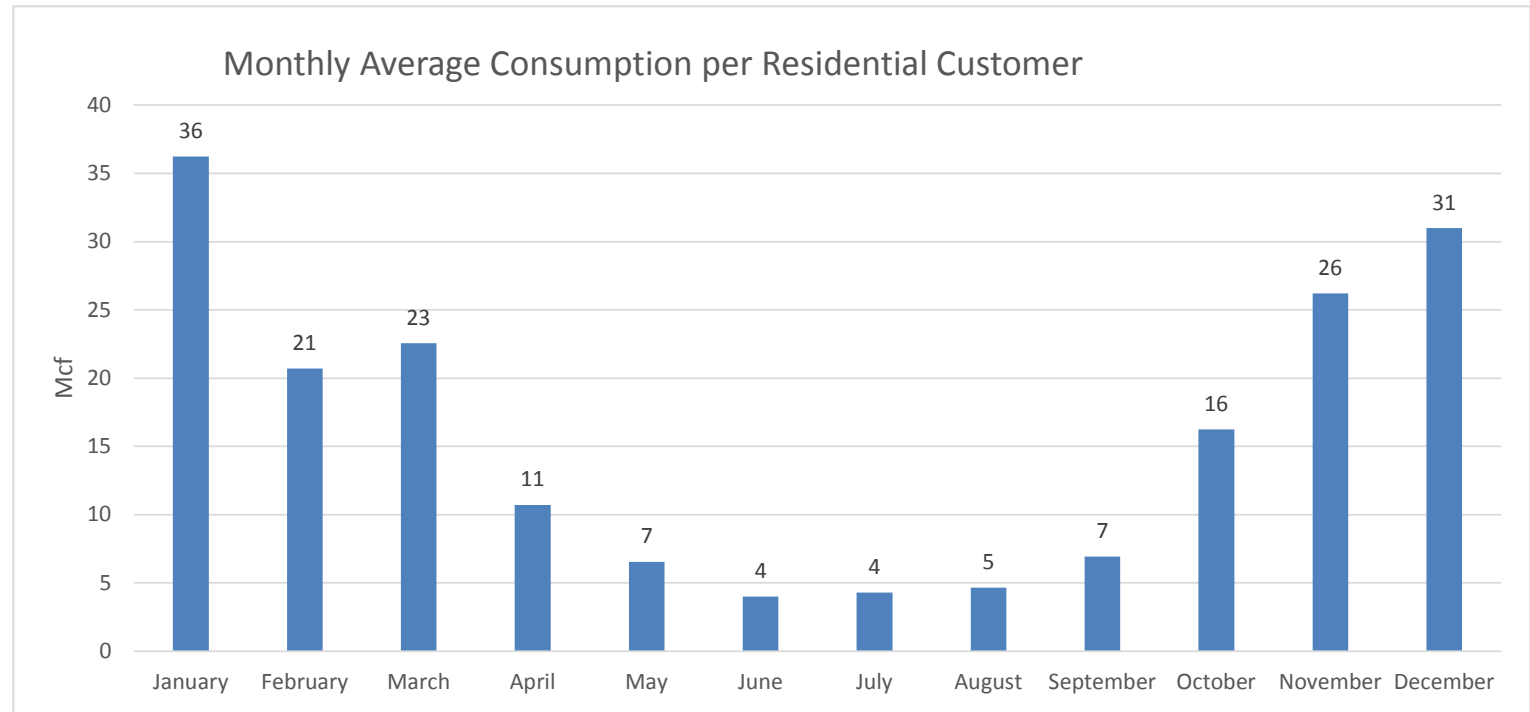


Average Monthly Consumption Per Customer	Adjusted	%
January	36	19%
February	21	11%
March	23	12%
April	11	6%
May	7	3%
June	4	2%
July	4	2%
August	5	2%
September	7	4%
October	16	9%
November	26	14%
December	31	16%
<b>Total Annual Consumption</b>	<b>190</b>	<b>100%</b>



		2011											2012												
Read Date		1/28/2011	2/28/2011	3/29/2011	4/28/2011	5/31/2011	6/29/2011	7/28/2011	8/30/2011	9/29/2011	10/30/2011	11/29/2011	12/30/2011	1/31/2012	2/29/2012	3/30/2012	4/30/2012	5/31/2011	6/29/2011	7/31/2012	8/30/2011	9/28/2012	10/31/2012	11/30/2012	12/31/2012
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Normalized per read dates (HDD)	2,123	2,262	1,661	1,026	461	129	96	237	453	1,088	2,190	1,847	2,847	1,705	1,824	869	522	113	137	263	519	1,377	2,205	2,538
	Monthly (HDD)	2,195	1,989	1,763	988	397	140	107	233	475	1,114	2,194	1,881	2,847	1,705	1,865	827	522	115	135	263	576	1,311	2,205	2,538
	Actual Heating Degree Days per Billing Cycle	2,123	2,262	1,661	1,026	461	129	96	237	453	1,088	2,190	1,847	2,847	1,705	1,824	869	522	113	137	263	519	1,377	2,205	2,538

**Estimated Additional Monthly Natural Gas Demand (MCF)**

*Note: These volumes do not include existing FNG Customers*

Month	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Existing Demand
January	0	115,870	662,756	937,049	1,131,305	1,295,339	1,365,442	1,401,281	1,421,889	1,432,862	1,438,687	1,440,482	1,441,828	1,442,725	1,443,174	1,443,174	115,361
February	0	71,387	410,011	578,442	696,399	797,324	839,391	860,761	872,981	879,473	882,799	883,824	884,593	885,105	885,361	885,361	104,720
March	0	72,957	417,563	590,155	712,161	815,381	859,303	881,739	894,631	901,494	905,120	906,238	907,076	907,635	907,914	907,914	97,937
April	0	68,297	249,028	340,753	405,811	458,930	480,581	491,596	497,812	501,084	502,634	503,145	503,524	503,770	503,884	503,884	75,528
May	0	58,528	160,357	213,816	252,813	282,507	294,724	301,008	304,529	306,368	307,209	307,508	307,728	307,866	307,924	307,924	49,130
June	0	48,287	108,004	140,420	164,761	181,906	188,958	192,620	194,651	195,694	196,143	196,319	196,446	196,523	196,551	196,551	25,685
July	0	62,529	119,885	152,510	177,857	194,156	200,993	204,603	206,590	207,601	208,018	208,200	208,329	208,405	208,428	208,428	25,372
August	0	77,726	131,912	164,514	190,735	205,984	212,538	216,072	218,000	218,973	219,352	219,541	219,673	219,747	219,763	219,763	30,334
September	0	135,870	208,522	254,947	293,783	313,778	322,551	327,384	329,984	331,269	331,722	331,992	332,176	332,274	332,286	332,286	38,547
October	27,879	318,328	449,914	542,131	620,976	655,733	672,461	682,029	687,112	689,722	690,526	691,129	691,531	691,732	691,732	691,732	78,168
November	83,326	476,476	673,782	813,626	931,612	982,128	1,007,963	1,022,823	1,030,737	1,034,946	1,036,243	1,037,216	1,037,865	1,038,189	1,038,189	1,038,189	111,951
December	97,849	559,285	791,060	955,520	1,094,089	1,153,567	1,184,005	1,201,523	1,210,854	1,215,835	1,217,369	1,218,520	1,219,287	1,219,671	1,219,671	1,219,671	106,719
<b>Total</b>	<b>209,054</b>	<b>2,065,540</b>	<b>4,382,793</b>	<b>5,683,884</b>	<b>6,672,301</b>	<b>7,336,734</b>	<b>7,628,910</b>	<b>7,783,439</b>	<b>7,869,769</b>	<b>7,915,319</b>	<b>7,935,823</b>	<b>7,944,115</b>	<b>7,950,054</b>	<b>7,953,641</b>	<b>7,954,877</b>	<b>7,954,877</b>	<b>859,450</b>

