

Population

Communities included in the NANA region for determining population are those communities served by the Northwest Arctic Borough School District. Communities are as follows:

Ambler city	Kivalina city	Noorvik city
Buckland city	Kobuk city	Red Dog Mine CDP
Deering city	Kotzebue city	Selawik city
Kiana city	Noatak CDP	Shungnak city

Note: CDP is the U.S. Census Bureau abbreviation for Census Designated Place.

It is estimated that population of the NANA region has grown by 2 percent (+138 people) between Census 2000 and 2003. Almost 84 percent of the NANA region's population were identified as Alaska Natives, alone or in combination with some other race, for Census 2000. The Alaska Native population is greater than that shown in the following table, but Census 2000 sampling and suppression of data for communities with small populations causes an undercount of the actual population.

35 percent of the NANA region's total population are of school age (5 to 19 years), but 38.6 percent of the region's Native population are of school age.

Table 108
NANA Region
Demographics Profile, Census 2000 and 2003 Estimates

	Total Population		Alaska Native Alone or in combination with some other race	
	Number	Percent	Number	Percent
Total Population				
2003 estimate	7,067	--	--	--
Census 2000	6,929		5,814	83.9%
Change	+138	+2.0%	--	--
Gender (Census 2000)				
Male	3,616	52.2%	2,993	51.5%
Female	3,313	47.8	2,821	48.5
Age (Census 2000)				
< 5 years	771	11.1%	682	11.7%
5 - 14 years	1,724	24.9	1,598	27.5
15 - 19 years	703	10.1	646	11.1
20 - 34 years	1,391	20.1	1,125	19.3
35 - 44 years	951	13.7	735	12.6
45 - 64 years	1,037	15.0	707	12.2
65 or more years	352	5.1	321	5.5

Sources: U.S. Census Bureau and Alaska Department of Labor and Workforce Development.

Note: Total population includes Alaska Natives, alone or in combination with some other race. Age, gender, and ethnicity information is not available from the Department of Labor and Workforce Development's 2003 population estimates.

School Inventory and Enrollment

Public school enrollment is the count of students enrolled on October 1, 2003 for the 2003-2004 school year. Therefore, students leaving or entering a school after October 1, 2003 are not reflected in the enrollment figure.

There is one school district in the NANA region, with 13 public schools. Native enrollment for the school year 2003-2004 was 91 percent of the total 2,214 enrollment. In the 2002-2003 school year, Alaska Native enrollment made up 90.9 percent of a total enrollment of 2,172 students.

Alaska Native “students with disabilities” represented 92.2 percent (178 students) of all students enrolled with disabilities (193 students) in the NANA region.

Private schools are not required by law to report their enrollments to the Alaska Department of Education and Early Development. However, according to the one school that volunteered this information (Nikaichuat Iisagviat in Kotzebue), 12 students were enrolled in a private school. This enrollment figure is not a complete and accurate count of students enrolled in NANA region private schools.

Table 109
NANA Region
Public School Enrollment by School and Ethnicity
2003 – 2004 School Year

District and School Name	Alaska Native		All Other		Total
	Number	Percent	Number	Percent	Number
Northwest Arctic Borough Schools					
Ambler School	88	98.9%	1	1.1%	89
Aqqaluk High/Noorvik Elementary	218	99.1	2	0.9	220
Buckland School	167	97.1	5	2.9	172
Davis-Ramoth School	276	99.3	2	0.7	278
Deering School	49	98.0	1	2.0	50
June Nelson Elementary	376	85.1	66	14.9	442
Kiana School	118	99.2	1	0.8	119
Kobuk School	35	92.1	3	7.9	38
Kotzebue Middle/High School	330	75.0	110	25.0	440
McQueen School	116	100.0	-	-	116
Napaaqtugmiut School	163	94.8	9	5.2	172
NW Arctic Dist. Wide Correspondence	8	100.0	-	-	8
Shungnak School	70	100.0	-	-	70
NANA Region Total	2,014	91.0%	200	9.0%	2,214
Comparison to Previous Year					
NANA Totals 2002-2003 School Year	1,975	90.9%	197	9.1%	2,172
Number Change	+39		+3		+42
Percent Change	+2.0%		+1.5%		+1.9%

Source: Alaska Department of Education and Early Development.

Average Daily Attendance Rates

The NANA region schools had average daily attendance rates of 86 percent for the 2003-2004 school year. This represents a slight decrease (-0.7 percent) over the 2002-2003 school year.

The Alaska Department of Education and Early Development measures attendance rates by taking the sum of all days present for all students in a school for the year and dividing this by the sum of all days present and all days absent for all students in a school for the year. This information is not available by ethnicity.

