



Report

Social Housing Needs Assessment for the 14
Inuit Communities of Nunavik

Audit & Assurance – Advisory – October 2019

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Kangiqsujuaq	Eva J Annahatak	Housing Manager
Kangirsuk	Lucy Haukai Eléna Airo	Housing Manager Housing Manager
Kuujjuaq	Nancy J Saunders Linda Roy-Makiuk	Housing Manager Administrative Technician
Kuujjuaraapik	Savannah Ittoshat Sara Kitishimik	Assistant Housing Manager Housing Assistant
Puvirnituaq	Annie Novalinga	Housing Manager
Quaqtaq	Jimmy Okpik	Housing Manager / Pivallianiq
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Umiujaq	Dona Davies Lucy Kumarluk	Collaborator Assistant Housing Manager

Introduction

This report presents the fourth study conducted since 2013, which aims to identify and update the number of families and individuals living in all housing managed by the KMHB / OMHK in the 14 villages of Nunavik. The first study was conducted in 2012-13 by BDL Groupe Conseil inc. firm of Quebec City, the second study was conducted internally by the KMHB management in 2015 and the third study was conducted in 2016-2017 once more by the BDL Groupe Conseil inc. firm. This fourth study is conducted by Deloitte.

Data collection for this fourth study took place between January and March 2019. The questionnaire used in the third study was reused to conduct the study. As a first step, we updated the questionnaires completed in 2017, taking into account the movement of people in housing or within families. Subsequently, the "housing managers" completed a questionnaire for each new home and each new family that had been allocated housing since the last study.

The study aims to draw up the current portrait and inventory of housing and to account for the number of people per dwelling and family. A questionnaire was completed for almost all Nunavik housing and families by the "housing managers" with the assistance of an external coordinator, a subcontractor of the Deloitte firm. The latter and another member of the Deloitte team were actively involved in the 2013 and 2017 studies.

It is important to note that this study has achieved, as in the previous three studies, an exceptionally high participation rate and sampling level. This time, 4,425 families and more than 12,222 people living in 3,384 housing units administered by the KMHB / OMHK were reached during the conduct of this study.

The following pages provide you with the results of this fourth study. We hope that it will serve the intended purpose and assist managers in making appropriate decisions in the planning and management of the housing stock, including the allocation of new housing and the optimization of existing housing.

1 – The Mandate

The mandate, under the direction of Deloitte, consisted in supervising the "housing managers" in the updating and administration of the questionnaires in order to ensure that they were completed consistently and without error by as many families living in all the housing administered by the KMHB / OMHK. The objective was to provide a complete and accurate picture of the current occupancy of the dwellings and to identify any needs that may need to be met. To achieve this objective, it was essential to achieve a high participation rate while collecting reliable and relevant data.

The mandate also included compiling the data collected by the "housing managers" and producing a report providing a portrait of housing occupancy in 2019.

PROJET

2 – Performance Steps

More specifically, to achieve our mandate, the following steps had to be taken:

- Updating of questionnaires completed during the third study conducted in 2016-17
- Configuring an Excel tool to compile data
- Supervising housing managers and / or persons designated to ensure standardization during data collection, either for the administration or updating of questionnaires
- Training of "housing managers" and the people involved in order to give them clear indications and instructions before starting the work
- Supporting housing managers and people involved during the study period. Follow-ups were carried out during the external coordinator's visits to several villages, by telephone follow-ups and e-mail exchanges
- Collecting and reviewing questionnaires upon receipt to ensure that they were properly completed
- Data entry and processing in Excel files
- Compiling and analyzing results
- Reporting

PROJET

3 – Population in Nunavik

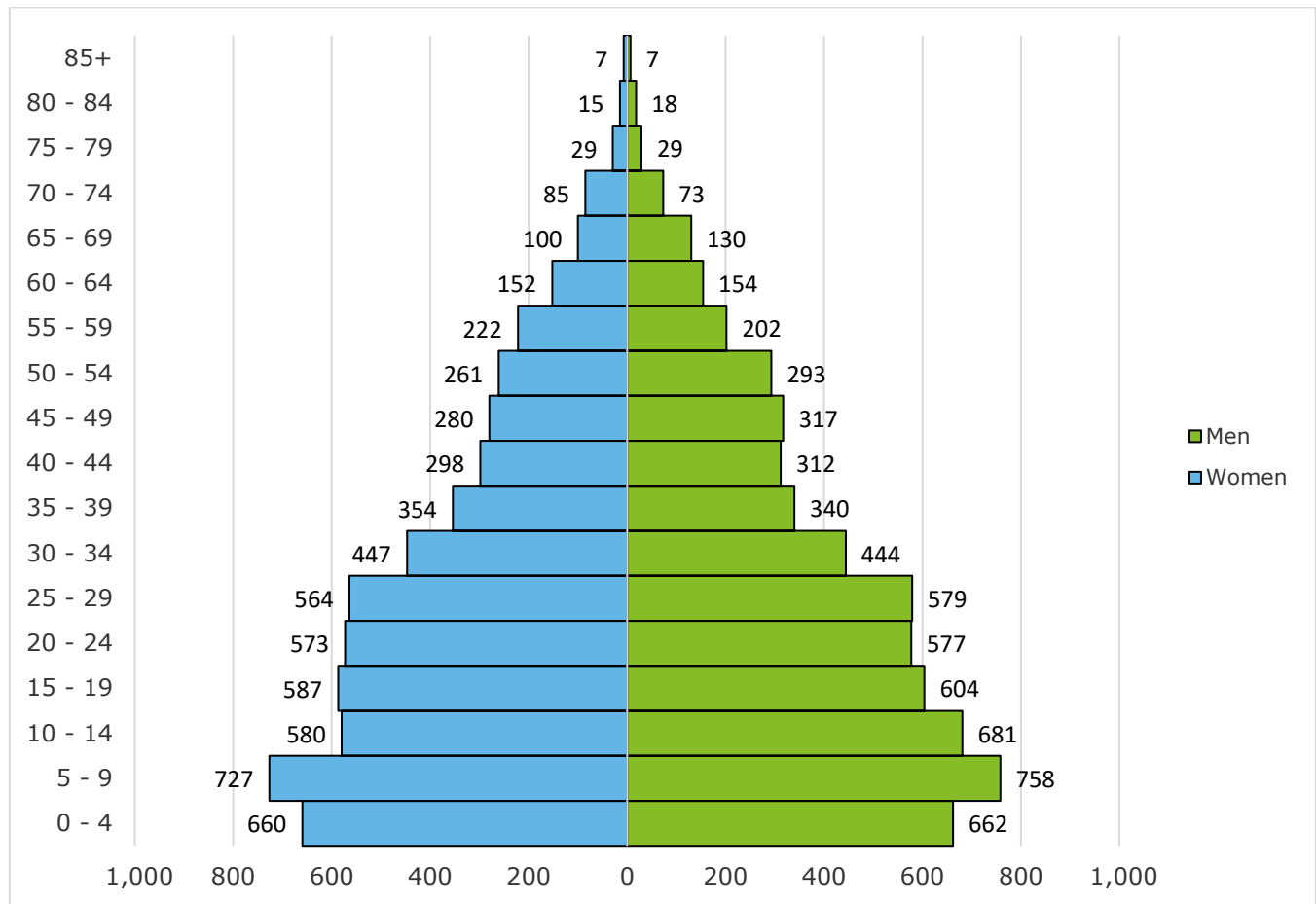
According to data from the Institut de la statistique du Québec, the population in Nunavik increased by 11.56% between 2011 and 2017. The number of inhabitants increased from 12,211 in 2011 to 13,623 in 2017.

