Norwegian Citizen Panel

2016, Sixth Wave

Methodology report

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BACKGROUND

This report describes the procedures of data collection in the sixth wave of The Norwegian Citizen Panel. Further, the report discusses the representativity of the panel and how the weights are calculated.

The Norwegian Citizen Panel (NCP) was established as a collaboration between several departments at the Faculty of Social Sciences at the University of Bergen and the UNI Research Rokkan Centre.

ideas2evidence is responsible for the panel recruitment, the administration of the panel, and the technical solutions regarding data collection and computing.

PANEL RECRUITMENT FIRST AND THIRD WAVE

Panel members were recruited in wave 1 and wave 3. The samples in wave 1 and wave 3 were drawn from the *National Registry* of Norway. This registry holds information on everyone born in Norway, as well as former and current inhabitants. The formal responsibility for this registry is held by the Norwegian Tax Administration but has partly outsourced the administration to the private IT-company Evry. Evry drew the sample on behalf of the Citizen Panel after relevant permissions were acquired from the Norwegian Tax Administration.

25,000 people over the age of 18 were, in both the first and the third wave, randomly drawn from the register. The extracted information was a) last name, b) first name, c) address, d) gender, e) age, and f) phone number (the latter was included in wave 3 only). The sample excluded persons without a current home address in Norway.

After receiving the data, everyone over the age of 95 was excluded from the sample.

For a detailed description of the recruitment process in wave 1 and 3, we refer to the respective methodology reports for each wave. Note, however, that the process differed between these two waves in that recruitment in the first wave was done through postal recruitment only, while we in the third wave, in addition to postal recruitment, also sent out reminders by text message to all respondents with available phone numbers, and telephonic reminders to a randomly drawn subset of the gross sample.

The total recruitment rate in these two waves were respectively 20 percent in the first wave and 23 percent in the third wave.

DATA COLLECTION SIXTH WAVE

Wave 6 of the NCP involved data collection from existing members of the panel. The data collection was conducted during the month of March 2016.

This section firstly describes software solutions and pilots. Secondly, it presents the data collection procedure and its results, including response and response rates, the use of different platforms, and time usage.

SOFTWARE AND PILOTS

The web-based research software Confirmit administers the surveys and the panel. Confirmit is a "Software-as-a-Service" solution, where all software runs on Confirmit's continuously monitored server park, and where survey respondents and developers interact with the system through various web-based interfaces. This software provides very high data security and operational stability. The security measures are the most stringent in the industry, and Confirmit guarantees 99, 7 percent uptime. ideas2evidence does the programming of the survey in Confirmit on behalf of The Norwegian Citizen Panel.

The survey went through pilot testing before it went live to the panel. The survey was sent out to, and answered by 210 high school students. The pilot testing was regarded as successful, and no major revisions were deemed necessary.

In addition, the survey was tested extensively during the development phase by ideas2evidence and the researchers involved in the project.

RESPONSE OF PANEL MEMBERS

The survey was launched March 1st., 2016. It was sent to the email accounts of the panel's 10,193 members. In these e-mails, the basic information about the Citizen Panel was repeated, and the individual panel members received unique URLs that led to the questionnaire.

In this wave of the NCP, all reminders were distributed via e-mail.

Table 1: Responses and response rate for panel members by the different stages of data collection

		Cumulative	Response	Cumulative
	Responses	Responses	Rate (%)	Response Rate (%)
Invitation (1st of March)	2,277	2,277	31,5%	31,5%
Reminder no. 1 (4 th of March)	1,324	3,601	18,3%	49,8%
Reminder no. 2 (8 th of March)	667	4,268	9,2%	59,1%
Reminder no. 3 (11 th of March)	591	4,589	8,2%	67,3%

In total, the wave 6 survey received 4,859 answers. 2,277 respondents completed the survey in the period between the invitation and the first reminder (March $01^{st} - 03^{rd}$), a response rate of 31, 5 percent. The pattern is similar to earlier waves; the majority of the respondents complete the survey before the second reminder is distributed, and most respondents complete the questionnaire shortly after receiving the invitation/a reminder from NCP. For details on the number of respondents after each reminder, we refer you to table 1.

The overall response rate, as reported in table 1, is **67.3 percent**. Some clarifications concerning the calculation of the response rate are necessary. We present the clarifications, along with the response rate for the respondents recruited in wave 1 and the respondents recruited in wave 3 respectively, in the following.