*Table 110
NANA Region
Average Daily Attendance Rates
2001 – 2002, 2002 – 2003, and 2003 – 2004 School Years*

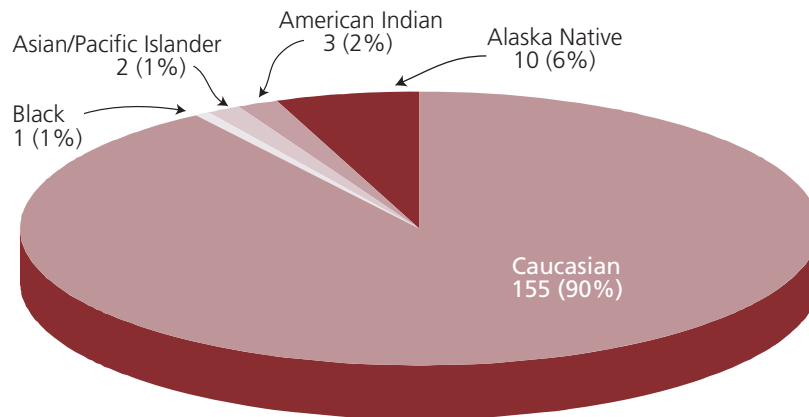
District and School Name	Attendance Rate (percentage)			Percent Change from 2002-2003 to 2003-2004
	2001-2002	2002-2003	2003-2004	
Northwest Arctic Borough Schools	87.6%	86.6%	86.0%	-0.7%
Ambler School	87.6	79.8	90.8	+11.0
Aqqaluk High/Noorvik Elementary	92.2	80.2	93.2	+13.0
Buckland School	94.5	91.0	94.0	+2.9
Davis-Ramoth School	80.9	83.7	82.6	-1.1
Deering School	91.2	92.9	89.5	-3.3
June Nelson Elementary	85.3	87.6	89.7	+2.0
Kiana School	90.6	91.0	91.6	+0.6
Kobuk School	93.7	94.7	92.6	-2.1
Kotzebue Middle/High School	84.4	82.6	74.2	-8.4
McQueen School	82.0	78.9	83.1	+4.2
Napaaqtugmiut School	92.0	89.3	87.4	-1.9
NW Arctic Dist. Wide Corresp.	100.0	100.0	100.0	0.0
Shungnak School	89.8	91.1	88.9	-2.3
NANA Region Average	87.6%	86.6%	86.0%	-0.7%

Source: Alaska Department of Education and Early Development.

Teacher Ethnicity

There were 171 teachers (including teachers, head teachers, visiting teachers and remedial specialists) in the NANA region schools for the 2003-2004 school year. Ten teachers were Alaska Natives, three fewer Alaska Native teachers than in the 2002-2003 school year.

Figure 52
NANA Region
Number and Percent of Teachers by Ethnicity
2003 – 2004 School Year



Source: Alaska Department of Education and Early Development.

Educator Turnover

For this report, “educator turnover” includes instances in which a superintendent, principal, or teacher changes his or her job classification within the same school (for instance, a teacher becomes a principal) and/or leaves the school where he or she worked from the 2002-2003 school year to the 2003-2004 school year.

The following table provides educator turnover rates, broken out by superintendents and principals combined and by teachers for the one school district that are included in the NANA region. The category of teachers includes: teacher, head teacher, visiting teacher, and remedial specialist.

Superintendent/principal turnover in the NANA region was 15.4 percent, and teacher turnover was 26.9 percent.

*Table 111
NANA Region
Educator Turnover by School District
Between 2002 – 2003 and 2003 – 2004 School Years*

District Name	Teachers			Superintendents/Principals		
	Number Employed	Turnover Number	Turnover Percent	Number Employed	Turnover Number	Turnover Percent
Northwest Arctic Borough Schools	171	46	26.9%	13	2	15.4%
NANA Region Total	171	46	26.9%	13	2	15.4%

Source: Alaska Department of Education and Early Development.

List of Schools Making AYP

Three out of the 13 NANA region schools made adequate yearly progress in the 2003-2004 school year. Two of these three schools had not made adequate yearly progress in the 2002-2003 school year.

The table below shows which schools in the NANA region made adequate yearly progress for the school year 2003-2004. This table also indicates whether the school had met AYP in the 2002-2003 school year.

*Table 112
NANA Region
Public Schools Making AYP by School District
2003 – 2004 School Year*

School Name and City	Met AYP in 2002-2003 School Year
Northwest Arctic Borough Schools	
Buckland School, Buckland	No
Kobuk School, Kobuk	No
NW Arctic Dist. Wide Correspondence, Kotzebue	Yes

Source: Alaska Department of Education and Early Development.

