

1 NDSA State Growth Percentile Comparisons

Using the 2015-2016 and 2016-2017 North Dakota State Assessment results ('NDSA'), students were included in this study if they were in grades 4-8 in 2016-17 with NDSA results in both the 2015-16 and 2016-17 school years. If a student fell under this criteria, they were divided into one of three groups:

1. Students taught in 2016-2017 by a Dickinson State University graduate who completed their degree in either Fall 2015, Spring 2016, or Summer 2016 semesters.
2. Students taught in 2016-2017 by a first-year teacher who was **not** a Dickinson State University graduate who completed their degree in either Fall 2015, Spring 2016, or Summer 2016 semesters.
3. Students taught in 2016-2017 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 2016-2017 NDSA Math assessment. For example, a growth percentile of 30 would mean that a student's increase from 2015-2016 to 2016-2017 NDSA Math score is greater than the score increase seen by 30% of students at the same grade level.

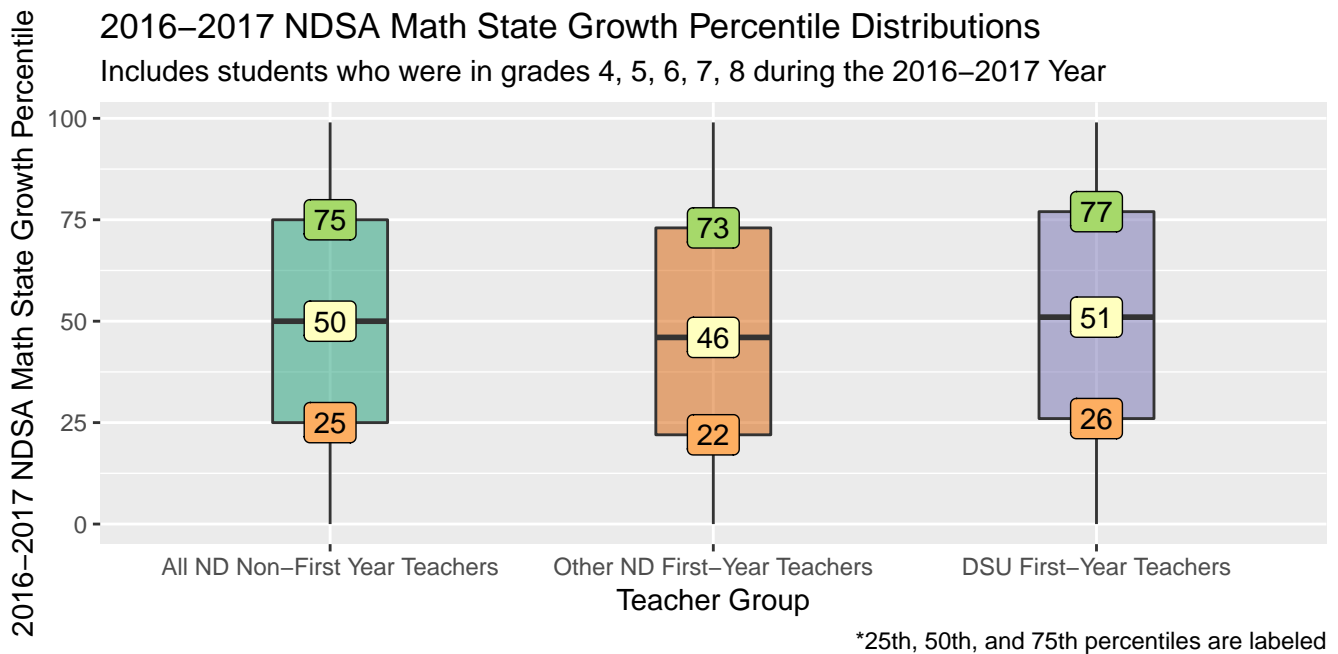


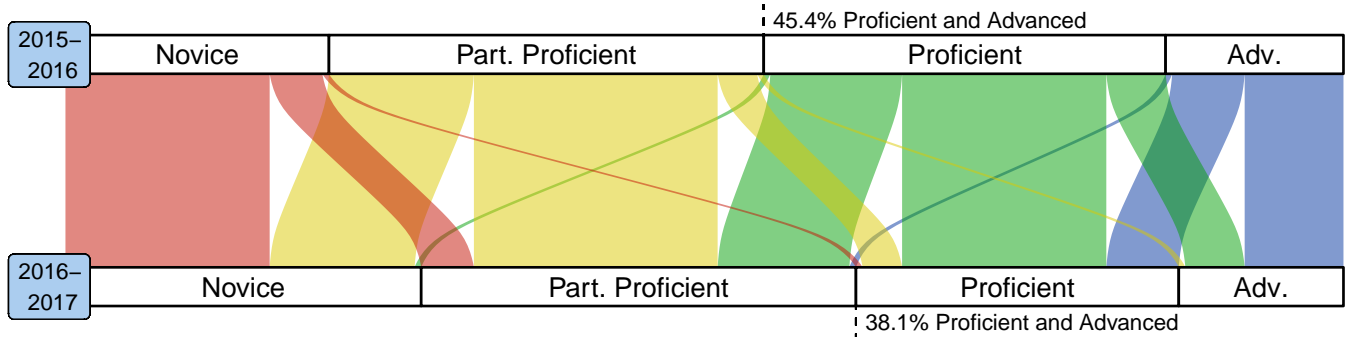
Figure 1: 2016-2017 NDSA Math State Growth Percentile Distribution by Teacher Group

Group	# Students	10th	25th	40th	50th	60th	75th	90th
<i>ND Non-First Year Teacher</i>	35091	10	25	40	50	60	75	90
<i>ND First Year Teacher</i>	1910	9	22	36	46	57	73	88.1
