



Table of Contents

Kenai Peninsula Borough [ashboard	IV
Kenai Peninsula Borough S	ummary	V-VI
Community		ν
Overcrowding		ν
Energy		V
Affordability		VI
Community, Region	nal, and Statewide Housing Characteristics	VIII
How to Interpret the Profi	e: Data Sources, Definitions & Clarifications	A-H
Kenai Peninsula Borough F	rofile	1-4
Kenai Peninsula Communi	y Profiles	5-73
Anchor Point	Data Quantity: High	5
Bear Creek	Data Quantity: Low	
Beluga	Data Quantity: Low	
Clam Gulch	Data Quantity: Medium	
Cohoe	Data Quantity: Low	
Cooper Landing	Data Quantity: Medium	14



Crown Point	Data Quantity: Low	16
Diamond Ridge	Data Quantity: Low	17
Fox River	Data Quantity: Low	18
Fritz Creek	Data Quantity: Low	19
Funny River	Data Quantity: Low	20
Happy Valley	Data Quantity: Low	21
Homer	Data Quantity: High	22
Норе	Data Quantity: Medium	26
Kachemak	Data Quantity: Low	28
Kalifornsky	Data Quantity: Low	29
Kasilof	Data Quantity: Medium	30
Kenai	Data Quantity: High	32
Moose Pass	Data Quantity: Medium	36
Nanwalek	Data Quantity: High	38
Nikiski	Data Quantity: High	42
Nikolaevsk	Data Quantity: Low	46
Ninilchik	Data Quantity: High	47
Point Possession	Data Quantity: Low	51



Port Graham	Data Quantity: Medium	52
Primrose	Data Quantity: Low	54
Ridgeway	Data Quantity: Low	55
Salamatof	Data Quantity: Low	56
Seldovia	Data Quantity: High	57
Seldovia Village	Data Quantity: Low	61
Seward	Data Quantity: High	62
Soldotna	Data Quantity: Medium	66
Sterling	Data Quantity: High	68
Tvonek	Data Quantity: Medium	72



Kenai Peninsula Borough Dashboard

Population: The Alaska Department of Labor and Workforce Development's current (2012) population estimate for the Kenai Peninsula Borough is 56,756—an increase of 14% from 2000.

Housing Units: There are currently 30,137 housing units in the Kenai Peninsula Borough. Of these, 22,390 are occupied, 975 are for sale or rent, and the remaining 6,772 are seasonal or otherwise vacant units (Profile Figure C6).

Energy: The average home in the Kenai Peninsula Borough is 1,892 square feet and uses 131,000 BTUs of energy per square foot annually, 4% less 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 Kenai Peninsula Borough is \$4,510, which is approximately 1.6 times more than the cost in Anchorage, and 2.1 times more than the national average (Profile Figure C13).

Energy Programs: Approximately 18% of the occupied housing in the Kenai Peninsula Borough 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 before 1940 are currently rated at 2-stars, 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 meet the 2009 BEES standard of 7 air-changes per hour at 50 pascals (ACH50). In contrast, homes built before 1940 are 2.8 times leakier than those built since 2000 (Profile Figure C7).

Ventilation: An estimated 14,206 occupied housing units (or 63%) in the Kenai Peninsula Borough 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: 4% of occupied units are estimated to be either overcrowded (3%) or severely overcrowded (1%). This is roughly similar to the national average, and makes the Kenai Peninsula Borough the 22nd most overcrowded census area in the state.

Affordability: On average, approximately 29% of households in the Kenai Peninsula Borough 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 8% of census median area income for occupied housing.



Kenai Peninsula Borough Summary

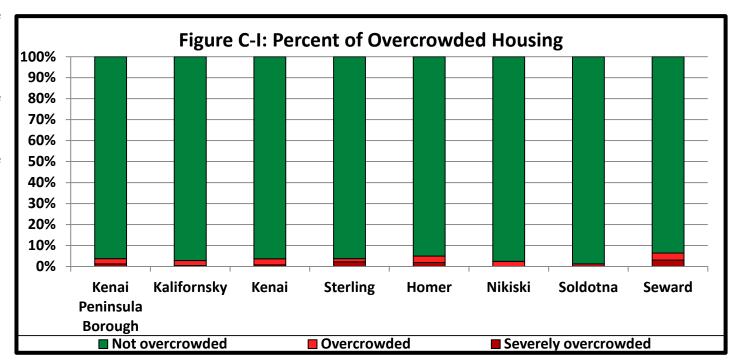
Community

The Kenai Peninsula Borough census area lies on the coast of southcentral Alaska and is bisected by Cook Inlet. Communities in the census area lie on the coast or along the banks of the Kenai River. The census area lies in the Cook Inlet Native Corporation ANCSA region. Average home sizes in the communities of the Kenai Peninsula range from 1,036 square feet in Nanwalek to 2,228 square feet in Nikiski. Average home size in the census area as a whole has stayed relatively constant since the 1970s.

Overcrowding

Four percent of housing units in the Kenai Peninsula are classified as either overcrowded or severely overcrowded (Figure C-I). There is little variation in overcrowding in the six most populous communities, with less than 5% overcrowding in each (Figure C-I). The least overcrowded community in the entire census area is Ninilchik, where an estimated zero households are overcrowded. The highest overcrowding rate is found in the community of Nanwalek at 43%.

Approximately 3% of housing in the Kenai Peninsula is available for sale or rent. The lowest percentage of available housing is found in Clam Gulch. where only 1% of homes are available for sale or rent. The highest percentage, of available 8%, housing is found in Seldovia. Additionally, 22% of housing units in the census area are

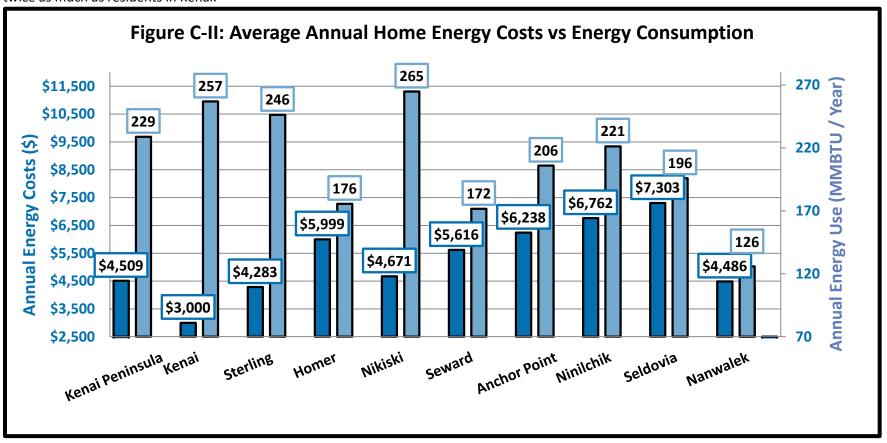




considered vacant because they have seasonal, recreational, or "other" non-year round purposes.

Energy

On average, homes in the Kenai Peninsula use 229 million BTUs of energy each year, for an average cost of \$4,509. The energy costs and energy use for many communities in the census area are shown in Figure C-II. The lowest average costs are found in Tyonek, where residents pay \$2,598 each year. However, the lowest annual average energy use is found in Nanwalek, which may be due to several factors: homes are just over half the size of the census area average, 44% of homes have participated in an energy program, and the average home heating index is the lowest in the borough. The highest home heating index, 12.1 BTUs/ft²/HDD, is found in the community of Moose Pass, but residents of Seldovia pay the highest average energy costs of the census area. With an average annual energy cost of \$7,303, residents of Seldovia spend more than twice as much as residents in Kenai.

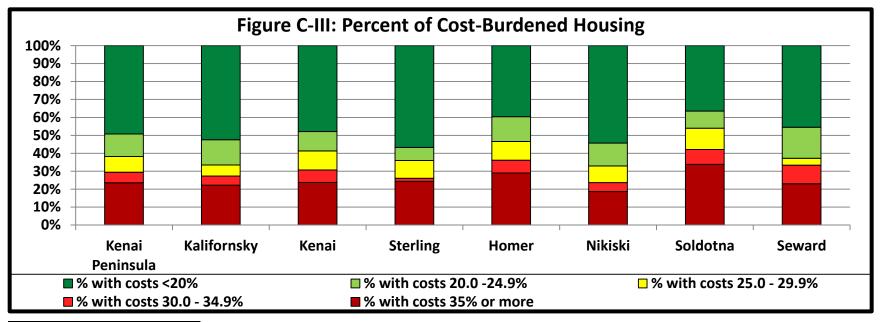




In the census area as a whole, approximately 19% of housing units have participated in the Home Energy Rebate, Weatherization, or a BEES program since 2003. However, participation rates among communities vary greatly, with the six most populous communities' participation rates ranging from 0 to 71%. Approximately half the homes built in the Kenai Peninsula since 2000 have either an HRV or a continuous mechanical ventilation system. On the other hand, more than 70% of the housing built in the 1970s and 1980s is relatively air-tight and lacking a ventilation system. These homes are at a higher risk for moisture- and indoor air quality-related issues.

Affordability

According to ACS estimates¹, affordability in Kenai Peninsula communities ranges from an estimated zero cost-burdened households in Moose Creek to 57% of households paying more than 30% of their income on housing costs in Hope. Considering only the six most populous communities, rates of cost-burdened housing vary from 24% to 42% (Figure C-III). The wide range of affordability in the census area may be due to the large difference between median income levels. The lowest median income of \$19,167 is found in Port Graham. The highest median income of \$116,147 is found in Cooper Landing. In the six most populous communities, median household incomes range from \$41,989 to \$73,840.



¹ 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

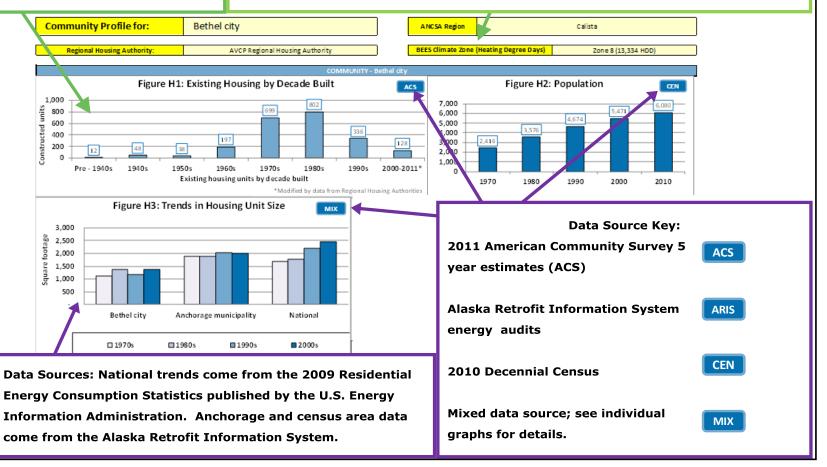
This census area summary only includes the highlights of housing characteristics at the census area level. Detailed data profile with charts and tables for both the census area and for each of the communities within it follow. The 2014 Alaska Housing Assessment provides a significant amount of data and 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.

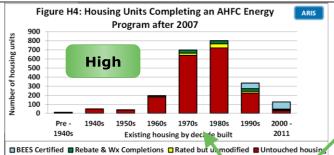
The Alaska Building Energy Efficiency Standard (BEES) was established by AHFC for the State of Alaska to promote the construction of energy efficient buildings. The standards for specific building components are divided into four climate zones, from Zone 6 in Southeast AK to Zone 9 on the North Slope.







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)

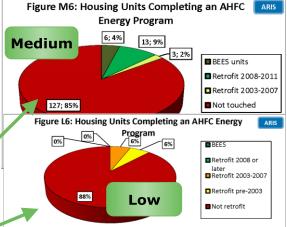
(kWh)

(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

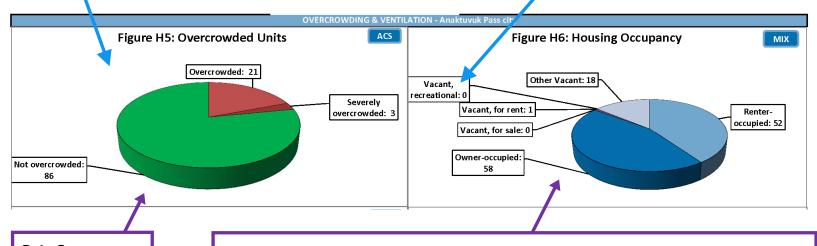




Overcrowded: Housing units with more than 1 person per room Severely Overcrowded: Housing units with more than 1.5 people per room.

"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.

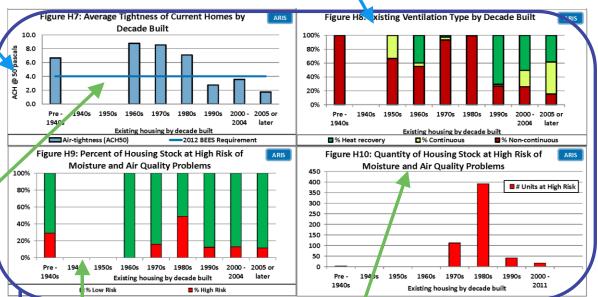
The 2012 Building Energy
Efficiency Standard
(BEES) for air-tightness is
for reference only, as it
was implemented after
the majority of homes in
Alaska were built.

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.





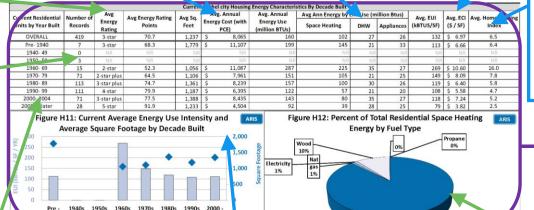


Rating stars and points are based on AHFC's AkWarm energy rating system. Average annual energy cost:
Includes all end uses. Costs
are estimated using January
2013 energy prices, and
include reductions from the
PCE program.

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	sing Ervelope Characteristics 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.



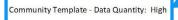


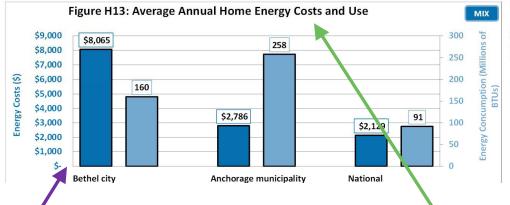
Communities are categorized in this report by the amount of ARIS data available, and reporting is more extensive for locations with more data. Data quantities are defined as--

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.

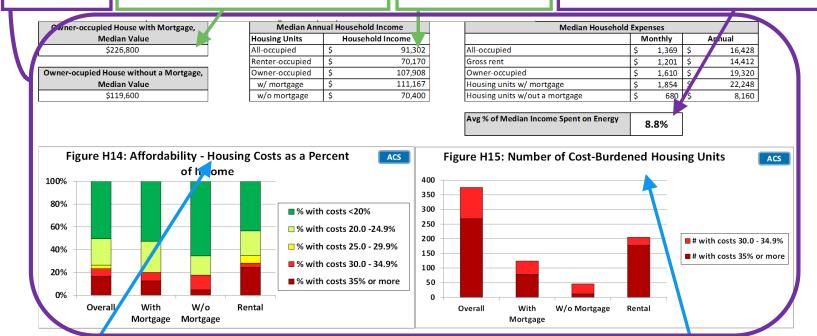
National figures come from the U.S. Energy Information Administration's 2009 Residential Energy Consumption Statistics (RECS) for "cold"/"very cold" climate regions. Average annual home energy costs and usage estimates are for all end uses, including space heating, domestic hot water, lighting and appliances.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

Kenai Peninsula Borough

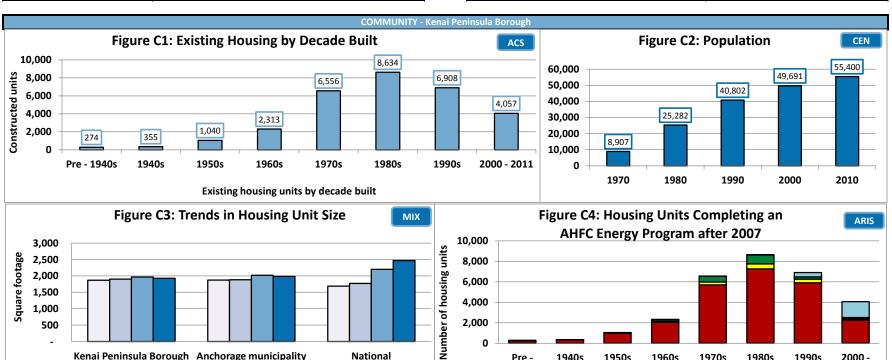
ANCSA Region: Cook Inlet Regional (CIRI)

Regional Housing Authority:

Cook Inlet Housing Authority

■ 1990s

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



Houses Lacking Complete	Households			
Plumbing or Kitchen Facilities	Number	Percent		
Lack complete plumbing	1,500	7%		
Lack complete kitchen	1.343	6%		

□ 1970s

Estimated Total Annual Community Space Heating Fuel Use					
Fuel Oil	7,947,985	(gallons)			
Natural Gas	21,554,824	(ccf)			
Electricity	30,611,605	(kWh)			
Wood	22,620	(cords)			
Propane	1,185,380	(gallons)			
Coal	510	(tons)			

Kenai Peninsula Borough Anchorage municipality

■ 1980s

Avg Annual Energy Cost with PCE	NO PCE
Avg Annual Energy Cost without PCE	\$4,509

National

2000s

Housing Need Indicators	Number of Units	% Occupied Housing
Overcrowded	828	4%
Housing cost burdened	6,348	28%
1 Star Homes	1,474	7%

1940s

1950s

1960s

Existing housing by decade built

■ BEES Certified ■ Rebate & Wx completions ■ Rated but unmodified ■ Untouched housing

Pre -

1940s

Weatherization Retrofits (funding				
increased 2008)				
Date Range	Units			
2008 -2011	660			
2003-2007	254			
1990-2002	908			

1970s

Housing Stock Estimates	Number of Units
All Housing	30,137
All Occupied Housing	22,390
All Vacant housing	7,747
Vacant Housing for Sale or Rent	975

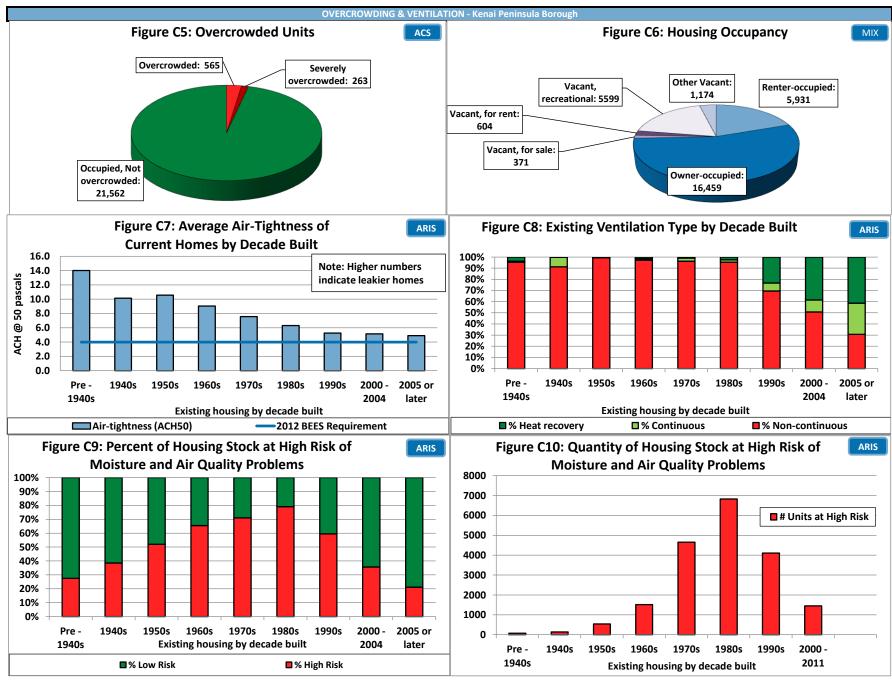
1980s

2000 -

2011

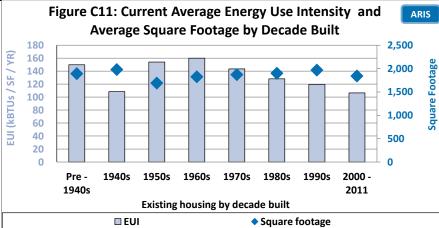
1990s

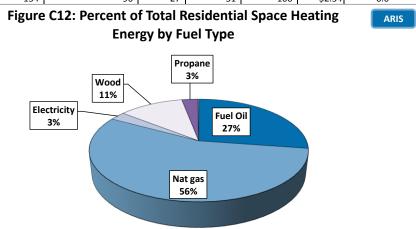






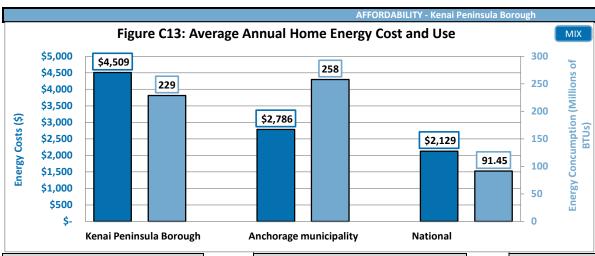
	ENERGY - Kenai Peninsula Borough											
	Current Kenai Peninsula Borough Housing Energy Characteristics By Decade Built											
Current Residential	# of	Avg Energy	Avg Energy Rating	Avg Sq.	Avg. Annual	Avg. Annual	Avg Ann Energy by End Use (million Btus)			Avg. EUI Avg. EC	Avg. ECI	Avg. Home
Units by Year Built	AkWarm Records	Rating Stars	Points	Feet	Energy Cost	Energy Use (million BTUs)	Space Heating	DHW	Appliances		(\$ / SF)	Heating Index
OVERALL	6,774	3-star	71.7	1,892	\$4,509	229	164	30	32	131	\$2.63	8.9
Pre- 1940	44	2-star	52.9	1,891	\$7,348	257	205	24	29	150	\$4.46	12.2
1940- 49	32	2-star plus	62.9	1,979	\$5,686	196	144	21	31	108	\$3.35	8.3
1950- 59	130	2-star	53.2	1,689	\$6,023	242	186	25	32	154	\$4.21	11.8
1960- 69	449	2-star plus	60.2	1,823	\$4,155	271	210	30	31	160	\$2.54	11.4
1970- 79	1,432	2-star plus	66.5	1,870	\$4,534	256	194	30	31	144	\$2.59	9.9
1980- 89	2,225	3-star	72.0	1,900	\$4,523	236	174	30	32	128	\$2.59	8.7
1990- 99	1,231	4-star	78.3	1,967	\$4,460	209	137	29	30	120	\$2.61	7.8
2000- 2004	1,026	4-star	80.5	1,924	\$4,283	187	124	30	33	109	\$2.61	6.9
2005 or later	876	4-star plus	84.3	1,742	\$3,486	154	96	27	31	100	\$2.34	6.0





