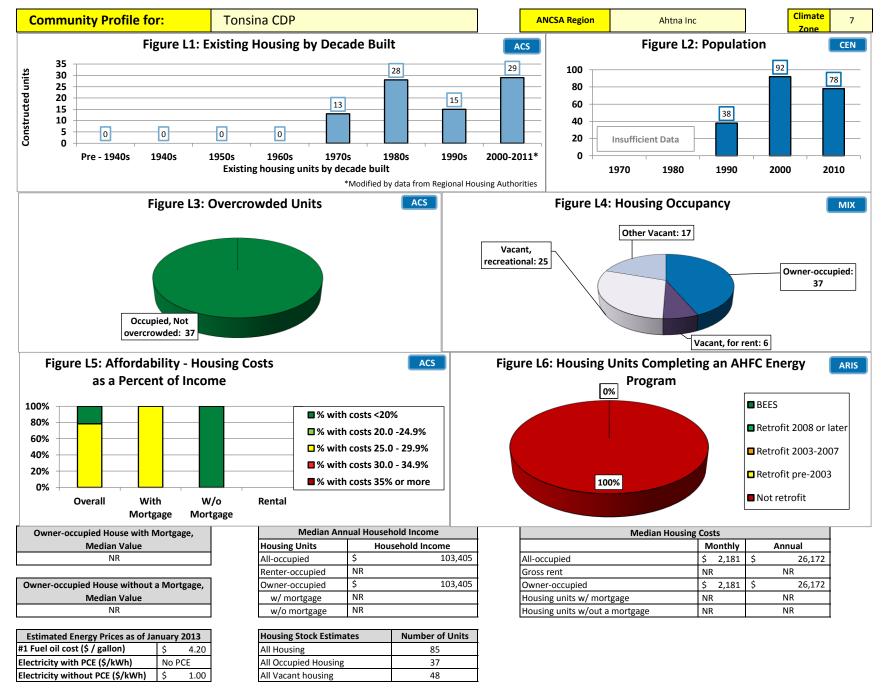


	Tazlina CDP Housing Envelope Characteristics											
Residential Unit	Number of	ACH 50	Ceiling R	Above Grade Wall R	Below Grade Wall	Above Grade Floor	On Grade Floor R	Below Grade Floor R	Door U	Garage	Window	
Categories	Records	ACITO	CCIIIIg IX	A STATE CHARGE THAT IN	R	R		20.011 0.000 1.001 1.	D001 0	Door U	U	
Pre-retrofit units	5	6.6	28	16	17	NR	2	2	0.33	NR	0.51	
Retrofit units	3	6.9	39	16	NR	NR	NR	NR	0.32	NR	0.47	
New construction	0	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
	•											
BEES 2009	)	7.0	38	21	15	38	15	15	0.33	0.33	0.33	
BEES 2012	2	4.0	43	25	15	38	15	15	0.30	0.30	0.30	











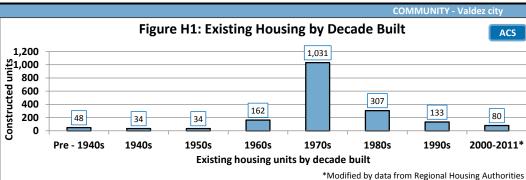
Community Profile for: Valdez city

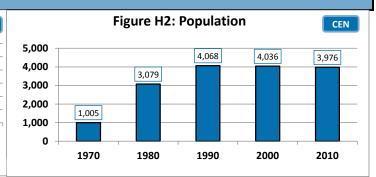
ANCSA Region Chugach Alaska Corp

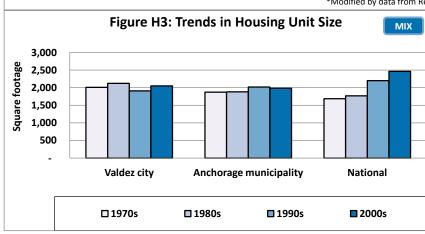
Regional Housing Authority: North Pacific Rim Housing Authority

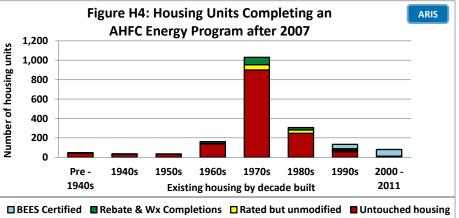
BEES Climate Zone (Heating Degree Days)