Table 3.1 –Population in Nunavik

Village	2011	2016	2017
1: Akulivik	620	679	693
2: Aupaluk	198	223	225
3: Inukjuak	1,619	1,777	1,812
4: Ivujivik	372	395	415
5: Kangiqsualujjuaq	882	970	998
6: Kangiqsujuaq	703	776	789
7: Kangirsuk	554	631	634
8: Kuujjuaq	2,403	2,703	2,687
9: Kuujjuaraapik	665	711	724
10: Puvirnituq	1,703	1,859	1,881
11: Quaqtaq	379	447	448
12: Salluit	1,360	1,461	1,495
13: Tasiujaq	305	369	349
14: Umiujaq	448	467	473
Total	12,211	13,468	13,623

Source: Institut de la statistique du Québec, Population estimates and Statistics Canada, Population estimates. Adapted by the Institut de la statistique du Québec.

Table 3.2 - Age pyramid of people reached in the 2019 study



Data for this age pyramid come from the questionnaires completed during this study.

Men	Women	Unknown / inaccurate
6,218	5,969	35
51%	49%	0.3%

4 – The KMHB Housing Stock

The housing stock currently administered by the KMHB / OMHK is believed to consist of 3,477 dwellings, of which 3,384 are inhabited, 79 are unoccupied and 14 are reported to have been destroyed by fire.

Table 4.1 – Housing covered by the 2019 study†

2019 Q1. Village	Number of dwellings							
	Total KMHB	KMHB		Incendiés	Total Non- KMHB	Non-OMHK		
Inhabitated	Vacant	Employer Hse	Private Hse			Other**		
1: Akulivik	163	158	5	-	-	-	-	-
2: Aupaluk	67	67	-	-	-	-	-	-
3: Inukjuak	483	474	8	1	2	-	-	1
4: Ivujivik	117	115	2	-	-	-	-	-
5: Kangiqsualujuaq	210	210	-	-	7	3	3	1
6: Kangiqsujuaq	266	253	9	4	1	-	1	-
7: Kangirsuk	154	153	1	-	-	-	-	-
8: Kuujuaq	561	546	15	-	68	20	30	18
9: Kuujuaaraapik	214	206	7	1	-	-	-	-
10: Puvirnituaq	497	469	20	8	1	-	-	1
11: Quaqtaq	124	120	4	-	7	1	6	-
12: Salluit	385	385	-	-	-	-	-	-
13: Tasiujaq	98	90	8	-	-	-	-	-
14: Umiujaq	138	138	-	-	7	2	1	2
Total	3,477	3,384	79*	14	93	26	41	20

† Some communities have also provided data on other housing units that are not managed by the KMHB. These data are incomplete and are provided as a supplement.

** The "Other" category includes people living outside Nunavik and wishing to return, people living in camps ("shacks") and homeless people.

* The number of vacant houses or dwellings differs between the time we collected the data and the tabling of the final report. At the time of data collection in the villages, some housing units had not yet been allocated (new or renovated houses, evicted tenants, etc.). We therefore considered the uninhabited and leasehold-free housing units as vacant for this study.

5 – Surveyed Population

This study covered the entire population of the 14 villages of Nunavik living in housing administered by the KMHB / OMHK. This study reached more than 12,222 people in more than 4,425 families living in over 3,384 homes administered by the KMHB / OMHK.

Table 5.1 – Population surveyed in the 2019 study

Population reached by the studies			
Q1. Village	2013	2017	2019
1: Akulivik	593	644	640
2: Aupaluk	188	188	221
3: Inukjuak	1,635	1,700	1,833
4: Ivujivik	354	387	405
5: Kangiqsualujuaq	841	858	892
6: Kangiqsujuaq	668	718	751
7: Kangirsuk	508	508	511
8: Kuujuaq	1,709	1,726	1,794
9: Kuujuaaraapik	629	590	649
10: Puvirnituq	1,561	1,645	1,854
11: Quaqtaq	355	393	406
12: Salluit	1,235	1,402	1,447
13: Tasiujaq	269	296	329
14: Umiujaq	417	413	490
Total	10,962	11,468	12,222

Before moving on to the following tables, it is important for the reader to understand the distinction between household and family:

A household includes all families and their members living in the same housing unit, while a family includes one or more persons living or wishing to live together. Thus, several families living in the same house or dwelling constitute a household.

Distribution by Village of the Number of People Reached by the Study, by Household Size (same dwelling)

The study reached 12,222 people living in 3,384 homes (or households) managed by the KMHB / OMHK. The following table 5.2 gives us the number of people in a household living in the same dwelling. For example, 643 people live alone, 1,224 people live in pairs and so on.

Table 5.2 - Distribution by village of the number of people reached by the study, by household size (same dwelling)