List of Schools Not Making AYP

The table below shows which 10 schools in the NANA region did not make adequate yearly progress for the school year 2003-2004. This table also indicates whether the school had met AYP in the 2002-2003 school year.

Deering School had made adequate yearly progress in the 2002-2003 school year. These schools are either at Level 1, 2, 3 or 5 AYP sanctions. AYP Level Sanctions vary, depending on whether the school is receiving Title I funding. Nine of these 10 schools are Title I funded schools. See Appendix A for sanctions for schools receiving or not receiving Title I funds.

Ambler School (Ambler) was a safe harbor school. Safe Harbor is another way for a school to show it is making progress toward the statewide AYP goals. In general, safe harbor means a school can still make AYP, if it reduces the percent of students who score below proficient on exams by 10 percent from the previous year. For example, if a school is 70 percent not proficient, it would need to make a 7 percent improvement to be safe harbor.

Table 113
NANA Region
Public Schools Not Making AYP by School District
2003 – 2004 School Year

District and School Name	Title I School	AYP Level 2003-2004 School Year	Annual Measurable Objective Not Met in 2003-2004 School Year	Met AYP in 2002-2003 School Year
			(See Legend Key Below)	
Northwest Arctic Borough Schools				
Ambler School, Ambler (SH)	Yes	Level 3	G1, G3, G8	No
Aqqaluk High/Noorvik Elementary, Noorvik	Yes	Level 3	LA1, LA3, LA8, LA10, MA1, MA3, MA8, MA10, G1	No
Davis-Ramoth School, Selawik	Yes	Level 5	P1, P3, P8, P10, LA1, LA3, LA8, LA10, MA1, MA3, MA8, MA10, G1	No
Deering School, Deering	Yes	Level 1	LA1, LA3, LA8, MA8	Yes
June Nelson Elementary, Kotzebue	Yes	Level 2	LA1, LA3, LA8	No
Kiana School, Kiana	Yes	Level 3	LA1, LA3, LA8, MA1, MA3, MA8, G1	No
Kotzebue Middle/High School, Kotzebue	No	Level 2	LA3, LA8, LA10, MA8, MA10	No
McQueen School, Kivalina	Yes	Level 3	LA1, LA3, LA8, LA10, MA1, MA3, MA8, MA10	No
Napaaqtugmiut School, Noatak	Yes	Level 2	LA1, LA3, LA8, LA10, MA1, MA3, MA8, MA10	No
Shungnak School, Shungnak	Yes	Level 3	LA1, LA3, LA8, MA1, MA3, MA8, G1	No

Legend Key:

P = Participation Rate LA = Language Arts MA = Math A = Attendance G = Graduation Rate
 1 = School as a Whole 2 = African American 3 = Alaska Native 4 = American Indian 5 = Asian
 6 = Caucasian 7 = Hispanic 8 = Economically Disadvantaged 9 = Students with Disabilities
 10 = Limited English Proficiency

Source: Alaska Department of Education and Early Development.

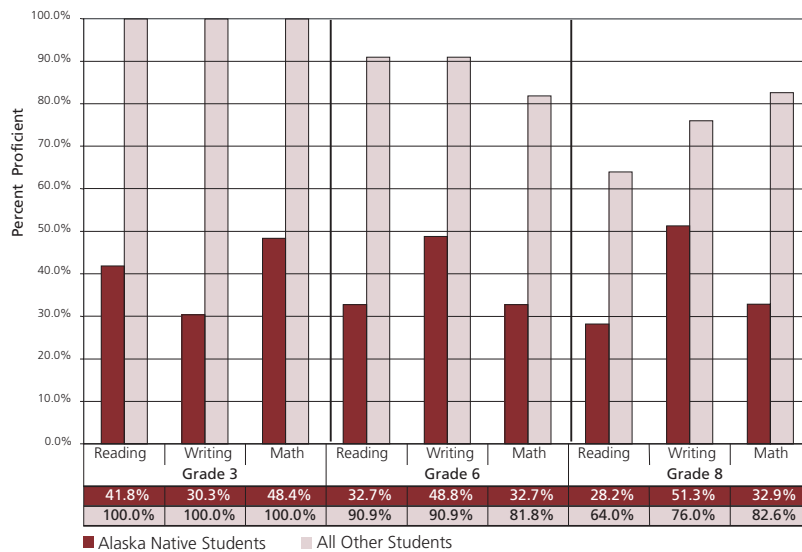
Note: (SH) denotes Safe Harbor.

