Appendix 10 Nebraska Homework Gap Survey Results

Survey Gauges Impact of Homework Gap on Students, Teachers

In order to better gauge the impact of the homework gap on teachers and students in Nebraska, a survey was disseminated via e-mail to 21,443 Nebraska teachers July 2019. Nearly 7,000 (6,919) teachers responded for a response rate of 32%.

The survey found:

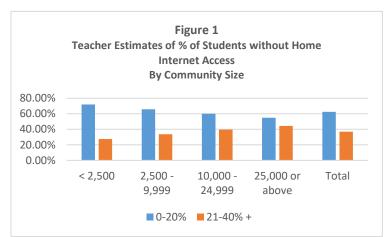
- Over three-fourths (77%) of teachers agreed that if all students had broadband internet access at home, it would positively impact student learning/achievement.
- Nearly half of teachers (48%) agreed that the absence of home internet access for some students affects the level or amount of homework assigned.
- Most teachers report using digital resources for a minority of their homework assignments, with 64% of respondents indicating that less than 25% of their homework assignments are dependent on digital or internet-based resources.
- Overall, 37% of teachers estimated that 21% to greater than 40% of students do not have home internet access.

Most teachers (90%) reported that accommodations are made to address students' lack of home internet access. The accommodations cited included:

- Providing more class time to complete homework assignments (55%)
- Providing some students with printed materials that otherwise would be internet-based (41%)
- Providing before-school and after-school time to complete homework assignments. (33%)
- Informing families about community locations where free Wi-Fi is available 27%
- Assigning less homework overall (26%)
- Allowing more days for students to complete their homework assignments (26%)
- Placing less emphasis on homework for students' overall grades (20%)
- Other (13%)
- Lending cellular hotspots to students for home internet access (3%)

Teacher estimates of the proportion of students not having home internet access varied by ESU and community size.

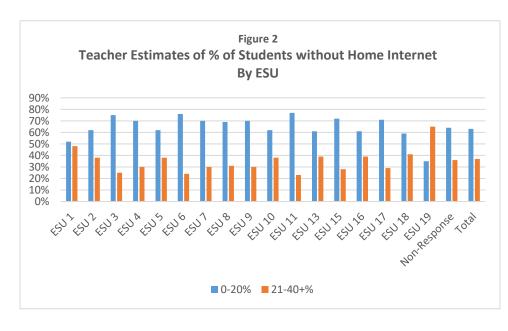
The percent of teachers estimating that the percent of students lacking home internet access was 21% or greater increased with the size of the community, with 45% of those teaching in communities of



25,000 or larger estimating that at least 21% of students lacked home internet access. (See Figure 1 and Table 1.)

Table 1
Teacher Estimates of % of Students
without Home Internet Access
By Community Size

Size of Community	0-20%	21-40+%
< 2,500	72%	28%
2,500 - 9,999	66%	34%
10,000 - 24,999	60%	40%
25,000 or above	55%	45%
Total	63%	37%



The percent of teachers estimating that at least 21% of students lacked home internet access by ESU ranged from a low of 23% in ESU 11 to a high of 65% in ESUs 19. (See Figure 2 and Table 2.)

Table 2
Teacher Estimates of % of Students without Home Internet Access
By ESU

ESU	0-20%	21-40+%
ESU 1	52%	48%
ESU 2	62%	38%
ESU 3	75%	25%
ESU 4	70%	30%
ESU 5	62%	38%
ESU 6	76%	24%
ESU 7	70%	30%
ESU 8	69%	31%
ESU 9	70%	30%
ESU 10	62%	38%
ESU 11	77%	23%
ESU 13	61%	39%
ESU 15	72%	28%
ESU 16	61%	39%
ESU 17	71%	29%
ESU 18	59%	41%
ESU 19	35%	65%
Non-Response	64%	36%
Total	63%	37%



Nebraska Homework Gap Survey: Summary Report

August 22, 2019

Prepared by



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Background

This summary report has been prepared in support of the Nebraska Department of Education's partnership with the Nebraska Rural Broadband Task Forces' Homework Gap Subcommittee to conduct a survey of Nebraska public PreK-12 teachers. The purpose of this brief questionnaire is to help determine the degree to which the absence of students' home internet is influencing the instructional environment.

Contributors

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Procedures

The anonymous survey was administered to Nebraska teachers as determined by the "Position Assignment Code" submitted via the Nebraska Student and Staff Record System (NSSRS). Specifically, teachers were defined as having teaching positions with the maximum FTE for the first agency ID listed from 2018-2019 database The population list was generated for teachers from all public and state-operated districts. Emails were obtained for all survey participants via NDE's Education Administration Email List, the NDE Teacher Certification Database, or school websites. All efforts were made to obtain valid email addresses for those selected to be survey participants, however, if a valid email was not available the participant was removed from the sample.