Q1. Village	Total	Q5. Dwelling size											
		1	2	3	4	5	6	7	8	9	10	11	12
1: Akulivik	640 100%	24 4%	38 6%	77 12%	116 18%	90 14%	126 20%	56 9%	50 8%	43 7%	20 3%	-	-
2: Aupaluk	221 100%	17 8%	20 9%	38 17%	32 14%	28 13%	54 24%	15 7%	8 4%	9 4%	-	-	-
3: Inukjuak	1,833 100%	86 5%	136 7%	191 10%	375 20%	313 17%	311 17%	172 9%	99 5%	87 5%	40 2%	11 1%	12 1%
4: Ivujivik	405 100%	22 5%	28 7%	85 21%	96 24%	44 11%	52 13%	35 9%	16 4%	18 4%	-	9 2%	-
5: Kangiqsualujuaq	892 100%	23 3%	46 5%	125 14%	140 16%	153 17%	154 17%	102 11%	82 9%	24 3%	10 1%	21 2%	12 1%
6: Kangiqsujuaq	751 100%	67 9%	105 14%	127 17%	153 20%	118 16%	107 14%	35 5%	30 4%	9 1%	-	-	-
7: Kangirsuk	511 100%	32 6%	54 11%	102 20%	87 17%	106 21%	47 9%	15 3%	39 8%	19 4%	10 2%	-	-
8: Kuujuaq	1,794 100%	95 5%	270 15%	294 16%	444 25%	311 17%	205 11%	111 6%	32 2%	22 1%	10 1%	-	-
9: Kuujjuaraapik	649 100%	58 9%	89 14%	94 14%	78 12%	101 16%	78 12%	84 13%	40 6%	27 4%	-	-	-
10: Puvirnituk	1,854 100%	76 4%	207 11%	238 13%	287 15%	325 18%	174 9%	244 13%	118 6%	106 6%	43 2%	24 1%	12 1%
11: Quaqtak	406 100%	26 6%	48 12%	57 14%	61 15%	81 20%	60 15%	28 7%	24 6%	9 2%	-	-	12 3%
12: Salluit	1,447 100%	67 5%	112 8%	165 11%	286 20%	334 23%	227 16%	119 8%	48 3%	46 3%	10 1%	33 2%	-
13: Tasiujaq	329 100%	17 5%	31 9%	43 13%	68 21%	35 11%	66 20%	28 9%	32 10%	9 3%	-	-	-
14: Umiujaq	490 100%	33 7%	40 8%	75 15%	71 14%	115 23%	60 12%	34 7%	8 2%	34 7%	20 4%	-	-
Total	12,222 100%	643 5%	1,224 10%	1,711 14%	2,294 19%	2,154 18%	1,721 14%	1,078 9%	626 5%	462 4%	163 1%	98 1%	48 0%

Distribution by Village of the Number of People Reached by the Study, by Family Size

The study reached 12,222 people in 4,425 families living in 3,384 homes managed by the KMHB / OMHK. According to the data in Table 5.3 below, there are 1,483 families with only one member. Two-member families total 1,730 people, three-member families total 2,169 people and so on.

Table 5.3 - Distribution by village of the number of people reached by the study, by family size

2019		Q8. Number of persons in family												
Q1. Village	Total	1	2	3	4	5	6	7	8	9	10	11	12	
1: Akulivik	640 100%	42 7%	62 10%	120 19%	120 19%	75 12%	144 23%	35 5%	24 4%	18 3%	-	-	-	
2: Aupaluk	221 100%	22 10%	28 13%	39 18%	40 18%	30 14%	48 22%	14 6%	-	-	-	-	-	
3: Inukjuak	1833 100%	181 10%	198 11%	270 15%	400 22%	310 17%	216 12%	126 7%	48 3%	54 3%	30 2%	-	-	
4: Ivujivik	405 100%	28 7%	42 10%	90 22%	120 30%	45 11%	36 9%	28 7%	16 4%	-	-	-	-	
5: Kangiqsualujuaq	892 100%	74 8%	104 12%	186 21%	152 17%	140 16%	120 13%	84 9%	32 4%	-	-	-	-	
6: Kangiqsujuaq	751 100%	165 22%	142 19%	129 17%	116 15%	110 15%	60 8%	21 3%	8 1%	-	-	-	-	
7: Kangirsuk	511 100%	54 11%	74 14%	114 22%	84 16%	75 15%	36 7%	14 3%	32 6%	18 4%	10 2%	-	-	
8: Kuujuaq	1794 100%	141 8%	298 17%	327 18%	460 26%	305 17%	156 9%	63 4%	16 1%	18 1%	10 1%	-	-	
9: Kuujuaaraapik	649 100%	134 21%	122 19%	114 18%	60 9%	115 18%	54 8%	42 6%	8 1%	-	-	-	-	
10: Puvirnituq	1870 100%	267 14%	320 17%	336 18%	276 15%	260 14%	138 7%	133 7%	64 3%	54 3%	10 1%	-	12 1%	
11: Quaataq	407 100%	64 16%	44 11%	78 19%	64 16%	70 17%	42 10%	28 7%	8 2%	9 2%	-	-	-	
12: Salluit	1448 100%	227 16%	192 13%	204 14%	272 19%	270 19%	150 10%	98 7%	16 1%	9 1%	10 1%	-	-	
13: Tasiujaq	329 100%	21 6%	32 10%	45 14%	72 22%	40 12%	66 20%	21 6%	32 10%	-	-	-	-	
14: Umiujaq	490 100%	63 13%	72 15%	117 24%	92 19%	75 15%	24 5%	21 4%	8 2%	18 4%	-	-	-	
Total	12,240 100%	1,483 12%	1,730 14%	2,169 18%	2,328 19%	1,920 16%	1,290 11%	728 6%	312 3%	198 2%	70 1%	-	12 0%	

* The overall difference of 18 people between Tables 5.2 and 5.3 is due to incorrect information on the forms.

Distribution by Village of Nunavik Families

A total of 4,425 questionnaires were administered to as many families in 3,384 dwellings. The Family 1 category alone includes 3,384 families, while the Family 2 and following categories cover 1,041 families.

Table 5.4 below shows that the number of families completing the questionnaire, all categories combined, increased by 25% between the 2013 and 2019 studies, for a total increase of over 894 families.

Table 5.4 - Summary for 2019, 2017 and 2013

	Total	Family 1	Family 2	Family 3	Family 4	Family 5	Family 6	Family 7
2019	4,425 100%	3,384 76%	733 17%	221 5%	62 1%	18 0%	5 0%	2 0%
2017	4,166 100%	3,061 73%	761 18%	242 6%	73 2%	24 1%	4 0%	1 0%
2013	3,531 100%	2,602 74%	675 19%	191 5%	53 2%	9 0%	1 0%	- -

The number of families increased from 3,531 in 2013 to 4,425 in 2019, compared to 2013 and 2017.