□ coi • Square lootage											
	Current Kenai Peninsula Borough 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	6,774	6.7	26	14	6	19	3	3	0.34	0.28	0.50
Pre- 1940	44	14.0	12	9	3	17	3	3	0.46	NR	0.58
1940- 49	32	10.1	17	12	6	17	2	2	0.37	NR	0.57
1950- 59	130	10.6	17	10	3	13	3	2	0.45	0.39	0.61
1960- 69	449	9.0	21	11	3	17	2	2	0.43	0.32	0.58
1970- 79	1,432	7.6	23	12	6	18	3	3	0.36	0.32	0.54
1980- 89	2,225	6.3	28	15	6	20	3	3	0.35	0.30	0.51
1990- 99	1,231	5.2	33	16	8	23	3	3	0.27	0.20	0.41
2000- 2004	1,026	5.1	34	16	12	18	4	3	0.30	0.19	0.39
2005 or later	876	4.9	38	16	16	26	5	3	0.27	0.19	0.35
-											
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	2.5
Renter-occupied	2.1

Median Value of Owner-occupied House with

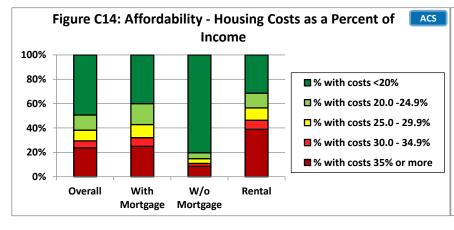
Mortgage
\$214,700

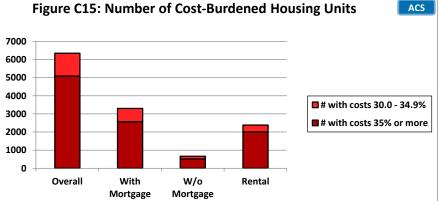
Median Value of Owner-occupied House without a Mortgage \$166,600

Median Annual Household Income					
Housing Units		Household Income			
All-occupied	\$	59,256			
Renter-occupied	\$	33,400			
Owner-occupied	\$	69,697			
w/ mortgage	\$	80,459			
w/o mortgage	\$	50,833			

Median Housing Costs						
		Monthly		Annual		
All-occupied	\$	950	\$	11,400		
Gross rent	\$	812	\$	9,744		
Owner-occupied	\$	1,084	\$	13,008		
Housing units w/ mortgage	\$	1,463	\$	17,556		
Housing units w/out a mortgage	\$	405	\$	4,860		

Avg % of Median Income Spent on Energy 7.6%







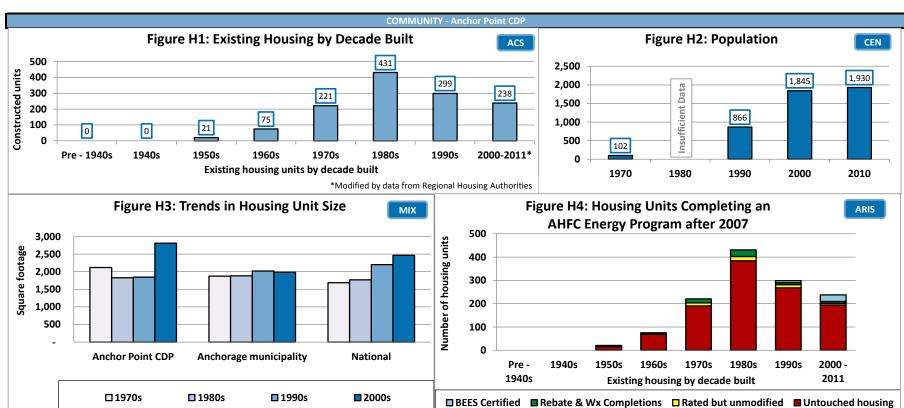
Community Profile for: Anchor Point CDP

ANCSA Region Cook Inlet Regional (CIRI)

Regional Housing Authority: Cook Inlet Housing Authority

BEES Climate Zone (Heating Degree Days)

Zone 7 (10,115 HDD)



Houses Lacking Complete	Households			
Plumbing or Kitchen Facilities	Number	Percent		
Lack complete plumbing	155	16%		
Lack complete kitchen	81	8%		

Estimated Total Annual Community Space Heating Fuel Use						
Fuel Oil 649,273 (gall						
Nat Gas	-	(ccf)				
Electricity	1,210,235	(kWh)				
Wood	2,714	(cords)				
Propane	95,664	(gallons)				
Coal	13	(tons)				

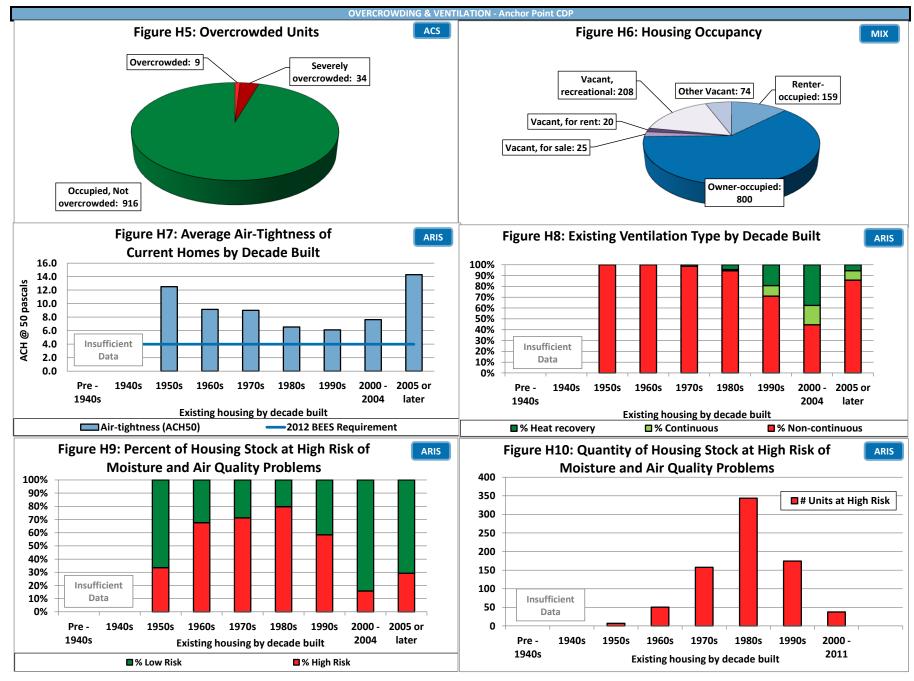
Avg Annual Energy Cost with PCE	NO PCE
Avg Annual Energy Cost without PCE	\$6,238

Estimated Energy Prices as of January 2013						
#1 Fuel oil cost (\$ / gallon)	\$3.85					
Electricity with PCE (\$/kWh)	No PCE					
Electricity cost without PCE (\$/kWh)	\$0.15					
Natural gas base rate	\$0.11					
Natural gas fuel charge	\$0.57					
Natural gas customer charge	\$13.50					

Weatherization Program Retrofits					
(funding increased in 2008)					
Date Range Units					
2008-2011	19				
2003-2007	15				
1990-2002	77				

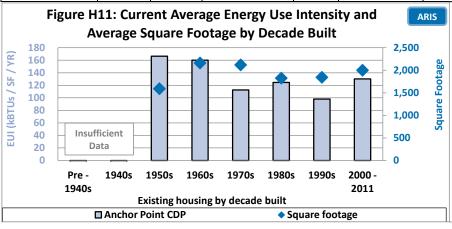
Housing Stock Estimates	Number of Units
All Housing	1285
All Occupied Housing	959
All Vacant housing	326
Vacant Housing for Sale or Rent	45

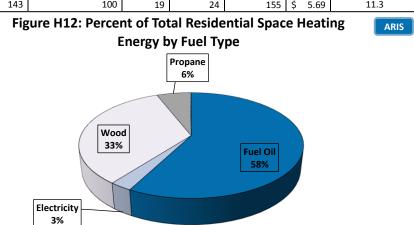






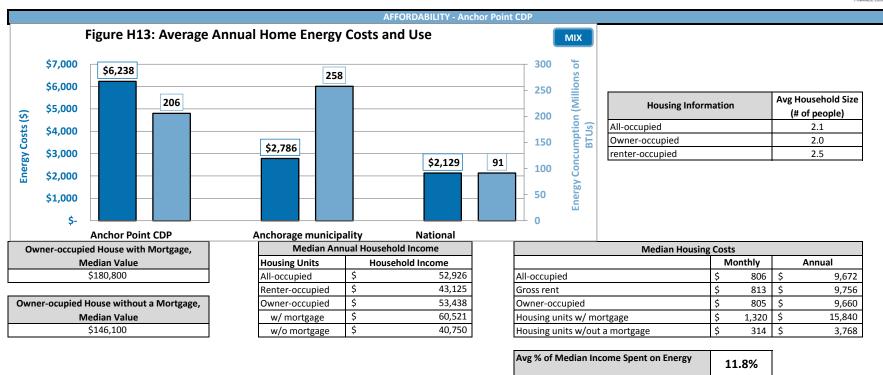
	ENERGY - Anchor Point CDP													
Current Anchor Point CDP Housing Energy Characteristics By Decade Built														
Current Residential	Number of Records	Avg Energy Rating Stars	Avg Energy Rating	Avg Sq. Feet	Avg. Annual Energy Cost	Avg. Annual	Avg Ann Energy by End Use (million Btus)			Avg. EUI	Avg. ECI	Avg. Home Heating		
Units by Year Built			Points			Energy Use (million BTUs)	Space Heating	DHW	Appliances	(kBTUS/SF)	(\$ / SF)	Index		
OVERALL	214	2-star plus	67.8	1,962	\$ 6,238	206	147	25	33	122	\$ 3.68	9.1		
Pre- 1940	0	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	10	2-star	50.3	1,591	\$ 6,273	245	201	18	27	167	\$ 4.00	13.7		
1960- 69	8	1-star plus	49.2	2,162	\$ 8,095	308	252	26	30	160	\$ 3.75	13.4		
1970- 79	48	2-star plus	63.1	2,120	\$ 6,994	226	170	26	30	113	\$ 3.49	8.6		
1980- 89	76	3-star	69.9	1,826	\$ 5,772	215	154	27	34	125	\$ 3.50	9.3		
1990- 99	40	3-star plus	77.4	1,844	\$ 5,948	176	114	25	32	98	\$ 3.45	6.8		
2000- 2004	26	2-star plus	66.3	2,810	\$ 6,902	190	135	20	35	115	\$ 3.28	8.8		
2005 or later	25	2-star plus	60.3	1,158	\$ 4,953	143	100	19	24	155	\$ 5.69	11.3		

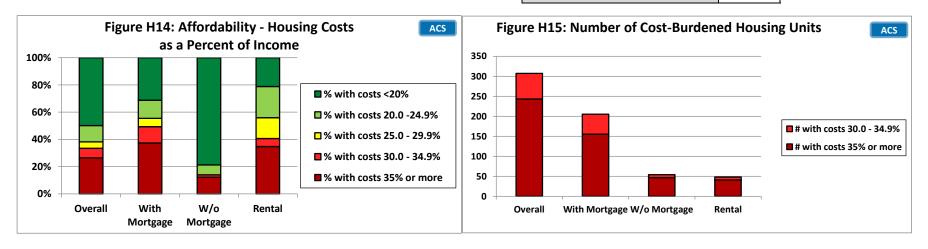




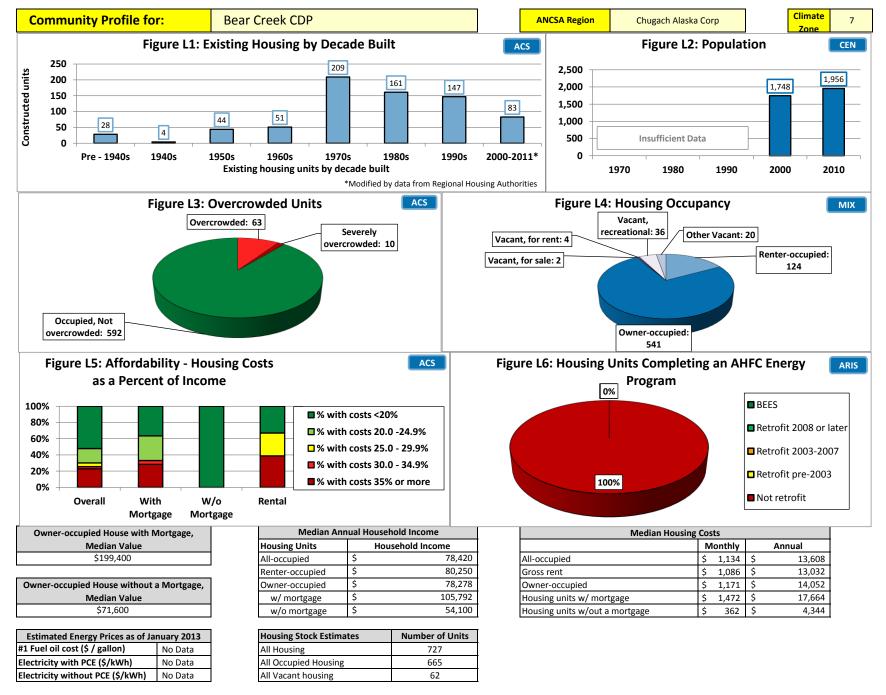
Current Anchor Point CDP Housing Envelope Characteristics By Decade Built													
Current Residential Units by Year Built	Number of Records	ACH 50	Ceiling R	Above Grade Wall	Below Grade Wall	Above Grade Floor R	On Grade Floor R	Below Grade Floor R	Door U	Garage Door U	Window U		
OVERALL	214	8.0	24	14	7	18	3	3	0.38	0.26	0.53		
Pre- 1940	0	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	10	12.5	19	9	3	NR	2	2	0.60	NR	0.61		
1960- 69	8	9.1	18	13	4	13	NR	2	0.42	NR	0.63		
1970- 79	48	9.0	18	13	7	20	3	3	0.42	0.27	0.57		
1980- 89	76	6.5	26	14	10	20	3	3	0.38	0.27	0.56		
1990- 99	40	6.1	32	16	9	26	4	3	0.28	0.22	0.44		
2000- 2004	26	7.6	26	15	18	16	9	3	0.30	0.18	0.42		
2005 or later	25	14.3	27	12	5	12	3	4	0.39	0.15	0.46		
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		



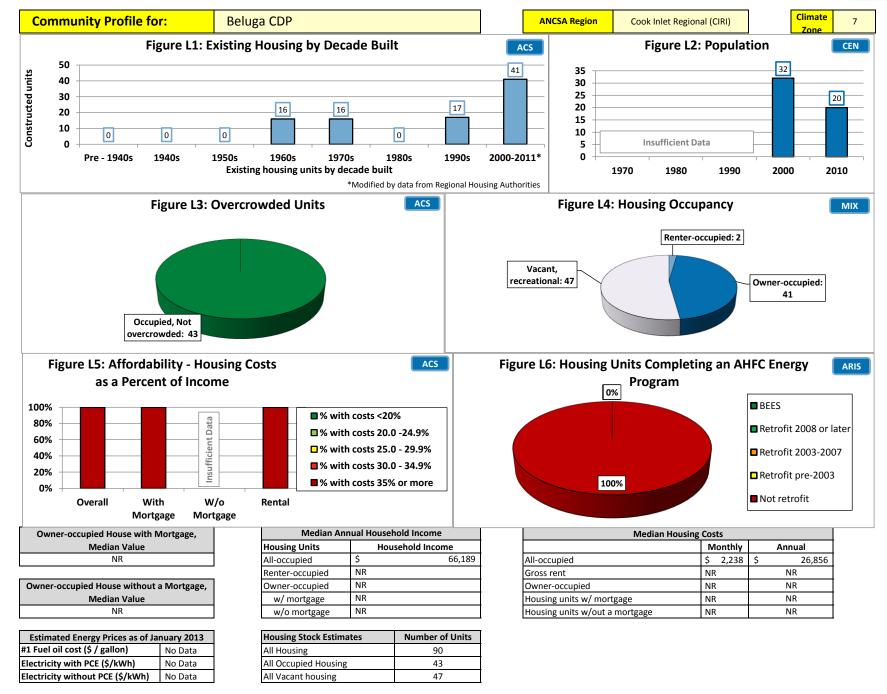














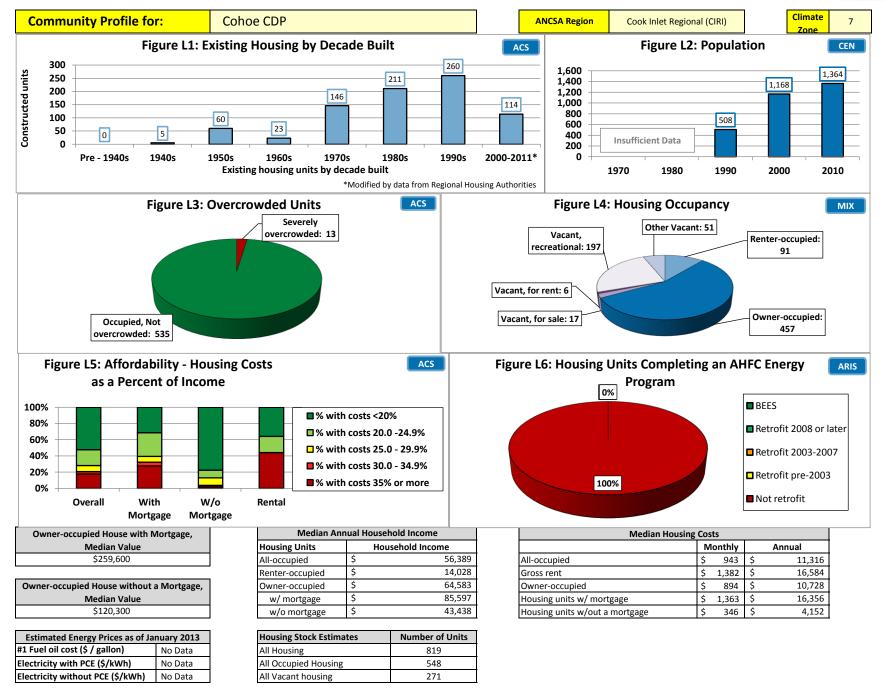
Community Profile for: Clam Gulch CDP **ANCSA Region** Cook Inlet Regional (CIRI) **Regional Housing Authority BEES Climate Zone (Heating Degree Days)** Cook Inlet Housing Authority Zone 7 (11,375 HDD) Figure M1: Existing housing by decade built Figure M2: Population CEN ACS 35 200 173 176 30 Constructed units 25 25 Insufficient Data 150 19 20 15 100 79 10 5 0 0 0 50 0 Pre - 1940s 1960s 1970s 1980s 2000-2011* 1940s 1950s 1990s Existing housing units by decade built 1970 1980 1990 2000 2010 *Modified by data from Regional Housing Authorities Figure M3: Overcrowded Units Figure M4: Housing Occupancy MIX ACS Other Vacant: 10 Owner-occupied: 48 Vacant, recreational: 43 Occupied, Not overcrowded: 48 Vacant, for rent: 1 **Clam Gulch CDP Housing Energy Characteristics Avg Energy Rating Residential Unit** Number of **Avg Energy Rating** Avg Sq. Avg. Ann Energy Avg. Ann Energy Avg. EUI Avg. Home Heating % Tight Homes, No Avg. ECI Categories records Stars **Points** Feet Cost Use (million BTUs) (kBTUS/SF Index Ventilation Pre-retrofit units 3-star 72.8 \$ 5,366 245 11.8 53% 1,888 \$3.31 19 164 Retrofit units 79.7 1,975 4,997 197 8.2 53% 12 4-star \$ 121 \$2.90 5-star New construction 4 90.4 1,804 4,243 135 80 \$2.52 4.2 0% Overall 35 74.3 1,895 \$ 5,279 235 156 \$3.23 11.1 51% 3-star plus