**INCREMENTAL DEMAND**

**Residential Sector**

Construction Schedule	Number of Additional Customers per Year															
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Year 1 (2014)	556	2,224	1,112	834	278	56	56	56	56	56						
Year 2 (2015)	556	2,224	1,112	834	278	56	56	56	56	56						
Year 3 (2016)		124	495	248	186	62	12	12	12	12	12					
Year 4 (2017)			124	495	248	186	62	12	12	12	12	12				
Year 5 (2018)				124	495	248	186	62	12	12	12	12	12			
Year 6 (2019)					124	495	248	186	62	12	12	12	12	12		
<b>Total:</b>	<b>1,112</b>	<b>4,572</b>	<b>2,843</b>	<b>2,535</b>	<b>1,608</b>	<b>1,102</b>	<b>619</b>	<b>384</b>	<b>210</b>	<b>161</b>	<b>50</b>	<b>37</b>	<b>25</b>	<b>12</b>		

**Monthly Incremental Customers**

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
January																
February																
March																
April		635	388	344	212	157	88	55	30	23	7	5	4	2		
May		635	388	344	212	157	88	55	30	23	7	5	4	2		
June		635	388	344	212	157	88	55	30	23	7	5	4	2		
July		635	388	344	212	157	88	55	30	23	7	5	4	2		
August		635	388	344	212	157	88	55	30	23	7	5	4	2		
September		635	388	344	212	157	88	55	30	23	7	5	4	2		
October	556	697	450	406	274	157	88	55	30	23	7	5	4	2		
November	556	62	62	62	62											
December																
<b>Total:</b>	<b>1,112</b>	<b>4,572</b>	<b>2,843</b>	<b>2,535</b>	<b>1,608</b>	<b>1,102</b>	<b>619</b>	<b>384</b>	<b>210</b>	<b>161</b>	<b>50</b>	<b>37</b>	<b>25</b>	<b>12</b>		

*Monthly Demand per Customer (MCF)*

January	36
February	21
March	23
April	11
May	7
June	4
July	4
August	5
September	7
October	16
November	26
December	31
<b>Total:</b>	<b>190</b>

**Incremental Demand**

January	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
February	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
March	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
April	0	6,803	4,159	3,687	2,270	1,685	946	587	322	246	76	57	38	19	0	0
May	0	8,287	5,066	4,491	2,766	2,052	1,153	715	392	299	92	69	46	23	0	0
June	0	7,582	4,635	4,109	2,530	1,878	1,055	654	358	274	84	63	42	21	0	0
July	0	10,911	6,670	5,913	3,641	2,702	1,518	941	516	394	121	91	61	30	0	0
August	0	14,790	9,041	8,016	4,936	3,663	2,057	1,275	699	534	165	123	82	41	0	0
September	0	26,436	16,161	14,328	8,822	6,547	3,677	2,279	1,249	955	294	221	147	74	0	0
October	9,028	73,230	45,158	40,150	25,108	17,886	10,047	6,228	3,414	2,610	804	603	402	201	0	0
November	29,128	119,753	74,468	66,389	42,125	28,853	16,207	10,046	5,507	4,210	1,297	973	649	324	0	0
December	34,462	141,684	88,105	78,547	49,840	34,137	19,175	11,886	6,515	4,981	1,535	1,151	767	384	0	0
<b>Total:</b>	<b>72,618</b>	<b>409,475</b>	<b>253,463</b>	<b>225,631</b>	<b>142,039</b>	<b>99,401</b>	<b>55,835</b>	<b>34,611</b>	<b>18,971</b>	<b>14,503</b>	<b>4,468</b>	<b>3,351</b>	<b>2,234</b>	<b>1,117</b>		

*Cumulative # of Customers*

	1,112	5,684	8,528	11,062	12,671	13,772	14,391	14,775	14,985	15,146	15,195	15,232	15,257	15,269	15,269
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Year	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
January	40,304	206,008	309,049	400,913	459,202	499,126	521,551	535,453	543,072	548,897	550,692	552,038	552,935	553,384	553,384	553,384
February	23,015	117,639	176,481	228,938	262,224	285,022	297,829	305,767	310,118	313,444	314,469	315,238	315,750	316,006	316,006	316,006
March	25,094	128,262	192,417	249,612	285,903	310,760	324,722	333,377	338,122	341,748	342,866	343,704	344,262	344,542	344,542	344,542
April	11,906	60,853	91,291	118,426	135,644	147,437	154,062	158,168	160,419	162,140	162,670	163,067	163,332	163,465	163,465	163,465
May	7,251	37,063	55,602	72,129	82,616	89,799	93,834	96,335	97,706	98,754	99,077	99,319	99,480	99,561	99,561	99,561
June	4,423	22,607	33,915	43,996	50,392	54,774	57,235	58,760	59,596	60,236	60,432	60,580	60,679	60,728	60,728	60,728
July	4,773	24,398	36,602	47,482	54,385	59,114	61,770	63,416	64,319	65,009	65,221	65,381	65,487	65,540	65,540	65,540
August	5,176	26,459	39,693	51,491	58,977	64,105	66,985	68,771	69,749	70,498	70,728	70,901	71,016	71,074	71,074	71,074
September	7,710	39,410	59,122	76,696	87,847	95,485	99,775	102,434	103,892	105,006	105,350	105,607	105,779	105,865	105,865	105,865
October	18,056	92,291	138,454	179,609	205,722	223,608	233,655	239,883	243,296	245,906	246,710	247,313	247,715	247,916	247,916	247,916
November	29,128	148,881	223,349	289,738	331,863	360,716	376,923	386,969	392,476	396,686	397,983	398,956	399,604	399,928	399,928	399,928
December	34,462	176,145	264,251	342,798	392,637	426,774	445,949	457,835	464,350	469,331	470,866	472,017	472,784	473,167	473,167	473,167
<b>Total:</b>	<b>211,299</b>	<b>1,080,017</b>	<b>1,620,225</b>	<b>2,101,828</b>	<b>2,407,414</b>	<b>2,616,720</b>	<b>2,734,290</b>	<b>2,807,168</b>	<b>2,847,116</b>	<b>2,877,655</b>	<b>2,887,063</b>	<b>2,894,120</b>	<b>2,898,824</b>	<b>2,901,177</b>	<b>2,901,177</b>	<b>2,901,177</b>