Table 5.5 - Distribution by village of the number of families reached by the study

2019		Q7. Family						
Q1. Village	Total	Family 1	Family 2	Family 3	Family 4	Family 5	Family 6	Family 7
1: Akulivik	192 100%	158 82%	31 16%	3 2%	- -	- -	- -	- -
2: Aupaluk	75 100%	67 89%	7 9%	1 1%	- -	- -	- -	- -
3: Inukjuak	601 100%	474 79%	98 16%	20 3%	6 1%	3 0%	- -	- -
4: Ivujvik	130 100%	115 88%	11 8%	3 2%	1 1%	- -	- -	- -
5: Kangiqsualjuaq	290 100%	210 72%	61 21%	17 6%	2 1%	- -	- -	- -
6: Kangiqsujuaq	344 100%	253 74%	61 18%	24 7%	5 1%	1 0%	- -	- -
7: Kangirsuk	180 100%	153 85%	25 14%	1 1%	1 1%	- -	- -	- -
8: Kuujjuaq	615 100%	546 89%	51 8%	9 1%	3 0%	3 0%	2 0%	1 0%
9: Kuujjuaraapik	287 100%	206 72%	54 19%	19 7%	7 2%	1 0%	- -	- -
10: Puvirnituq	718 100%	469 65%	171 24%	60 8%	17 2%	1 0%	- -	- -
11: Quaqtac	155 100%	120 77%	22 14%	8 5%	4 3%	1 1%	- -	- -
12: Salluit	556 100%	385 69%	102 18%	44 8%	13 2%	8 1%	3 1%	1 0%
13: Tasiujaq	96 100%	90 94%	5 5%	1 1%	- -	- -	- -	- -
14: Umiujaq	186 100%	138 74%	34 18%	11 6%	3 2%	- -	- -	- -
Total	4,425 100%	3,384 76%	733 17%	221 5%	62 1%	18 0%	5 0%	2 0%

6 – Average Number of People per Dwelling

Distribution by Village of the Average Number of People per Dwelling

In general, it can be seen that the average number of people per dwelling decreased significantly between 2013 and 2019, from 4.22 people in 2013, to 3.75 people in 2017 and to 3.58 people in 2019.

Table 6.1 - Summary for 2019, 2017 and 2013

	Unit	Average	Median	Total est.
2019	3,384	3.58	3	12,115
2017	3,061	3.75	4	11,470
2013	2,539 / 2,602*	4.22	4	10,983

**It is important to note that the 2013 study included 64 housing units not administered by the OMHK / KMHB.*

Table 6.2 - Distribution by village of the average number of people per dwelling

2019		Q5. Dwelling size		
Q1. Village	Unit	Average	Median	Total est.
1: Akulivik	158	4.06	4	641
2: Aupaluk	67	3.33	3	223
3: Inukjuak	474	3.86	4	1,828
4: Ivujivik	115	3.50	3	403
5: Kangiqsualujjuaq	210	4.30	4	903
6: Kangiqsujaq	253	2.99	3	757
7: Kangirsuk	153	3.33	3	509
8: Kuujjuaq	546	3.24	3	1,771
9: Kuujjuaraapik	206	3.18	3	655
10: Puvirnituq	469	3.75	3	1,757
11: Quaqtaq	120	3.38	3	406
12: Salluit	385	3.76	4	1,447
13: Tasiujaq	90	3.63	3	327
14: Umiujaq	138	3.54	3	488
Total	3,384	3.58	3	12,115

The study also found that the average number of people per dwelling is statistically higher in Kangiqsualujjuaq (4.30), Akulivik (4.06), Inukjuak (3.86), Salluit (3.76) and Puvirnituq (3.75), while the average number of people per dwelling is lower in Kangiqsujaq (2.99) and Kuujjuaraapik (3.18).

7 – Average Number of Bedrooms per Dwelling

Distribution by Village of the Average Number of Bedrooms per Dwelling

Overall, the average number of rooms per dwelling decreased slightly compared to 2013, from 2.77 in 2013, to 2.63 in 2017, then to 2.57 in 2019. The construction of new housing has increased the total number of rooms in the housing stock by 1,492, from 7,198 in 2013 to 8,690 in 2019.

Table 7.1 – Summary for 2019, 2017 and 2013

	Unit	Average	Median	Total est.
2019	3,384	2.57	2	8,690
2017	3,061	2.63	2	8,051
2013	2,601	2.77	2	7,198

In 2019, the average number of rooms per dwelling varies from one village to another, ranging from 2.38 in Kuujjuaraapik to 2.86 in Umiujaq.

Table 7.2 – Distribution by village of the average number of rooms per dwelling

2019 Q1. Village	Q6. Number of bedrooms in dwelling			
	Unit	Average	Median	Total est.
1: Akulivik	158	2.65	2	418
2: Aupaluk	67	2.63	2	176
3: Inukjuak	474	2.58	2	1,222
4: Ivujvik	115	2.70	2	311
5: Kangiqsualujuaq	210	2.76	3	580
6: Kangiqsujuaq	253	2.45	2	621
7: Kangirsuk	153	2.70	2	413
8: Kuujjuaq	546	2.40	2	1,310
9: Kuujjuaraapik	206	2.38	2	491
10: Puvirnituaq	469	2.56	2	1,199
11: Quaqtaq	120	2.53	2	303
12: Salluit	385	2.67	2	1,027
13: Tasiujaq	90	2.50	2	225
14: Umiujaq	138	2.86	2	394
Total	3,384	2.57	2	8,690

8 – Inventory and Estimation of Housing and Bedroom Needs

At the outset, we feel it is important to point out that in the exercise to inventory and estimate the needs for housing and rooms, Deloitte employees referred to the "Directive on the allocation of low-cost housing in Nunavik" applied by the KMHB / OMHK.

Housing needs by village

Overall, by allocating one dwelling to each Category 2 and following family joined by the study, there is a total deficit of 1,041 dwellings.

	Akulivik	Aupaluk	Inukjuak	Ivujivik	Kangiqsualujjuaq
Number of housing units	158	67	474	115	210
Number of families	192	75	601	130	290
Ratios (%)	0.82	0.89	0.78	0.88	0.72
Housing needs	34	8	127	15	80

	Kangiqsualujjuaq	Kangirsuk	Kuujuuaq	Kuujuaraapik	Puvirnituaq
Number of housing units	253	153	546	206	469
Number of families	344	180	615	287	718
Ratios (%)	0.73	0.85	0.88	0.71	0.65
Housing needs	91	27	69	81	249

	Quaqtaq	Salluit	Tasiujaq	Umiujaq
Number of housing units	120	385	90	138
Number of families	155	556	96	186
Ratios (%)	0.77	0.69	0.94	0.74
Housing needs	35	171	6	48

Room needs for each family, regardless of their category

If we group together all families, all categories combined, living in the same dwelling, we see that:

- 1,250 units (37%) are meeting the needs (neither in surplus nor in deficit of rooms)
- 1,217 dwellings (36%) are in deficit of rooms
- 929 units (27%) are in surplus

Overall, we would see:

- a deficit of 2,039 rooms in 1,217 units
- a surplus of 1,214 rooms in 929 units

Table 8.1 - Number of dwellings in deficit/surplus, all family categories combined