Clam Gulch 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			Above Grade Wall K	R	R				Door U	U	
Pre-retrofit units	19	6.4	31	14	8	22	3	2	0.37	NR	0.45	
Retrofit units	12	5.9	33	13	13	36	4	3	0.36	NR	0.45	
New construction	4	2.2	47	18	22	NR	NR	7	0.24	NR	0.35	
Overall	35	6.2	32	14	8	24	3	3	0.36	0.18	0.45	
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	

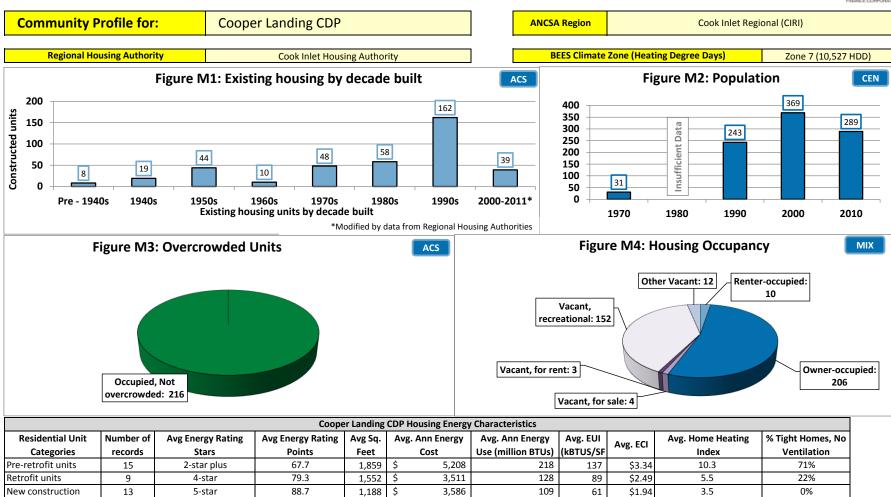






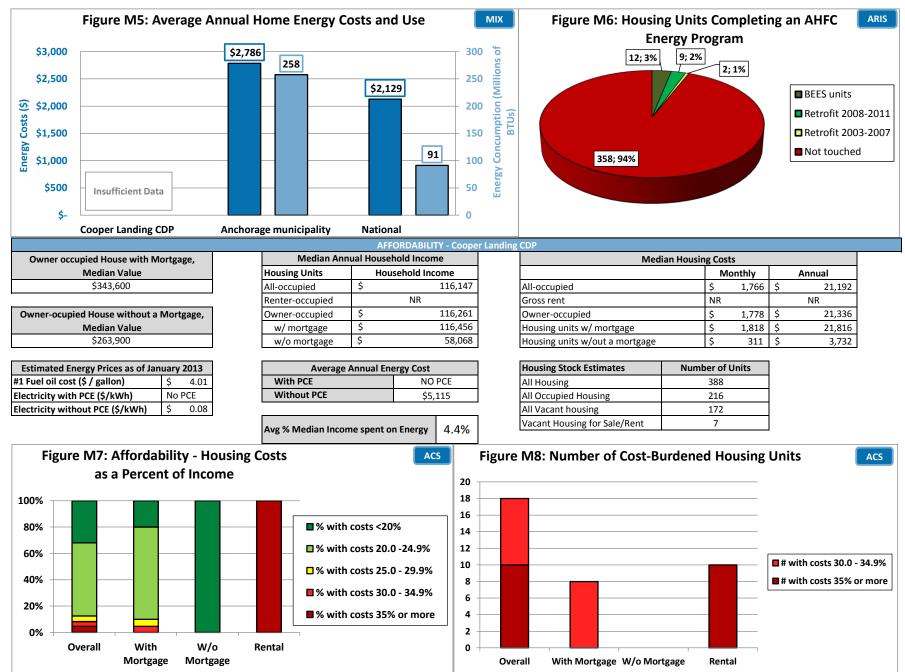




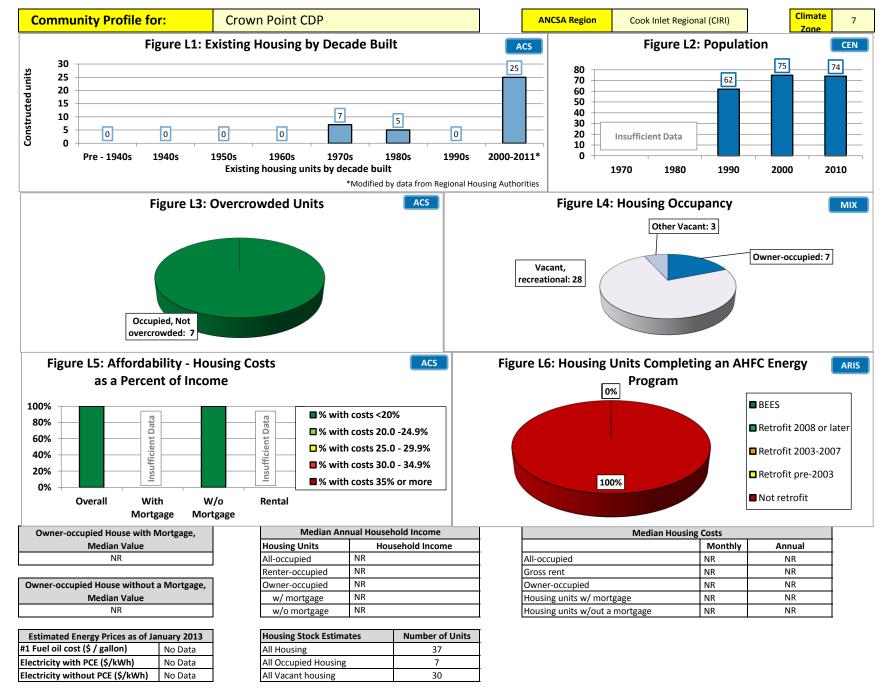


Cooper Landing CDP Housing Envelope Characteristics												
Residential Unit	Number of	ACH 50	Ceiling R	Above Grade Wall R	Below Grade Wall	Above Grade Floor	ove Grade Floor R R	Below Grade Floor R	Door U	Garage	Window	
Categories	Records	7101100	Coming it		R	R				Door U	U	
Pre-retrofit units	15	7.1	20	13	5	22	4	3	0.42	0.17	0.52	
Retrofit units	9	6.3	35	14	19	NR	NR	5	0.26	NR	0.44	
New construction	13	2.3	47	22	22	NR	NR	3	0.18	NR	0.28	
		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		4.0	43	25	15	38	15	15	0.30	0.30	0.30	

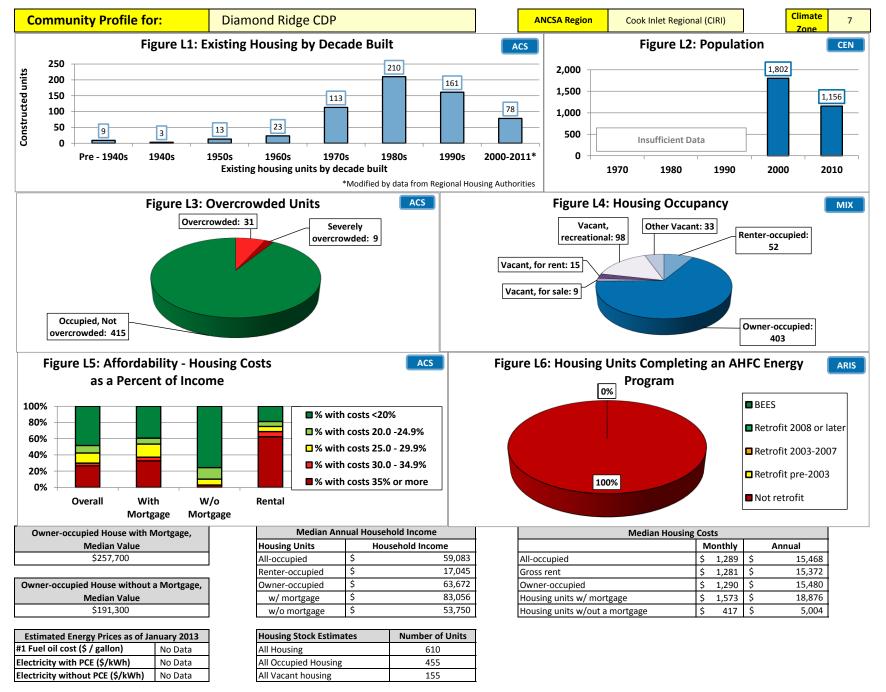




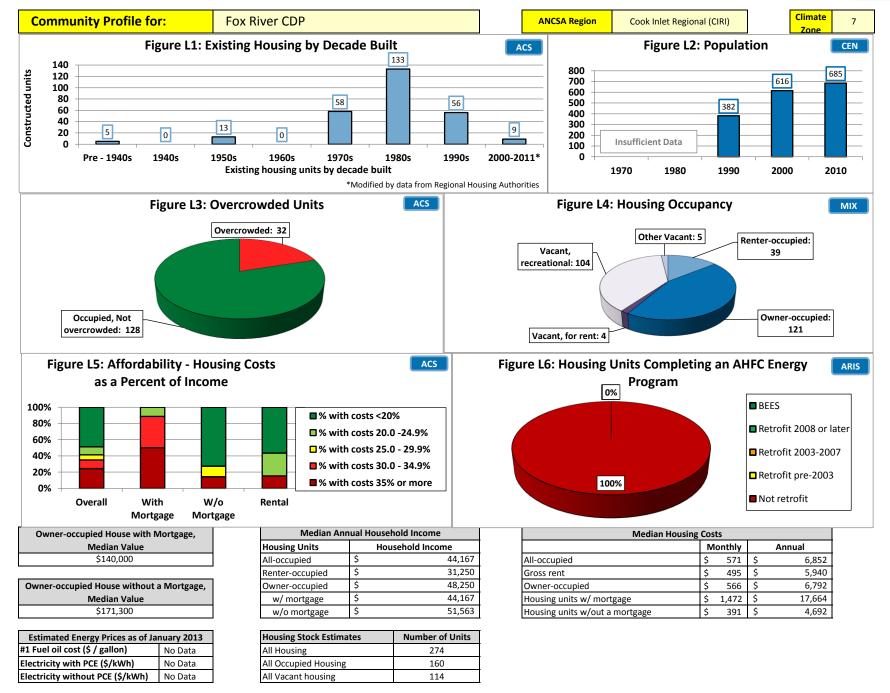




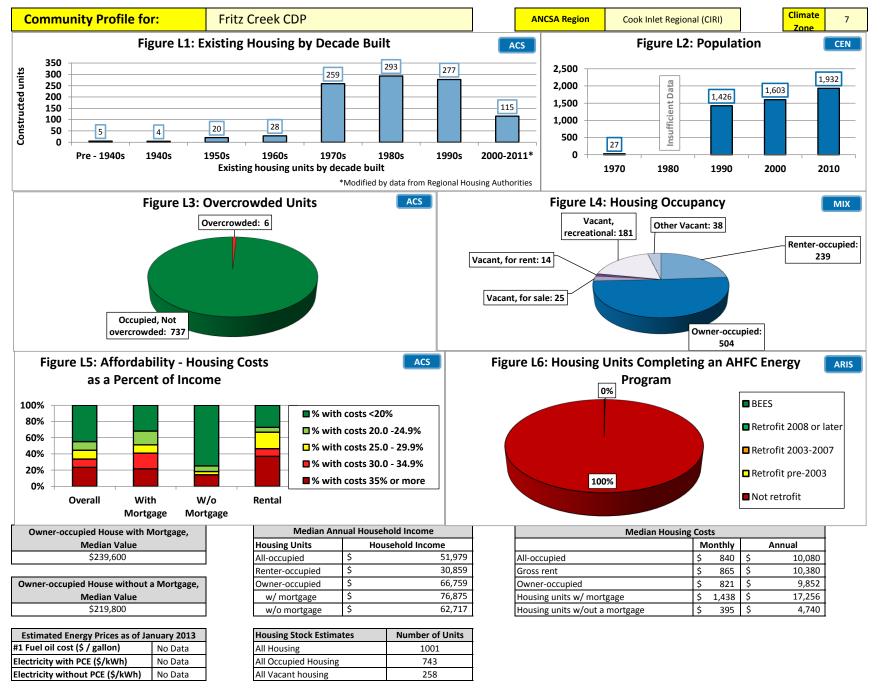




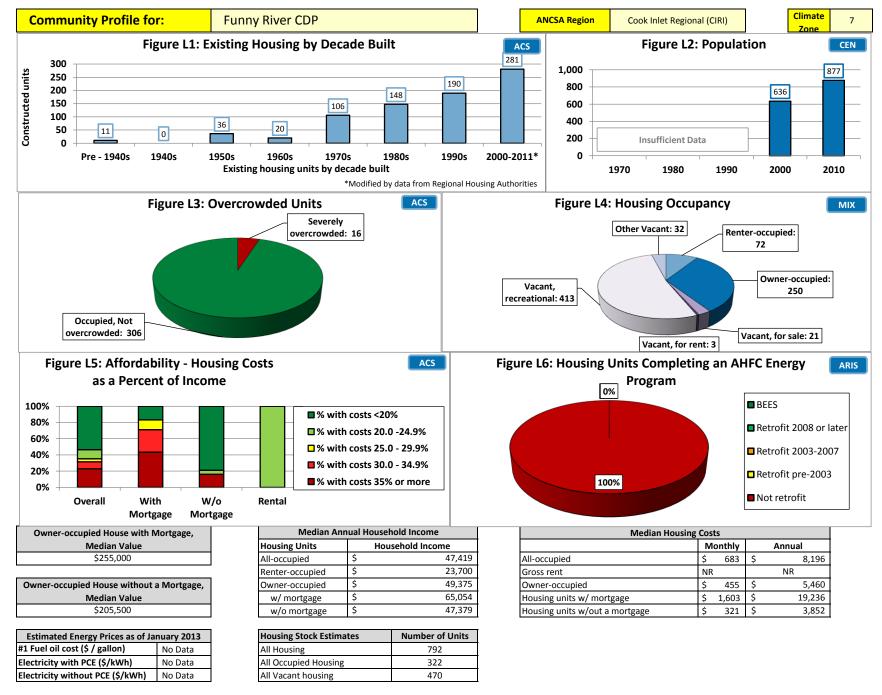




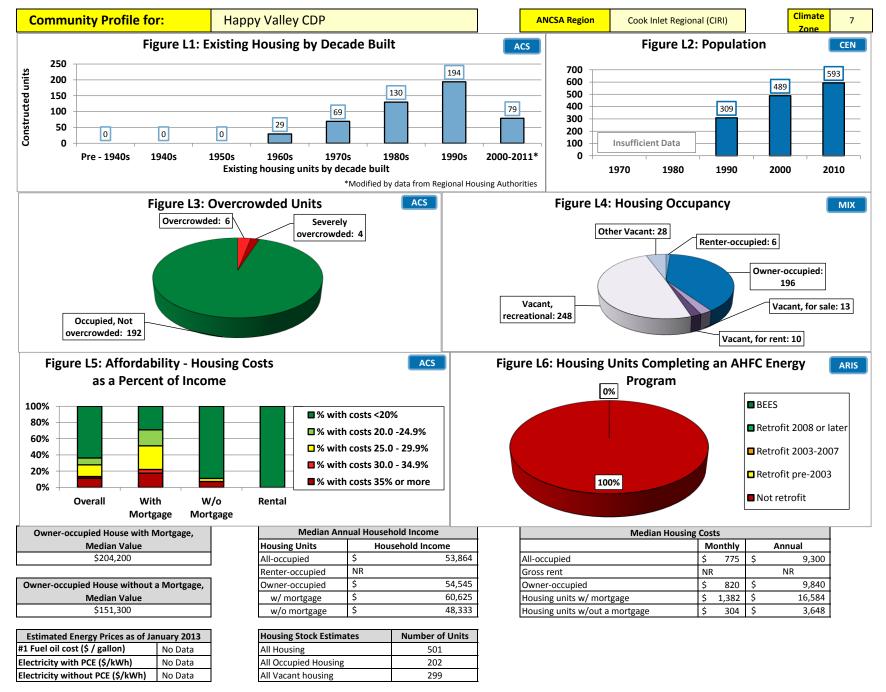














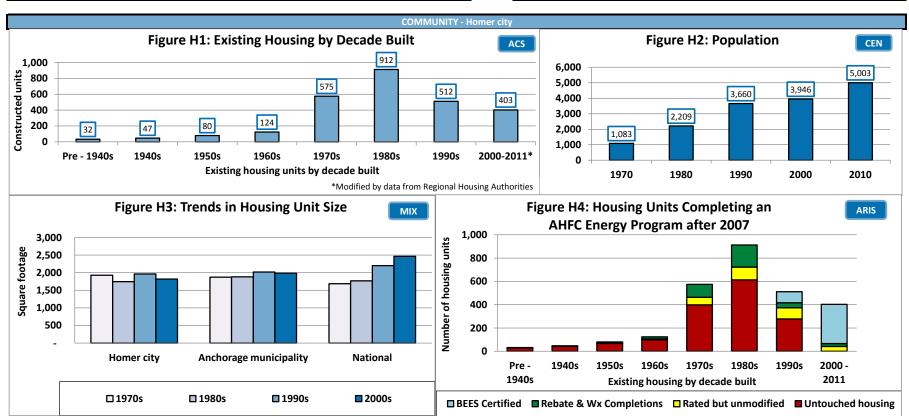
Community Profile for: Homer city

ANCSA Region Cook Inlet Regional (CIRI)

Regional Housing Authority: Cook Inlet Housing Authority

BEES Climate Zone (Heating Degree Days)

Zone 7 (10,349 HDD)



Houses Lacking Complete	Households				
Plumbing or Kitchen Facilities	Number	Percent			
Lack complete plumbing	113	5%			
Lack complete kitchen	126	6%			

Estimated Total Annual Community Space Heating Fuel Use									
Fuel Oil	1,344,428	(gallons)							
Nat Gas	-	(ccf)							
Electricity	4,989,436	(kWh)							
Wood	2,498	(cords)							
Propane	312,190	(gallons)							
Coal	169	(tons)							

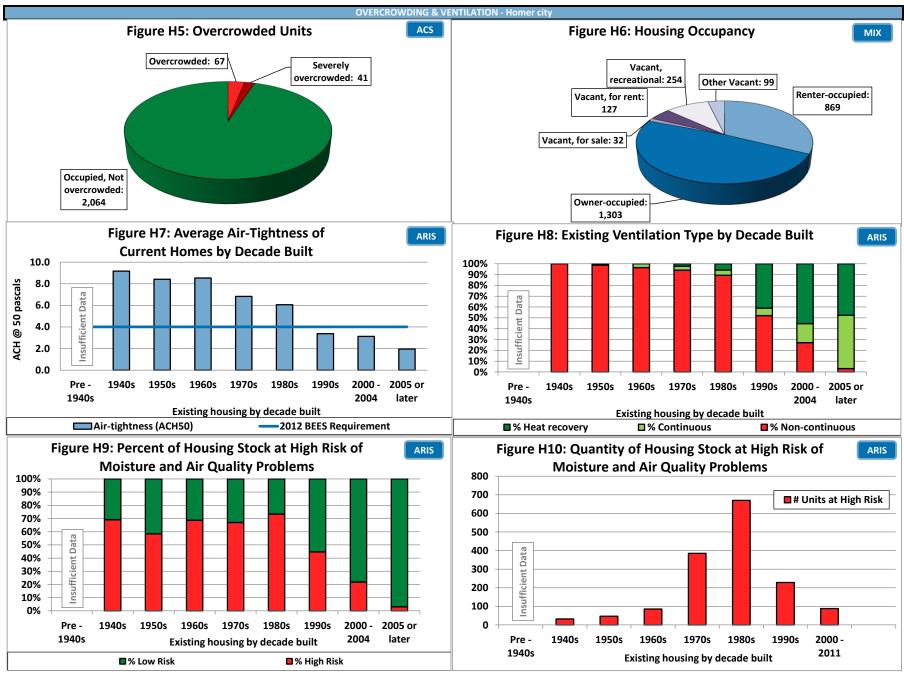
Avg Annual Energy Cost with PCE	NO PCE
Avg Annual Energy Cost without PCE	\$5,999

Estimated Energy Prices as	s of January 2013
#1 Fuel oil cost (\$ / gallon)	\$4.12
Electricity with PCE (\$/kWh)	No PCE
Electricity cost without PCE (\$/kWh)	\$0.15