RESPONSE OF ALL PANEL MEMBERS

Table 2: The historic participation of all respondents

			Respondents w06		
			No	Yes	
nts	ents Yes	w05-yes	814	3,836	
Respondents w04	×	w05-no	1,149	407	
ods W	0 N	w05-yes	402	369	
Re	Z	w05-no	2,969	247	

As already mentioned, NCP has 10,193 panel members. Many of them have not actively opted out of the panel, but they have silently withdrawn by not participating in the surveys. As shown in table 2,969 respondents have not participated in any of the three last waves (w04-w06). Including these respondents in the calculation of response rate would arguably give an artificially low rate. Therefore, these 2,969 respondents are not included in the calculation of response rates given above.

RESPONSE OF PANEL MEMBERS RECRUITED IN THE FIRST WAVE

Table 3: The historic participation of respondents recruited in the first wave

			Respondents w06		
			No	Yes	
nts	nts	w05-yes	322	1,752	
nder 74	¥	w05-no	425	153	
Respondents w04	9	w05-yes	186	183	
Ree	Z	w05-no	1,537	120	

4,678 of NCPs panel members were recruited in wave 1. As shown by table 3, 1,537 respondents have not participated in any of the three last waves (w04-w06). 2,208 of the eligible panel members recruited in the first wave responded to the questionnaire in wave 6. This gives a response rate of 70 percent.

RESPONSE OF PANEL MEMBERS RECRUITED IN THE THIRD WAVE

Table 4: Historic participation of the respondents recruited in the third wave

			Respondent w06		
			No	Yes	
Respondent w04	es	w05-yes	492	2,084	
	×	w05-no	724	254	
	9	w05-yes	216	186	
	Z	w05-no	1,432	127	

NCP have 5,515 panel members that were recruited in wave 3. Table 4 shows, however, that 1,432 respondents have not participated in any of the three waves (w04-w06), thereby leaving us with 4,083 eligible panel members in this group. In wave 6 we received 2,651 responses from this group, giving us a response rate of 65 percent.

The difference in response rate between first and third wave recruits can be explained by to factors. Firstly, since we withdraw inactive members from the calculation of the response rate, more respondents recruited in the first wave have had time to become inactive, thereby leaving a lower number of baseline respondents that are more loyal to the panel.

At the same time, when comparing the response rate of this group to the response rate of the first wave recruits in the fourth wave¹, it is notable that the response rate of the panel members recruited in wave 3 are lower, 65 percent versus 70 percent². The recruitment in wave 1 and wave 3 was identical in sample size and sample frame, but in the third wave more, and a different set of, reminders were utilized. In wave 1 prospective panel members were contacted through an invitational letter and a reminder post card. Wave 3 also used an invitational letter and a reminder post card in the recruitment process. In addition, the sample received a reminder by text message, and a subset of the sample were contacted through a telephone call.

As shown in the documentation reports from wave 3 and 4, the increase in the number of recruitment methods (SMS and telephone call, in addition to postal recruitment) in wave 3 resulted in a higher recruitment rate.

¹ For the sake of clarity: the sixth wave is the fourth survey for the panel members recruited in the third wave, just as the fourth wave was the fourth survey for the panel members recruited in the first wave.

² This tendency, with lower response rate from the panel members recruited in the third wave compared to the first wave, was also discussed in the documentation reports for the fourth and the fifth wave.

However, the higher recruitment rate in wave 3 was followed by a lower response rate in wave 4 when compared to the rate achieved in the second and third wave from panel members recruited in the first wave. The response rate of the members recruited in wave 3 declines in correspondence with how many reminders the panel members needed in order to be recruited. This indicates that panel members who need multiple reminders in order to be recruited are not as loyal as those who need fewer reminders.

PLATFORMS

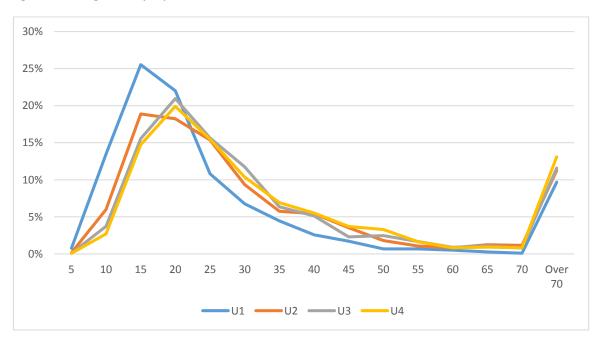
The questionnaire was prepared for data input via smart phones. In order to enhance the respondents' experience with the questionnaire, mobile users were routed away from certain elements in the questionnaire that demanded larger screens. These questions are documented in the codebook.