2019		Number of dwellings			Number of rooms	
Q1. Village	Total	Deficit	Balance	Surplus	Deficit	Surplus
1: Akulivik	158 100%	73 46%	51 32%	34 22%	122	44
2: Aupaluk	67 100%	19 28%	18 27%	30 45%	36	37
3: Inukjuak	474 100%	204 43%	150 32%	120 25%	351	151
4: Ivujivik	115 100%	37 32%	43 37%	35 30%	59	58
5: Kangiqsualujuaq	205 100%	92 45%	69 34%	44 21%	176	56
6: Kangiqsujuaq	253 100%	65 26%	115 45%	73 29%	94	115
7: Kangirsuk	153 100%	42 27%	52 34%	59 39%	67	73
8: Kuujuaq	555 100%	151 27%	257 46%	147 26%	219	172
9: Kuujuaaraapik	207 100%	69 33%	70 34%	68 33%	109	86
10: Puvirnituaq	471 100%	210 45%	153 32%	108 23%	408	133
11: Quaqtuaq	121 100%	38 31%	49 40%	34 28%	56	51
12: Salluit	387 100%	148 38%	133 34%	106 27%	243	146
13: Tasiujaq	89 100%	36 40%	37 42%	16 18%	49	17
14: Umiujaq	141 100%	33 23%	53 38%	55 39%	50	75
Total	3,396 100%	1,217 36%	1,250 37%	929 27%	-2,039	1,214

Bedroom Needs for Category 1 Families

If it were assumed that the 3,384 Category 1 Families would be the only families living in the 3,384 units administered by the KMHB / OMHK, we would see that:

- 1,247 dwellings (37%) would still be in a balanced situation, i.e. neither in surplus nor in deficit of rooms
- 894 dwellings (26%) are reported to be in deficit of rooms
- 1,243 dwellings (37%) would be in surplus

Thus, if we decided to house only the 3,384 Category 1 Families in the current 3,384 units, we would see:

- a deficit of 1,292 rooms in 894 dwellings
- a surplus of 1,765 rooms in 1,243 dwellings

Table 8.2 - Number of dwellings in deficit/surplus, considering only Category 1 Families

Q1. Village	2019		Number of dwellings			Number of rooms	
	Total		Deficit	Balance	Surplus	Deficit	Surplus
1: Akulivik	158 100%		61 39%	49 31%	48 30%	89	67
2: Aupaluk	67 100%		17 25%	17 25%	33 49%	29	40
3: Inukjuak	474 100%		158 33%	146 31%	170 36%	254	229
4: Ivujivik	115 100%		33 29%	43 37%	39 34%	42	67
5: Kangiqsualujuaq	210 100%		59 28%	79 38%	72 34%	96	98
6: Kangiqsujuaq	253 100%		43 17%	108 43%	102 40%	52	172
7: Kangirsuk	153 100%		35 23%	49 32%	69 45%	51	90
8: Kuujuaq	546 100%		128 23%	248 45%	170 31%	176	206
9: Kuujuaaraapik	206 100%		42 20%	77 37%	87 42%	55	125
10: Puvirnituaq	469 100%		129 28%	169 36%	171 36%	194	226
11: Quaqtuaq	120 100%		27 23%	49 41%	44 37%	32	63
12: Salluit	385 100%		108 28%	130 34%	147 38%	157	255
13: Tasiujaq	90 100%		34 38%	39 43%	17 19%	43	18
14: Umiujaq	138 100%		20 14%	44 32%	74 54%	22	109
Total	3,384 100%		894 26%	1,247 37%	1,243 37%	-1,292	1,765

Number of Deficit Bedrooms (Category 1 families only)

It was previously reported that 894 dwellings had a cumulative deficit of 1,292 rooms if it was decided to house the 3,384 Category 1 families in the 3,384 dwellings currently administered by the KMHB / OMHK. If this were the case, we would observe that:

- 603 dwellings would require an additional bedroom
- 210 dwellings would require 2 additional bedrooms
- 64 dwellings would require 3 additional bedrooms
- 12 dwellings would require 4 additional bedrooms
- 2 dwellings would require 5 additional bedrooms
- 2 dwellings would require 6 additional bedrooms
- 1 dwelling would require 7 additional bedrooms

Table 8.3 – Number of additional rooms required per unit (Category 1 families only)

Q1. Village	2019		Number of rooms in deficit						
	Total		1	2	3	4	5	6	7
1: Akulivik	61 100%		39 64%	17 28%	4 7%	1 2%	-	-	-
2: Aupaluk	17 100%		9 53%	4 24%	4 24%	-	-	-	-
3: Inukjuak	158 100%		95 60%	40 25%	15 9%	7 4%	-	1 1%	-
4: Ivujivik	33 100%		25 76%	7 21%	1 3%	-	-	-	-
5: Kangiqsualujuaq	59 100%		29 49%	24 41%	5 8%	1 2%	-	-	-
6: Kangiqsujuaq	43 100%		35 81%	7 16%	1 2%	-	-	-	-
7: Kangirsuk	35 100%		23 66%	8 23%	4 11%	-	-	-	-
8: Kuujuaq	128 100%		92 72%	28 22%	7 5%	-	-	-	1 1%
9: Kuujjuaraapik	42 100%		32 76%	7 17%	3 7%	-	-	-	-
10: Puvirnituaq	129 100%		87 67%	27 21%	10 8%	3 2%	1 1%	1 1%	-
11: Quaqtuaq	27 100%		23 85%	3 11%	1 4%	-	-	-	-
12: Salluit	108 100%		70 65%	29 27%	8 7%	-	1 1%	-	-
13: Tasiujaq	34 100%		26 76%	7 21%	1 3%	-	-	-	-
14: Umiujaq	20 100%		18 90%	2 10%	-	-	-	-	-
Total	894 100%		603 67%	210 23%	64 7%	12 1%	2 0%	2 0%	1 0%

Housing Needs for Category 2 and Following Families

There are over 1,041 Category 2 and following families included in this study. The study also indicates that, to accommodate Category 2 and following families, more than 1,041 units would be required with the following number of bedrooms:

- 781 one-bedroom dwellings
- 190 two-bedroom dwellings
- 55 three-bedroom dwellings
- 13 four-bedroom dwellings
- 2 five-bedroom dwellings

However, caution must be exercised in the analysis and interpretation of this data since many young people wishing to live alone or with a partner require housing. It is also important to note that 781 Category 2 and following families are made up of a single person or two persons.