Weatherization Program Retrofits					
(funding increased in 2008)					
Date Range	Units				
2008-2011	127				
2003-2007	37				
1990-2002	174				

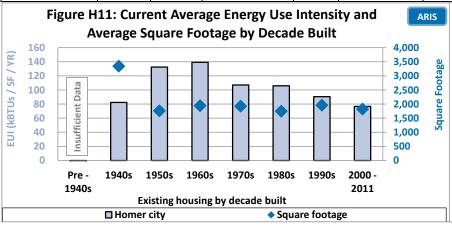
Housing Stock Estimates	Number of Units
All Housing	2684
All Occupied Housing	2172
All Vacant housing	512
Vacant Housing for Sale or Rent	159

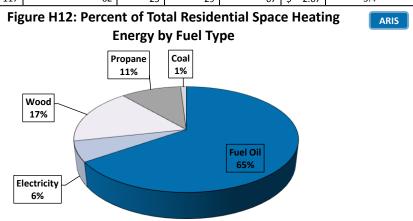






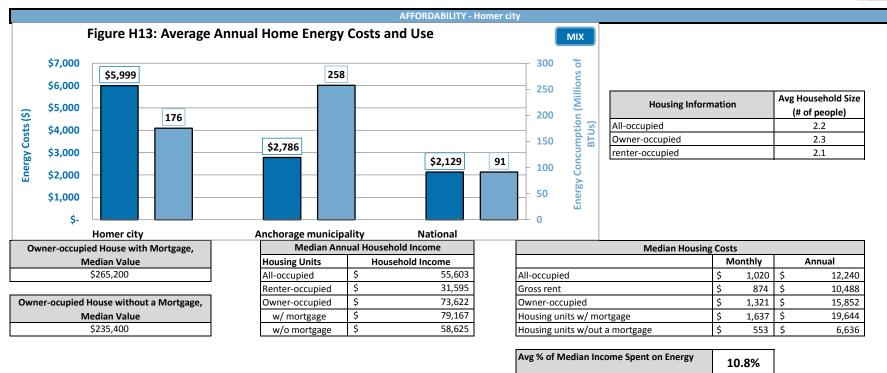
	ENERGY - Homer city											
	Current Homer city Housing Energy Characteristics By Decade Built											
Current Residential	Number of	Avg Energy	Avg Energy Rating	Avg Sq.	Avg. Annual	Avg. Annual	Avg Ann Energy by	End Use (m	illion Btus)	Avg. EUI	Avg. ECI	Avg. Home Heating
Units by Year Built	Records	Rating Stars	Points	Feet	Energy Cost	Energy Use (million BTUs)	Space Heating	DHW	Appliances	(kBTUS/SF)	(\$ / SF)	Index
OVERALL	1,430	3-star plus	74.4	1,879	\$ 5,999	176	116	24	30	100	\$ 3.54	6.8
Pre- 1940	4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1940- 49	8	3-star	68.5	3,346	\$ 8,836	272	202	31	39	82	\$ 2.58	6.0
1950- 59	20	2-star	55.3	1,763	\$ 6,968	221	163	26	33	132	\$ 4.85	9.4
1960- 69	43	2-star	57.6	1,944	\$ 7,144	245	190	24	31	139	\$ 4.94	10.8
1970- 79	288	2-star plus	67.9	1,927	\$ 6,483	193	141	21	30	107	\$ 3.66	7.7
1980- 89	489	3-star	72.0	1,747	\$ 5,927	174	122	22	29	106	\$ 3.68	7.4
1990- 99	275	4-star	82.5	1,962	\$ 5,601	158	84	20	24	91	\$ 3.39	5.8
2000- 2004	216	4-star plus	87.0	1,817	\$ 5,187	142	82	29	31	84	\$ 3.11	5.0
2005 or later	214	5-star	91.8	1,829	\$ 4,558	117	62	25	29	67	\$ 2.67	3.4

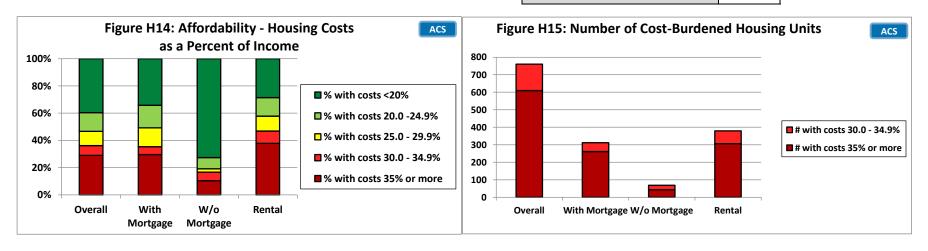




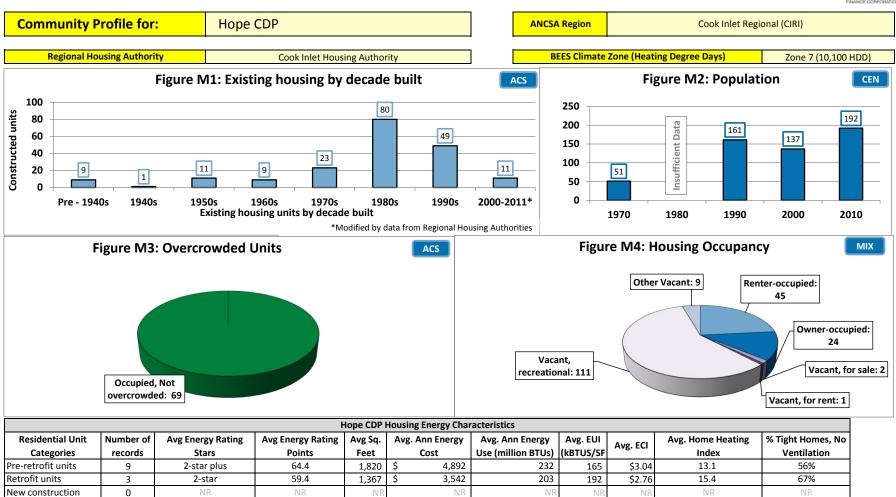
	Current Homer city Housing Envelope Characteristics By Decade Built										
Current Residential Units by Year Built	Number of Records	ACH 50	Ceiling R	Above Grade Wall	Below Grade Wall	Above Grade Floor R	On Grade Floor R	Below Grade Floor R	Door U	Garage Door U	Window U
OVERALL	1,430	5.5	28	15	9	21	3	3	0.32	0.26	0.49
Pre- 1940	4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1940- 49	8	9.2	11	12	3	NR	NR	2	0.58	NR	0.57
1950- 59	20	8.4	20	10	5	13	3	2	0.44	NR	0.56
1960- 69	43	8.5	14	9	5	19	3	2	0.42	0.35	0.66
1970- 79	288	6.8	23	13	8	22	3	3	0.33	0.26	0.54
1980- 89	489	6.1	28	15	9	18	3	3	0.35	0.31	0.54
1990- 99	275	3.4	43	21	14	30	5	5	0.24	0.16	0.36
2000- 2004	216	3.1	40	17	16	23	6	4	0.27	0.17	0.37
2005 or later	214	2.0	51	20	22	41	8	4	0.25	0.16	0.32
-										•	
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









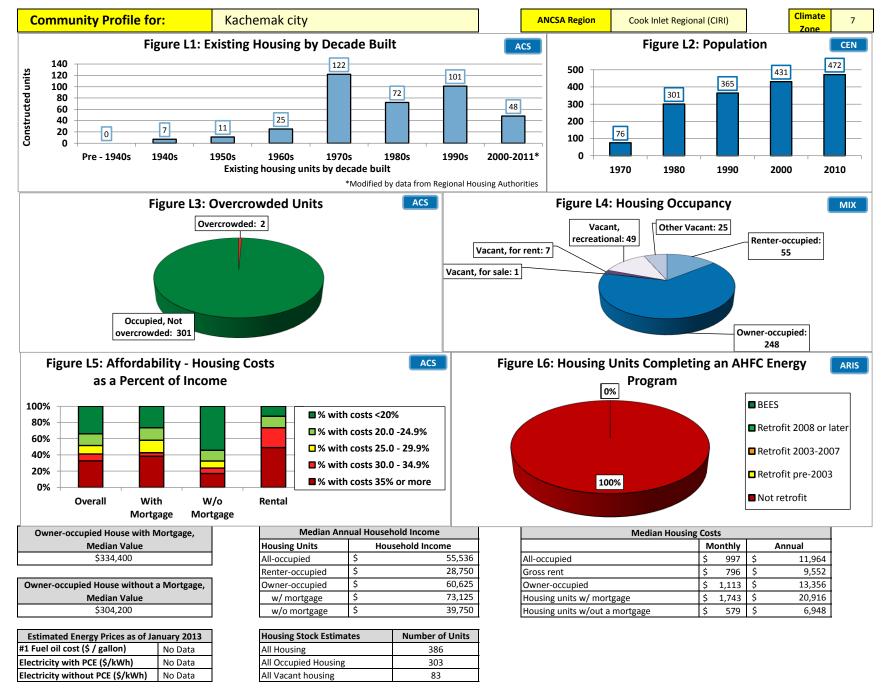


	Hope CDP Housing Envelope Characteristics										
Residential Unit	Number of	ACH 50	Cailing B	Above Grade Wall R	Below Grade Wall	Above Grade Floor	On Grade Floor R	Below Grade Floor R	Door U	Garage	Window
Categories	Records	ACH 30	Cennig K	Above Grade Wall K	R	R	On Grade Floor K	Delow Grade Floor R	Door o	Door U	U
Pre-retrofit units	9	7.4	28	11	10	NR	3	3	0.31	NR	0.51
Retrofit units	3	4.3	36	13	NR	NR	NR	NR	0.22	NR	0.41
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

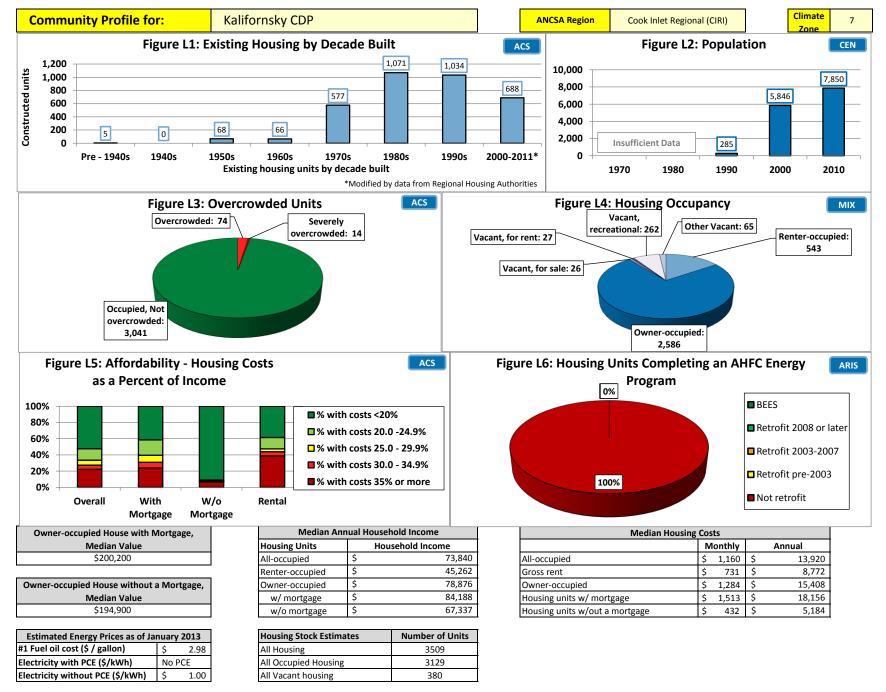




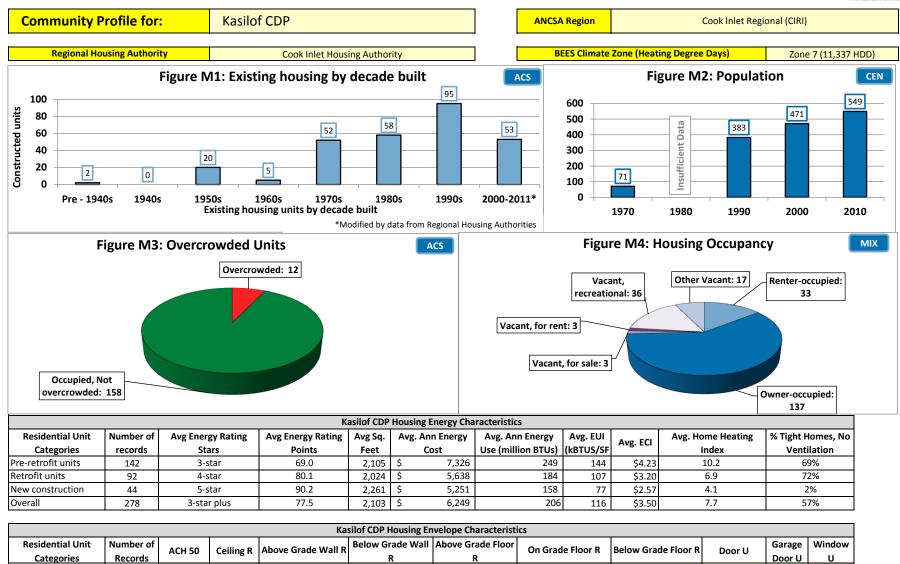












	Kasilof CDP Housing Envelope Characteristics													
Residential Unit	Number of	ACH 50	Ceiling R	Above Grade Wall R	Below Grade Wall	Above Grade Floor	On Grado Floor P	On Grado Floor P	Floor On Grade Floor P	e Grade Floor On Grade Floor R	Below Grade Floor R	Door U	Garage	Window
Categories	Records	ACH 30	Cennig K	Above Grade Wall K	R	R	Oli diade riooi k	Delow Grade Floor It	D001 0	Door U	U			
Pre-retrofit units	142	9.1	25	14	6	15	3	3	0.37	0.30	0.51			
Retrofit units	92	6.4	32	14	12	21	3	3	0.28	0.26	0.46			
New construction	44	2.6	45	17	21	32	6	3	0.22	0.17	0.31			
Overall	278	6.8	30	14	9	17	3	3	0.31	0.26	0.45			
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			







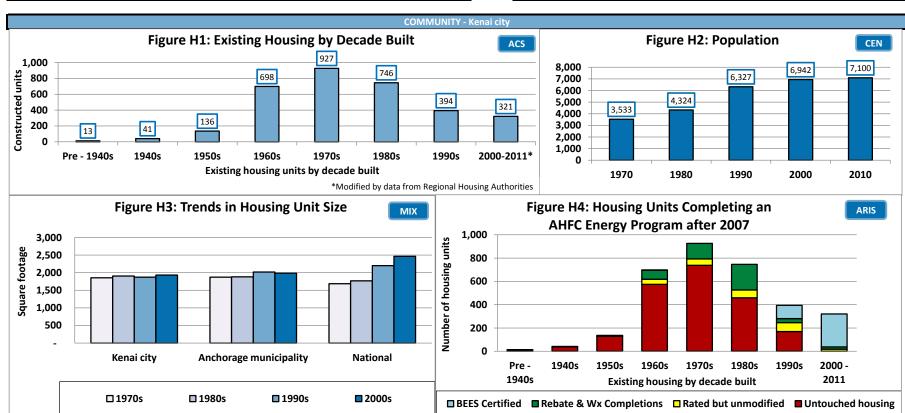
Community Profile for: Kenai city

ANCSA Region Cook Inlet Regional (CIRI)

Regional Housing Authority:

Cook Inlet Housing Authority

BEES Climate Zone (Heating Degree Days) Zone 7 (11,395 HDD)



Houses Lacking Complete	Households				
Plumbing or Kitchen Facilities	Number	Percent			
Lack complete plumbing	99	3%			
Lack complete kitchen	93	3%			

Estimated Total Annual Community Space Heating Fuel Use								
Fuel Oil	84,526	(gallons)						
Nat Gas	5,507,736	(ccf)						
Electricity	2,298,698	(kWh)						
Wood	820	(cords)						
Propane	9,967	(gallons)						
Coal	-	(tons)						

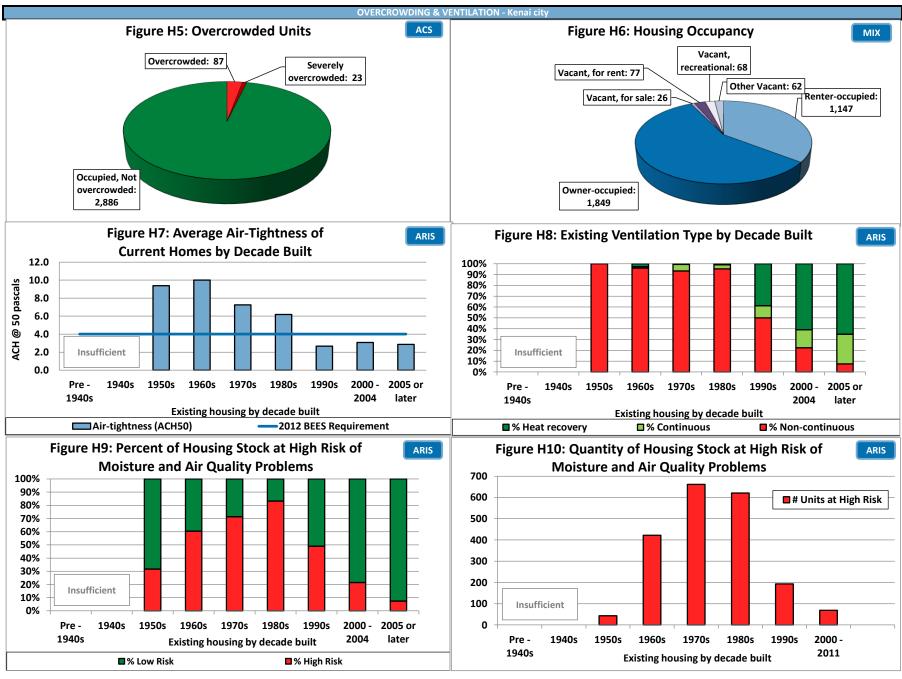
Avg Annual Energy Cost with PCE	NO PCE
Avg Annual Energy Cost without PCE	\$3,000

Estimated Energy Prices as of January 2013							
#1 Fuel oil cost (\$ / gallon)	\$3.76						
Electricity with PCE (\$/kWh)	No PCE						
Electricity cost without PCE (\$/kWh)	\$0.15						
Natural gas base rate	\$0.11						
Natural gas fuel charge	\$0.57						
Natural gas customer charge	\$13.50						

Weatherization Program Retrofits				
(funding increased in 2008)				
Date Range	Units			
2008-2011	153			
2003-2007	69			
1990-2002	199			

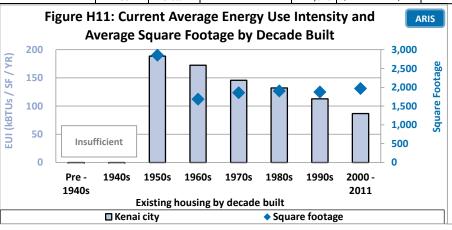
Housing Stock Estimates	Number of Units
All Housing	3230
All Occupied Housing	2996
All Vacant housing	234
Vacant Housing for Sale or Rent	104

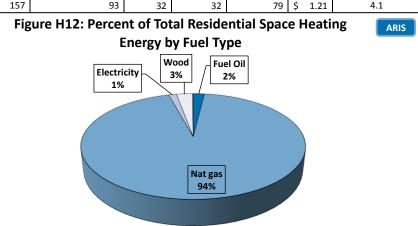






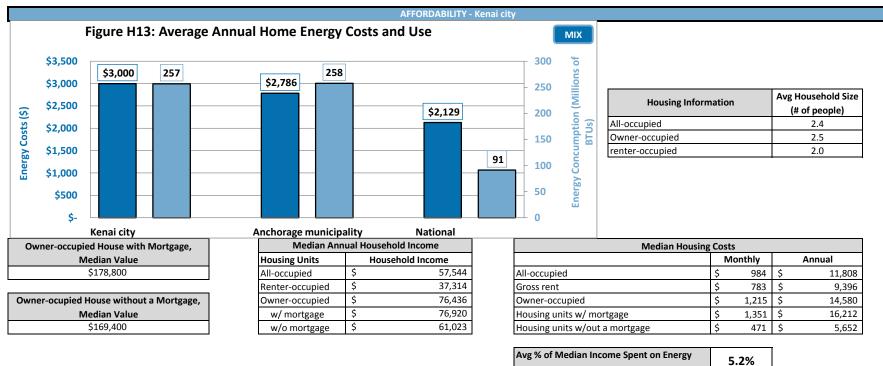
					ENI	ERGY - Kenai city						
	Current Kenai city Housing Energy Characteristics By Decade Built											
Current Residential	Number of	Avg Energy	Avg Energy Rating	Avg Sq.	Avg. Annual	Avg. Annual	Avg Ann Energy by	End Use (m	illion Btus)	Avg. EUI	Avg. ECI	Avg. Home Heating
Units by Year Built	Records	Rating Stars	Points	Feet	Energy Cost	Energy Use (million BTUs)	Space Heating	DHW	Appliances	(kBTUS/SF)	(\$ / SF)	Index
OVERALL	1,496	3-star	71.5	1,892	\$ 3,000	257	182	34	32	135	\$ 1.66	8.8
Pre- 1940	3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1940- 49	4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1950- 59	12	1-star plus	45.1	2,855	\$ 5,152	509	433	38	38	189	\$ 1.88	14.2
1960- 69	202	2-star plus	60.3	1,686	\$ 3,012	276	210	35	31	172	\$ 1.97	11.7
1970- 79	325	3-star	69.1	1,856	\$ 3,071	274	207	35	32	146	\$ 1.67	9.8
1980- 89	504	3-star plus	75.2	1,904	\$ 3,043	249	182	34	32	132	\$ 1.64	8.7
1990- 99	261	4-star plus	83.6	1,875	\$ 2,567	199	98	23	21	113	\$ 1.48	6.6
2000- 2004	181	4-star plus	87.5	1,932	\$ 2,400	166	102	33	32	93	\$ 1.36	5.1
2005 or later	159	5-star	90.3	2,010	\$ 2,389	157	93	32	32	79	\$ 1.21	4.1