**Total Cumulative**

*Note: This does not include current FNG customers*

Year	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
January	0	40,304	206,008	309,049	400,913	459,202	499,126	521,551	535,453	543,072	548,897	550,692	552,038	552,935	553,384	553,384
February	0	23,015	117,639	176,481	228,938	262,224	285,022	297,829	305,767	310,118	313,444	314,469	315,238	315,750	316,006	316,006
March	0	25,094	128,262	192,417	249,612	285,903	310,760	324,722	333,377	338,122	341,748	342,866	343,704	344,262	344,542	344,542
April	0	18,709	65,012	94,978	120,696	137,329	148,384	154,648	158,490	160,665	162,215	162,726	163,105	163,351	163,465	163,465
May	0	15,538	42,130	60,093	74,895	84,669	90,952	94,548	96,727	98,005	98,846	99,146	99,365	99,503	99,561	99,561
June	0	12,005	27,242	38,024	46,526	52,270	55,828	57,888	59,118	59,870	60,320	60,496	60,622	60,700	60,728	60,728
July	0	15,684	31,068	42,516	51,123	57,087	60,632	62,711	63,932	64,713	65,130	65,312	65,441	65,517	65,540	65,540
August	0	19,966	35,500	47,709	56,427	62,640	66,162	68,261	69,470	70,284	70,662	70,852	70,983	71,057	71,074	71,074
September	0	34,146	55,571	73,450	85,519	94,394	99,162	102,054	103,684	104,847	105,301	105,571	105,754	105,853	105,865	105,865
October	9,028	91,286	137,449	178,604	204,717	223,608	233,655	239,883	243,296	245,906	246,710	247,313	247,715	247,916	247,916	247,916
November	29,128	148,881	223,349	289,738	331,863	360,716	376,923	386,969	392,476	396,686	397,983	398,956	399,604	399,928	399,928	399,928
December	34,462	176,145	264,251	342,798	392,637	426,774	445,949	457,835	464,350	469,331	470,866	472,017	472,784	473,167	473,167	473,167
<b>Total:</b>	<b>72,618</b>	<b>620,774</b>	<b>1,333,480</b>	<b>1,845,856</b>	<b>2,243,866</b>	<b>2,506,815</b>	<b>2,672,555</b>	<b>2,768,901</b>	<b>2,826,140</b>	<b>2,861,619</b>	<b>2,882,123</b>	<b>2,890,415</b>	<b>2,896,354</b>	<b>2,899,941</b>	<b>2,901,177</b>	<b>2,901,177</b>











Estimated Annual Natural Gas Demand by Sector (MCF)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<b>Residential Sector</b>			181,396	811,681	1,489,346	1,995,471	2,374,707	2,628,891	2,784,845	2,876,424	2,930,151	2,964,626	2,982,876	2,990,917	2,996,606	2,999,942	3,000,927	3,000,927
<b>Commercial Sector</b>																		
<b>Small Commercial</b>			286,534	416,337	537,655	600,381	651,298	681,918	692,549	697,510	699,991	700,700	700,700	700,700	700,700	700,700	700,700	700,700
<b>Medium Commercial</b>			198,386	819,837	1,722,150	2,075,460	2,353,039	2,509,070	2,566,416	2,586,858	2,597,079	2,600,000	2,600,000	2,600,000	2,600,000	2,600,000	2,600,000	2,600,000
<b>Large Commercial</b>			102,321	576,947	1,021,320	1,256,058	1,449,296	1,569,550	1,613,956	1,634,678	1,645,039	1,648,000	1,648,000	1,648,000	1,648,000	1,648,000	1,648,000	1,648,000
<b>Multi-Residential</b>			47,659	226,664	394,360	481,619	552,748	595,960	611,266	618,408	621,979	623,000	623,000	623,000	623,000	623,000	623,000	623,000
<b>Projected Total System Demand per Year</b>			816,296	2,851,465	5,164,832	6,408,988	7,381,088	7,985,389	8,269,032	8,413,878	8,494,238	8,536,326	8,554,576	8,562,617	8,568,306	8,571,642	8,572,627	8,572,627

**Notes/Assumptions:**

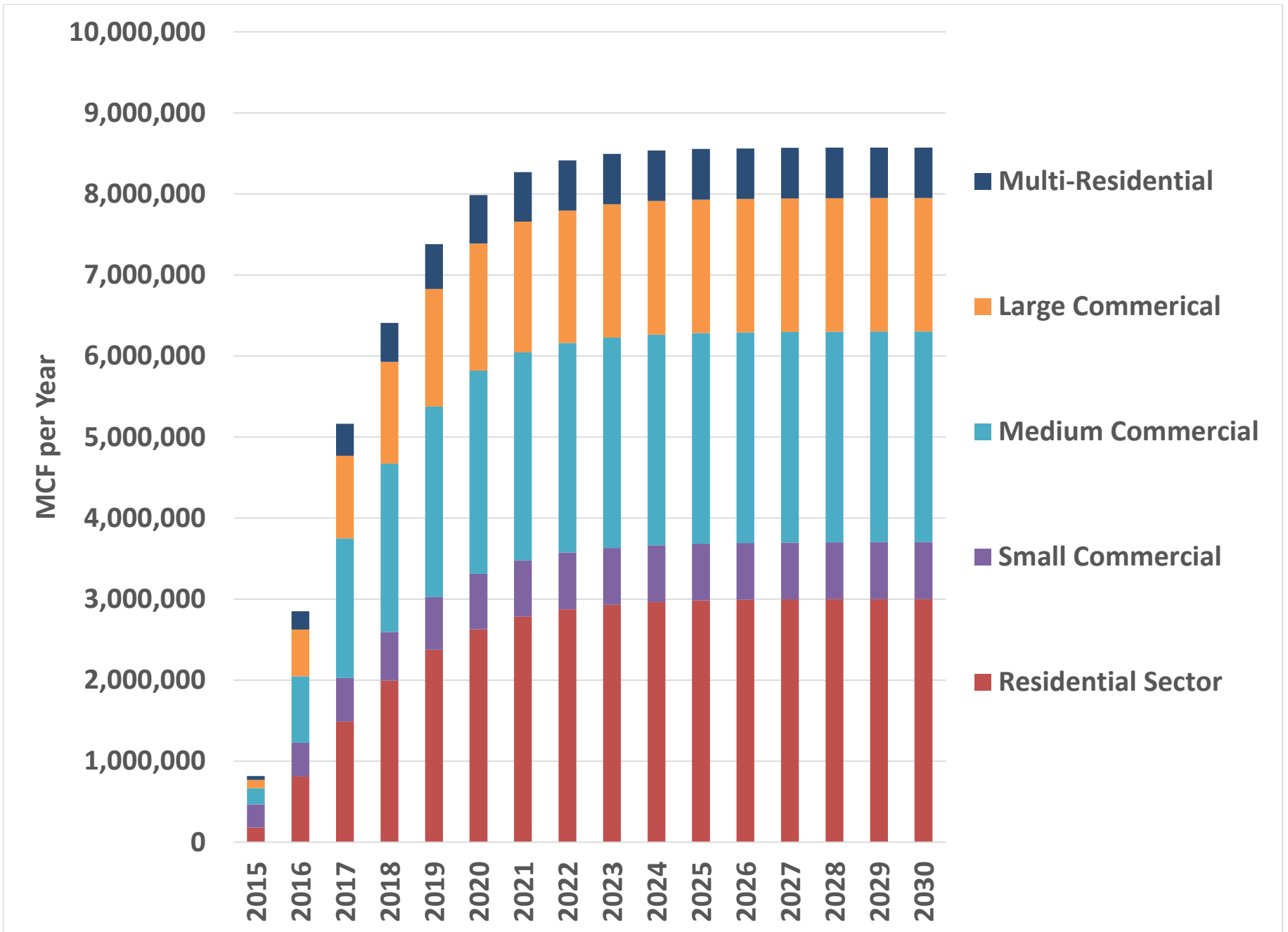
2015 demand represents, 4th quarter volumes only. 1st gas from LNG plant is assumed to be available starting 4th quarter of 2015. The 2015 demand could be higher if all interruptible customers's demand are met and residential customers that are within the existing distribution system/service area immediately convert.