The survey was administered electronically using the Qualtrics web application. The survey consisted of both multiple choice and open-ended response questions. There were a total of 12 questions. Surveys were disseminated via an email message (see Appendix B.) from Nebraska Office of the CIO/NITC, Education I.T. Manager, Tom Rolfes on July 9th, 2019 followed pre-notice to the Superintendents on July 8th, 2019. Two additional emails were sent on July 16th and July 23rd, 2019 to serve as reminders to complete the survey if they had not done so already. Data collection was closed on the morning of July 30th, 2019. Below is a table showing participant response rates.

Table 1. Response Rate

Population size	Valid Emails	Responses	Response rate
21,473	21,443	6,919	32.26%

Results

This section will display some of the results from the Homework Gap survey given to Nebraska public school teachers. For a full descriptive tables for survey questions please see Appendix A. Participants were asked a number of community level questions so that survey responses could be disaggregated to show any discrepancies or patterns between groups. These differences are of a descriptive nature and further analysis is needed to determine if any of the discrepancies are statistically significant. Please note that these community level questions were self-reported by the participant and no effort was made to verify the accuracy of the responses.

1. The proportion of students do not have internet access at home to complete homework: Disaggregated by the size of the community (Question 5 vs. 9 cross tabulation)

a. Frequency table

Q5 and 9	0-10%	11-20%	21-30%	31-40%	More than 40%	Non- Response	Total
< 2,500	873	689	292	153	150	13	2170
2,500 - 9,999	404	327	198	101	76	4	1110
10,000 - 24,999	198	194	109	74	76	2	653
25,000 or above	940	698	460	346	524	18	2986
Total	2415	1908	1059	674	826	37	6919

b. Percentile

Q5 and 9	0-10%	11-20%	21-30%	31-40%	More than 40%	Non-Response
< 2,500	40.2%	31.8%	13.5%	7.1%	6.9%	0.6%
2,500 - 9,999	36.4%	29.5%	17.8%	9.1%	6.8%	0.4%
10,000 - 24,999	30.3%	29.7%	16.7%	11.3%	11.6%	0.3%
25,000 or above	31.5%	23.4%	15.4%	11.6%	17.5%	0.6%
Total	34.9%	27.6%	15.3%	9.7%	11.9%	0.5%

2. The proportion of students do not have internet access at home to complete homework by ESU (Question 6 vs. 9 cross tabulation)

a. Frequency table

Q6 and 9	0-10%	11-20%	21-30%	31-40%	More than 40%	Total
ESU 1	117	103	70	32	104	426
ESU 2	85	106	60	41	15	307
ESU 3	711	353	158	97	100	1419
ESU 4	63	52	26	9	14	164
ESU 5	48	78	36	28	13	203
ESU 6	146	93	42	21	12	314

ESU 7	120	112	55	20	24	331
ESU 8	118	105	52	28	20	323
ESU 9	96	89	35	18	25	263
ESU 10	213	165	106	59	70	613
ESU 11	71	56	19	12	8	166
ESU 13	86	122	62	40	32	342
ESU 15	27	34	16	5	3	85
ESU 16	70	64	36	22	29	221
ESU 17	34	20	14	7	1	76
ESU 18	212	178	117	85	67	659
ESU 19	149	152	137	141	274	853
Non-Response	49	26	18	9	15	117
Total	2415	1908	1059	674	826	6882

Q6 and 9	0-10%	11-20%	21-30%	31-40%	More than 40%
ESU 1	27.5%	24.2%	16.4%	7.5%	24.4%
ESU 2	27.7%	34.5%	19.5%	13.4%	4.9%
ESU 3	50.1%	24.9%	11.1%	6.8%	7.0%
ESU 4	38.4%	31.7%	15.9%	5.5%	8.5%
ESU 5	23.6%	38.4%	17.7%	13.8%	6.4%
ESU 6	46.5%	29.6%	13.4%	6.7%	3.8%
ESU 7	36.3%	33.8%	16.6%	6.0%	7.3%
ESU 8	36.5%	32.5%	16.1%	8.7%	6.2%
ESU 9	36.5%	33.8%	13.3%	6.8%	9.5%
ESU 10	34.7%	26.9%	17.3%	9.6%	11.4%
ESU 11	42.8%	33.7%	11.4%	7.2%	4.8%
ESU 13	25.1%	35.7%	18.1%	11.7%	9.4%
ESU 15	31.8%	40.0%	18.8%	5.9%	3.5%
ESU 16	31.7%	29.0%	16.3%	10.0%	13.1%
ESU 17	44.7%	26.3%	18.4%	9.2%	1.3%
ESU 18	32.2%	27.0%	17.8%	12.9%	10.2%
ESU 19	17.5%	17.8%	16.1%	16.5%	32.1%
Non-Response	41.9%	22.2%	15.4%	7.7%	12.8%
Total	35.1%	27.7%	15.4%	9.8%	12.0%

3. The proportion of homework assignment based on digital resource: Based on Majority of students using district owned computer devices (Question 7 vs. 8 cross tabulation)

		Frequency					
Q7 and 8	Yes	No	Non- Response	Yes	No	Non- Response	Total
Up to 25%	1413	2955	2	32.3%	67.6%	0.0%	4370
25 - 50%	644	387	2	62.3%	37.5%	0.2%	1033
50 - 75%	582	169		77.5%	22.5%		751
75 - 100%	49	6		89.1%	10.9%		55
100%	490	119		80.5%	19.5%		609
Total	3178	3636	4				6818