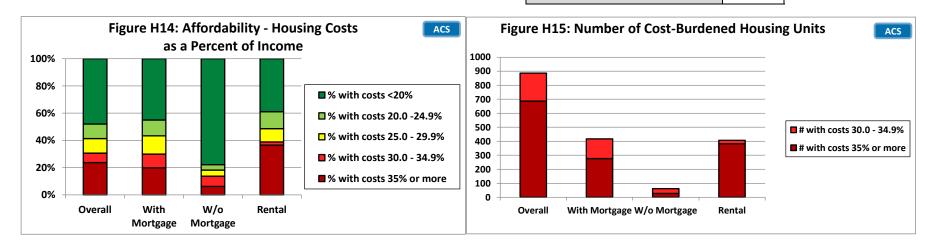




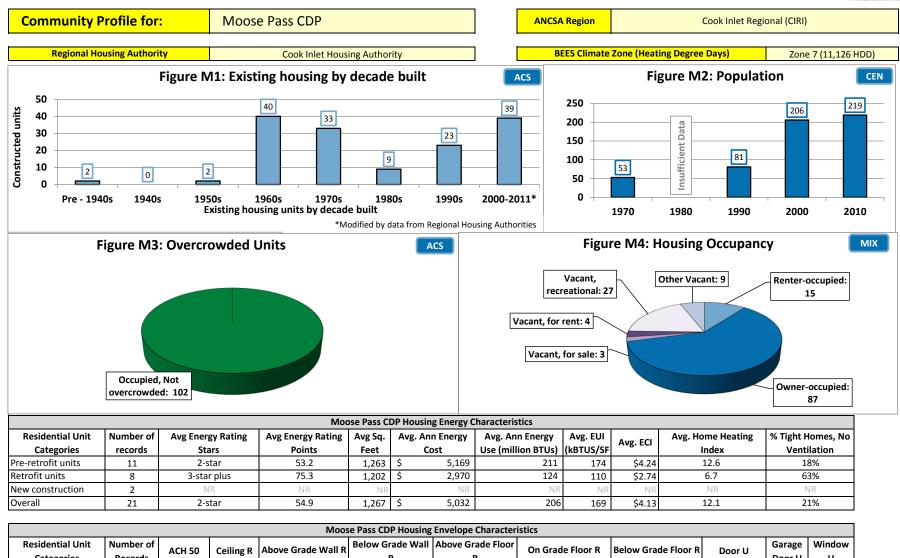
Current Kenai city Housing Envelope Characteristics By Decade Built											
Current Residential Units by Year Built	Number of Records	ACH 50	Ceiling R	Above Grade Wall	Below Grade Wall R	Above Grade Floor R	On Grade Floor R	Below Grade Floor R	Door U	Garage Door U	Window U
OVERALL	1,496	6.4	27	14	6	20	3	3	0.34	0.28	0.48
Pre- 1940	3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1940- 49	4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1950- 59	12	9.4	18	10	2	11	NR	2	0.35	NR	0.56
1960- 69	202	10.0	22	10	3	17	2	2	0.48	0.31	0.59
1970- 79	325	7.2	22	12	6	17	3	3	0.36	0.32	0.53
1980- 89	504	6.2	29	15	6	21	3	3	0.35	0.29	0.48
1990- 99	261	2.7	52	23	12	38	4	4	0.18	0.16	0.28
2000- 2004	181	3.1	43	17	13	27	4	3	0.24	0.19	0.36
2005 or later	159	2.9	50	17	20	40	6	3	0.22	0.17	0.32
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





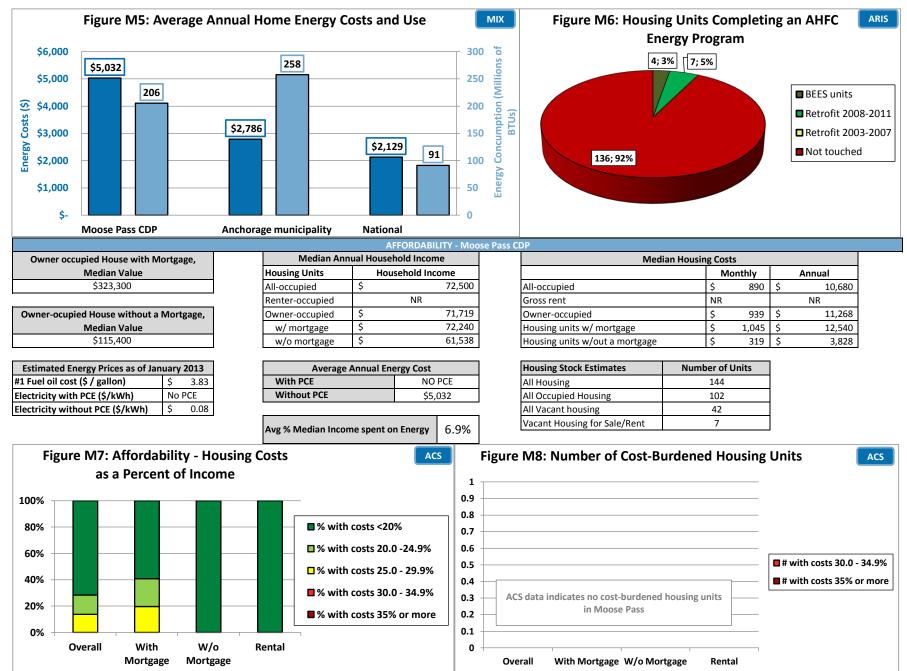






	Moose Pass CDP Housing Envelope Characteristics										
Residential Unit	Number of	ACH 50	Ceiling R	Above Grade Wall R	Below Grade Wall	Above Grade Floor	On Grade Floor R	ade Floor R Below Grade Floor R	Door U	Garage	Window
Categories	Records	ACIT 50	CCIIIIg IX	A LOCK C. G. G. G. C.	R	R	• · · • · · · · · · · · · · · · · · · ·	Delote Grade Floor K	D001 0	Door U	U
Pre-retrofit units	11	13.3	12	10	3	25	2	2	0.30	NR	0.61
Retrofit units	8	7.1	27	13	12	35	NR	NR	0.28	NR	0.39
New construction	2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Overall	21	12.8	12	10	3	25	3	2	0.30	NR	0.59
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







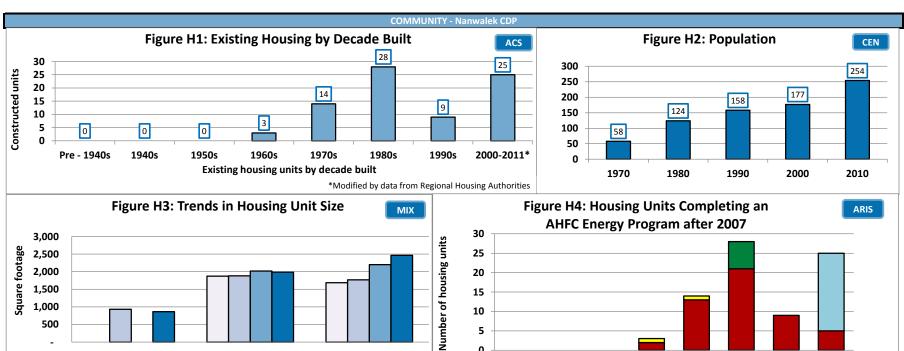
Community Profile for: Nanwalek CDP

Anchorage municipality

■1990s

ANCSA Region Chugach Alaska Corp

Regional Housing Authority: North Pacific Rim Housing Authority **BEES Climate Zone (Heating Degree Days)** Zone 7 (10,136 HDD)



10

5 0

Pre -

1940s

1940s

1950s

	□1970s	1 9)80s
	Lacking Complete or Kitchen Facilities	House Number	holds Percent
Lack comple	te plumbing	0	0%
Lack comple	te kitchen	0	0%

Nanwalek CDP

500

Estimated Total Annual Community Space Heating Fuel Use					
Fuel Oil	24,331	(gallons)			
Nat Gas	-	(ccf)			
Electricity	11,914	(kWh)			
Wood	54	(cords)			
Propane	712	(gallons)			
Coal	-	(tons)			

Avg Annual Energy Cost with PCE	NO PCE
Avg Annual Energy Cost without PCE	\$4,486

National

2000s

Estimated Energy Prices as of January 2013							
#1 Fuel oil cost (\$ / gallon)	\$5.77						
Electricity with PCE (\$/kWh)	No PCE						
Electricity cost without PCE (\$/kWh)	\$0.15						

Weatherization Program Retrofits				
(funding increased in 2008)				
Date Range	Units			
2008-2011	7			
2003-2007	-			
1990-2002	3			

1970s

Existing housing by decade built

■ BEES Certified ■ Rebate & Wx Completions ■ Rated but unmodified ■ Untouched housing

1980s

2000 -

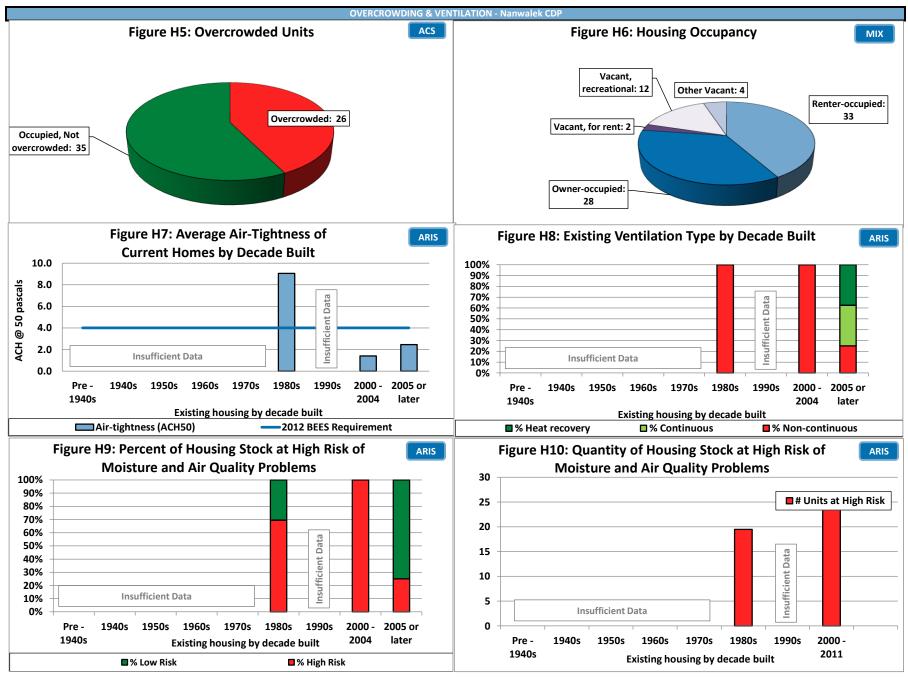
2011

1990s

1960s

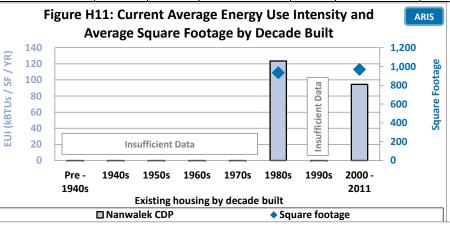
Housing Stock Estimates	Number of Units
All Housing	79
All Occupied Housing	61
All Vacant housing	18
Vacant Housing for Sale or Rent	2

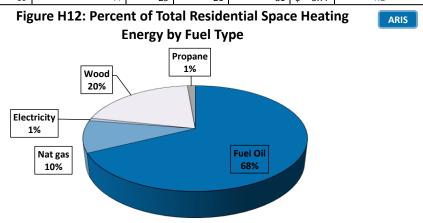






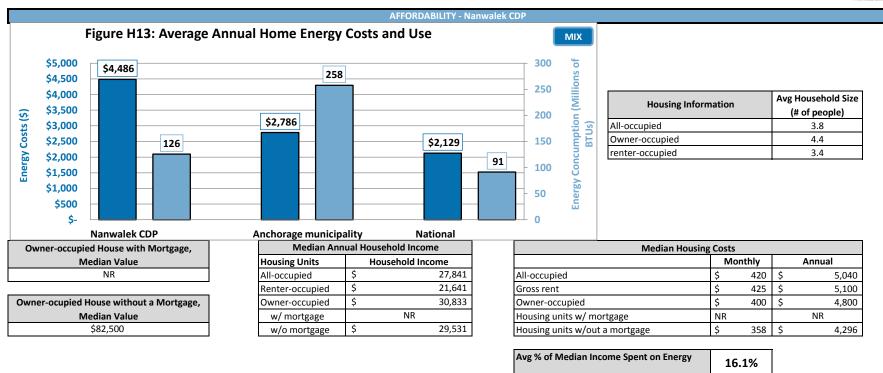
					ENER	GY - Nanwalek CDP						
	Current Nanwalek CDP Housing Energy Characteristics By Decade Built											
Current Residential	Number of	Avg Energy	Avg Energy Rating	Avg Sq.	Avg. Annual	Avg. Annual	Avg Ann Energy by	End Use (m	illion Btus)	Avg. EUI	Avg. ECI	Avg. Home Heating
Units by Year Built	Records	Rating Stars	Points	Feet	Energy Cost	Energy Use (million BTUs)	Space Heating	DHW	Appliances	(kBTUS/SF)	(\$ / SF)	Index
OVERALL	29	3-star plus	74.0	1,036	\$ 4,486	126	73	29	24	118	\$ 4.21	6.8
Pre- 1940	0	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	0	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1960- 69	1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1970- 79	2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1980- 89	13	3-star	72.7	934	\$ 3,974	115	63	31	22	124	\$ 4.32	6.7
1990- 99	0	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
2000- 2004	12	4-star plus	87.2	863	\$ 3,919	92	48	24	20	103	\$ 4.42	5.3
2005 or later	8	5-star	88.5	1,129	\$ 4,150	89	44	23	21	81	\$ 3.77	4.1

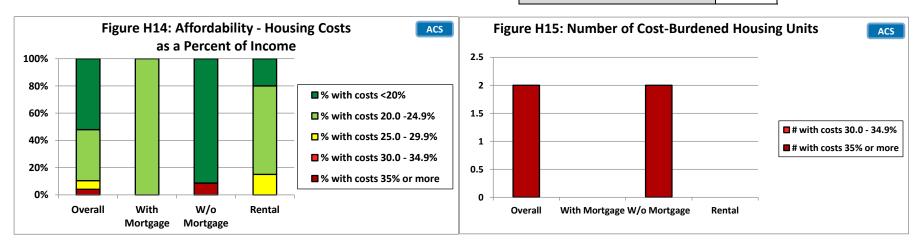




Current Nanwalek CDP Housing Envelope Characteristics By Decade Built											
Current Residential Units by Year Built	Number of Records	ACH 50	Ceiling R	Above Grade Wall R	Below Grade Wall R	Above Grade Floor R	On Grade Floor R	Below Grade Floor R	Door U	Garage Door U	Window U
OVERALL	29	6.7	34	19	4	24	NR	3	0.26	NR	0.44
Pre- 1940	0	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	0	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1960- 69	1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1970- 79	2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1980- 89	13	9.0	38	21	NR	41	NR	NR	0.25	NR	0.48
1990- 99	0	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
2000- 2004	12	1.4	40	18	13	NR	NR	2	0.26	NR	0.33
2005 or later	8	2.5	43	18	15	NR	NR	3	0.22	NR	0.29
	· · · · · · · · · · · · · · · · · · ·		·	·		-	-				
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









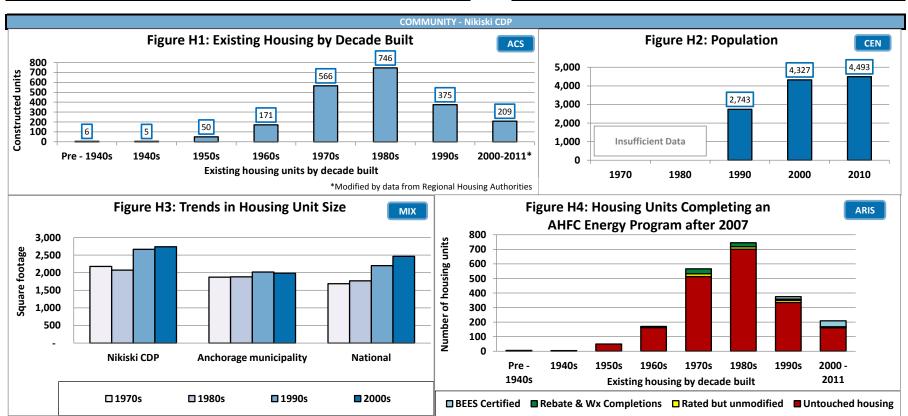
Community Profile for: Nikiski CDP

ANCSA Region Cook Inlet Regional (CIRI)

Regional Housing Authority:

Cook Inlet Housing Authority

BEES Climate Zone (Heating Degree Days) Zone 7 (10,899 HDD)



Houses Lacking Complete	Households				
Plumbing or Kitchen Facilities	Number	Percent			
Lack complete plumbing	112	6%			
Lack complete kitchen	119	7%			

Estimated Total Annual Community Space Heating Fuel Use									
Fuel Oil	718,932	(gallons)							
Nat Gas	2,218,894	(ccf)							
Electricity	2,465,969	(kWh)							
Wood	1,817	(cords)							
Propane	119,524	(gallons)							
Coal	-	(tons)							

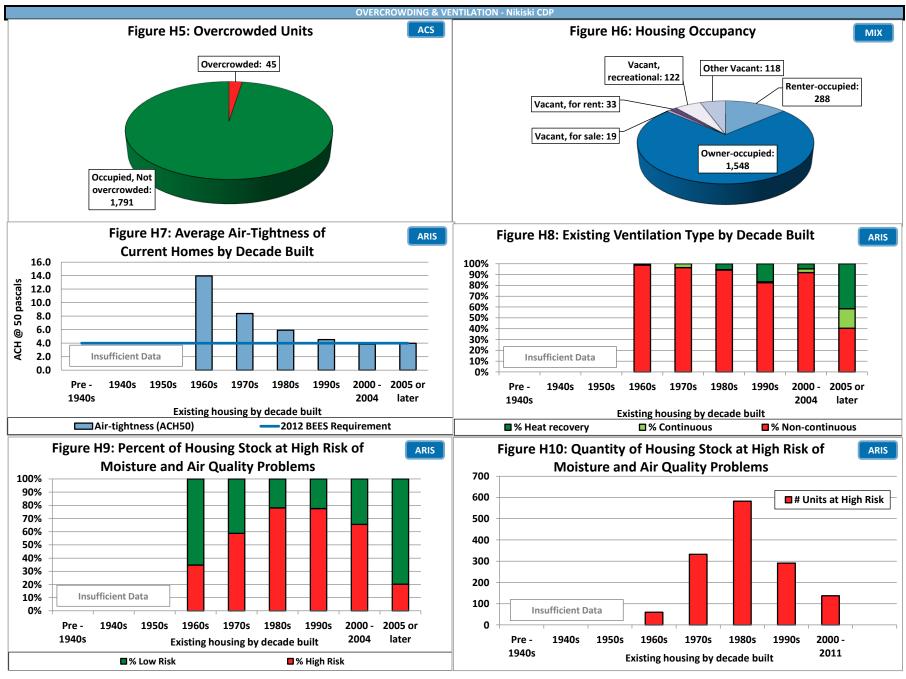
Avg Annual Energy Cost with PCE	NO PCE
Avg Annual Energy Cost without PCE	\$4,671

Estimated Energy Prices as	s of January 2013			
#1 Fuel oil cost (\$ / gallon)	\$3.66			
Electricity with PCE (\$/kWh)	No PCE			
Electricity cost without PCE (\$/kWh)	\$0.15			
Natural gas base rate	\$0.11			
Natural gas fuel charge	\$0.57			
Natural gas customer charge	\$13.50			

Weatherization Program Retrofits							
(funding increased in 2008)							
Date Range	Units						
2008-2011	16						
2003-2007	21						
1990-2002	37						