23.3 percent of all survey respondents that opened the questionnaire used a smart phone/tablet. That is 0.7 percentage points lower than in the fifth wave.

6.6 percent of the mobile users did not complete to such an extent that they were classified as respondents in the sixth wave. For non-mobile users the percentage was 4.6 percent. Mobile users were thus more likely to leave the questionnaire before completion. This was also the case in the third, the fourth and the fifth wave. However, the non-completion rate for mobile users fell from more than 10 percent in the fifth wave, while the non-completion rate for non-mobile users are the same as in the fifth wave. The difference between these two groups are in other words less than before.

TIME USAGE





The average respondent used 22.5 minutes to complete the questionnaire. This is a three minutes lower completion time than in the fifth wave. The challenge of measuring average time usage is that respondents may leave the questionnaire open in order to complete the survey later. This idle time causes an artificially high average for completing the survey. The average of 22.5 minutes therefore only includes the 87 percent of the respondents, which used less than, or equal to, 60 minutes.

As in earlier waves, the NCP questionnaire is divided into different subsets (U1-U4). Figure 1 shows that respondents that answered questions in the U1 subset on average used less time than the other subsets. This

was also the case in the fourth and the fifth wave. The breakdown of time usage for each subset is shown in table 5.

It is interesting to note that mobile users on average use less time on the survey than non-mobile users, despite the survey being displayed in a more time-effective manner on non-mobile platforms. One probable explanation for this is that mobile users spend less time writing text on open text questions. On an open question in wave six regarding climate change, mobile users wrote on average two thirds of the characters that non-mobile users wrote. In addition, while 91 percent of the non-mobile users wrote at least one character answering this open question, 86 percent of the mobile users answered. In conclusion, less mobile users answer on open text questions, and their response is shorter.

Table 5: Average time usage (minutes) in each subset in the sixth wave

	All respondents	U1-respondents	U2-respondents	U3-respondents	U4-respondents
All respondents	22,5	18,8	22,7	23,8	24,8
Non-mobile users	22,7	18,9	22,9	24,2	24,7
Mobile users	22,0	18,8	22,2	22,2	25,0

REPRESENTATIVITY

In this section, we describe the representativity of the survey respondents. First, we will discuss factors explaining representativity. Thereafter we apply demographic variables to present data on representativity by different strata. The data on representativity is the foundation for the section on weighting.

FACTORS EXPLAINING LACK OF REPRESENTATIVITY

There are two main points that can serve as explanations to non-response and lack of representativity:

- access to and familiarity with the internet (given that a web-based questionnaire was the only response mode made available)
- the motivation and interest of the respondents

The first challenge is strongly related to the age composition of the survey respondents. Although Norway has a very high computer and internet density, the probability of having an e-mail address, and the skills required to access and fill in an online questionnaire, normally decreases with increasing age. The second challenge, motivation and interest, is often explained by the respondents' level of education. In addition to age and education, we added the variables of geography and gender in order to test the representativity of the survey respondents. The variables have the following categories:

- Age: 19-29 years, 30-59 years, 60 and above.
- Highest completed education: no education/elementary school, upper secondary, university/university college.
- Geography: Oslo/Akershus, Eastern Norway, Southern Norway, Western Norway, Trøndelag, Northern Norway.

THE REPRESENTATIVITY OF THE NORWEGIAN CITIZEN PANEL

The sampling frame of the survey equals to the Norwegian population above the age of 18, comprising a population of approximately 3,9 million individuals. Earlier reports have documented a systematic underrepresentation of respondents belonging to the two lowest educational groups, independent of gender and age. The underrepresentation is particularly strong for young men. As expected, individuals with education from universities or university colleges are overrepresented. All of these observations are also true for wave 6. The result of lower participation from younger age groups, is that respondents with high education in this age bracket are not overrepresented compared to the population. They are however clearly overrepresented within their age bracket.