Zone 7 (9,711 HDD)









Houses Lacking Complete	House	holds
Plumbing or Kitchen Facilities	Number	Percent
Lack complete plumbing	36	2%
Lack complete kitchen	0	0%

Estimated Total A	nnual Community Space	Heating Fuel Use
Fuel Oil	1,883,067	(gallons)
Nat Gas	-	(ccf)
Electricity	1,634,561	(kWh)
Wood	1,861	(cords)
Propane	145,515	(gallons)
Coal	20	(tons)

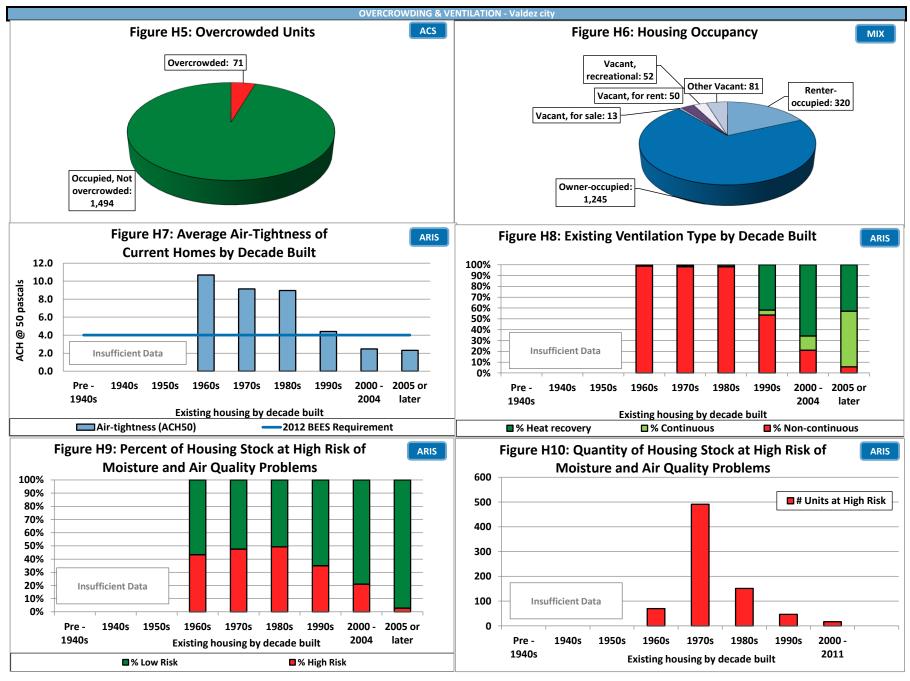
Avg Annual Energy Cost with PCE	NO PCE
Avg Annual Energy Cost without PCE	\$9,487

Estimated Energy Prices as	s of January 2013			
#1 Fuel oil cost (\$ / gallon)	\$4.30			
Electricity with PCE (\$/kWh)	No PCE			
Electricity cost without PCE (\$/kWh)	\$0.29			

Weatherization Program Retrofits								
(funding increased in 2008)								
Date Range	Units							
2008-2011	19							
2003-2007	11							
1990-2002	29							

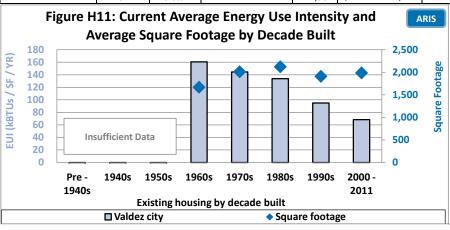
Housing Stock Estimates	Number of Units
All Housing	1761
All Occupied Housing	1565
All Vacant housing	196
Vacant Housing for Sale or Rent	63