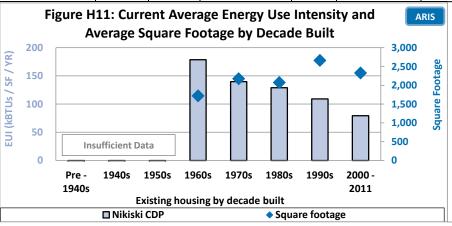
Housing Stock Estimates	Number of Units
All Housing	2128
All Occupied Housing	1836
All Vacant housing	292
Vacant Housing for Sale or Rent	52

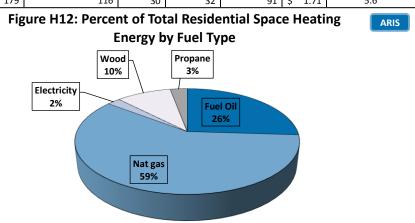






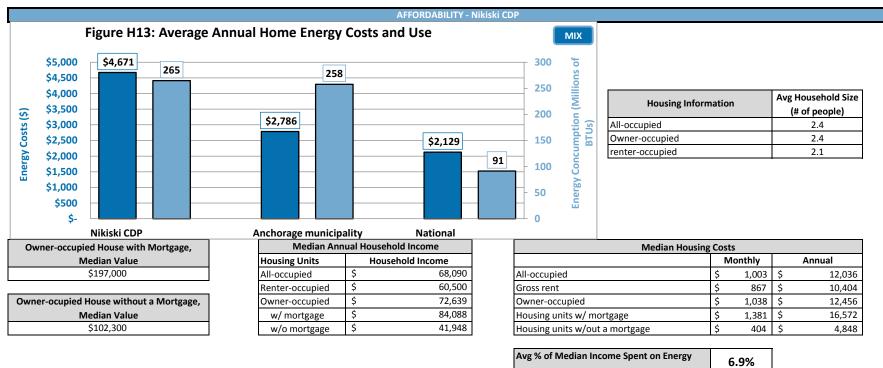
					ENE	RGY - Nikiski CDP						
	Current Nikiski CDP Housing Energy Characteristics By Decade Built											
Current Residential	Number of	Avg Energy	Avg Energy Rating	Avg Sq.	Avg. Annual	Avg. Annual Avg. Annual		End Use (m	illion Btus)	Avg. EUI	Avg. ECI	Avg. Home Heating
Units by Year Built	Records	Rating Stars	Points	Feet	Energy Cost	Energy Use (million BTUs)	Space Heating	DHW	Appliances	(kBTUS/SF)	(\$ / SF)	Index
OVERALL	254	3-star	71.2	2,228	\$ 4,671	265	195	34	34	130	\$ 2.25	9.2
Pre- 1940	0	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1940- 49	1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1950- 59	0	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1960- 69	13	2-star	51.2	1,720	\$ 5,894	290	229	29	31	179	\$ 3.28	13.1
1970- 79	89	2-star plus	65.3	2,176	\$ 4,560	294	231	31	32	140	\$ 2.22	10.2
1980- 89	71	3-star	72.5	2,074	\$ 4,400	263	199	32	31	129	\$ 2.29	9.1
1990- 99	47	3-star plus	77.9	2,663	\$ 4,980	253	169	37	36	109	\$ 2.09	7.4
2000- 2004	21	4-star plus	87.5	2,740	\$ 4,812	200	119	42	39	74	\$ 1.77	4.1
2005 or later	27	4-star plus	86.2	2,009	\$ 3,435	179	116	30	32	91	\$ 1.71	5.6

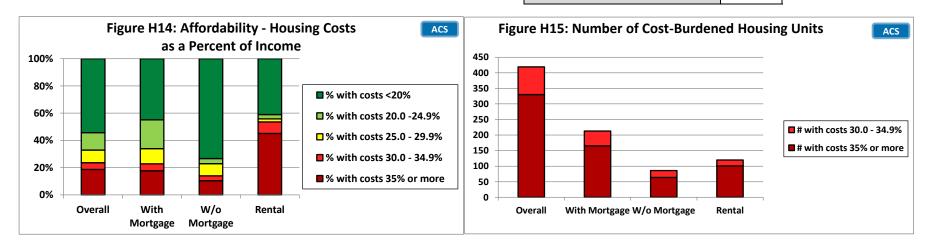




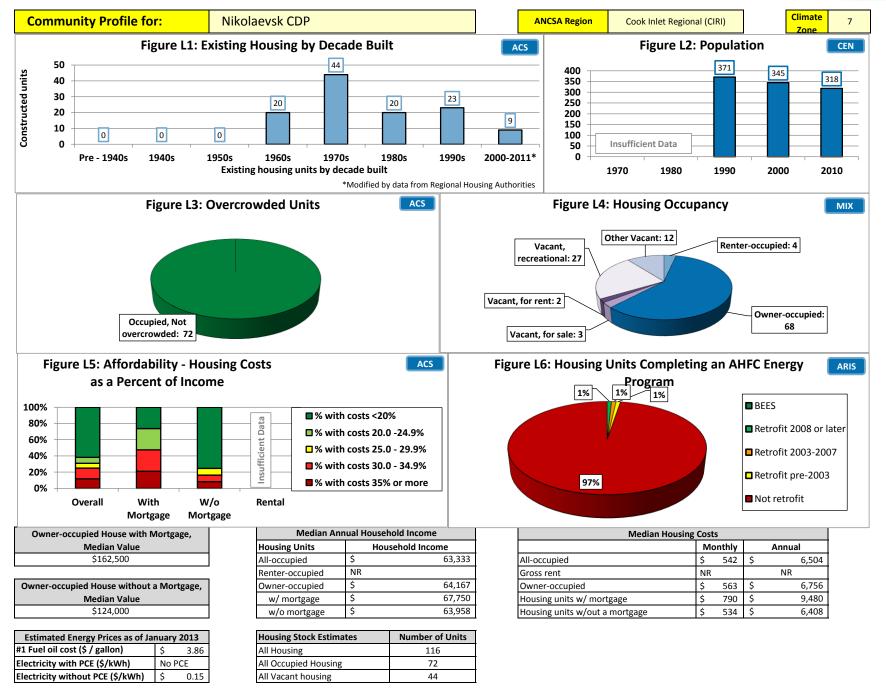
Current Nikiski CDP Housing Envelope Characteristics By Decade Built											
Current Residential Units by Year Built	Number of Records	ACH 50	Ceiling R	Above Grade Wall R	Below Grade Wall R	Above Grade Floor R	On Grade Floor R	Below Grade Floor R	Door U	Garage Door U	Window U
OVERALL	254	7.1	25	14	5	22	3	3	0.34	0.29	0.50
Pre- 1940	0	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1940- 49	1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1950- 59	0	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1960- 69	13	14.0	24	11	3	27	NR	2	0.43	NR	0.64
1970- 79	89	8.4	22	12	5	18	3	2	0.42	0.35	0.56
1980- 89	71	5.9	30	15	5	25	2	2	0.28	0.29	0.47
1990- 99	47	4.5	25	15	15	NR	4	3	0.26	0.17	0.40
2000- 2004	21	3.8	46	20	9	NR	11	4	0.27	0.15	0.36
2005 or later	27	4.0	44	16	19	NR	3	4	0.26	0.16	0.34
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













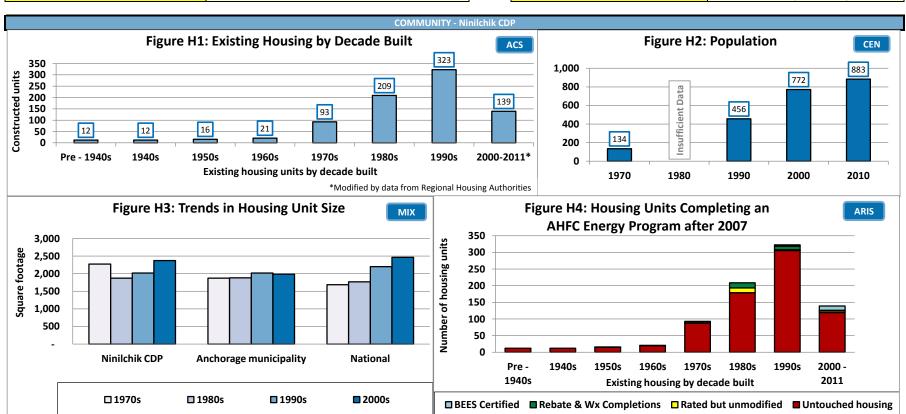
Community Profile for: Ninilchik CDP

ANCSA Region Cook Inlet Regional (CIRI)

Regional Housing Authority: Coo

Cook Inlet Housing Authority

BEES Climate Zone (Heating Degree Days) Zone 7 (11,155 HDD)



Houses Lacking Complete	Households				
Plumbing or Kitchen Facilities	Number	Percent			
Lack complete plumbing	18	8%			
Lack complete kitchen	18	8%			

Estimated Total Annual Community Space Heating Fuel Use								
Fuel Oil	192,935	(gallons)						
Nat Gas	-	(ccf)						
Electricity	515,222	(kWh)						
Wood	333	(cords)						
Propane	36,332	(gallons)						
Coal	121	(tons)						

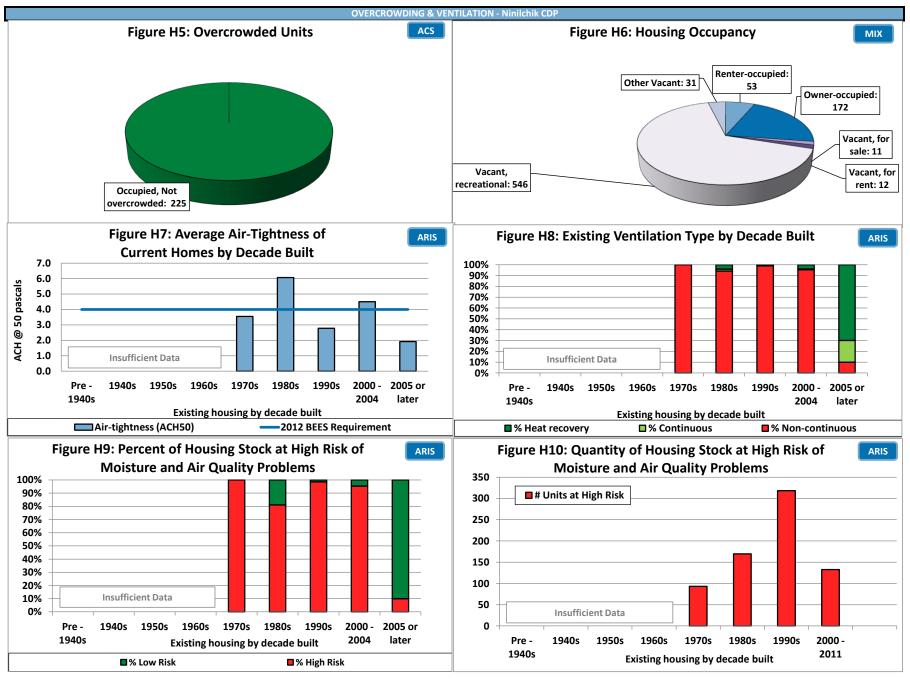
Avg A	Annual Energy Cost with PCE	NO PCE
Av	g Annual Energy Cost without PCE	\$6,762

Estimated Energy Prices a	s of January 2013
#1 Fuel oil cost (\$ / gallon)	\$3.66
Electricity with PCE (\$/kWh)	No PCE
Electricity cost without PCE (\$/kWh)	\$0.15

Weatherization Program Retrofits							
(funding increased in 2008)							
Date Range Units							
2008-2011	12						
2003-2007	3						
1990-2002	7						

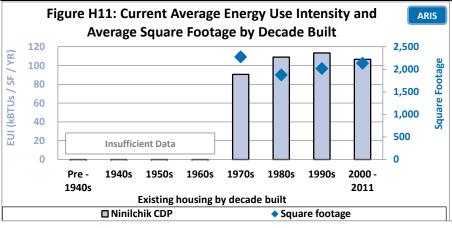
Housing Stock Estimates	Number of Units
All Housing	825
All Occupied Housing	225
All Vacant housing	600
Vacant Housing for Sale or Rent	23

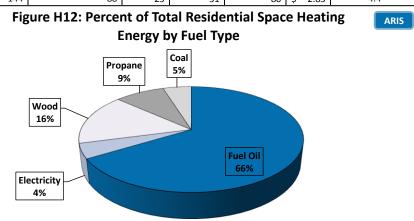






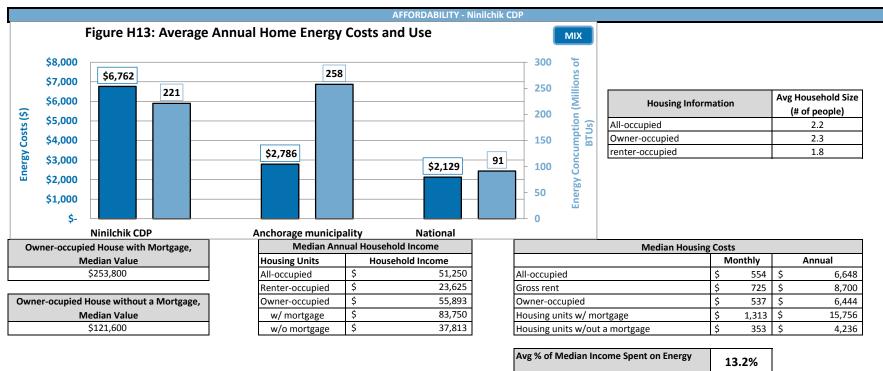
	ENERGY - Ninilchik CDP													
	Current Ninilchik CDP Housing Energy Characteristics By Decade Built													
Current Residential	Number of	Avg Energy	Avg Energy Rating	Avg Sq.	Avg. Annual	Avg. Annual	Avg Ann Energy by	End Use (m	illion Btus)	Avg. EUI	Avg. ECI	Avg. Home Heating		
Units by Year Built	Records	Rating Stars	Points	Feet	Energy Cost	Energy Use (million BTUs)	Space Heating	DHW	Appliances	(kBTUS/SF)	(\$ / SF)	Index		
OVERALL	94	3-star plus	73.8	2,077	\$ 6,762	221	168	22	30	110	\$ 3.14	7.5		
Pre- 1940	0	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	2	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	6	2-star plus	67.3	2,275	\$ 8,762	205	146	30	29	91	\$ 3.71	5.8		
1980- 89	45	3-star	72.7	1,875	\$ 5,793	195	144	20	31	109	\$ 3.00	7.4		
1990- 99	29	3-star plus	75.4	2,018	\$ 6,228	227	175	21	28	113	\$ 3.12	8.0		
2000- 2004	11	4-star	81.6	2,372	\$ 8,566	243	186	25	32	109	\$ 3.66	7.6		
2005 or later	11	5-star	89.1	1,897	\$ 5,108	144	88	25	31	80	\$ 2.83	4.4		

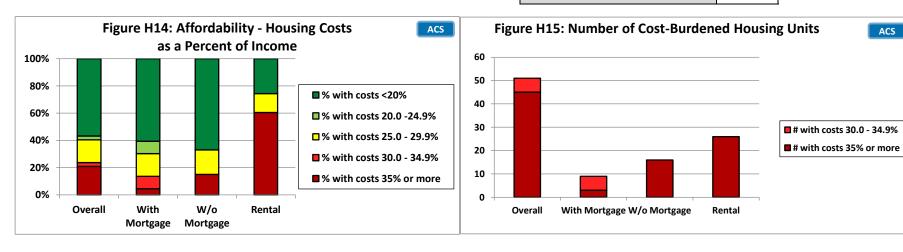




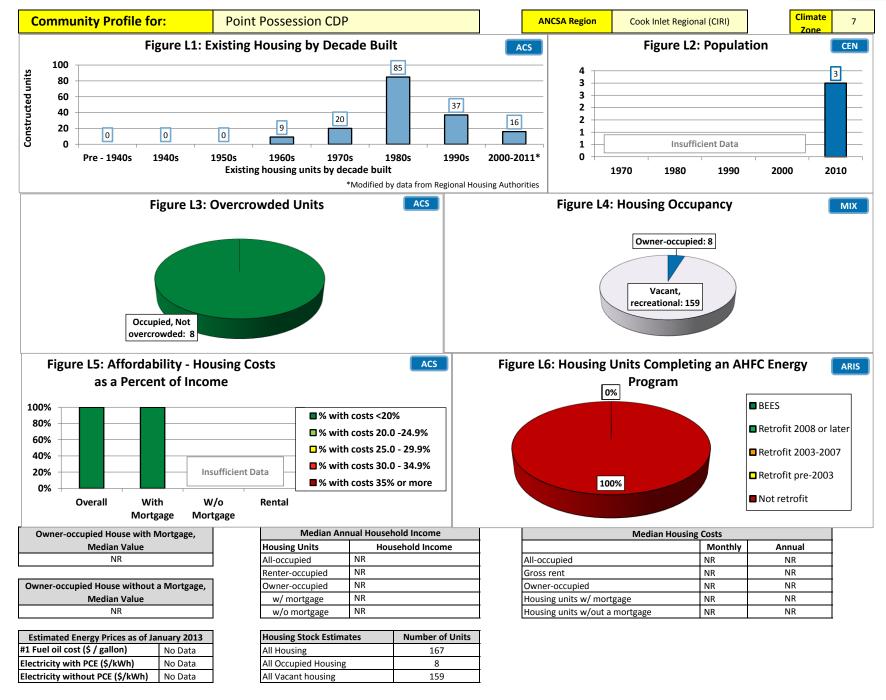
	Current Ninilchik CDP Housing Envelope Characteristics By Decade Built													
Current Residential Units by Year Built	Number of Records	ACH 50	Ceiling R	Above Grade Wall R	Below Grade Wall R	Above Grade Floor R	On Grade Floor R	Below Grade Floor R	Door U	Garage Door U	Window U			
OVERALL	94	5.2	31	15	8	20	3	3	0.35	0.32	0.51			
Pre- 1940	0	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	2	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	6	3.5	23	14	NR	NR	NR	NR	0.34	NR	0.54			
1980- 89	45	6.1	35	15	8	19	4	3	0.34	0.33	0.51			
1990- 99	29	2.8	38	14	18	33	4	3	0.38	0.17	0.49			
2000- 2004	11	4.5	28	14	11	NR	3	4	0.38	NR	0.42			
2005 or later	11	1.9	44	18	20	NR	7	4	0.25	0.19	0.36			
·	·		·	·						•	•			
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			



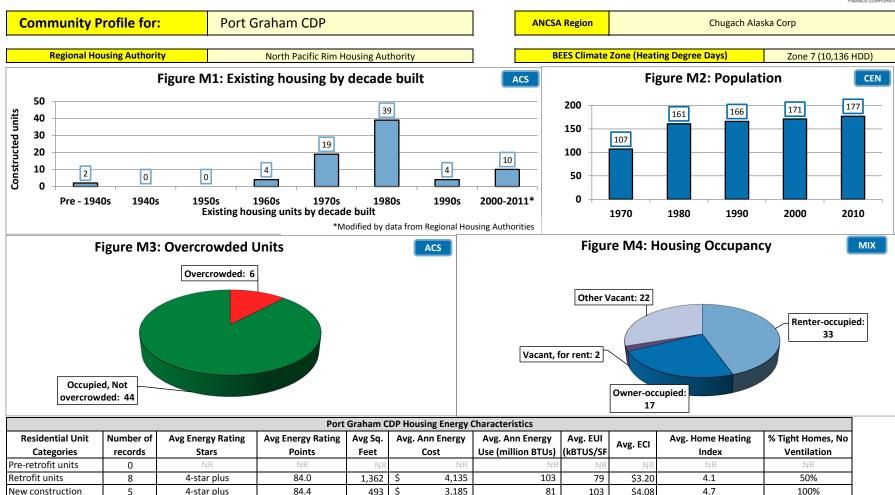












Port Graham CDP Housing Envelope Characteristics											
Residential Unit	Number of	ACH 50	Ceiling R	Above Grade Wall R	Below Grade Wall	Above Grade Floor	On Grade Floor R	Below Grade Floor R	Door U	Garage	Window
Categories	Records	ACH 30		Above Grade Wall K	R	R	On Grade Floor K	Delow Grade Floor K		Door U	U
Pre-retrofit units	0	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Retrofit units	8	3.5	34	14	NR	27	NR	NR	0.20	NR	0.39
New construction	5	1.6	43	17	15	NR	NR	3	0.27	NR	0.39
•		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		4.0	43	25	15	38	15	15	0.30	0.30	0.30