4. Types of instructional accommodations to address students' lack of home internet access: Based on Majority of students using district owned computer devices (Question 7 vs. 11 cross tabulation)

		Frequency			%			
Q7 and 11	Yes	No	Non- Response	Yes	No	Non- Response	Total	
1	58	92		38.7%	61.3%		150	
2	53	38		58.2%	41.8%		91	
3	65	173		27.3%	72.7%		238	
4	24	42		36.4%	63.6%		66	
5	202	285		41.5%	58.5%		487	
6	100	142		41.3%	58.7%		242	
7	8			100.0%	0.0%		8	
8	50	60		45.5%	54.5%		110	
9	116	446	1	20.6%	79.2%	0.2%	563	
10	205	468		30.5%	69.5%		673	
5,6	103	102		50.2%	49.8%		205	
5,6,8	108	50		68.4%	31.6%		158	
1,5,6,8	97	33		74.6%	25.4%		130	
2,5,6,8	81	49		62.3%	37.7%		130	
1,2,5,6,8	83	45		64.8%	35.2%		128	
5,8	56	54		50.9%	49.1%		110	

^{*} Note: Q11 allows multiple responses from the options. Table only displays results from single options and multiple options that have more than 100 responses.

5. The types of instructional accommodations to address students' lack of home internet access: Disaggregated by the proportion of homework assignment based on digital resource (Question 8 vs. 11 cross tabulation)

a. Frequency table

Q8 and 11	Up to 25%	25 - 50%	50 - 75%	75 - 100%	100%	Total
Families are informed about community locations where free Wi-Fi is available	112	12	11	1	11	147
I allow more days (longer duration) for students to complete their homework assignments	63	20	6		1	90
I assign less homework overall	187	21	17	1	9	235
I place less emphasis on homework for students' overall grades	51	7	5		3	66
I provide more class time to complete homework assignments	344	77	34	3	28	486
Some students are provided printed materials that otherwise would be Internet-based	160	33	19	2	26	240
The school lends cellular hotspots to students for home Internet access	3	3	1		1	8
The school provides before- school and after-school time to complete homework assignments	75	17	9		6	107
Other	474	19	14	5	13	525
I do not make any accommodations	557	39	30	1	31	658

Q8 and 11	Up to 25%	25 - 50%	50 - 75%	75 - 100%	100%
Families are informed about community locations where free Wi-Fi is available	76.2%	8.2%	7.5%	0.7%	7.5%
I allow more days (longer duration) for students to complete their homework assignments	70.0%	22.2%	6.7%	0.0%	1.1%
I assign less homework overall	79.6%	8.9%	7.2%	0.4%	3.8%
I place less emphasis on homework for students' overall grades	77.3%	10.6%	7.6%	0.0%	4.5%
I provide more class time to complete homework assignments	70.8%	15.8%	7.0%	0.6%	5.8%
Some students are provided printed materials that otherwise would be Internet-based	66.7%	13.8%	7.9%	0.8%	10.8%
The school lends cellular hotspots to students for home Internet access	37.5%	37.5%	12.5%	0.0%	12.5%

The school provides before- school and after-school time to complete homework assignments	70.1%	15.9%	8.4%	0.0%	5.6%
Other	90.3%	3.6%	2.7%	1.0%	2.5%
I do not make any accommodations	84.7%	5.9%	4.6%	0.2%	4.7%

6. The proportion of homework assignment based on digital resources: Disaggregated by subject areas of teaching (Question 4 vs. 8 cross tabulation)

a. Frequency table

Q4 and 8	Up to 25%	25 - 50%	50 - 75%	75 - 100%	100%	Non- Response	Total
Mathematics	478	99	71	5	79	2	734
Science	259	132	102	9	69	1	572
Social Studies	158	115	91	6	88	1	459
English/Language Arts	592	236	169	3	120	9	1129
Fine/Performing Arts	258	49	26	6	19	5	363
Health and Physical Education	161	43	23	2	31	4	264
World Languages	99	37	42	1	21	1	201
Business/Technology	62	36	49	9	76		232
Industrial Technology/Agriculture	66	34	27	2	17		146
Elementary (All Subjects)	1790	151	65	1	19	49	2075
Special Education	230	39	43		17	17	346
Other	217	62	43	11	53	12	398
Total	4370	1033	751	55	609	101	6919