Volumes for new customers are assumed to represent gas demand from April to December on their 1st year of hook-up, with year-round consumption, the following year.

No change in number of residential and commercial structures in the future (constant)

Average consumption per customer is assumed to be 190 MCF per year; Considers that lower gas prices would increase average consumption (price elasticity of demand).

Institutional	Estimated Natural Gas Requirements per Year
<b>Schools</b>	25,937
<b>University</b>	1,216,998
<b>Hospital</b>	130,000
<b>Total:</b>	1,372,935
<b>Electric Utility</b>	3,100,000
<b>Industrial</b>	4,800,000
<b>Total</b>	<b>8,255,937</b>







Zone Name		Residential Type A - Std Count	Fbks Mem. Hospital Count	Commercial Type A - SM Count
97, 98 & 99 Install		375		330
2000 Install		150		90
Fbks Memorial Hospital	high	-	1	
Airport	1 high	15		30
Airport-North	2 high	161		12
University - West	3 high	981		2
Geist	4 high	528		9
Railroad Prop. North	7 high	141		26
Railroad Prop. South	8 high	146		33
Taku	9 high	560		9
Executive Estates	10 high	425		27
Davis Road	11 high	36		8
Restaurant Row	12 high	354		3
AE Heating District	13 high	681		111
Cushman North	14 high	246		87
Hospital	15 high	93		5
Bjerremark	16 high	314		9
Leasure	17 high	17		38
Lakeview estate	18 high	15		2
Island Homes *	19 high	416		9
Hamilton Acres *	20 high	737		11
Shannon Park	21 high	462		3
Bentley Area	22 high	212		26
Shanley *	5 medium	191		11
Aurora *	6 medium	594		32
Lemata	23 medium	197		5
Steese-South	25 medium	561		24
Steese-North	26 medium	897		5
Farmer's Loop-Skyline	27 medium	575		9
Farmer's Loop-Ski Boot Hill	28 medium	264		
Farmer's Loop-Auburn	29 medium	714		
Farmer's Loop - South	30 medium	72		2
UAF	31 medium		1	
Chena Ridge- East	32 medium	635		3
Chena Pump	33 medium	252		18
FBKS SUBTOTAL		<b>12,017</b>	<b>2</b>	<b>989</b>
North Pole - Phase 1	high	677		21
North Pole - Phase 2	high	1,250		23
North Pole - Phase 3	high	2,654		45
NP SUBTOTAL		<b>4,581</b>	<b>-</b>	<b>89</b>
System Totals		<b>16,598</b>	<b>2</b>	<b>1,078</b>

From page 45 of FNG application  
From this page  
Consumption (existing customers)  
Estimated additional consumption

	Residential Type A - Std	Hospital and UAF	Commercial Type A - SM
	3,162,100	330,000	423,150
	<b>3,153,620</b>	330,000	700,700
	99,750	-	273,000
	3,053,870	330,000	427,700

**Additional Demand**

Residential Sector	3,647,870
Commercial Sector	4,789,700

Commercial Type B - MD Count	Commercial Type C - LG Count	Multi-Resid Count	Total Structure Count
45	8	23	781
15	3	21	279
			1
14	5		64
2	2		177
	2	35	1,020
11	11	24	583
41	6	20	234
23	2	12	216
9	15	3	596
53	21	21	547
6	33	3	86
20	17	5	399
107	2	69	970
72	5	63	473
		21	119
2	2	77	404
20	5	2	82
3		2	22
9	2	2	438
11	3	36	798
2	2	2	471
29	11	6	284
12	8	12	234
20	2	11	659
2	12	18	234
18	11	38	652
2		6	910
2		6	592
			264
	2	9	725
2			76
			1
3		2	643
12	2		284
<b>567</b>	<b>194</b>	<b>549</b>	<b>14,318</b>
9	1	20	728
29	2	15	1,319
65	13	54	2,831
<b>103</b>	<b>16</b>	<b>89</b>	<b>4,878</b>
<b>670</b>	<b>210</b>	<b>638</b>	<b>19,196</b>

Commercial Type B - MD	Commercial Type C - LG	Multi-Resid	Total
1,600,920	987,040	373,210	6,876,420
2,600,000	1,648,000	623,000	9,055,320
160,000	56,000	29,000	617,750
2,440,000	1,592,000	594,000	8,437,570

Residential Type A - Std Demand	Fbks Mem. Hospital Demand	Commercial Type A - SM Demand	Commercial Type B - MD Demand	Commercial Type C - LG Demand	Multi-Resid Demand
71,250	-	214,500	120,000	40,000	15,000
28,500	-	58,500	40,000	16,000	14,000
-	130,000	-	-	-	-
2,850	-	19,500	56,000	40,000	-
30,590	-	7,800	8,000	16,000	-
186,390	-	1,300	-	16,000	35,000
100,320	-	5,850	44,000	88,000	24,000
26,790	-	16,900	164,000	48,000	20,000
27,740	-	21,450	92,000	16,000	12,000
106,400	-	5,850	36,000	120,000	3,000
80,750	-	17,550	212,000	168,000	21,000
6,840	-	5,200	24,000	264,000	3,000
67,260	-	1,950	80,000	136,000	5,000
129,390	-	72,150	428,000	16,000	69,000
46,740	-	56,550	288,000	40,000	63,000
17,670	-	3,250	-	-	21,000
59,660	-	5,850	8,000	16,000	77,000
3,230	-	24,700	80,000	40,000	2,000
2,850	-	1,300	12,000	-	2,000
79,040	-	5,850	36,000	16,000	2,000
140,030	-	7,150	44,000	24,000	36,000
87,780	-	1,950	8,000	16,000	2,000
40,280	-	16,900	116,000	88,000	6,000
36,290	-	7,150	48,000	64,000	12,000
112,860	-	20,800	80,000	16,000	11,000
37,430	-	3,250	8,000	96,000	18,000
106,590	-	15,600	72,000	88,000	38,000
170,430	-	3,250	8,000	-	6,000
109,250	-	5,850	8,000	-	6,000
50,160	-	-	-	-	-
135,660	-	-	-	16,000	9,000
13,680	-	1,300	8,000	-	-
	200,000				
120,650	-	1,950	12,000	-	2,000
47,880	-	11,700	48,000	16,000	-
<b>2,283,230</b>	<b>330,000</b>	<b>642,850</b>	<b>2,188,000</b>	<b>1,520,000</b>	<b>534,000</b>
128,630	-	13,650	36,000	8,000	20,000
237,500	-	14,950	116,000	16,000	15,000
504,260	-	29,250	260,000	104,000	54,000
<b>870,390</b>	<b>-</b>	<b>57,850</b>	<b>412,000</b>	<b>128,000</b>	<b>89,000</b>
<b>3,153,620</b>	<b>330,000</b>	<b>700,700</b>	<b>2,600,000</b>	<b>1,648,000</b>	<b>623,000</b>