<i>DSU First Year Teacher</i>	197	12	26	40.4	51	63	77	88.4

Table 1: 2016-2017 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 2015-16 and 2016-17 school year. The 2015-16 results for students of DSU teachers are *before* the teacher arrived, while the 2016-17 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 2015-16 group scored in 2016-17.

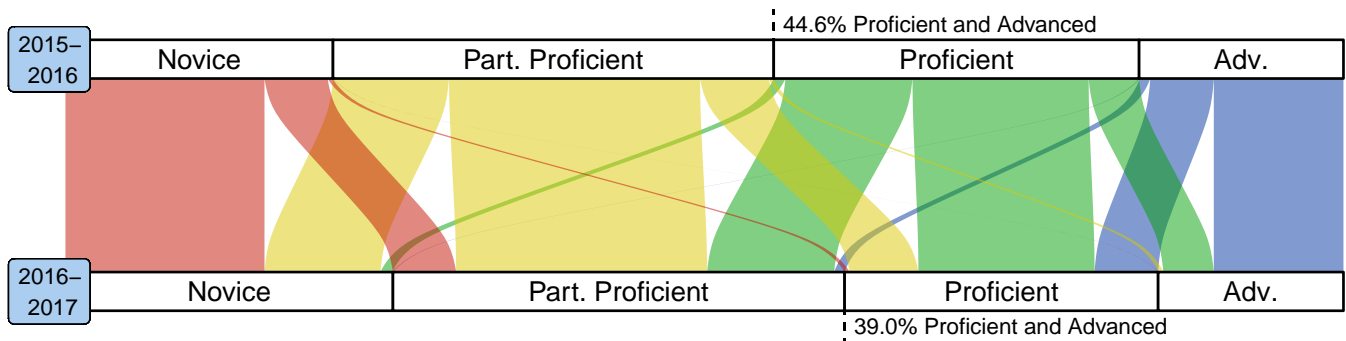
Student NDSA Mathematics Proficiency Before/After First Year Teacher For Students Of DSU First Year Teachers



↓ 2015-16 2016-17 →	Novice	Part. Proficient	Proficient	Advanced
<i>Novice</i>	77.5%	20.0%	2.5%	0.0%
<i>Part. Proficient</i>	33.3%	56.1%	9.1%	1.5%
<i>Proficient</i>	1.6%	32.8%	50.8%	14.8%
<i>Advanced</i>	0.0%	3.7%	40.7%	55.6%

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



↓ 2015-16 2016-17 →	Novice	Part. Proficient	Proficient	Advanced
<i>Novice</i>	74.4%	23.6%	1.9%	0.1%
<i>Part. Proficient</i>	26.3%	56.9%	15.6%	1.1%
<i>Proficient</i>	3.2%	34.8%	48.2%	13.8%
<i>Advanced</i>	0.3%	5.1%	31.1%	63.5%

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 2016-2017 NDSA Reading assessment. For example, a growth percentile of 30 would mean that a student's increase from 2015-2016 to 2016-2017 NDSA Reading score is greater than the score increase seen by 30% of students at the same grade level.