Table 8.4 – Housing needs for Category 2 and following families, by number of bedrooms

2019		Number of bedrooms						
Q1. Village	Total	1	2	3	4	5	6	7
1: Akulivik	34 100%	18 53%	10 29%	4 12%	2 6%	-	-	-
2: Aupaluk	8 100%	5 63%	3 38%	-	-	-	-	-
3: Inukjuak	127 100%	89 70%	23 18%	11 9%	3 2%	1 1%	-	-
4: Ivujivik	15 100%	6 40%	7 47%	1 7%	1 7%	-	-	-
5: Kangiqsualujuaq	80 100%	51 64%	19 24%	9 11%	1 1%	-	-	-
6: Kangiqsujuaq	91 100%	79 87%	12 13%	-	-	-	-	-
7: Kangirsuk	27 100%	19 70%	8 30%	-	-	-	-	-
8: Kuujuaq	69 100%	49 71%	18 26%	2 3%	-	-	-	-
9: Kuujuaaraapik	81 100%	63 78%	15 19%	3 4%	-	-	-	-
10: Puvirnituq	249 100%	190 76%	38 15%	16 6%	4 2%	1 0%	-	-
11: Quaqtac	35 100%	30 86%	3 9%	1 3%	1 3%	-	-	-
12: Salluit	171 100%	145 85%	21 12%	4 2%	1 1%	-	-	-
13: Tasiujaq	6 100%	5 83%	1 17%	-	-	-	-	-
14: Umiujaq	48 100%	32 67%	12 25%	4 8%	-	-	-	-
Total	1,041 100%	781 75%	190 18%	55 5%	13 1%	2 0%	-	-

Conclusion - Summary

The data contained in the 4,425 questionnaires (see Table 5.5) administered to as many families by the "housing managers" made it possible to reach more than 12,222 people (see Table 5.2) living in housing administered by the KMHB / OMHK. These data were compiled and analyzed in order to provide a current picture of the housing situation in the 14 villages of Nunavik.

In total, 1,041 new dwellings would be needed to house the Category 2 and following families reached by the study, compared to 1,105 in 2017 and 820 in 2013.

It can be seen that housing construction in recent years has brought some improvement to the housing stock. Indeed, we notice that:

- The number of housing units increased by 33%, going from 2,539 in 2013 to more than 3,384 in 2019 (voir tableau 6.1);
- The total number of bedrooms increased by nearly 21%, going from 7,198 in 2013 to more than 8,690 in 2019 (voir tableau 7.1);
- The average number of people per dwelling has decreased from 4.22 in 2013 to 3.58 in 2019 (voir tableaux 6.1 et 6.2).

In general, an analysis of the ratio between the number of housing units and the number of families shows that the housing situation in Nunavik improved between 2013 and 2019. Indeed, this ratio indicates that the housing stock administered by the OMHK/KMHB offered a housing unit to more than 76% of Nunavik families (all categories combined) in 2019, compared to 72% in 2013. It is important to note that the availability of housing units has improved despite the creation or reporting of 894 new families during this period. This ratio should be calculated for each village in order to compare their respective capacities in terms of housing unit supply.

	2013	2017	2019
Number of housing units	2,539	3,061	3,384
Number of families (all categories combined)	3,531	4,166	4,425
Ratios (%)	0.72	0.73	0.76

New construction will always improve the living conditions of residents. However, population growth in Nunavik is forcing the KMHB / OMHK managers to pursue efforts to raise funding to build new housing. Overcrowding in housing, all categories of families combined, is still a reality facing managers. For example, in 2019, there was a deficit of 2,039 bedrooms in 1,217 units, but there was also a surplus of 1,214 bedrooms in 929 other units (see Table 8.1).

The KMHB / OMHK managers must always strive to optimize the occupancy of current and future housing. They must also carefully analyze the needs of Category 2 and following families, who are currently requesting housing. We know that many single people and young couples make up Category 2 and following families. For example, the study indicates that 781 out of 1,041 Category 2 and following families request one-bedroom housing (see Table 8.4).

Appendix 1 – The Questionnaire

PROJET

Questionnaire #

Interviewer's name : Kativik Municipal Housing Bureau
Housing Needs Survey 2019
Questionnaire per Family

Day: (DD)	Month: (MM)	Year: (YYYY)

Seq.

1. Village (1) Akulivik (2) Aupaluk (3) Inukjuak (4) Inuvik (5) Kangiqsuatujuaq (6) Kangiqsujuaq (7) Kangirsuk (8) Kuujuaq (9) Kuujuaaraapik (10) Puvimittuq (11) Quaqtaq (12) Salluit (13) Tasiujaq (14) Umiujaq
2. Your house is a: (1) KMH B Hse (2) Employer Hse (3) Private Hse (4) Other

3. House #:

4. Head of the family: Person(s)

5. Including you, how many people usually live in this dwelling? Include all people who usually live here, even if they are temporarily away. Do not include visitors or temporary residents who have a usual home elsewhere. Person(s)

6. How many bedrooms in your dwelling? Bedroom(s)

7. Which family are you (tenant family is always #1)? (1) Family 1 (2) 2 (3) 3 (4) 4 (5) 5 (6) 6 (7) 7 (8) Vacant (9) Burnt

8. How many person(s) are in your family? Person(s)

9. Family's members listing

Seq	First name & family name	Gender	Age				How is this person (dependant) related to Person 1?						Is this a disabled person and does she require her own bedroom? Yes (1) / No (2)
			Less than 1 year old (997)	Don't know (999)	Spouse (1)	Child biological or adopted (2)	Parent (3)	Other relative (4)	Foster child (5)	Friend of family (6)			
1 (Head)						Head of the family							
2						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

In case we need to contact you to clarify some questions, could you please provide us a telephone number where we can reach you during the day or an email address? Comments:

Telephone number: Email address:

Appendix 2 - Distribution by Village of Nunavik Families for 2017 and 2013

2017		Q7. Family						
Q1. Village	Total	Family 1	Family 2	Family 3	Family 4	Family 5	Family 6	Family 7
1: Akulivik	191 100%	157 82%	31 16%	3 2%	- -	- -	- -	- -
2: Aupaluk	75 100%	59 79%	13 17%	3 4%	- -	- -	- -	- -
3: Inukjuak	598 100%	415 69%	125 21%	40 7%	12 2%	5 1%	1 0%	- -
4: Ivujivik	123 100%	99 80%	17 14%	6 5%	1 1%	- -	- -	- -
5: Kangiqsualujjuaq	278 100%	180 65%	72 26%	23 8%	3 1%	- -	- -	- -
6: Kangiqsujuaq	329 100%	230 70%	71 22%	23 7%	5 2%	- -	- -	- -
7: Kangirsuk	183 100%	154 84%	25 14%	2 1%	1 1%	1 1%	- -	- -
8: Kuujjuaq	606 100%	510 84%	80 13%	14 2%	1 0%	1 0%	- -	- -
9: Kuujjuaraapik	260 100%	194 75%	45 17%	15 6%	6 2%	- -	- -	- -
10: Puvirnituaq	578 100%	428 74%	105 18%	34 6%	10 2%	1 0%	- -	- -
11: Quaqtuaq	155 100%	118 76%	24 15%	8 5%	3 2%	2 1%	- -	- -
12: Salluit	573 100%	328 57%	130 23%	66 12%	31 5%	14 2%	3 1%	1 0%
13: Tasiujaq	77 100%	75 97%	2 3%	- -	- -	- -	- -	- -
14: Umiujaq	140 100%	114 81%	21 15%	5 4%	- -	- -	- -	- -
Total	4,166 100%	3,061 73%	761 18%	242 6%	73 2%	24 1%	4 0%	1 0%