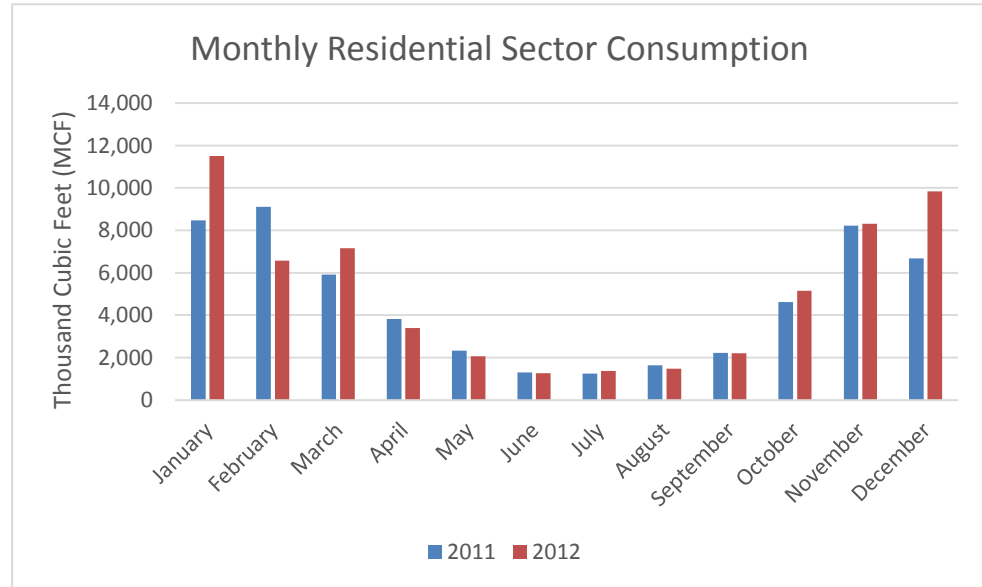
<b>Total System Demand</b>	<b>9,055,320</b>
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9.06
7.81
86.25%