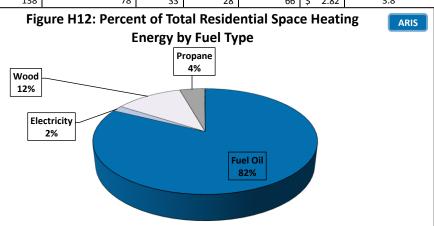






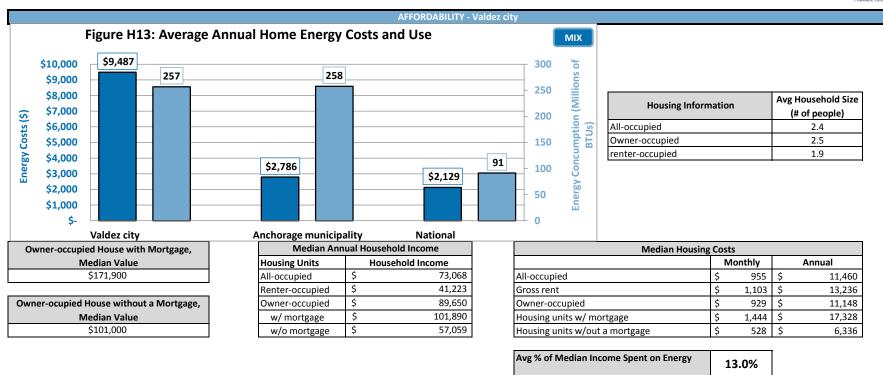
	ENERGY - Valdez city											
	Current Valdez city Housing Energy Characteristics By Decade Built											
Current Residential Number of		Avg Energy	Energy Avg Energy Rating	Avg Sq.	Avg. Annual	Avg. Annual	Avg Ann Energy by End Use (million Btus)			Avg. EUI	Avg. ECI	Avg. Home Heating
Units by Year Built	Records	Rating Stars	Points	Feet Energy Cost	ŭ	Energy Use (million BTUs)	Space Heating	DHW	Appliances	(kBTUS/SF)	(\$ / SF)	Index
OVERALL	504	2-star plus	66.3	1,975	\$ 9,487	257	187	34	30	135	\$ 5.04	10.5
Pre- 1940	4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1940- 49	2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1950- 59	3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1960- 69	40	2-star plus	62.8	1,668	\$ 9,407	258	193	35	30	161	\$ 5.84	12.8
1970- 79	194	2-star plus	63.7	2,012	\$ 9,855	270	204	35	30	144	\$ 5.35	11.5
1980- 89	84	3-star	69.1	2,123	\$ 9,796	266	199	36	31	134	\$ 4.92	10.6
1990- 99	92	4-star	82.7	1,911	\$ 7,260	183	82	21	19	95	\$ 3.93	6.4
2000- 2004	47	5-star	90.2	2,052	\$ 6,144	143	81	34	28	71	\$ 3.09	4.2
2005 or later	37	5-star	91.5	1,904	\$ 5,861	138	78	33	28	66	\$ 2.82	3.8

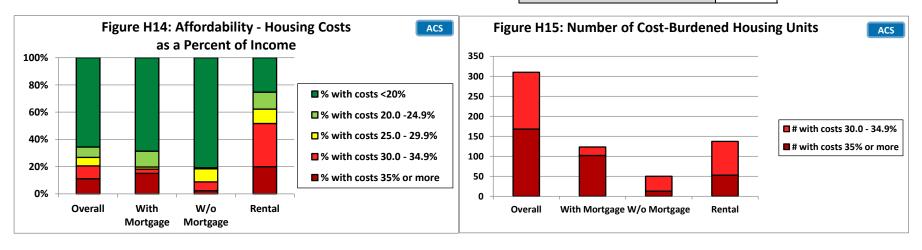




Current Valdez city Housing Envelope Characteristics By Decade Built											
Current Residential Units by Year Built	Number of Records	ACH 50	Ceiling R	Above Grade Wall	Below Grade Wall R	Above Grade Floor R	On Grade Floor R	Below Grade Floor R	Door U	Garage Door U	Window U
OVERALL	504	8.7	23	12	4	21	3	3	0.33	0.29	0.54
Pre- 1940	4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1940- 49	2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1950- 59	3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1960- 69	40	10.7	21	11	3	21	2	3	0.39	0.30	0.57
1970- 79	194	9.1	21	11	4	20	3	3	0.34	0.34	0.61
1980- 89	84	9.0	24	13	4	22	3	3	0.34	0.29	0.51
1990- 99	92	4.4	42	23	20	27	5	5	0.19	0.14	0.28
2000- 2004	47	2.5	42	18	19	28	3	3	0.22	0.18	0.32
2005 or later	37	2.3	48	18	20	33	4	4	0.23	0.16	0.31
BEES 2009 - Climat	e Zone 7	7.0	38	21	15	38	15	15	0.33	0.33	0.33
BEES 2012 - Climat	e Zone 7	4.0	43	25	15	38	15	15	0.30	0.30	0.30







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