

1 NDSA State Growth Percentile Comparisons

Using the 2016-2017 and 2017-2018 North Dakota State Assessment results ('NDSA'), students were included in this study if they were in grades 4-8 in 2017-18 with NDSA results in both the 2016-17 and 2017-18 school years. If a student fell under this criteria, they were divided into one of three groups:

1. Students taught in 2017-2018 by a Dickinson State University graduate who completed their degree in either Fall 2016, Spring 2017, or Summer 2017 semesters.
2. Students taught in 2017-2018 by a first-year teacher who was **not** a Dickinson State University graduate who completed their degree in either Fall 2016, Spring 2017, or Summer 2017 semesters.
3. Students taught in 2017-2018 by a teacher who **was not** identified as a first-year teacher.

1.1 NDSA Math

Figure 1 and Table 1 below compares students of Dickinson State University first-year teachers to students of all North Dakota non-first year teachers and students of first-year teachers not from Dickinson State University. The values compared are the state growth percentiles on the 2017-2018 NDSA Math assessment. For example, a growth percentile of 30 would mean that a student's increase from 2016-2017 to 2017-2018 NDSA Math score is greater than the score increase seen by 30% of students at the same grade level.

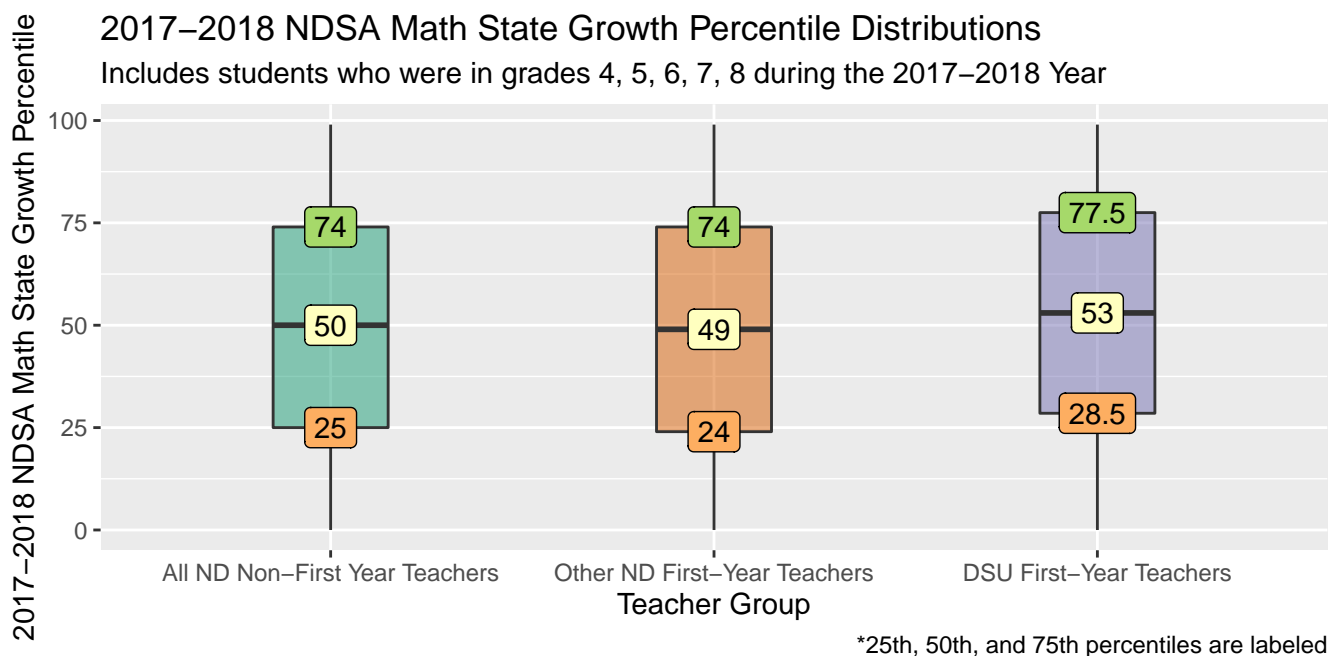


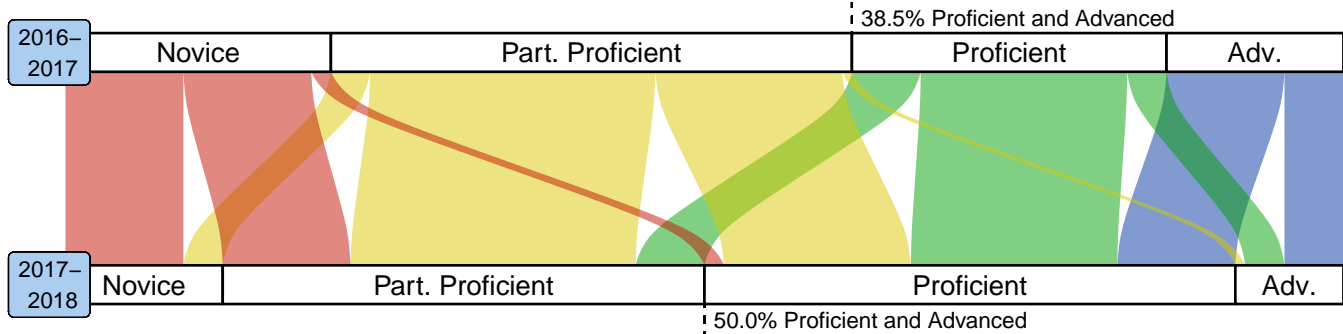
Figure 1: 2017-2018 NDSA Math State Growth Percentile Distribution by Teacher Group

Group	# Students	10th	25th	40th	50th	60th	75th	90th
<i>ND Non-First Year Teacher</i>	35922	9.2	25	39	50	60	74	89