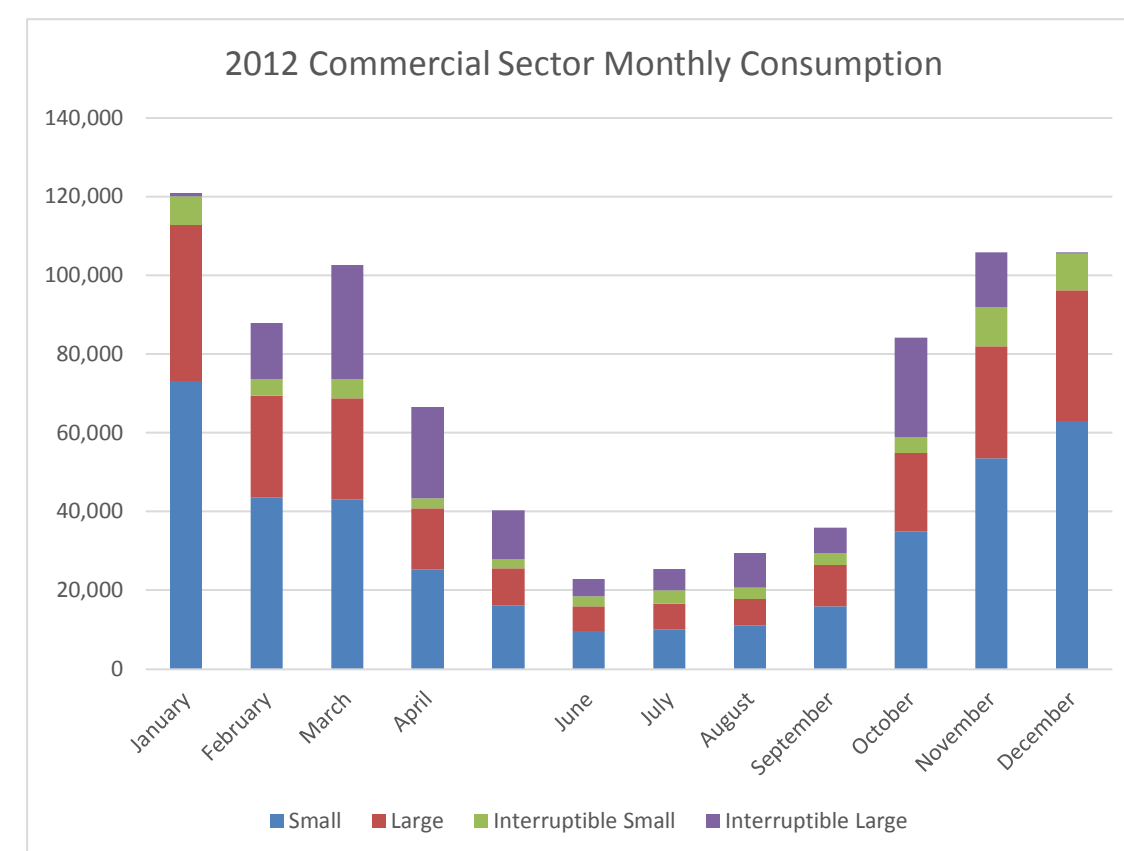
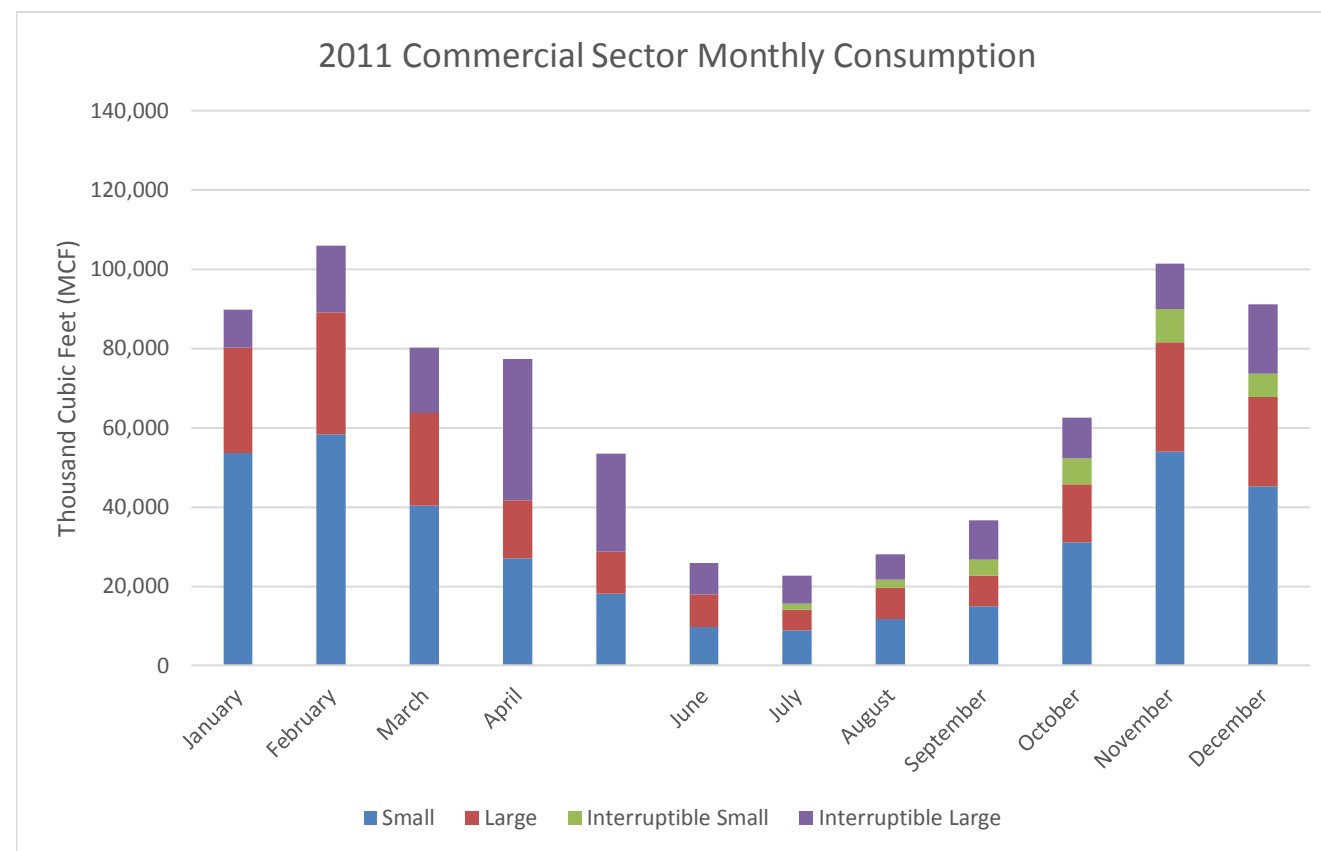
<b>Residential Sector</b>		<b>2011</b>	<b>2012</b>
<b>Actual Residential Count</b>			
Average		464	455
High		466	469
Low		463	435
<b>Actual Monthly Consumption</b>			
January		8,477	11,500
February		9,107	6,567
March		5,915	7,160
April		3,822	3,397
May		2,335	2,069
June		1,304	1,262
July		1,243	1,362
August		1,637	1,477
September		2,227	2,200
October		4,622	5,152
November		8,229	8,311
December		6,670	9,833
<b>Total Annual Consumption</b>		<b>55,588</b>	<b>60,290</b>
<b>Average Annual Consumption per customer</b>		<b>120</b>	<b>132</b>
Max		9,107	11,500
Min		1,243	1,262
Spread		7	9
<b>Average Monthly Consumption Per Customer</b>			
	<b>2011</b>	<b>2012</b>	<b>Adjusted</b>
January	18	25	36
February	20	14	21
March	13	16	23
April	8	7	11
May	5	5	7
June	3	3	4
July	3	3	4
August	4	3	5
September	5	5	7
October	10	11	16
November	18	18	26
December	14	22	31
<b>Total Annual Consumption</b>	<b>120</b>	<b>132</b>	<b>190</b>



2011	2012
15%	19%
16%	11%
11%	12%
7%	6%
4%	3%
2%	2%
2%	2%
3%	2%
4%	4%
8%	9%
15%	14%
12%	16%
1	1

	2011				2012					
	Small	Large	Interruptible Small	Interruptible Large	Total	Small	Large	Interruptible Small	Interruptible Large	Total
<b>Actual Count</b>										
Average	620	28	8	3	659	624	28	11	3	666
High	622					644				
Low	618					611				
<b>Actual Monthly Consumption</b>										
January	53,687	26,477	0	9,657	89,821	73,114	39,760	7,123	927	120,924
February	58,329	30,754	0	16,850	105,933	43,591	25,904	4,217	14,121	87,833
March	40,307	23,437	0	16,385	80,129	43,104	25,636	5,000	28,930	102,670
April	27,111	14,632	0	35,600	77,343	25,263	15,604	2,568	23,059	66,494
May	18,151	10,649	0	24,700	53,500	16,090	9,460	2,482	12,324	40,356
June	9,669	8,244	0	7,935	25,848	9,609	6,294	2,560	4,492	22,955
July	8,928	5,248	1,429	7,100	22,705	10,063	6,628	3,289	5,453	25,433
August	11,847	7,820	1,950	6,504	28,121	10,997	6,821	2,930	8,685	29,433
September	14,903	7,787	4,089	9,911	36,690	15,910	10,508	3,124	6,434	35,976
October	31,053	14,721	6,460	10,233	62,467	34,824	20,070	4,023	25,177	84,094
November	53,998	27,598	8,291	11,560	101,447	53,540	28,362	10,148	13,865	105,915
December	45,145	22,572	5,952	17,444	91,113	62,999	33,117	9,403	302	105,821
<b>Total Annual Consumption</b>	<b>373,128</b>	<b>199,939</b>	<b>28,171</b>	<b>173,879</b>	<b>775,117</b>	<b>399,104</b>	<b>228,164</b>	<b>56,867</b>	<b>143,769</b>	<b>827,904</b>
<b>Average Annual Consumption per customer</b>	602	7,141	3,521	57,960	1,177	640	8149	5170	47923	1243
Max	58,329	30,754	8,291	17,444	101,447	73,114	39,760	10,148	28,930	120,924
Min	8,928	5,248	1,429	6,504	22,705	9,609	6,294	2,482	302	22,955
Spread	7	6	6	3	4	8	6	4	96	5
<b>Average Monthly Consumption Per Customer</b>										
January	87	946	0	3,219	117	1,420	648	309	182	
February	94	1,098	0	5,617	70	925	383	4,707	132	
March	65	837	0	5,462	69	916	455	9,643	154	
April	44	523	0	11,867	40	557	233	7,686	100	
May	29	380	0	8,233	26	338	226	4,108	61	
June	16	294	0	2,645	15	225	233	1,497	34	
July	14	187	179	2,367	16	237	299	1,818	38	
August	19	279	244	2,168	18	244	266	2,895	44	
September	24	278	511	3,304	26	375	284	2,145	54	
October	50	526	808	3,411	56	717	366	8,392	126	
November	87	986	1,036	3,853	86	1,013	923	4,622	159	
December	73	806	744	5,815	101	1,183	855	101	159	
<b>Total Annual Consumption</b>	<b>602</b>	<b>7,141</b>	<b>3,521</b>	<b>57,960</b>	<b>0</b>	<b>640</b>	<b>8,149</b>	<b>5,170</b>	<b>47,923</b>	<b>1,243</b>