From the age distribution presented in table 6, we see that 18-29 year olds are underrepresented in the net sample of the sixth wave. The age groups 30-59 years and 60 years and above are both overrepresented. The underrepresentation of 18-29 year olds is more prominent in this wave compared to both the fourth and the fifth wave. This is in part explained by lower loyalty to the NCP in this age group, but another important explanatory factor is the aging of the panel since new members last were recruited.

Table 6: Age distribution in the population and the net sample of the sixth wave

	18-29 years	30-59 years	60 years and above	
Population	20.5 %	51.6 %	28.0 %	
Net sample - w06	10.2 %	52.9 %	36,9 %	

New patterns emerge when adding gender in table 7; young men are more underrepresented than young women are. In the oldest age group, men are clearly overrepresented. In the fifth wave women in this age group was slightly underrepresented, but are now overrepresented. Lastly, the share of middle-aged men in the net sample of wave 6 is close to that of the population, while the women are overrepresented.

Table 7: Combined distribution of age and gender in the population and the net sample of the sixth wave

	18-29 years		30-59	years	60 years and above	
	Men	Women	Men	Women	Men	Women
Population	10,5 %	10,0 %	26,5 %	25,1 %	13,0 %	14,9 %
Net sample - w06	4.4 %	5.8 %	25.5 %	27.8 %	20.8 %	15.7 %

The inclusion of educational level in table 8 reveals a systematic underrepresentation of respondents with little or no education, independent of age and gender. As discussed in relation to table 7 and 8, the underrepresentation is strong for young respondents. The underrepresentation is also strong for middle-aged respondents with little or no education.

Respondents that have upper secondary education as their highest completed education are somewhat underrepresented in all groups. Those who have university or university college education are clearly overrepresented in the two oldest age brackets, independent of gender.

Table 8: Combined distribution of age, gender and education in the population and the net sample of the sixth wave

		Рорг	ulation	Net sample - w05	
		Men	Women	Men	Women
No education/elementary school	o S	4.1 %	3.2 %	0,4 %	0,8 %
Upper secondary education	18-29 years	4.2 %	3.4 %	2,5 %	2,8 %
University/university college	7 >	2.2 %	3.4 %	1,5 %	2,3 %
No education/elementary school	o S	5.5 %	4.9 %	1,4 %	1,3 %
Upper secondary education	30-59 years	12.1 %	8.8 %	8,6 %	6,8 %
University/university college	8 >	9.0 %	11.4 %	15,5 %	19,7 %
No education/elementary school	e q	3.2 %	4.9 %	2,7 %	2,7 %
Upper secondary education	60 and above	6.5 %	7.1 %	6,0 %	4,0 %
University/university college	60 ab	3.3 %	2.9 %	12,0 %	9,0 %

In regards to geography, (table 9) we observe that Western Norway and Trøndelag both are slightly overrepresented, while the capital area – the counties of Oslo and Akershus – is clearly overrepresented. Southern Norway, Northern Norway and Eastern Norway meanwhile are all underrepresented among the respondents in the sixth wave.

The clearly most overrepresented group are men aged 60 years above living in the capital area. This group accounts for 2.6 percent of the population but 5.1 percent of the respondents in wave six belongs to this demography. The most underrepresented groups are young men in Eastern Norway, and young men and women in Southern Norway.

Table 9: Combined distribution of age, gender and geography in the population and the net sample of the sixth wave