3,185

81

103

\$4.08

5

4-star plus

84.4

493

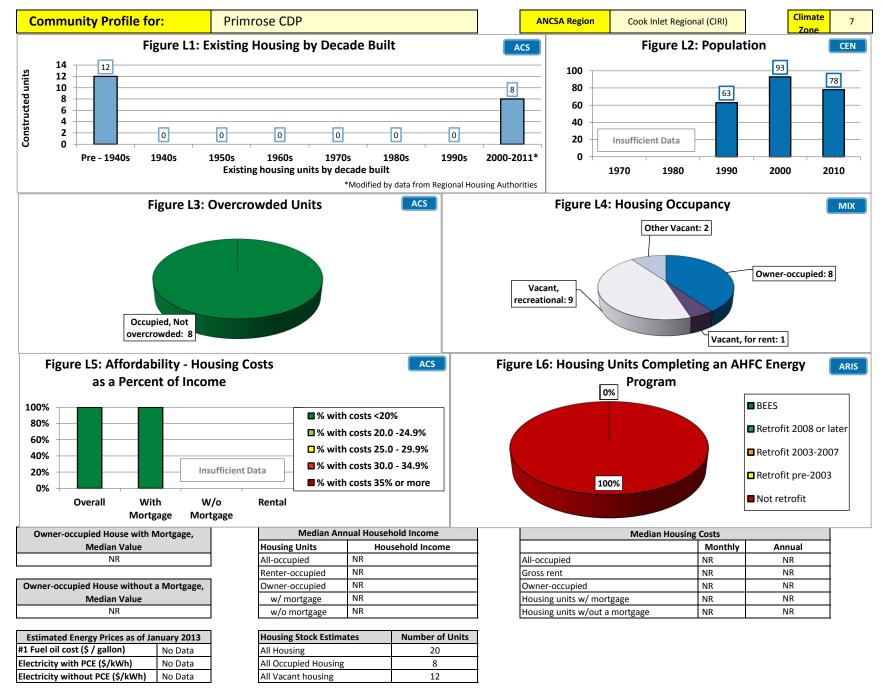
New construction

100%

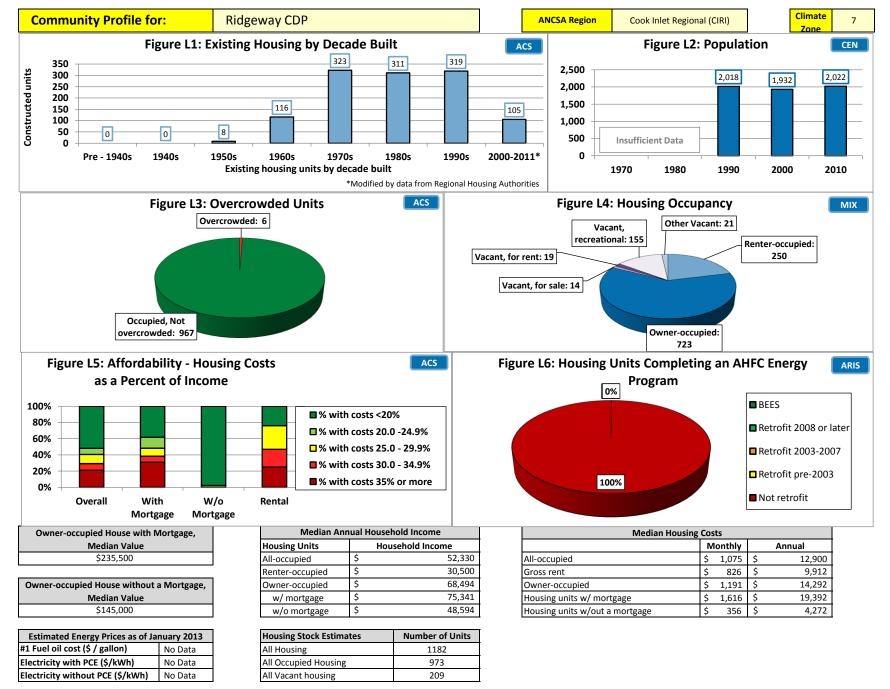




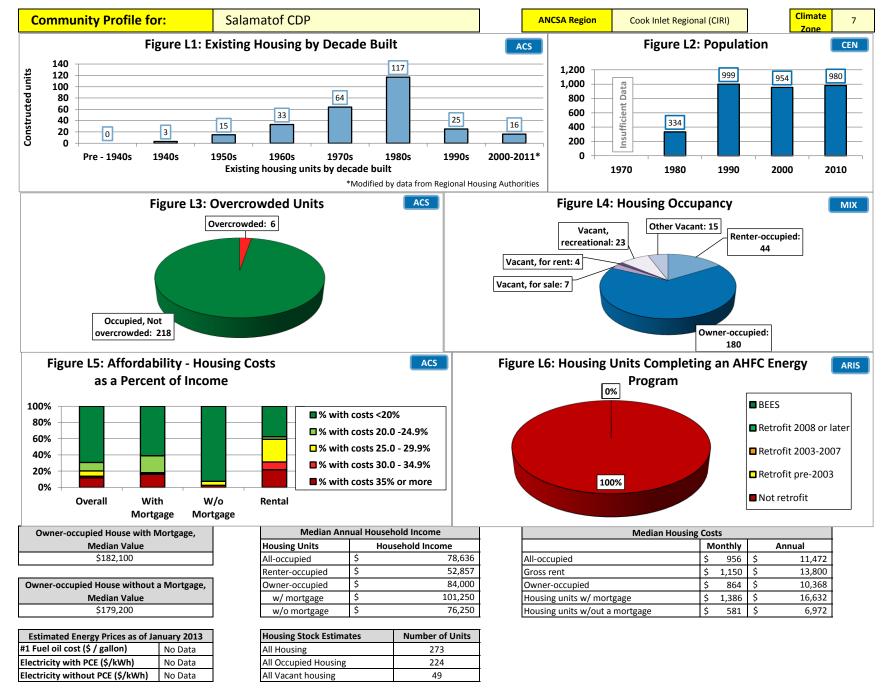














Community Profile for: Seldovia city

ANCSA Region Cook Inlet Regional (CIRI)

Regional Housing Authority:

Cook Inlet Housing Authority

BEES Climate Zone (Heating Degree Days) Zone 7 (10,136 HDD)



Houses Lacking Complete	Households				
Plumbing or Kitchen Facilities	Number	Percent			
Lack complete plumbing	0	0%			
Lack complete kitchen	0	0%			

Estimated Total Annual Community Space Heating Fuel Use						
Fuel Oil	108,188	(gallons)				
Nat Gas	-	(ccf)				
Electricity	52,073	(kWh)				
Wood	267	(cords)				
Propane	718	(gallons)				
Coal	-	(tons)				

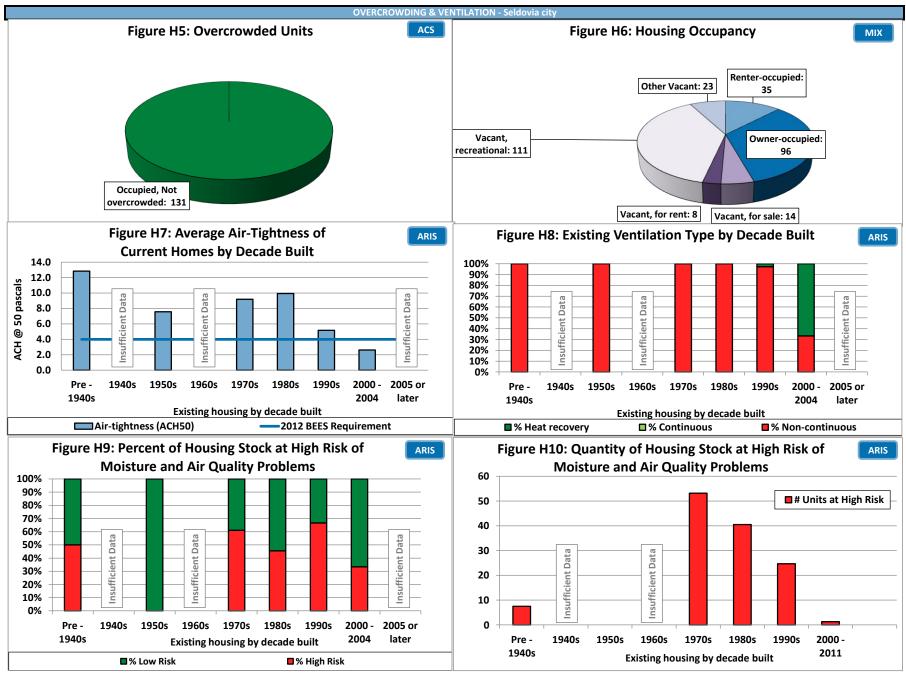
Avg Annual Energy Cost with PCE	NO PCE
Avg Annual Energy Cost without PCE	\$7,303

Estimated Energy Prices as of January 2013							
#1 Fuel oil cost (\$ / gallon)	\$5.51						
Electricity with PCE (\$/kWh)	No PCE						
Electricity cost without PCE (\$/kWh)	\$0.15						

Weatherization Program Retrofits					
(funding increased in 2008)					
Date Range	Units				
2008-2011	44				
2003-2007	5				
1990-2002	9				

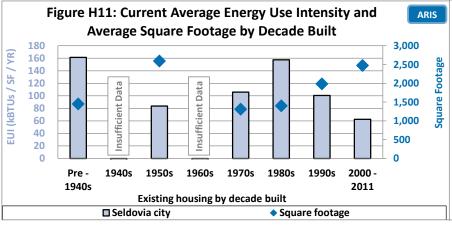
Housing Stock Estimates	Number of Units
All Housing	287
All Occupied Housing	131
All Vacant housing	156
Vacant Housing for Sale or Rent	23

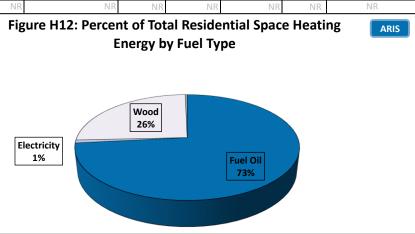






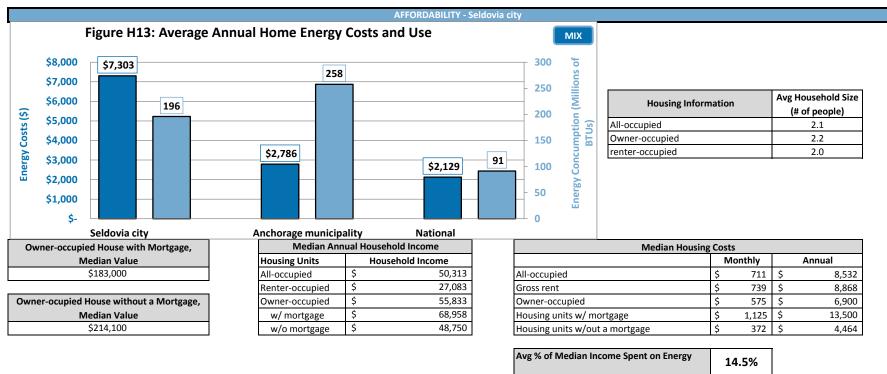
	ENERGY - Seldovia city													
	Current Seldovia city Housing Energy Characteristics By Decade Built													
Current Residential	Number of	Avg Energy	Avg Energy Rating	Avg Sq.	Avg. Annual	Avg. Annual	Avg Ann Energy by	End Use (m	illion Btus)	Avg. EUI	Δνα	. ECI	Avg. Home Heating	
Units by Year Built	Records	Rating Stars	Points	Feet	Energy Cost	Energy Use (million BTUs)	Space Heating	DHW	Appliances	(kBTUS/SF)		/ SF)	Index	
OVERALL	98	3-star	69.4	1,579	\$ 7,303	196	144	23	28	129	\$	4.45	9.7	
Pre- 1940	6	2-star	52.1	1,452	\$ 5,652	230	176	28	26	161	\$	4.32	12.5	
1940- 49	1	NR	NR	NR	NR	NR	NR	NR	NR	NR		NR	NR	
1950- 59	5	4-star	80.8	2,594	\$ 9,163	212	168	13	32	84	\$	3.61	6.5	
1960- 69	4	NR	NR	NR	NR	NR	NR	NR	NR	NR		NR	NR	
1970- 79	33	3-star	72.4	1,311	\$ 6,787	140	98	18	25	106	\$	4.34	7.5	
1980- 89	83	2-star plus	62.3	1,401	\$ 6,672	222	175	20	27	158	\$	5.03	12.5	
1990- 99	6	4-star	78.2	1,985	\$ 6,361	185	132	16	27	101	\$	3.06	7.4	
2000- 2004	5	5-star	88.2	2,475	\$ 5,040	142	86	25	31	63	\$	2.30	3.7	
2005 or later	0	NR	NR	NR	NR	NR	NR	NR	NR	NR		NR	NR	

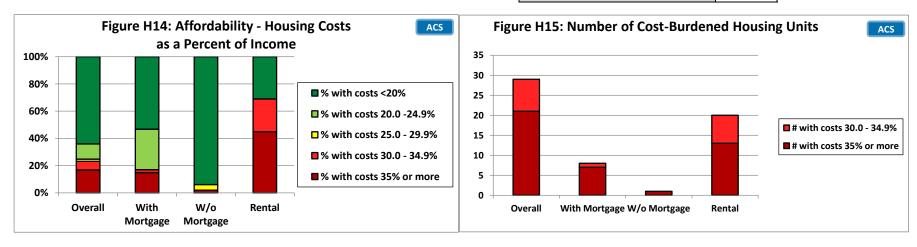




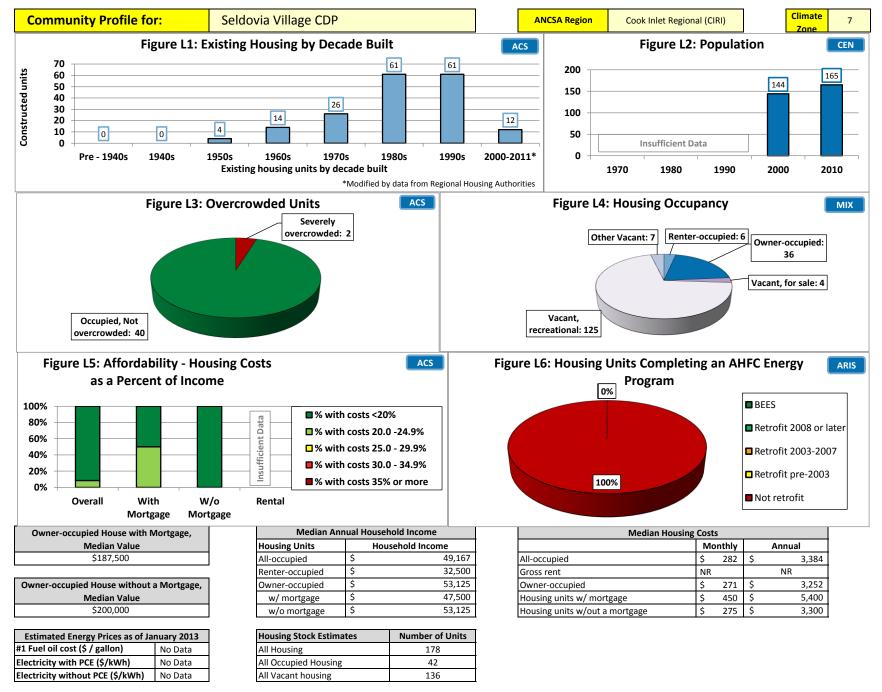
Current Seldovia city Housing Envelope Characteristics By Decade Built											
Current Residential Units by Year Built	Number of Records	ACH 50	Ceiling R	Above Grade Wall R	Below Grade Wall R	Above Grade Floor R	On Grade Floor R	Below Grade Floor R	Door U	Garage Door U	Window U
OVERALL	98	9.2	25	14	7	20	3	3	0.31	0.28	0.49
Pre- 1940	6	12.8	9	11	NR	NR	NR	NR	0.46	NR	0.63
1940- 49	1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1950- 59	5	7.6	NR	NR	NR	NR	NR	NR	NR	NR	NR
1960- 69	4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1970- 79	33	9.2	34	14	14	16	NR	2	0.24	NR	0.47
1980- 89	83	9.9	25	15	7	21	3	2	0.35	NR	0.47
1990- 99	6	5.2	39	19	NR	NR	NR	NR	0.24	NR	0.55
2000- 2004	5	2.6	53	21	27	NR	3	NR	0.25	NR	0.35
2005 or later	0	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













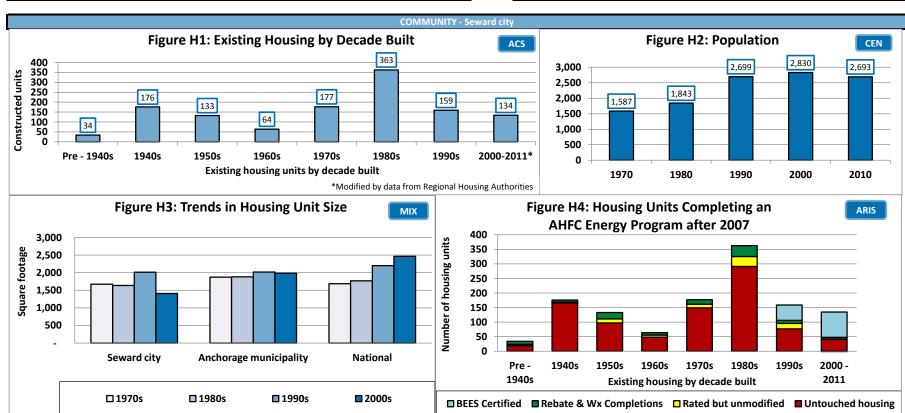
Community Profile for: Seward city

ANCSA Region Chugach Alaska Corp

Regional Housing Authority:

North Pacific Rim Housing Authority

BEES Climate Zone (Heating Degree Days) Zone 7 (9,188 HDD)



Houses Lacking Complete	Households				
Plumbing or Kitchen Facilities	Number	Percent			
Lack complete plumbing	49	5%			
Lack complete kitchen	49	5%			

Estimated Total Annual Community Space Heating Fuel Use						
Fuel Oil	705,063	(gallons)				
Nat Gas	-	(ccf)				
Electricity	1,696,510	(kWh)				
Wood	960	(cords)				
Propane	51,574	(gallons)				
Coal	28	(tons)				

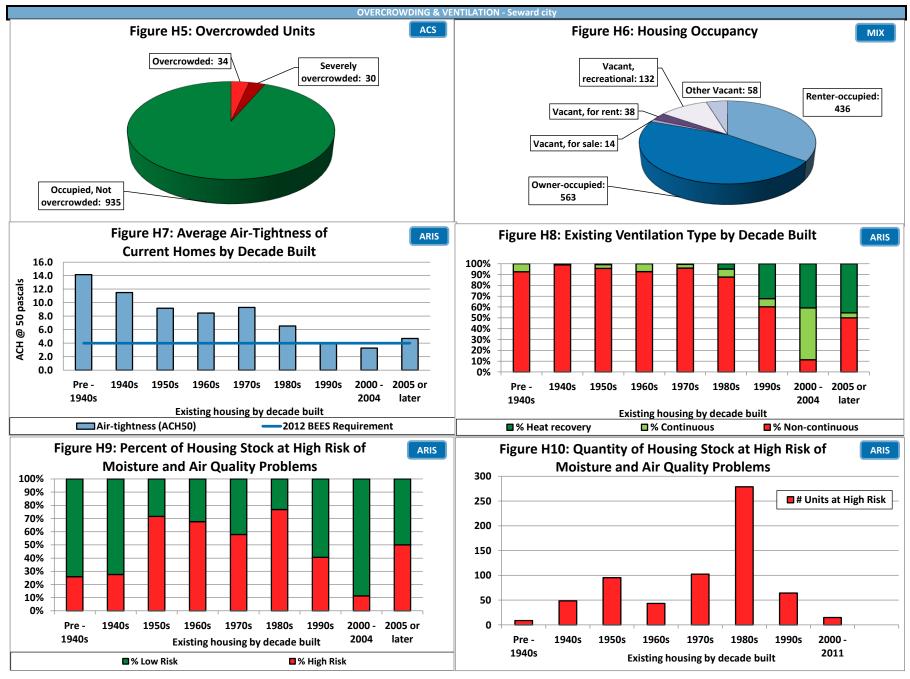
Avg Annual Energy Cost with PCE	NO PCE
Avg Annual Energy Cost without PCE	\$5,616

Estimated Energy Prices a	s of January 2013
#1 Fuel oil cost (\$ / gallon)	\$3.98
Electricity with PCE (\$/kWh)	No PCE
Electricity cost without PCE (\$/kWh)	\$0.15

Weatherization Program Retrofits								
(funding increased in 2008)								
Date Range	Units							
2008-2011	47							
2003-2007	6							
1990-2002	23							

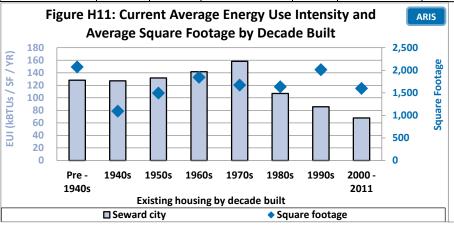
Housing Stock Estimates	Number of Units
All Housing	1240
All Occupied Housing	999
All Vacant housing	241
Vacant Housing for Sale or Rent	52