Actual Monthly Consumption	2012	Small	Medium	Large	Multi-Residential	Small	Large
		Adjusted	Adjusted	Adjusted	Adjusted		
January	117	119	697	1,394	183	18%	17%
February	70	71	454	908	109	11%	11%
March	69	70	449	899	108	11%	11%
April	40	41	274	547	63	6%	7%
May	26	26	166	332	40	4%	4%
June	15	16	110	221	24	2%	3%
July	16	16	116	232	25	3%	3%
August	18	18	120	239	28	3%	3%
September	26	26	184	368	40	4%	5%
October	56	57	352	704	87	9%	9%
November	86	87	497	994	134	13%	12%
December	101	103	581	1,161	158	16%	15%
<b>Total Annual Consumption</b>	<b>640</b>	<b>650</b>	<b>4,000</b>	<b>8,000</b>	<b>1,000</b>	<b>100%</b>	<b>100%</b>



Fairbanks Natural Gas, LLC																											
Schedule of Gas Usage with Heating Degree Days (HDD)																											
By Rate Class																											
(Usage units in Mcf)																											
	01/31/11		02/28/11		03/31/11		04/30/11		05/31/11		06/30/11		07/31/11		08/31/11		09/30/11		10/31/11		11/30/11		12/31/11		Annual Totals		
	Avg Customer Count	Monthly Usage	Average Usage Per Customer	Monthly Usage	Average Usage Per Customer	Monthly Usage	Average Usage Per Customer	Monthly Usage	Average Usage Per Customer	Monthly Usage	Average Usage Per Customer	Monthly Usage	Average Usage Per Customer	Monthly Usage	Average Usage Per Customer	Monthly Usage	Average Usage Per Customer	Monthly Usage	Average Usage Per Customer	Monthly Usage	Average Usage Per Customer	Monthly Usage	Average Usage Per Customer	Monthly Usage	Average Usage Per Customer	Total Annual Usage	Average Annual Usage Per Customer
Residential	464	8,477	18	9,107	20	5,915	13	3,822	8	2,335	5	1,304	3	1,243	3	1,637	4	2,227	5	4,622	10	8,229	18	6,670	14	55,588	120
Small Commercial	620	53,687	87	58,329	94	40,307	65	27,111	44	18,151	29	9,669	16	8,928	14	11,847	29	14,903	24	31,053	50	53,998	87	45,145	73	373,128	602
Large Commercial	28	26,477	946	30,754	1,098	23,437	837	14,632	523	10,649	380	8,244	294	5,248	187	7,820	279	7,787	278	14,721	526	27,598	986	22,572	806	199,939	7,141
Interruptible Small Commercial	8	-	-	-	-	-	-	-	-	-	-	-	-	1,429	179	1,950	244	4,089	511	6,460	808	8,291	1,036	5,952	744	28,171	3,521
Interruptible Large Commercial	3	9,657	3,219	16,850	5,617	16,385	5,462	35,600	11,867	24,700	8,233	7,935	2,645	7,100	2,367	6,504	2,168	9,911	3,304	10,233	3,411	11,560	3,853	17,444	5,815	173,879	57,960
Totals	1,123	98,298		115,040		86,044		81,165		55,835		27,152		23,948		29,758		38,917		67,089		109,676		97,783		830,705	
Monthly HDD <sup>1</sup>		2,123		2,262		1,661		1,026		461		129		96		237		453		1,088		2,190		1,847		13,573	
	01/31/12		02/29/12		03/31/12		04/30/12		05/31/12		06/30/12		07/31/12		08/31/12		09/30/12		10/31/12		11/30/12		12/31/12		Annual Totals		
	Avg Customer Count	Monthly Usage	Average Usage Per Customer	Monthly Usage	Average Usage Per Customer	Monthly Usage	Average Usage Per Customer	Monthly Usage	Average Usage Per Customer	Monthly Usage	Average Usage Per Customer	Monthly Usage	Average Usage Per Customer	Monthly Usage	Average Usage Per Customer	Monthly Usage	Average Usage Per Customer	Monthly Usage	Average Usage Per Customer	Monthly Usage	Average Usage Per Customer	Monthly Usage	Average Usage Per Customer	Monthly Usage	Average Usage Per Customer	Total Annual Usage	Average Annual Usage Per Customer
Residential	455	11,500	25	6,567	14	7,160	16	3,397	7	2,069	5	1,262	3	1,362	3	1,477	3	2,200	5	5,152	11	8,311	18	9,833	22	60,290	133
Small Commercial	624	73,114	117	43,591	70	43,104	69	25,263	40	16,090	26	9,609	15	10,063	16	10,997	18	15,910	25	34,824	56	53,540	86	62,999	101	399,104	640
Large Commercial	28	39,760	1,420	25,904	925	25,636	916	15,604	557	9,460	338	6,294	225	6,628	237	6,821	244	10,508	375	20,070	717	28,362	1,013	33,117	1,183	228,164	8,149
Interruptible Small Commercial	11	7,123	648	4,217	383	5,000	455	2,568	233	2,482	226	2,560	233	3,289	299	2,930	266	3,124	284	4,023	366	10,148	923	9,403	855	56,867	5,170
Interruptible Large Commercial	3	927	309	14,121	4,707	28,930	9,643	23,059	7,686	12,324	4,108	4,492	1,497	5,453	1,818	8,685	2,895	6,434	2,145	25,177	8,392	13,865	4,622	302	101	143,769	47,923
Totals	1,121	132,424		94,400		109,830		69,891		42,425		24,217		26,795		30,910		38,176		89,246		114,226		115,654		888,194	
Monthly HDD <sup>1</sup>		2,847		1,705		1,824		869		522		113		137		263		519		1,377		2,205		2,538		14,919	

<sup>1</sup>(HDD = a measure of how much (in degrees), and for how long (in days), outside air temperature was lower than a specific "base temperature" (or "balance point")). The base temperature that is used for our calculation is 65 degrees F.