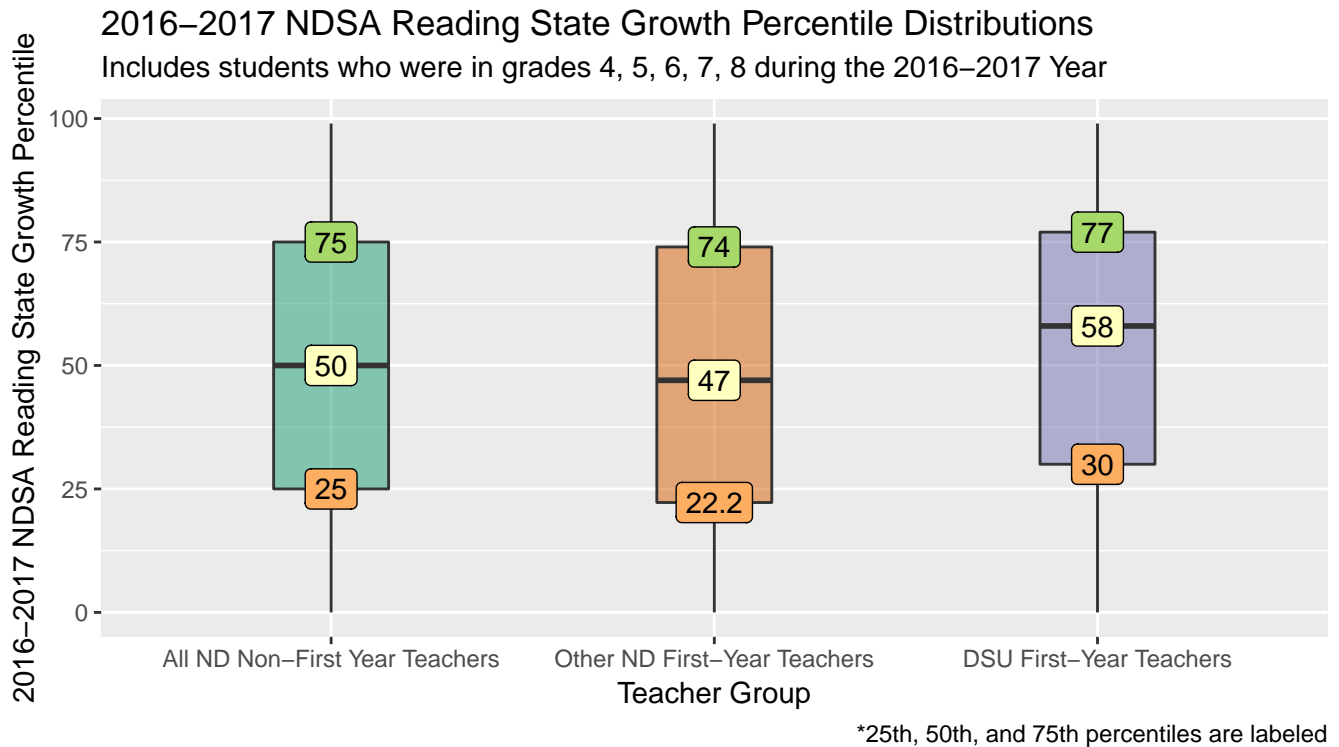


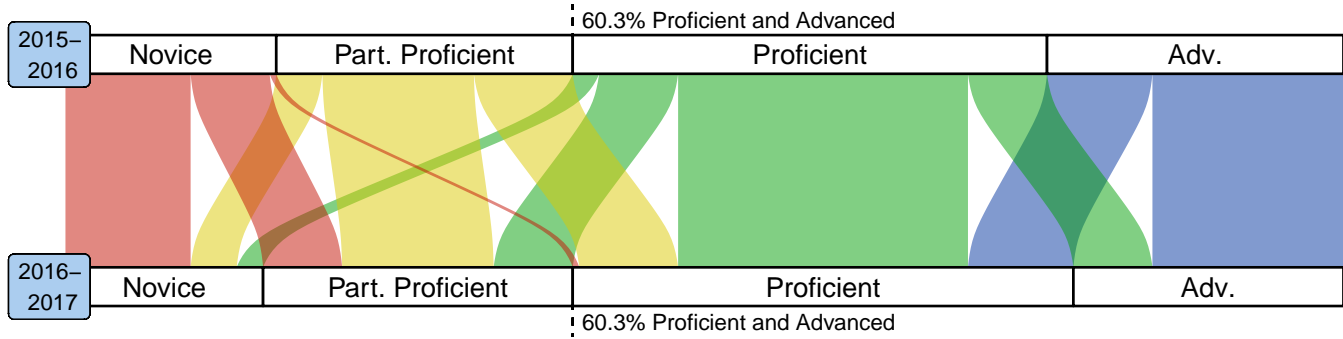
Figure 2: 2016-2017 NDSA Reading State Growth Percentile Distribution by Teacher Group

Group	# Students	10th	25th	40th	50th	60th	75th	90th
<i>ND Non-First Year Teacher</i>	35027	10	25	40	50	60	75	90
<i>ND First Year Teacher</i>	1894	9	22.2	37	47	58	74	90
<i>DSU First Year Teacher</i>	197	17	30	47	58	66	77	89

Table 4: 2016-2017 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 2015-16 and 2016-17 school year. The 2015-16 results for students of DSU teachers are *before* the teacher arrived, while the 2016-17 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 2015-16 group scored in 2016-17.