2013		Q7. Family						
Q1. Village	Total	Family 1	Family 2	Family 3	Family 4	Family 5	Family 6	Family 7
1: Akulivik	198 100%	137 69%	37 19%	17 9%	6 3%	1 1%	- -	- -
2: Aupaluk	58 100%	50 86%	7 12%	1 2%	- -	- -	- -	- -
3: Inukjuak	524 100%	378 72%	108 21%	28 5%	9 2%	1 0%	- -	- -
4: Ivujvik	118 100%	74 63%	33 28%	10 8%	1 1%	- -	- -	- -
5: Kangiqsualujjuaq	217 100%	187 86%	28 13%	2 1%	- -	- -	- -	- -
6: Kangiqsujuaq	237 100%	146 62%	59 25%	21 9%	10 4%	1 0%	- -	- -
7: Kangirsuk	176 100%	141 80%	33 19%	2 1%	- -	- -	- -	- -
8: Kuujjuaq	562 100%	479 85%	66 12%	14 2%	3 1%	- -	- -	- -
9: Kuujjuaraapik	233 100%	159 68%	57 24%	14 6%	3 1%	- -	- -	- -
10: Puvirnituq	528 100%	351 66%	126 24%	45 9%	5 1%	1 0%	- -	- -
11: Quaqtaq	130 100%	92 71%	29 22%	7 5%	1 1%	1 1%	- -	- -
12: Salluit	376 100%	257 68%	73 19%	27 7%	14 4%	4 1%	1 0%	- -
13: Tasiujaq	64 100%	57 89%	5 8%	1 2%	1 2%	- -	- -	- -
14: Umiujaq	110 100%	94 85%	14 13%	2 2%	- -	- -	- -	- -
Total	3,531 100%	2,602 74%	675 19%	191 5%	53 2%	9 0%	1 0%	- -

Appendix 3 - Distribution by Village of the Average Number of People per Dwelling for 2017 and 2013

PROJET

2017	Q5. Dwelling size			
Q1. Village	Unit	Average	Median	Total est.
1: Akulivik	157	4.10	4	644
2: Aupaluk	59	3.20	3	189
3: Inukjuak	415	4.11	4	1,705
4: Ivujivik	99	3.91	4	387
5: Kangiqsualujuaq	180	4.77	5	858
6: Kangiqsujuaq	230	3.13	3	719
7: Kangirsuk	154	3.30	3	508
8: Kuujjuaq	510	3.39	3	1,727
9: Kuujjuaraapik	194	3.04	3	590
10: Puvirnituaq	428	3.84	3	1,643
11: Quaqtuaq	118	3.31	3	391
12: Salluit	328	4.27	4	1,400
13: Tasiujaq	75	3.95	4	296
14: Umiujaq	114	3.62	3	413
Total	3,061	3.75	4	11,470

2013	Q5. Dwelling size			
Q1. Village	Unit	Average	Median	Total est.
1: Akulivik	137	4.34	4	595
2: Aupaluk	50	3.74	3	187
3: Inukjuak	378	4.31	4	1,629
4: Ivujivik	74	4.84	5	358
5: Kangiqsualujuaq	187	4.53	4	847
6: Kangiqsujuaq	146	4.59	4	670
7: Kangirsuk	141	3.56	3	502
8: Kuujjuaq	479	3.60	3	1,725
9: Kuujjuaraapik	159	3.79	4	603
10: Puvirnituaq	351	4.42	4	1,552
11: Quaqtuaq	92	3.83	4	352
12: Salluit	257	4.93	5	1,268
13: Tasiujaq	57	4.91	4	280
14: Umiujaq	94	4.41	4	415
Total	2,602	4.22	4	10,983

Appendix 4 - Distribution by Village of the Average Number of Bedrooms per Dwelling for 2017 and 2013

PROJET

2017	Q6. Number of bedrooms in dwelling			
Q1. Village	Unit	Average	Median	Total est.
1: Akulivik	157	2.65	2	416
2: Aupaluk	59	2.75	2	162
3: Inukjuak	415	2.66	2	1,104
4: Ivujivik	99	2.78	2	275
5: Kangiqsualujjuaq	180	2.70	3	486
6: Kangiqsujuaq	230	2.40	2	553
7: Kangirsuk	154	2.69	2	415
8: Kuujjuaq	510	2.46	2	1253
9: Kuujjuaraapik	194	2.43	2	471
10: Puvirnituaq	428	2.65	2	1,133
11: Quaqtuaq	118	2.55	2	301
12: Salluit	328	2.82	2	925
13: Tasiujaq	75	2.71	2	203
14: Umiujaq	114	3.11	4	354
Total	3,061	2.63	2	8,051

2013	Q6. Number of bedrooms in dwelling			
Q1. Village	Unit	Average	Median	Total est.
1: Akulivik	137	2.62	2	359
2: Aupaluk	50	2.76	2	138
3: Inukjuak	378	2.67	2	1,008
4: Ivujivik	74	3.20	3	237
5: Kangiqsualujjuaq	187	2.70	3	504
6: Kangiqsujuaq	146	2.76	2	403
7: Kangirsuk	141	2.72	2	384
8: Kuujjuaq	479	2.58	2	1,235
9: Kuujjuaraapik	159	2.72	2	432
10: Puvirnituaq	351	2.78	2	977
11: Quaqtuaq	91	2.89	3	266
12: Salluit	257	2.99	3	769
13: Tasiujaq	57	2.91	3	166
14: Umiujaq	93	3.39	4	318
Total	2,601	2.77	2	7,198

Appendix 5 - Distribution of existing and requested housing based on the number of existing and requested rooms