<i>ND First Year Teacher</i>	2344	9	24	38	49	58	74	89
<i>DSU First Year Teacher</i>	131	15	28.5	45	53	65	77.5	91

Table 1: 2017-2018 NDSA Math State Growth Percentile Distributions by Teacher Group

The figures and tables below show the NDSA Mathematics proficiency levels in grades 4-8 for students of first-year DSU teachers compared to those of non-first year teachers, along with their transition between levels during the 2016-17 and 2017-18 school year. The 2016-17 results for students of DSU teachers are *before* the teacher arrived, while the 2017-18 results show those proficiency levels after approximately one year with the teacher. Please note that the tables show row percentages, showing what proportion of each 2016-17 group scored in 2017-18.

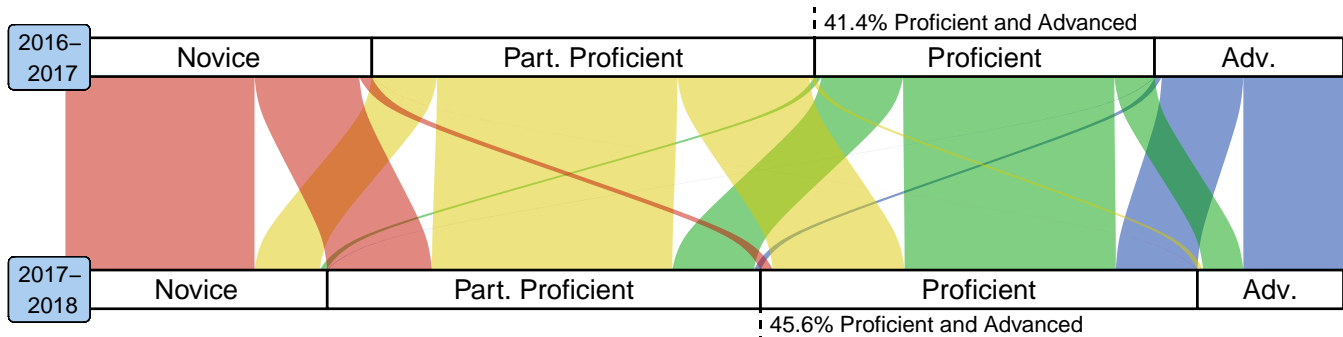
Student NDSA Mathematics Proficiency Before/After First Year Teacher For Students Of DSU First Year Teachers



↓ 2016-17 2017-18 →	Novice	Part. Proficient	Proficient	Advanced
<i>Novice</i>	44.4%	48.1%	7.4%	0.0%
<i>Part. Proficient</i>	7.5%	54.7%	35.8%	1.9%
<i>Proficient</i>	0.0%	21.9%	65.6%	12.5%
<i>Advanced</i>	0.0%	0.0%	66.7%	33.3%

Table 2: Student NDSA Proficiency Before/After DSU First Year Teacher
*Percentages listed are row percentages.

Student NDSA Mathematics Proficiency For Students Of Non-First Year Teachers



↓ 2016-17 2017-18 →	Novice	Part. Proficient	Proficient	Advanced
<i>Novice</i>	61.7%	34.2%	4.0%	0.1%
<i>Part. Proficient</i>	14.7%	54.3%	29.7%	1.3%
<i>Proficient</i>	2.0%	24.0%	62.2%	11.8%
<i>Advanced</i>	0.3%	3.5%	43.2%	53.0%

Table 3: Student NDSA Proficiency For Non-First Year Teachers
*Percentages listed are row percentages.