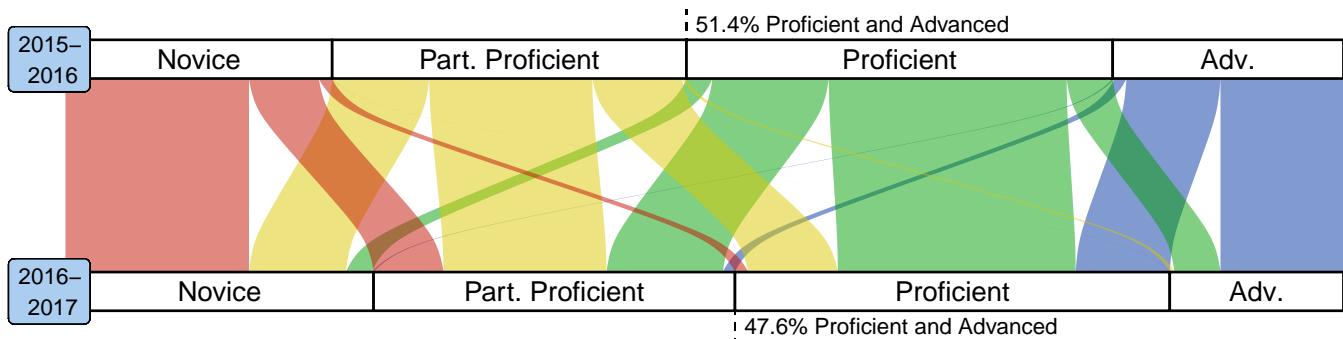
Student NDSA Language Proficiency Before/After First Year Teacher For Students Of DSU First Year Teachers



↓ 2015-16 2016-17 →	Novice	Part. Proficient	Proficient	Advanced
<i>Novice</i>	59.4%	37.5%	3.1%	0.0%
<i>Part. Proficient</i>	15.6%	51.1%	33.3%	0.0%
<i>Proficient</i>	5.6%	16.7%	61.1%	16.7%
<i>Advanced</i>	0.0%	0.0%	35.6%	64.4%

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



↓ 2015-16 2016-17 →	Novice	Part. Proficient	Proficient	Advanced
<i>Novice</i>	68.8%	26.2%	4.9%	0.1%
<i>Part. Proficient</i>	27.4%	46.0%	25.3%	1.3%
<i>Proficient</i>	6.1%	27.3%	55.8%	10.8%
<i>Advanced</i>	0.7%	5.2%	40.8%	53.3%

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