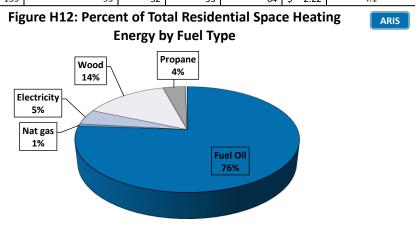






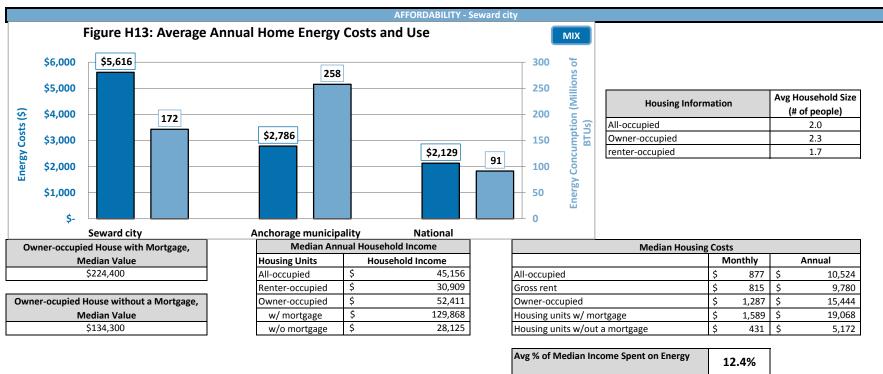
	ENERGY - Seward city												
	Current Seward city Housing Energy Characteristics By Decade Built												
Current Residential	Number of	Avg Energy	Avg Energy Rating	Avg Sq.	Avg. Annual	Avg. Annual	Avg Ann Energy by	End Use (m	illion Btus)	Avg. EUI	Avg. ECI	Avg. Home Heating	
Units by Year Built	Records	Rating Stars	Points	Feet	Energy Cost	Energy Use (million BTUs)	Space Heating	DHW	Appliances	(kBTUS/SF)	(\$ / SF)	Index	
OVERALL	418	2-star plus	67.1	1,649	\$ 5,616	172	113	23	28	114	\$ 3.77	8.8	
Pre- 1940	26	2-star	57.1	2,074	\$ 7,112	225	173	23	30	128	\$ 4.17	10.9	
1940- 49	16	2-star	55.6	1,093	\$ 4,726	135	95	15	25	127	\$ 4.46	10.0	
1950- 59	58	2-star	60.0	1,495	\$ 6,025	184	133	22	29	132	\$ 4.39	10.4	
1960- 69	25	2-star	57.0	1,845	\$ 7,475	240	189	19	32	142	\$ 4.61	12.7	
1970- 79	42	2-star	55.8	1,672	\$ 6,551	221	167	25	29	158	\$ 4.71	13.5	
1980- 89	110	3-star	68.5	1,635	\$ 5,691	169	117	24	28	107	\$ 3.64	8.2	
1990- 99	91	4-star	80.1	2,013	\$ 5,213	156	69	17	19	86	\$ 2.92	5.9	
2000- 2004	75	5-star	89.2	1,408	\$ 3,305	93	39	29	25	72	\$ 2.53	3.3	
2005 or later	23	4-star plus	87.2	2,217	\$ 5,270	159	93	32	33	64	\$ 2.22	4.1	

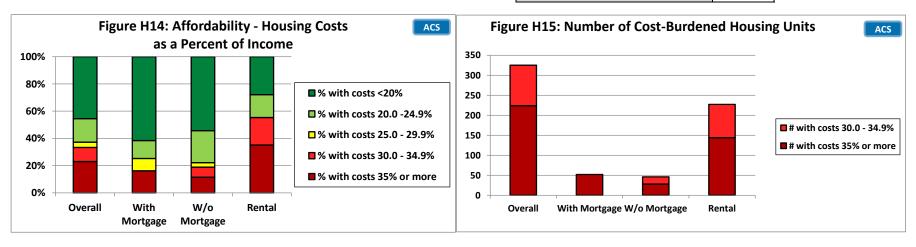




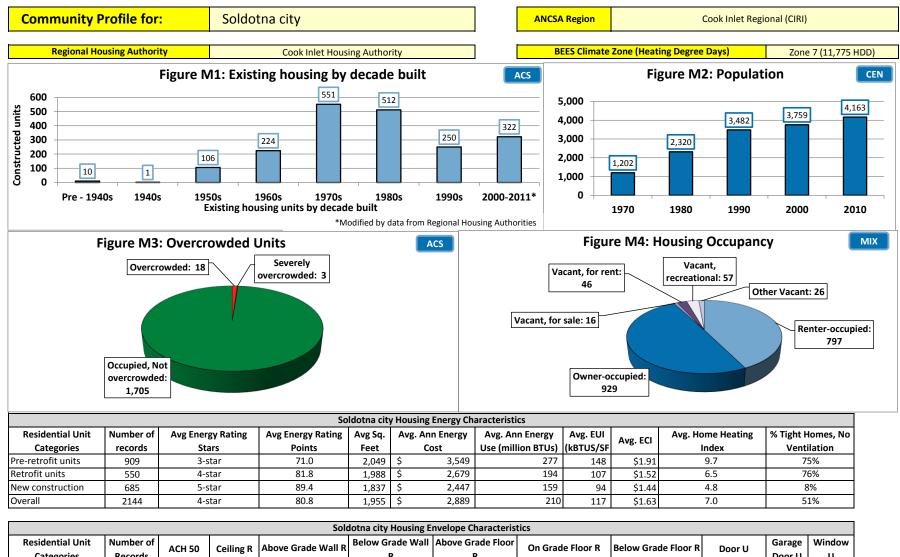
	Current Seward city Housing Envelope Characteristics By Decade Built										
Current Residential Units by Year Built	Number of Records	ACH 50	Ceiling R	Above Grade Wall R	Below Grade Wall R	Above Grade Floor R	On Grade Floor R	Below Grade Floor R	Door U	Garage Door U	Window U
OVERALL	418	7.9	23	13	5	19	3	3	0.37	0.30	0.53
Pre- 1940	26	14.1	18	9	3	15	3	3	0.46	NR	0.54
1940- 49	16	11.5	19	10	7	NR	NR	2	0.34	NR	0.53
1950- 59	58	9.2	18	11	3	11	3	3	0.43	0.35	0.62
1960- 69	25	8.5	15	12	2	NR	3	3	0.40	NR	0.64
1970- 79	42	9.3	21	11	6	24	3	3	0.53	0.39	0.65
1980- 89	110	6.5	28	15	5	20	3	3	0.34	0.31	0.53
1990- 99	91	4.0	51	27	13	50	4	5	0.17	0.13	0.27
2000- 2004	75	3.3	42	18	16	38	6	3	0.23	0.20	0.33
2005 or later	23	4.7	44	15	24	NR	12	3	0.30	0.18	0.31
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





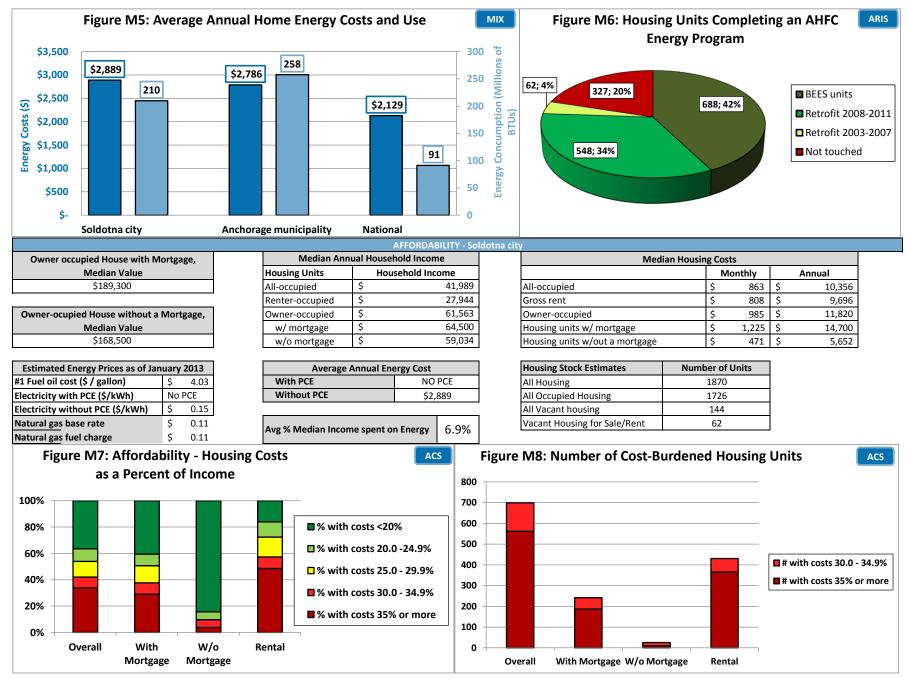






	Soldotna city Housing Envelope Characteristics										
Residential Unit	Number of	ACH 50	Ceiling R	Above Grade Wall R	Below Grade Wall	Above Grade Floor	On Grade Floor R	Below Grade Floor R	Door U	Garage	Window
Categories	Records	ACH 30	Cennig K	Above Grade Wall K	R R		Oli diade riodi k	rade Floor R Below Grade Floor R		Door U	U
Pre-retrofit units	909	6.1	27	14	5	20	3	3	0.34	0.27	0.49
Retrofit units	550	5.0	34	14	9	22	3	3	0.29	0.22	0.43
New construction	685	3.0	46	17	19	36	4	3	0.21	0.18	0.32
Overall	2144	4.7	34	15	8	21	3	3	0.28	0.23	0.42
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







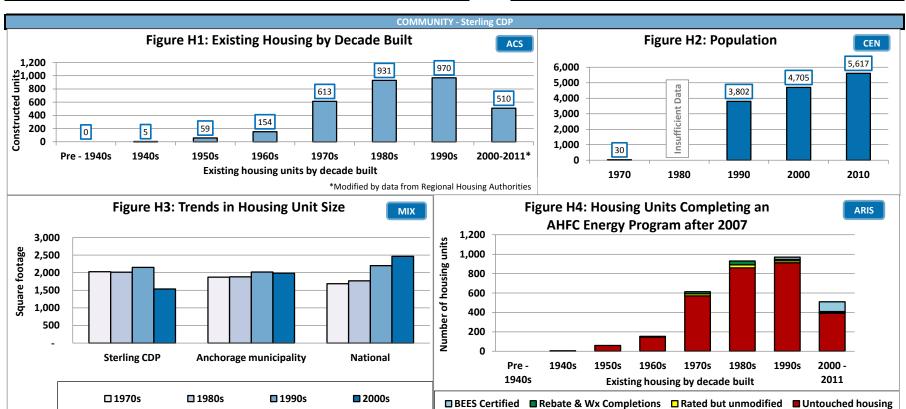
Community Profile for: Sterling CDP

ANCSA Region Cook Inlet Regional (CIRI)

Regional Housing Authority:

Cook Inlet Housing Authority

BEES Climate Zone (Heating Degree Days) Zone 7 (12,006 HDD)



Houses Lacking Complete	Households			
Plumbing or Kitchen Facilities	Number	Percent		
Lack complete plumbing	120	5%		
Lack complete kitchen	104	5%		

Estimated Total Annual Community Space Heating Fuel Use										
Fuel Oil	708,899	(gallons)								
Nat Gas	2,914,690	(ccf)								
Electricity	3,025,603	(kWh)								
Wood	1,385	(cords)								
Propane	62,909	(gallons)								
Coal	-	(tons)								

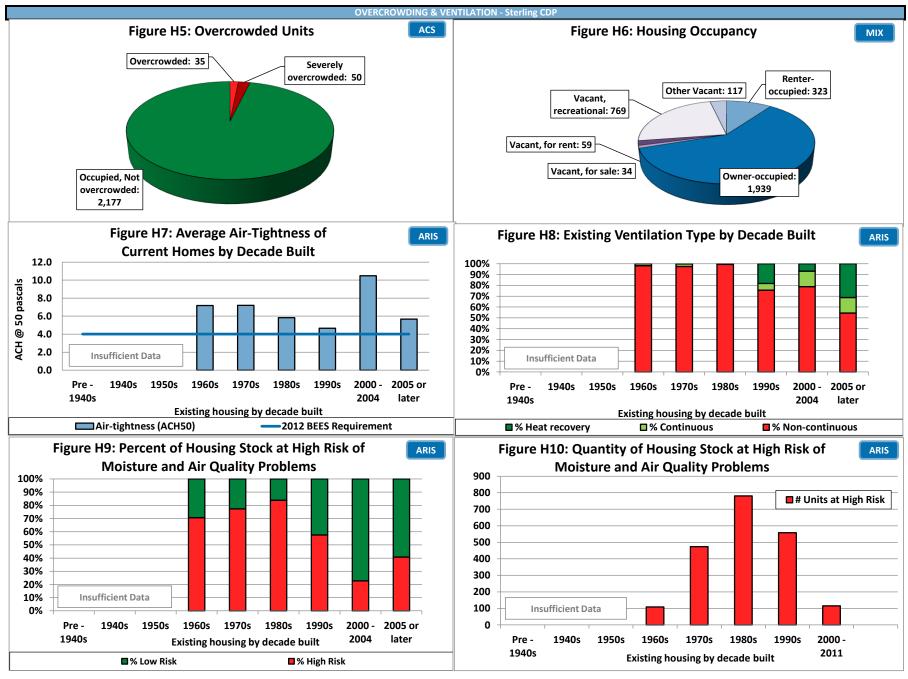
Aug Annual Energy Cost	NO PCE	Avg Annual Energy Cost with PCE
without PCE \$4,283	\$4,283	Avg Annual Energy Cost without PCF

Estimated Energy Prices as	s of January 2013
#1 Fuel oil cost (\$ / gallon)	\$3.91
Electricity with PCE (\$/kWh)	No PCE
Electricity cost without PCE (\$/kWh)	\$0.15
Natural gas base rate	\$0.11
Natural gas fuel charge	\$0.57
Natural gas customer charge	\$13.50

Weatherization Program Retrofits								
(funding increased in 2008)								
Date Range	Units							
2008-2011	26							
2003-2007	16							
1990-2002	58							

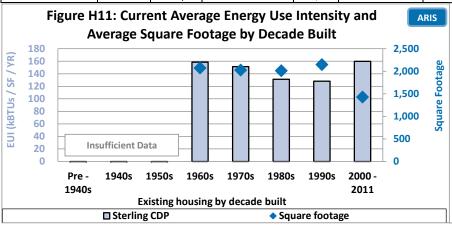
Housing Stock Estimates	Number of Units
All Housing	3242
All Occupied Housing	2262
All Vacant housing	980
Vacant Housing for Sale or Rent	93

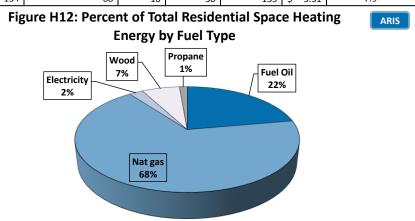






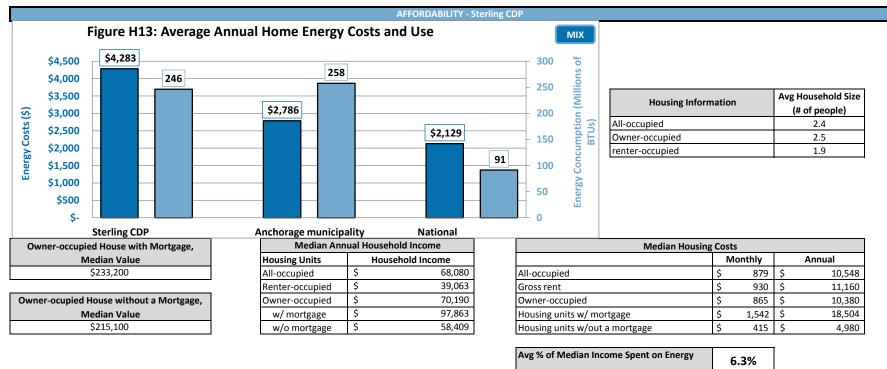
	ENERGY - Sterling CDP											
	Current Sterling CDP Housing Energy Characteristics By Decade Built											
Current Residential	Number of	Avg Energy	Avg Energy Rating	Avg Sq.	Avg. Annual	Avg. Annual	Avg Ann Energy by	End Use (m	illion Btus)	Avg. EUI	Avg. ECI	Avg. Home Heating
Units by Year Built	Records	Rating Stars	Points	Feet	Energy Cost	Energy Use (million BTUs)	Space Heating	DHW	Appliances	(kBTUS/SF)	(\$ / SF)	Index
OVERALL	363	3-star	71.0	1,972	\$ 4,283	246	183	29	33	140	\$ 2.60	9.0
Pre- 1940	0	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	0	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1960- 69	15	2-star plus	61.3	2,073	\$ 4,497	322	268	26	28	159	\$ 2.10	11.1
1970- 79	63	2-star plus	67.5	2,027	\$ 3,986	268	209	29	31	151	\$ 2.31	10.2
1980- 89	111	3-star	71.7	2,013	\$ 4,075	251	186	33	32	131	\$ 2.21	8.2
1990- 99	71	3-star plus	75.6	2,149	\$ 4,404	247	177	31	33	128	\$ 2.57	8.1
2000- 2004	64	2-star plus	64.1	1,537	\$ 5,553	216	164	23	30	174	\$ 5.28	11.7
2005 or later	66	3-star plus	76.3	1,323	\$ 3,135	134	88	16	30	133	\$ 3.31	7.9

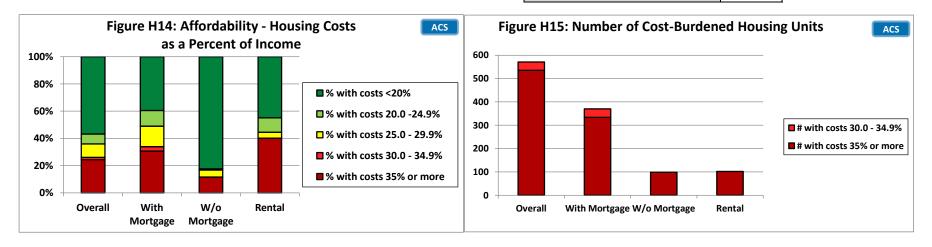




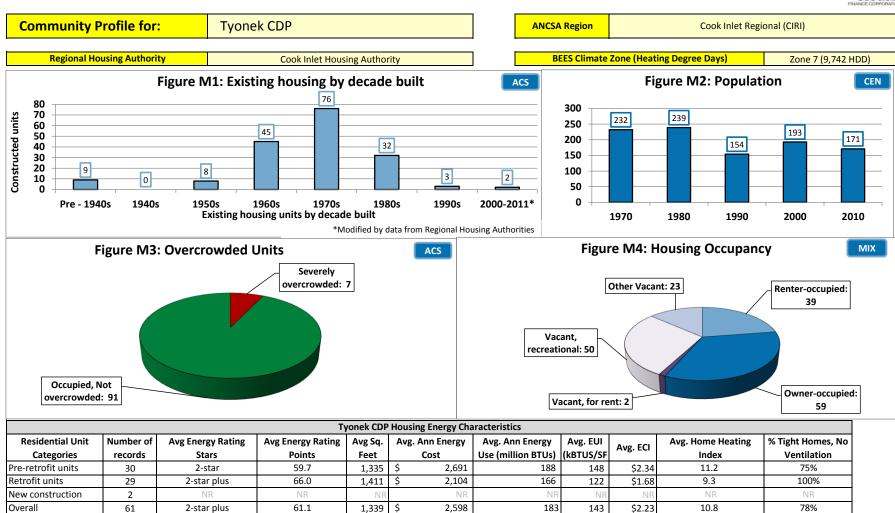
Current Sterling CDP Housing Envelope Characteristics By Decade Built											
Current Residential Units by Year Built	Number of Records	ACH 50	Ceiling R	Above Grade Wall	Below Grade Wall	Above Grade Floor R	On Grade Floor R	Below Grade Floor R	Door U	Garage Door U	Window U
OVERALL	363	6.7	24	14	7	17	3	3	0.34	0.26	0.47
Pre- 1940	0	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	0	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1960- 69	15	7.2	13	11	6	NR	2	2	0.39	NR	0.55
1970- 79	63	7.2	20	13	6	19	3	3	0.41	0.32	0.53
1980- 89	111	5.8	27	15	7	16	3	3	0.34	0.30	0.48
1990- 99	71	4.7	31	14	10	19	3	3	0.27	0.21	0.38
2000- 2004	64	10.5	29	13	14	15	5	3	0.32	0.17	0.44
2005 or later	66	5.7	28	13	4	34	3	4	0.26	0.19	0.35
·	· · · · · · · · · · · · · · · · · · ·		·			·	·	·			•
BEES 2009 - Climate Zone 7		7.0	38	21	15	38	15	15	0.33	0.33	0.33
BEES 2012 - Climate Zone 7		4.0	43	25	15	38	15	15	0.30	0.30	0.30











Tyonek 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				R	R				Door U	U
Pre-retrofit units	30	8.5	31	11	2	33	2	2	0.37	NR	0.51
Retrofit units	29	5.5	37	10	2	NR	NR	2	0.21	NR	0.38
New construction	2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Overall	61	8.2	31	11	2	34	2	2	0.35	NR	0.50
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