Q4 and 8	Up to	25 - 50%	50 - 75%	75 - 100%	100%	Non-
Q4 and 8	25%		30 - 7370	/3 - 100/0	10070	Response
Mathematics	65.1%	13.5%	9.7%	0.7%	10.8%	0.3%
Science	45.3%	23.1%	17.8%	1.6%	12.1%	0.2%
Social Studies	34.4%	25.1%	19.8%	1.3%	19.2%	0.2%
English/Language Arts	52.4%	20.9%	15.0%	0.3%	10.6%	0.8%
Fine/Performing Arts	71.1%	13.5%	7.2%	1.7%	5.2%	1.4%
Health and Physical Education	61.0%	16.3%	8.7%	0.8%	11.7%	1.5%
World Languages	49.3%	18.4%	20.9%	0.5%	10.4%	0.5%
Business/Technology	26.7%	15.5%	21.1%	3.9%	32.8%	0.0%
Industrial Technology/Agriculture	45.2%	23.3%	18.5%	1.4%	11.6%	0.0%
Elementary (All Subjects)	86.3%	7.3%	3.1%	0.0%	0.9%	2.4%
Special Education	66.5%	11.3%	12.4%	0.0%	4.9%	4.9%
Other	54.5%	15.6%	10.8%	2.8%	13.3%	3.0%
Total	63.2%	14.9%	10.9%	0.8%	8.8%	1.5%

7. The proportion of homework assignment based on digital resources: Disaggregated by educator's level of proficiency with educational technology (Question 2 vs. 8 cross tabulation)

a. Frequency table

Q2 and 8	Up to 25%	25 - 50%	50 - 75%	75 - 100%	100%	Non- Response	Total
Very High (Expert)	169	84	89	16	104	2	464
Above Average	1684	555	436	30	368	28	3101
Average	2321	371	218	8	129	59	3106
Below Average	181	22	6	1	7	12	229
Very Low (Novice)	15	1	2		1		19
Total	4370	1033	751	55	609	101	6919

Q2 and 8	Up to 25%	25 - 50%	50 - 75%	75 - 100%	100%	Non- Response
Very High (Expert)	36.4%	18.1%	19.2%	3.4%	22.4%	0.4%
Above Average	54.3%	17.9%	14.1%	1.0%	11.9%	0.9%
Average	74.7%	11.9%	7.0%	0.3%	4.2%	1.9%
Below Average	79.0%	9.6%	2.6%	0.4%	3.1%	5.2%
Very Low (Novice)	78.9%	5.3%	10.5%	0.0%	5.3%	0.0%
Total	63.2%	14.9%	10.9%	0.8%	8.8%	1.5%

10. The proportion of homework assignment based on digital resources: Disaggregated by grade level (Question 3 vs. 8 cross tabulation, while sub-aggregating Question 3 responses)

a. Aggregated educational level

Q3 and 8	Up to 25%	25 - 50%	50 - 75%	75 - 100%	100%	Non- Response	Total
Primary Grades	2498	272	131	7	81	95	3084
Intermediate Grades	2511	416	200	9	133	49	3318
Middle School Grades	2348	909	657	41	541	22	4518
High School Grades	4305	1881	1617	141	1410	31	9385
Total	11662	3478	2605	198	2165	197	20305

^{*}Note: Question 3 allows multiple responses and analyses are based on those multiple response as single responses.

b. Detailed level

Q3 and 8	Up to 25%	25 - 50%	50 - 75%	75 - 100%	100%	Non- Response	Total
Pre-K	205	20	10		4	24	263
K	731	75	37	3	26	28	900
1	752	93	40	2	26	22	935
2	810	84	44	2	25	21	986
3	823	108	59	2	32	19	1043
4	825	129	54	3	41	18	1070
5	863	179	87	4	60	12	1205
6	737	223	159	8	124	10	1261
7	787	332	250	15	202	6	1592
8	824	354	248	18	215	6	1665
9	1021	437	364	30	319	7	2178
10	1083	470	406	35	342	7	2343
11	1107	489	426	38	374	8	2442
12	1094	485	421	38	375	9	2422
Total	11662	3478	2605	198	2165	197	20305

^{*}Note: Question 3 allows multiple responses and analyses are based on those multiple response as single responses.

Appendix A. Questions 1- 12 Simple Frequency with percentile information tables

1. How long have you been teaching?

#	Answer	0/0	Count
1	Less than a year	0.42%	29
2	1-2 years	5.65%	391
3	3-5 years	11.38%	787
4	6-10 years	16.63%	1150
5	11-19 years	27.44%	1898
6	20 or more years	38.48%	2662
	Total	100%	6917

2. Please identify your level of proficiency with educational technology hardware and software.

#	Answer	0/0	Count
1	Very High (Expert)	6.71%	464
2	Above Average	44.82%	3100
3	Average	44.89%	3105
4	Below Average	3.31%	229
5	Very Low (Novice)	0.27%	19
	Total	100%	6917

3. Which of the following grade levels of students do you teach? Please check all that apply.

#	Answer	0/0	Count
1	Pre-K	1.30%	263
2	K	4.43%	900
3	1	4.61%	935
4	2	4.86%	986
5	3	5.14%	1043
6	4	5.27%	1069
7	5	5.94%	1205
8	6	6.21%	1261
9	7	7.84%	1592
10	8	8.20%	1665
11	9	10.73%	2178
12	10	11.54%	2343
13	11	12.02%	2441
14	12	11.92%	2421
	Total	100%	20302