2019		Number of dwellings by size							
Q1. Village	Total	1	2	3	4	5	6	>=7	
1 : Akulivik	<i>Current</i>	158	6	86	34	23	8	1	-
	<i>Shortage</i>	34	18	10	4	2	-	-	-
2 : Aupaluk	<i>Current</i>	67	4	37	8	16	2	-	-
	<i>Shortage</i>	8	5	3	-	-	-	-	-
3 : Inukjuak	<i>Current</i>	474	29	251	107	65	22	-	-
	<i>Shortage</i>	127	89	23	11	3	1	-	-
4 : Ivujivik	<i>Current</i>	115	13	52	24	10	14	2	-
	<i>Shortage</i>	15	6	7	1	1	-	-	-
5 : Kangiqsualujjuaq	<i>Current</i>	210	17	77	68	32	16	-	-
	<i>Shortage</i>	80	51	19	9	1	-	-	-
6 : Kangiqsujuaq	<i>Current</i>	253	49	112	51	28	11	1	1
	<i>Shortage</i>	91	79	12	-	-	-	-	-
7 : Kangirsuk	<i>Current</i>	153	15	63	42	22	8	3	-
	<i>Shortage</i>	27	19	8	-	-	-	-	-
8 : Kuujjuaq	<i>Current</i>	546	81	267	118	59	21	-	-
	<i>Shortage</i>	69	49	18	2	-	-	-	-
9 : Kuujjuaraapik	<i>Current</i>	206	39	89	50	16	12	-	-
	<i>Shortage</i>	81	63	15	3	-	-	-	-
10 : Puvimituq	<i>Current</i>	469	64	204	107	62	32	-	-
	<i>Shortage</i>	249	190	38	16	4	1	-	-
11 : Quaqtac	<i>Current</i>	120	20	43	39	10	8	-	-
	<i>Shortage</i>	35	30	3	1	1	-	-	-
12 : Salluit	<i>Current</i>	385	34	195	65	47	44	-	-
	<i>Shortage</i>	171	145	21	4	1	-	-	-
13 : Tasiujaq	<i>Current</i>	90	8	46	20	15	1	-	-
	<i>Shortage</i>	6	5	1	-	-	-	-	-
14 : Umiujaq	<i>Current</i>	138	9	62	7	60	-	-	-
	<i>Shortage</i>	48	32	12	4	-	-	-	-

Appendix 6 - Analysis of housing surpluses and shortages by number of rooms, for Category 1 and Category 2 and following families

Q1. Village		2019		Number of dwellings by number of bedrooms				
			Total	1	2	3	4	>=5
1 : Akulivik	F1*	Balance	49	4	27	10	6	2
		Surplus	48	-	23	12	8	5
		Shortage	(61)	(2)	(36)	(12)	(9)	(2)
		Surplus (shortage) (13)		(2)	(13)	-	(1)	3
	F2+**	Needs	34	18	10	4	2	-
2 : Aupaluk	F1	Balance	17	3	10	2	2	-
		Surplus	33	-	16	3	12	2
		Shortage	(17)	(1)	(11)	(3)	(2)	-
		Surplus (shortage) 16		(1)	5	-	10	2
	F2+	Needs	8	5	3	-	-	-
3 : Inukjuak	F1	Balance	146	24	76	30	14	2
		Surplus	170	-	74	47	31	18
		Shortage	(158)	(5)	(101)	(30)	(20)	(2)
		Surplus (shortage) 12		(5)	(27)	17	11	16
	F2+	Needs	127	89	23	11	3	1
4 : Ivujivik	F1	Balance	43	10	24	5	3	1
		Surplus	39	-	10	11	4	14
		Shortage	(33)	(3)	(18)	(8)	(3)	(1)
		Surplus (shortage) 6		(3)	(8)	3	1	13
	F2+	Needs	15	6	7	1	1	-
5 : Kangiqsualujjuaq	F1	Balance	80	11	29	29	7	4
		Surplus	72	-	21	23	20	8
		Shortage	(58)	(7)	(26)	(16)	(5)	(4)
		Surplus (shortage) 14		(7)	(5)	7	15	4
	F2+	Needs	80	51	19	9	1	-
6 : Kangiqsujuaq	F1	Balance	108	44	41	14	9	-
		Surplus	102	-	48	28	13	13
		Shortage	(43)	(5)	(23)	(9)	(6)	-
		Surplus (shortage) 59		(5)	25	19	7	13
	F2+	Needs	91	79	12	-	-	-
7 : Kangirsuk	F1	Balance	49	13	19	12	4	1
		Surplus	69	-	27	22	13	7
		Shortage	(35)	(2)	(17)	(8)	(5)	(3)
		Surplus (shortage) 34		(2)	10	14	8	4
	F2+	Needs	27	19	8	-	-	-

2019			Number of dwellings by number of bedrooms					
Q1. Village		Total	1	2	3	4	>=5	
8 : Kuujuaq	F1	Balance	248	61	126	40	17	4
		Surplus	170	-	72	54	30	14
		Shortage	(128)	(20)	(69)	(24)	(12)	(3)
		Surplus (shortage)	42	(20)	3	30	18	11
	F2+	Needs	69	49	18	2	-	-
9 : Kuujuaaraapik	F1	Balance	77	33	23	15	3	3
		Surplus	87	-	43	23	12	9
		Shortage	(42)	(6)	(23)	(12)	(1)	-
		Surplus (shortage)	45	(6)	20	11	11	9
	F2+	Needs	81	63	15	3	-	-
10 : Puvirnituaq	F1	Balance	169	42	76	28	19	4
		Surplus	171	-	66	52	29	24
		Shortage	(129)	(22)	(62)	(27)	(14)	(4)
		Surplus (shortage)	42	(22)	4	25	15	20
	F2+	Needs	249	190	38	16	4	1
11 : Quaqtuaq	F1	Balance	49	18	16	9	3	3
		Surplus	44	-	17	16	6	5
		Shortage	(27)	(2)	(10)	(14)	(1)	-
		Surplus (shortage)	17	(2)	7	2	5	5
	F2+	Needs	34	18	10	4	2	-
12 : Salluit	F1	Balance	130	30	70	16	12	2
		Surplus	147	-	49	32	28	38
		Shortage	(108)	(4)	(76)	(17)	(7)	(4)
		Surplus (shortage)	39	(4)	(27)	15	21	34
	F2+	Needs	171	145	21	4	1	-
13 : Tasiujaq	F1	Balance	39	6	21	5	6	1
		Surplus	17	-	11	3	3	-
		Shortage	(34)	(2)	(14)	(12)	(6)	-
		Surplus (shortage)	(17)	(2)	(3)	(9)	(3)	-
	F2+	Needs	6	5	1	-	-	-
14 : Umiujaq	F1	Balance	44	8	26	1	9	-
		Surplus	74	-	24	4	46	-
		Shortage	(20)	(1)	(12)	(2)	(5)	-
		Surplus (shortage)	54	(1)	12	2	41	-
	F2+	Needs	48	32	12	4	-	-

* Famille 1

** Familles 2 et suivantes

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