FNG, LLC Regression Model														
<b>2011</b>														
Read Date	1/28/2011	2/28/2011	3/29/2011	4/28/2011	5/31/2011	6/29/2011	7/28/2011	8/30/2011	9/29/2011	10/30/2011	11/29/2011	12/30/2011		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Normalized per read dates (HDD)	2,123	2,262	1,661	1,026	461	129	96	237	453	1,088	2,190	1,847		
Monthly (HDD)	2,195	1,989	1,763	988	397	140	107	233	475	1,114	2,194	1,881		
<b>Actual Heating Degree Days per Billing Cycle</b>	2,123	2,262	1,661	1,026	461	129	96	237	453	1,088	2,190	1,847		
<b>RESIDENTIAL</b>														
	<u>Line</u>													
<b>Actual Residential Count</b>	a	464	465	465	463	463	463	463	466	466	466	466	466	466
<b>Actual Residential Mcf</b>	b	8,477	9,107	5,915	3,822	2,335	1,304	1,243	1,637	2,227	4,622	8,229	6,670	
AVG Use per Account (Mcf's)	c	18.27	19.58	12.72	8.26	5.04	2.82	2.68	3.53	4.78	9.92	17.66	14.31	
Projected Usage per Regression Model (Mcf's)	d	8,045	8,543	6,465	4,252	2,307	1,164	1,051	1,536	2,294	4,494	8,312	7,124	
Variance (Mcf's)	= d - b	(431)	(564)	550	430	(28)	(139)	(192)	(100)	67	(127)	83	454	
												Annual Variance (Mcf)		2
Regression Model (RES)	2011	2012	2yr Avg											
Base	1.56	1.09	1.30											
Per DD	0.0074	0.0078	0.0077											
Result/Correlation	99.33%	99.52%	99.41%											
<b>SMALL COMMERCIAL</b>														
	<u>Line</u>													
<b>Actual Sm Cmcl Count</b>	a	621	620	620	622	622	622	619	618	618	618	618	618	618
<b>Actual Small Commercial Mcf</b>	b	53,687	58,329	40,307	27,111	18,151	9,669	8,928	11,847	14,903	31,053	53,998	45,145	
AVG Use per Account (Mcf's)	c	86.45	94.08	65.01	43.59	29.18	15.54	14.42	19.17	24.11	50.25	87.38	73.05	
Projected Usage per Regression Model (Mcf's)	d	52,882	55,835	42,698	28,912	16,522	9,242	8,477	11,536	16,242	30,077	54,086	46,613	
Variance (Mcf's)	= d - b	(805)	(2,494)	2,391	1,800	(1,629)	(427)	(450)	(311)	1,339	(976)	88	1,468	
												Annual Variance (Mcf)		(7)
Regression Model (SCM)	2011	2012	2yr Avg											
Base	10.31	7.81	9.00											
Per DD	0.035	0.0370	0.0362											
Result/Correlation	99.69%	99.63%	99.62%											

FNG, LLC Regression Model														
<b>2012</b>														
Read Date	1/31/2012	2/29/2012	3/30/2012	4/30/2012	5/31/2011	6/29/2011	7/31/2012	8/30/2011	9/28/2012	10/31/2012	11/30/2012	12/31/2012		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Normalized per read dates (HDD)	2,847	1,705	1,824	869	522	113	137	263	519	1,377	2,205	2,538		
Monthly (HDD)	2,847	1,705	1,865	827	522	115	135	263	576	1,311	2,205	2,538		
<b>Actual Heating Degree Days per Billing Cycle</b>	2,847	1,705	1,824	869	522	113	137	263	519	1,377	2,205	2,538		
<b>RESIDENTIAL</b>														
	<u>Line</u>													
<b>Actual Residential Count</b>	a	469	469	469	469	448	439	435	435	457	458	458	458	458
<b>Actual Residential Mcf</b>	b	11,500	6,567	6,672	3,397	2,069	1,262	1,364	1,477	2,200	5,152	8,311	9,833	
AVG Use per Account (Mcf's)	c	24.52	14.00	14.23	7.24	4.62	2.87	3.14	3.40	4.81	11.25	18.15	21.47	
Projected Usage per Regression Model (Mcf's)	d	10,950	6,762	7,198	3,696	2,315	865	939	1,367	2,351	5,429	8,394	9,587	
Variance (Mcf's)	= d - b	(550)	195	527	299	246	(397)	(425)	(110)	151	277	83	(246)	
												Annual Variance (Mcf)		51
Regression Model (RES)	2011	2012	2yr Avg											
Base	1.56	1.09	1.30											
Per DD	0.0074	0.0078	0.0077											
Result/Correlation	99.33%	99.52%	99.41%											
<b>SMALL COMMERCIAL</b>														
	<u>Line</u>													
<b>Actual Sm Cmcl Count</b>	a	611	611	611	611	631	639	644	644	622	621	621	621	
<b>Actual Small Commercial Mcf</b>	b	73,114	43,591	43,104	25,263	16,090	9,609	10,063	10,997	15,910	34,824	53,540	62,999	
AVG Use per Account (Mcf's)	c	119.66	71.34	70.55	41.35	25.50	15.04	15.63	17.08	25.58	56.08	86.22	101.45	
Projected Usage per Regression Model (Mcf's)	d	69,101	43,298	45,987	24,408	17,110	7,662	8,294	11,295	16,797	36,474	55,489	63,136	
Variance (Mcf's)	= d - b	(4,013)	(293)	2,883	(855)	1,020	(1,947)	(1,769)	298	887	1,650	1,949	137	
												Annual Variance (Mcf)		(53)
Regression Model (SCM)	2011	2012	2yr Avg											
Base	10.31	7.81	9.00											
Per DD	0.035	0.0370	0.0362											
Result/Correlation	99.69%	99.63%	99.62%											

**Estimated Natural Gas Demand (Mcf/Year) : (assuming facilities convert from oil to natural gas MMBTU to MCF) 1**

Schools	Ave. Annual Heating Oil Usage	BTUs/Unit	BTUs	MCF
Ladd Elementary	23,000	138,700	3,190,100,000	3,190
Tanana Middle School	36,000	138,700	4,993,200,000	4,993
University Park Elementary	18,000	138,700	2,496,600,000	2,497
Howard Luke/Effie Kokrine	13,000	138,700	1,803,100,000	1,803
Joy Elementary	22,000	138,700	3,051,400,000	3,051
Randy Smith Middle School	24,000	138,700	3,328,800,000	3,329
Anne Wein Elementary	22,000	138,700	3,051,400,000	3,051
Woodriver Elementary	29,000	138,700	4,022,300,000	4,022
Total:	187,000			25,937

**Updated Data for UAF (Source: Charles Ward, Personal Communication, E-mail received on 1/17/12)**

Fuel Source/Generation	2010	MWH	2011	MWH
Coal Consumption (tons)	74,583		74,315	
Oil Consumption (gallons)	932,800		485,000	
Natural Gas (MCF)	20,800		64,000	
Total Generation (MWH)		62,090		56,063

Note: The utility is in the planning phase of a new combined heat and power plant to replace to old one.  
The new plant will burn solid fuels.

**Estimated Natural Gas Demand (Mcf/Year) : (assuming facilities convert from coal, oil to natural gas)**

Conversion:  
MMBTU to MCF 1

College/UAF	Source	Unit	Consumption	BTUs/Unit	Unit Measure	lbs/ton	BTUs	MCF
	coal	tons	74,315	6,900	lbs	2,240	1.14861E+12	1,148,613
	oil	gallons	485,000	141,000	gallons		68385000000	68,385