1.2 NDSA Reading

Figure 2 and Table 2 below compares students of Dickinson State University first-year teachers to students of all North Dakota non-first year teachers and students of first-year teachers not from Dickinson State University. The values compared are the state growth percentiles on the 2017-2018 NDSA Reading assessment. For example, a growth percentile of 30 would mean that a student's increase from 2016-2017 to 2017-2018 NDSA Reading score is greater than the score increase seen by 30% of students at the same grade level.

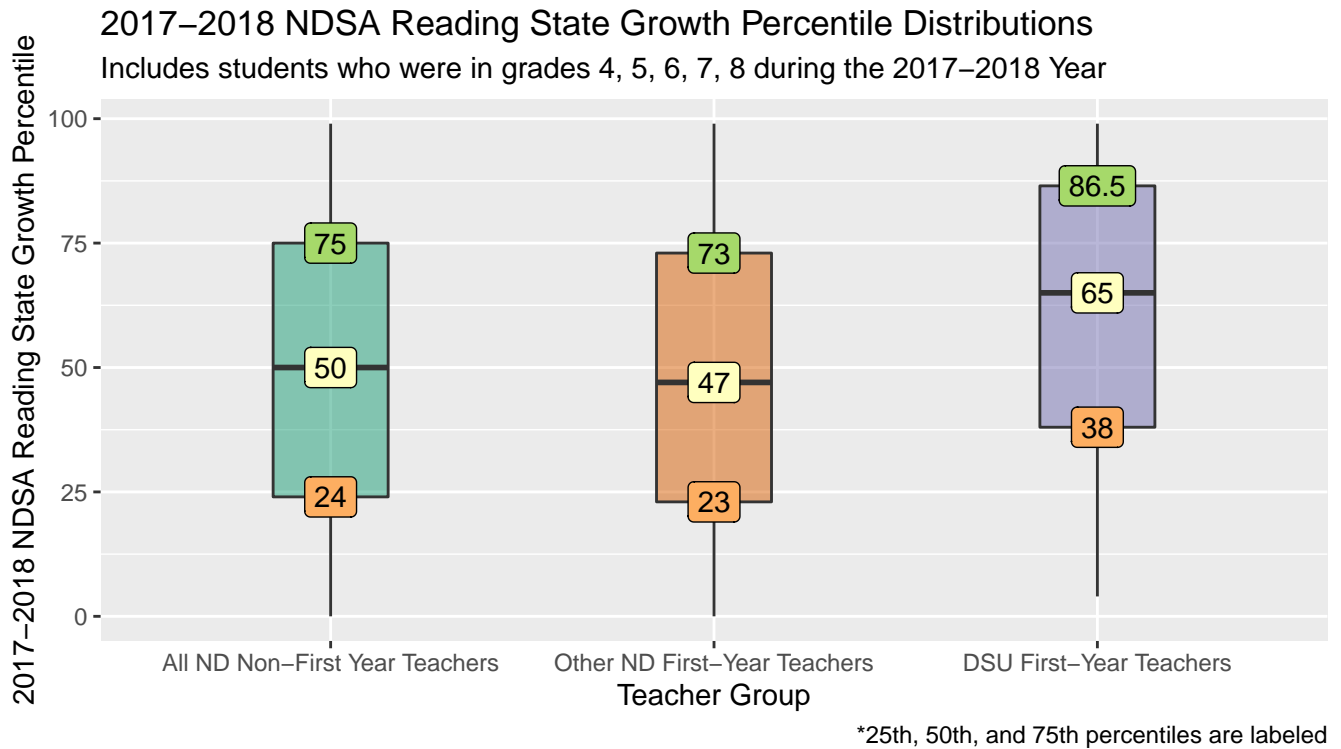


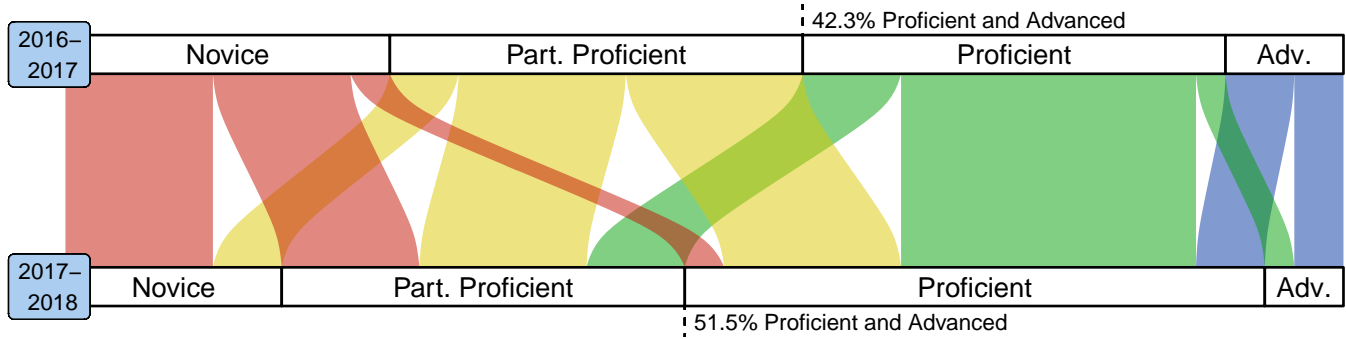
Figure 2: 2017-2018 NDSA Reading State Growth Percentile Distribution by Teacher Group

Group	# Students	10th	25th	40th	50th	60th	75th	90th
<i>ND Non-First Year Teacher</i>	35911	10	24	40	50	60	75	89
<i>ND First Year Teacher</i>	2343	9	23	38	47	57	73	90
<i>DSU First Year Teacher</i>	131	19	38	56	65	73	86.5	94

Table 4: 2017-2018 NDSA Reading State Growth Percentile Distributions by Teacher Group

The figures and tables below show the NDSA Reading proficiency levels in grades 4-8 for students of first-year DSU teachers compared to those of non-first year teachers, along with their transition between levels