			Population		Ne	t sample - w	06
		Men	Women	Total	Men	Women	Total
	18-29 years	2.5 %	2.6 %	5.1 %	1.1 %	1.7 %	2.8 %
Akarshus/Osla	30-59 years	6.7 %	6.4 %	13.1 %	7.2 %	8.6 %	15.8 %
Akershus/Oslo	60 and above	2.6 %	3.0 %	5.6 %	5.1 %	4.8 %	9.9 %
	In total	11.8 %	12.0 %	<u>23.8 %</u>	13.4 %	15.1 %	<u>28.5 %</u>
	18-29 years	2.5 %	2.3 %	4.8 %	0.8 %	1.4 %	2.2 %
Eastern Norway	30-59 years	6.8 %	6.6 %	13.4 %	5.5 %	6.1 %	11.6 %
Lasterii Norway	60 and above	3.9 %	4.5 %	8.4 %	6.3 %	4.3 %	10.6 %
	In total	13.2 %	13.4 %	<u>26.6 %</u>	12.6 %	11.8 %	<u>24.4 %</u>
	18-29 years	0.6 %	0.6 %	1.2 %	0.2 %	0.2 %	0.4 %
Southern Norway	30-59 years	1.5 %	1.4 %	2.9 %	1.2 %	1.6 %	2.8 %
Southern Norway	60 and above	0.7 %	0.9 %	1.6 %	0.9 %	0.7 %	1.6 %
	In total	2.8 %	2.9 %	<u>5.7 %</u>	2.3 %	2.5 %	<u>4.8 %</u>
	18-29 years	2.8 %	2.7 %	5.5 %	1.2 %	1.5 %	2.7 %
Western Norway	30-59 years	6.9 %	6.3 %	13.2 %	6.9 %	7.1 %	14.0 %
western worway	60 and above	3.3 %	3.7 %	7.0 %	5.3 %	4.0 %	9.3 %
	In total	13.0 %	12.7 %	<u>25.7 %</u>	13.4 %	12.6 %	<u>26.0 %</u>
	18-29 years	1.0 %	0.9 %	1.9 %	0.6 %	0.5 %	1.1 %
Trøndelag	30-59 years	2.2 %	2.1 %	4.3 %	2.5 %	2.4 %	4.9 %
Hymuelag	60 and above	1.2 %	1.3 %	2.5 %	1.8 %	1.3 %	3.1 %
	In total	4.4 %	4.3 %	<u>8.7 %</u>	4.9 %	4.2 %	<u>9.1 %</u>
	18-29 years	1.0 %	0.9 %	1.9 %	0.4 %	0.4 %	0.8 %
Northern Norway	30-59 years	2.4 %	2.2 %	4.6 %	2.0 %	1.8 %	3.8 %
Northern Norway	60 and above	1.4 %	1.5 %	2.9 %	1.6 %	1.0 %	2.6 %
	In total	4.8 %	4.6 %	<u>9.4 %</u>	4.0 %	3.2 %	<u>7.2 %</u>

WEIGHTING

To compensate for the observed biases, we have calculated a set of weights. The weights are equal to the relation between a given strata in the population and the total population, divided by the relation between a given strata in the net sample and the total net sample.³ This procedure returns values around 1, but above 0. Respondents belonging to a stratum that is underrepresented will receive a weight above 1 and respondents belonging to an overrepresented stratum will receive a weight below 1. We have listed the weights of the different strata in table 13 in the appendix.

When calculating the weights, information regarding the respondents' geographical location, gender and age is based on registry data. Information on these variables was included in the sample file we received from the Norwegian National Registry. Information regarding the level of education is from the survey. 3.8 percent of the sixth wave net sample have not answered the question about level of education. Because of this, two different weights have been calculated:

- Weight 1 is based on demographic variables only (age, gender and geography)
- Weight 2 combines the demographic variables with education. Respondents with missing data
 on the education variable are only weighted on demography (the education component of the
 weight is in these cases set to 1).

The variables have the following categories:

- Age: 19-29 years, 30-59 years, 60 and above.
- Highest completed education: no education/elementary school, upper secondary, university/university college.
- Geography: Oslo/Akershus, Eastern Norway, Southern Norway, Western Norway, Trøndelag, Northern Norway.

The method for calculating weights is equal to that of previous waves.

When applied, both weights will provide a weighted N equal to the number of respondents in the dataset.

As shown in the discussion above, of the factors considered, level of education creates the most bias. We therefore strongly recommend using weight 2 in most statistical analyses, as this weight provides the most accurate compensation for the various sources of bias in the net sample. Table 11 shows the effects of weight 2 on the distribution of self-reported level of education in the net sample. As we can observe, the weight gives the sample a perfect distribution compared to the population. It is however important to stress that the distribution when not weighted is far from ideal, with a clear underrepresentation of the population with low levels of education

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³ The applied formula for weight w_i for element i, in strata h is: $w_i = \frac{N_h/N}{n_h/n}$

Table 10: Effect of weight 2 on self-reported level of education

				Difference	Difference between
	Sample - not	Sample -		between sample	weighted sample
	weighted	weighted	Population	and population	and population
No education/elementary school	9.2 %	25.9 %	25.9 %	-16.5 %	0.0 %
Upper secondary education	30.8 %	42.0 %	41.9 %	-10.8 %	0.0 %
University/university college	60.0 %	32.2 %	32.2 %	27.2 %	0.0 %

Literature on surveys has shown that individuals who are interested in politics are more likely to participate in surveys than individuals who are not. This particularly holds true for surveys with politics as a topic.⁴ In previous reports, we have documented the effect of the weights on party affiliation compared to election results, and the respondents interest in politics. This wave included no questions on political interest, and 2016 is not an election year. Therefor no such analysis are included in this report. We refer to the methodology report from the fifth wave for these discussions.