4. Which subject area do you spend the most time teaching? Please select only one.

#	Answer	%	Count
1	Mathematics	10.61%	734
2	Science	8.27%	572
3	Social Studies	6.62%	458
4	English/Language Arts	16.32%	1129
5	Fine/Performing Arts	5.25%	363
6	Health and Physical Education	3.82%	264
7	World Languages	2.91%	201
8	Business/Technology	3.35%	232
9	Industrial Technology/Agriculture	2.11%	146
10	Elementary (All Subjects)	29.98%	2074
11	Special Education	5.00%	346
12	Other (please specify):	5.75%	398
	Total	100%	6917

Other Area Specifics:

Subjects	N
21st Century	1
Administration	3
JROTC	8
Agriculture	5
All Areas	13
Alt Ed.	6
History	1
Art	8
Technology	4
Automotive	2
Media	8
Math	4
Career	9
CNA	1
Computer Science	11
Spanish	3
Counseling	11
Creative Curriculum	1
Culinary Arts	2
Deaf Ed.	1
Development	1
Early Childhood	9
ELL	36

ESL	20
Engineering	1
English	1
FACS	86
Nutrition	1
Functional Vocational Skills	1
Etc.	1
Music	10
Guidance	8
Health Science	5
Honors Special Projects	1
SPED	3
Preschool	15
Intervention	1
Journalism	8
Learning and Play	2
Library	7
Life Skills	4
Reading	24
Outdoor Ed	2
PE	2 2
PHOTOGRAPHY	1
Post secondary transition	1
Speaking	1
Science	1
Social and emotional	
development	22
Speech	2
STEM	2 3
Support	1
Title 1	4
Arts	4
Writing	1
Non-Response	6
Total	398

5. What is the size of the community where your school or school district is located?

#	Answer	0/0	Count
1	In a rural setting or village or town of less than 2,500 population	31.36%	2169
2	In a city of 2,500 - 9,999 population	16.03%	1109
3	In a city of 10,000 - 24,999 population	9.44%	653
4	In a city of 25,000 or more population	43.17%	2986
	Total	100%	6917

6. In which ESU is your school or school district located? (http://www.esucc.org/NEBRASKA-ESUS)

#	Answer	0/0	Count
1	ESU 1	6.31%	429
2	ESU 2	4.52%	307
3	ESU 3	20.93%	1423
5	ESU 4	2.99%	203
4	ESU 5	2.43%	165
6	ESU 6	4.63%	315
7	ESU 7	4.88%	332
8	ESU 8	4.79%	326
9	ESU 9	3.91%	266
10	ESU 10	9.06%	616
11	ESU 11	2.46%	167
13	ESU 13	5.04%	343
15	ESU 15	1.26%	86
16	ESU 16	3.25%	221
17	ESU 17	1.12%	76
18	ESU 18 (Lincoln Public Schools)	9.77%	664
19	ESU 19 (Omaha Public Schools)	12.65%	860
	Total	100%	6799

7. Has a majority of your assigned students been provided district-owned computing devices to use at home?

#	Answe	r %	Count
1	Yes	46.07%	3184
2	No	53.93%	3727
	Total	100%	6911

8. What proportion of your homework assignments or readings are dependent on digital or Internet-based resources (i.e., non-print resources)?

Answer	0/0	Count
Up to 25%	64.10%	4369
Between 25% and 50%	15.16%	1033
Between 50% and 75%	11.02%	751
Between 75% and 100%	8.92%	608
100%	0.81%	55
Total	100%	6816

9. What would you estimate as the percentage of your school's students who do not have home Internet access to complete homework?

Answer	%	Count
0-10%	35.09%	2414
11-20%	27.72%	1907
21-30%	15.39%	1059
31-40%	9.80%	674
More than 40%	12.01%	826
Total	100%	6880

10. Please indicate how strongly you agree or disagree with the following statement: The absence of home Internet access for some students in a class affect the level or amount of homework that I assign for all students in that class.

Answer	%	Count
Strongly agree	18.69%	1288
Somewhat agree	29.20%	2012
Neither agree nor disagree	19.32%	1331
Somewhat disagree	14.19%	978
Strongly disagree	18.60%	1282
Total	100%	6891

11. What, if any, instructional accommodations do you (and/or your school) make to address students' lack of home Internet access? Please check all that apply.

a. Frequency for Aggregated response by response choice

#	Answer	0/0	Count
1	Families are informed about community locations where free Wi-Fi is available.	10.70%	1885
2	I allow more days (longer duration) for students to complete their homework assignments.	10.24%	1803
3	I assign less homework overall.	10.30%	1814
4	I place less emphasis on homework for students' overall grades.	7.63%	1344
5	I provide more class time to complete homework assignments.	21.31%	3754
6	Some students are provided printed materials that otherwise would be Internet-based.	16%	2823
7	The school lends cellular hotspots to students for home Internet access.	0.0112	198
8	The school provides before-school and after- school time to complete homework assignments.	13.04%	2297
9	Other (please specify):	5.03%	886
10	I do not make any accommodations.	4.59%	809
	Total	100.00%	17613