during the 2016-17 and 2017-18 school year. The 2016-17 results for students of DSU teachers are *before* the teacher arrived, while the 2017-18 results show those proficiency levels after approximately one year with the teacher. Please note that the tables show row percentages, showing what proportion of each 2016-17 group scored in 2017-18.

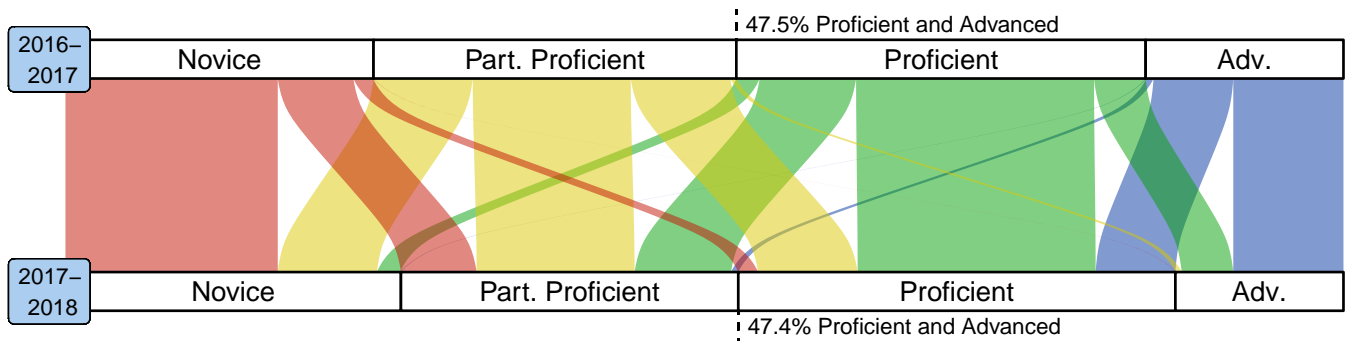
Student NDSA Language Proficiency Before/After First Year Teacher For Students Of DSU First Year Teachers



↓ 2016-17 2017-18 →	Novice	Part. Proficient	Proficient	Advanced
<i>Novice</i>	45.5%	42.4%	12.1%	0.0%
<i>Part. Proficient</i>	16.7%	40.5%	42.9%	0.0%
<i>Proficient</i>	0.0%	23.3%	69.8%	7.0%
<i>Advanced</i>	0.0%	0.0%	58.3%	41.7%

Table 5: Student NDSA Proficiency Before/After DSU First Year Teacher
*Percentages listed are row percentages.

Student NDSA Language Proficiency For Students Of Non-First Year Teachers



↓ 2016-17 2017-18 →	Novice	Part. Proficient	Proficient	Advanced
<i>Novice</i>	68.9%	24.6%	6.4%	0.1%
<i>Part. Proficient</i>	27.3%	43.5%	27.5%	1.6%
<i>Proficient</i>	5.7%	23.6%	58.1%	12.6%
<i>Advanced</i>	0.3%	3.6%	40.3%	55.7%

Table 6: Student NDSA Proficiency For Non-First Year Teachers
*Percentages listed are row percentages.