SURVEY EXPERIMENTS

Each wave of the Citizen Panel Survey includes several survey experiments where different groups of respondents receive questions with slightly different wordings. We have achieved this by randomly assigning respondents to groups during the data collection process. In addition, there is also a more permanent split of the respondents into two or more groups. To reduce the overall time required to answer the survey, some sections of the questionnaire were only presented to one of these groups. For both of these reasons, the number of respondents who have answered a single question might be substantially less than the total number of respondents. See the detailed data documentation for further information about this.

⁴ Groves, Robert M., Stanley Presser and Sarah Dipko (2004): "The Role of Topic Interest in Survey Participation Decisions". Public Opinion Quarterly. Vol. 68, No. 1:2-31

APPENDIX

Table 11: Weights applied to different strata (weight 2)

			Men	Women				Men	Women		
	ars	No education/elementary school	5.0	4.1		ars	No education/elementary school	12.5	4.9		
	18-29 years	Upper secondary education	2.0	1.0		18-29 years	9 ye	29 ye	Upper secondary education	1.6	1.4
		University/university college	1.5	1.5	>	18-7	University/university college	1.4	1.3		
shus	ars	No education/elementary school	4.3	3.1	orwa	ars	No education/elementary school	5.4	3.9		
Aker	30-59 years	Upper secondary education	1.3	1.2	Z Z	30-59 years	Upper secondary education	1.3	1.2		
Oslo/Akershus	30-6	University/university college	0.6	0.5	Western Norway	30-	University/university college	0.5	0.6		
	ove	No education/elementary school	1.0	1.3	>	ove	No education/elementary school	1.0	2.2		
	60 and above	Upper secondary education	0.9	1.3		and above	Upper secondary education	1.1	1.5		
	60 aı	University/university college	0.3	0.3		60 aı	University/university college	0.3	0.3		
	ars	No education/elementary school	26.6	3.7		ars	No education/elementary school	16.7	2.2		
	18-29 years	Upper secondary education	1.8	1.0		18-29 years	Upper secondary education	0.8	1.7		
	18-3	University/university college	1.5	1.7			University/university college	2.0	1.4		
ırwa)	ars	No education/elementary school	4.5	6.3	age	ars	No education/elementary school	2.3	2.3		
I.	59 ye	Upper secondary education	1.5	1.4	Trøndelag	30-59 years	Upper secondary education	1.2	1.2		
tern No 0-59 ye	University/university college	0.6	0.6	Ţ	30-!	University/university college	0.5	0.6			
	ove	No education/elementary school	1.4	1.8		ove	No education/elementary school	1.0	1.7		
	60 and above	Upper secondary education	1.0	2.4		60 and above	Upper secondary education	1.2	2.1		
	60 a	University/university college	0.3	0.3		60 a	University/university college	0.3	0.3		
	ars	No education/elementary school	11.5	9.3		ars	No education/elementary school	11.0	5.4		
	18-29 years	Upper secondary education	2.4	1.6		18-29 years	Upper secondary education	2.0	1.8		
<u>~</u>	18-	University/university college	2.3	1.9	÷	18-	University/university college	0.9	1.7		
orwa	ars	No education/elementary school	3.3	2.3	orwa	sars	No education/elementary school	2.7	4.3		
ern N	30-59 years	Upper secondary education	1.6	1.4	ern N	30-59 years	Upper secondary education	1.8	1.5		
Southern Norway	30-	University/university college	0.6	0.5	Northern Norway		University/university college	0.6	0.8		
Ň	ovoc	No education/elementary school	2.0	3.9	Z	60 and above	No education/elementary school	1.6	2.4		
	60 and above	Upper secondary education	2.6	2.3		nd ak	Upper secondary education	1.4	2.1		
	60 a	University/university college	0.3	0.4		60 a	University/university college	0.3	0.5		