b. Frequency for Actual Response

Response	Total
1	150
2	91
3	238
4	66
5	487
6	242
7	8
8	110
9	563
10	673

1,2	17
1,2,3	8
1,2,3,4	10
1,2,3,4,5	11
1,2,3,4,5,6	24
1,2,3,4,5,6,7	1
1,2,3,4,5,6,7,8	15
1,2,3,4,5,6,8	46
1,2,3,4,5,6,8,9	6
1,2,3,4,5,7,8	3
1,2,3,4,5,8	18
1,2,3,4,5,8,9	10
1,2,3,4,6	4
1,2,3,4,6,7,8	1
1,2,3,4,6,8	6
1,2,3,4,6,8,9	1
1,2,3,4,8	2
1,2,3,5	12
1,2,3,5,6	23
1,2,3,5,6,7	1
1,2,3,5,6,7,8	9
1,2,3,5,6,8	47
1,2,3,5,6,8,9	2
1,2,3,5,6,9	1
1,2,3,5,7,8	1
1,2,3,5,8	17
1,2,3,5,9	1
1,2,3,6	2
1,2,3,6,8	4
1,2,3,6,8,9	1
1,2,3,8	1
1,2,3,9	2
1,2,4	4
1,2,4,5	7
1,2,4,5,6	9
1,2,4,5,6,7,8	5
1,2,4,5,6,8	31
1,2,4,5,6,8,9	2
1,2,4,5,7	1
1,2,4,5,7,8	2
1,2,4,5,8	8
1,2,4,5,8,9	2
1,2,4,6	8
1,2,4,6,7,8	1

1,2,4,6,8	8
1,2,4,8	2
1,2,5	46
1,2,5,6	48
1,2,5,6,7	2
1,2,5,6,7,8	10
1,2,5,6,8	128
1,2,5,6,8,9	7
1,2,5,6,9	6
1,2,5,7,8	2
1,2,5,8	33
1,2,5,8,9	1
	16
1,2,6	
1,2,6,7,8	8
1,2,6,7,8,9	1
1,2,6,8	17
1,2,6,8,9	1
1,2,6,9	2
1,2,7	1
1,2,7,8	1
1,2,8	15
1,3	17
1,3,4	13
1,3,4,5	17
1,3,4,5,6	29
1,3,4,5,6,7,8	1
1,3,4,5,6,8	29
1,3,4,5,6,8,9	3
1,3,4,5,7	1
1,3,4,5,7,8	2
1,3,4,5,8	14
* * * * *	4
1,3,4,6	
1,3,4,6,8	3
1,3,4,7,8	1
1,3,4,8	3
1,3,4,8,9	1
1,3,5	28
1,3,5,6	28
1,3,5,6,7,8	3
1,3,5,6,8	37
1,3,5,6,8,9	3
1,3,5,6,9	1
	1
1,3,5,7	
1,3,5,7,8	1

1,3,5,8	24
1,3,5,8,9	2
1,3,5,9	1
1,3,6	9
1,3,6,7	1
1,3,6,8	6
1,3,8	5
1,3,9	2
1,4	9
1,4,5	12
1,4,5,6	22
1,4,5,6,7	1
1,4,5,6,8	23
1,4,5,6,9	1
1,4,5,7,8	1
1,4,5,8	18
1,4,5,8,9	1
1,4,5,9	1
1,4,6	8
1,4,6,7,8	1
1,4,6,8	7
1,4,6,8,9	1
1,4,8	8
1,4,8,9	1
1,5	55
1,5,6	68
1,5,6,7	1
1,5,6,7,8	9
1,5,6,7,8,9	1
1,5,6,8	130
1,5,6,8,9	8
1,5,6,9	4
1,5,7,8	6
1,5,8	72
1,5,8,9	6
1,6	40
1,6,7	2
1,6,7,8	6
1,6,7,8,9	2
1,6,8	75
1,6,8,9	9
1,6,9	5
1,7,8	3
1,8	38

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1,9	20
10,1	12
10,1,2,3,4,5,6,8	1
10,1,2,4	1
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10,1,3,4,5	2
10,1,4,6	1
10,1,5,6,8,9	1
10,1,5,8	3
10,1,6	4
10,1,7	1
10,1,8	4
10,1,9	2
10,2,3,4,5	1
10,2,3,5	1
10,2,4	1
10,2,4,5	1
10,2,5	1
10,2,5,8	1
10,3	5
10,3,4	2
10,3,4,5	2
10,3,4,5,6,8	1
10,3,5	2
10,3,5,6	1
10,3,9	2
10,4	1
10,4,5,8	1
10,4,6	1
10,5	4
10,5,6	1
10,5,8	2
10,6	2 4
10,6,8	5
10,7,8	1
10,7,8,9	1
10,8	13
10,8,9	2
10,9	44
2,3	15
2,3,4	5
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2,3,4,5	47
2,3,4,5,6	58
2,3,4,5,6,7	1
2,3,4,5,6,7,8	4
2,3,4,5,6,7,9	1
2,3,4,5,6,8	39
2,3,4,5,6,8,9	2
2,3,4,5,6,9	2
2,3,4,5,7,8	1
2,3,4,5,8	17
2,3,4,5,9	1
2,3,4,6	3
2,3,4,6,8	5
2,3,4,6,8,9	2
2,3,4,8	2
2,3,5	48
2,3,5,6	58
2,3,5,6,7	1
2,3,5,6,7,8	6
2,3,5,6,8	39
2,3,5,6,8,9	2
2,3,5,6,9	4
2,3,5,7	1
2,3,5,7,8	1
2,3,5,8	32
2,3,6	5
2,3,6,8	2
2,3,8	1
	2
2,3,9	
2,4	2
2,4,5	19
2,4,5,6	24
2,4,5,6,7	1
2,4,5,6,7,8	1
2,4,5,6,8	17
2,4,5,6,8,9	1
2,4,5,6,9	2
2,4,5,8	9
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2,4,6	13
2,4,6,8	8
2,4,7,8,9	1
2,4,8	4
2,4,8,9	1
2,5	94
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2,5,6	94
2,5,6,7,8	3
2,5,6,8	130
2,5,6,8,9	7
2,5,6,9	1
2,5,7	1
2,5,7,8	1
2,5,8	64
2,5,9	1
2,6	13
2,6,7,8	2
2,6,8	29
2,6,8,9	3
2,7	2
2,8	14
2,8,9	1
3,4	30
3,4,5	77
3,4,5,6	67
3,4,5,6,7,8	1
3,4,5,6,8	32
3,4,5,6,8,9	1
3,4,5,6,9	3
3,4,5,7	1
3,4,5,8	30
3,4,5,8,9	1
3,4,5,9	5
3,4,6	15
3,4,6,8	9
3,4,8	7
3,4,8,9	
3,4,9	2 3
3,5	83
3,5,6	68
3,5,6,7	1
3,5,6,7,8	4
3,5,6,8	44
3,5,6,8,9	2
3,5,6,9	4
3,5,7,8	2
3,5,8	31
3,5,9	3
3,6	21
3,6,7	1
~,~,	1

3,6,8	9
3,6,9	1
3,7	1
3,8	6
3,8,9	3
3,9	11
4,5	44
4,5,6	52
4,5,6,7	1
4,5,6,7,8	1
4,5,6,8	27
4,5,6,8,9	1
4,5,7	2
4,5,7,8	2
4,5,8	24
4,5,9	3
4,6	20
4,6,7,8	1
4,6,8	18
4,8	8
4,8,9	3
4,9	3
5,6	205
5,6,7	2
5,6,7,8	12
5,6,8	158
5,6,8,9	8
5,6,9	7
5,7,8	3
5,8	110
5,8,9	11
5,9	20
6,7	2
6,7,8	10
6,8	67
6,8,9	5
6,9	11
7,8	1
7,8,9	1
7,9	1
8,9	11
Total	6870

12. If, suddenly, every one of your students had broadband Internet access at home, what level of impact might this have on student learning/achievement?"

#	Answer	%	Count
1	Substantial negative impact	1.51%	104
2	Minimal negative impact	2.86%	197
3	No impact	18.30%	1259
4	Minimal positive impact	50.02%	3441
5	Substantial positive impact	27.30%	1878
	Total	100%	6879

Appendix B. Sample Email Communication messages

Pre-notice to Superintendents

Date: Monday, July 8, 2019

Subject: Pre-notice of 2018-2019 Nebraska Homework Gap Survey

Dear \${m://FirstName} \${m://LastName},

The Nebraska Department of Education is partnering with the Nebraska Rural Broadband Task Force's Homework Gap Subcommittee to conduct a survey of Nebraska public and private PreK-12 teachers. This purpose of this very brief questionnaire is to help determine the degree to which the absence of students' home internet is influencing the instructional environment.

Teacher responses will remain confidential, and reports will only use aggregated results.

We would appreciate your cooperation in encouraging your teachers' participation. A copy of the survey can be accessed here for your viewing: Nebraska Homework Gap Survey

Thank you for your time,

Email Invitation

Date: July 9, 2019

Subject: 2018-2019 Nebraska Homework Gap Survey

Dear \${m://FirstName} \${m://LastName},

The Nebraska Department of Education is looking to improve how student data is used to inform school practices. As such, we are requesting your participation in the 2018-19 Homework Gap Survey. The survey is designed to gather your input regarding how the absence of some students' access to home internet is affecting your teaching and if any accommodations are being provided for these students.

The survey should only take two to three minutes to complete. Your responses to this survey will remain completely confidential, and reports will only use aggregated results. Please complete the survey by **July 30, 2019**.

The survey can be accessed by clicking on the following link: \$\{\l://SurveyLink?d=Take\%20the\%20Survey\}

Should you have any questions, please direct them to nde.research@nebraska.gov or tom.rolfes@nebraska.gov .

Thank you for your time.

Sincerely,

Email Reminder

Date: July 16, 2019

Subject: Reminder: 2018-2019 Nebraska Homework Gap Survey

Dear \${m://FirstName} \${m://LastName},

On July 9, we sent you an email invitation to participate in the 2018-19 Homework Gap Survey. This survey is important as it provides the Nebraska Department of Education with input regarding how the absence of some students' access to home internet is affecting your teaching and if any accommodations are being provided for these students. To the best of our knowledge, you have yet to respond to this survey. We are reaching out to you again because **your response is very important to us**.

The survey should only take two to three minutes to complete. Your responses to this survey will remain completely confidential, and reports will only use aggregated results. Please complete the survey by **July 30, 2019.**

The survey can be accessed by clicking on the following link: \$\{\l!/\SurveyLink?d=Take\%20the\%20Survey\}

Should you have any questions, please direct them to nde.research@nebraska.gov or tom.rolfes@nebraska.gov .

Thank you for your time.

Sincerely,

Final Email Reminder

Date: July 23, 2019

Subject: Final Reminder: 2018-2019 Nebraska Homework Gap Survey

Dear \${m://FirstName} \${m://LastName},

On July 9, 2019, and again on July 16, 2019, we sent you an email invitation to participate in the 2018-19 Homework Gap Survey. This survey is important as it seeks to determine how the absence of some students' access to home internet is affecting your teaching and if any accommodations are being provided for these students. To the best of our knowledge, you have yet to respond to this survey. We are reaching out to you again because **your response is very important to us**.

The survey should only take two to three minutes to complete. Your responses to this survey will remain completely confidential, and reports will only use aggregated results. Please complete the survey by **July 30, 2019.**

The survey can be accessed by clicking on the following link: \$\{\l!/\SurveyLink?d=Take\%20the\%20Survey\}

Should you have any questions, please direct them to nde.research@nebraska.gov or tom.rolfes@nebraska.gov .

Thank you for your time.

Sincerely,



Default Question Block

Nebraska Homework Gap Survey

Welcome!

The Nebraska Rural Broadband Task Force's (https://ruralbroadband.nebraska.gov)
Homework Gap Subcommittee is conducting a non-scientific questionnaire of Nebraska public and private PreK-12 teachers to help determine the degree to which the absence of Internet at students' homes is influencing the instructional environment. There are 12 short questions that should not require longer than 3 minutes to complete. Your responses will remain confidential, and reports will only use aggregated results.

1. How long have you been teaching?
 Less than a year 1-2 years 3-5 years 6-10 years 11-19 years 20 or more years
Please identify your level of proficiency with educational technology hardware and software.
Very High (Expert)Above AverageAverage

O Below Average O Very Low (Novice)		
3. Which of the following grade levels of	students do you teach? Please check all that apply.	
☐ Pre-K	□ 6	
□к	7	
□ 1	□ 8	
2	9	
□ 3	□ 10	
□ 4	□ 11	
5	1 2	
4. Which subject area do you spend the	most time teaching? Please select only one.	
O Business/Technology		
O Elementary (All Subjects)		
O English/Language Arts		
O Fine/Performing Arts		
O Health and Physical Education		
O Industrial Technology/Agriculture		
O Mathematics		
O Science		
O Social Studies		
O Special Education		
O World Languages		
Other (please specify):		
5. What is the size of the community whe	ere your school or school district is located?	
O In a rural setting or village or town of less	than 2,500 population	
O In a city of 2,500 - 9,999 population		
O In a city of 10,000 - 24,999 population		
O In a city of 25,000 or more population		

6. In which ESU is your school or school district located? (http://www.esucc.org/NEBRASKAESUS)
v
7. Has a majority of your assigned students been provided district-owned computing devices to use at home?
O Yes
O No
8. What proportion of your homework assignments or readings are dependent on digital or Internet-based resources (i.e., non-print resources)?
O Up to 25%
O Between 25% and 50%
O Between 50% and 75%
O Between 75% and 100%
O 100%
9. What would you estimate as the percentage of your school's students who do not have home Internet access to complete homework?
O 0-10%
O 11-20%
O 21-30%
O 31-40%
More than 40%

10. Please indicate how strongly you agree or disagree with the following statement:

The absence of home Internet access for some students in a class affect the level or amount of homework that I assign for all students in that class.

0	Strongly agree
0	Somewhat agree
0	Neither agree nor disagree
0	Somewhat disagree
0	Strongly disagree
	Do you (and/or your school) make, if any, accommodations to address students' lack of ne Internet access?
0	Yes
0	No
	at accommodations do you (and/or your school) make to address students' lack of home rnet access? Please check all that apply.
	Families are informed about community locations where free Wi-Fi is available.
	I allow more days (longer duration) for students to complete their homework assignments.
	I assign less homework overall.
	I place less emphasis on homework for students' overall grades.
	I provide more class time to complete homework assignments.
	Some students are provided printed materials that otherwise would be Internet-based.
	The school lends cellular hotspots to students for home Internet access.
	The school provides before-school and after-school time to complete homework assignments.
	Other (please specify):
	If, suddenly, every one of your students had broadband Internet access at home, what el of impact might this have on student learning/achievement?
0	Substantial negative impact
0	Minimal negative impact
0	No impact
0	Minimal positive impact
0	Substantial positive impact

Final Page	
If you have any other comments on this survey, please provide them in the box below. Otherwise, please hit the "Submit" button to exit the survey.	
	//

NDE #20-6967

For more information about this survey, please contact: Tom Rolfes | Office of the CIO | Tom.Rolfes@nebraska.gov | 402-471-7969

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