Benchmark Examinations

School districts included with the NANA region consist entirely of the Northwest Arctic Borough Schools.

The table below shows the benchmark examination results for students enrolled in the third, sixth, and eighth grades. Alaska Native students have significantly lower test results for all grades and subjects than do students of all other ethnicities combined.

Figure 53
NANA Region
Benchmark Examination Results by Ethnicity, 2003 – 2004 School Year



Source: Alaska Department of Education and Early Development.

Comparisons of NANA region benchmark examination results between the 2002-2003 and 2003-2004 school years for Alaska Native student performance are found in the table below. The two school years may not be directly comparable because some data were withheld, if they might have revealed an individual student's performance. Other variables may include opening and closing of schools within regions and varying student populations for Grades 3, 6, and 8.

Table 114
NANA Region
Benchmark Examination Results for Alaska Native Students, 2002 – 2003 and 2003 – 2004 School Years

School Year	Grade 3			Grade 6			Grade 8		
	Reading	Writing	Math	Reading	Writing	Math	Reading	Writing	Math
2003 - 2004	41.8%	30.3%	48.4%	32.7%	48.8%	32.7%	28.2%	51.3%	32.9%
2002 - 2003	38.8%	32.1%	44.8%	25.0%	35.8%	23.9%	30.9%	43.9%	30.9%
Change (%)	+3.0%	-1.8%	+3.6%	+7.7%	+13.0%	+8.8%	-2.7%	+7.4%	+2.0%

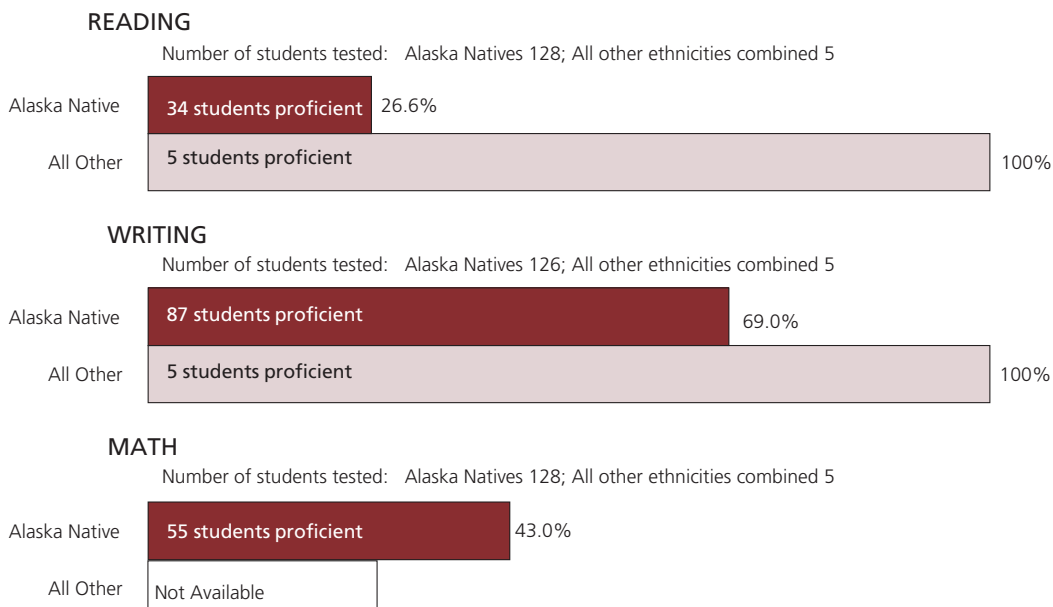
Source: Alaska Department of Education and Early Development.

High School Graduation Qualifying Examinations

Students are required to pass the Alaska High School Graduation Qualifying Examination in order to receive high school diplomas. Students can begin taking the exam in their sophomore years and are eligible to retake the exam as juniors and seniors for any un-passed portions of the test. Students are offered retests in both the spring and fall of their junior and senior years. Those who do not pass the High School Graduation Qualifying Examination will be denied diplomas and will receive Certificates of Achievement instead.

In the NANA region, significantly lower percentages of Alaska Native students were proficient in the subject areas tested, when compared to all other students.

Figure 54
NANA Region
High School Graduation Qualifying Exam Proficiency Results
for Grade 10 Test-takers, by Ethnicity
2003 – 2004 School Year



Source: Alaska Department of Education and Early Development.

Note: Proficiency is based on a percent of students who took the test and is not based on enrollment.

NANA region High School Graduation Qualifying Examination results were compiled for the ethnicities and schools that had available data. Some re-testing results for students in the 11th and 12th grades were not available because some data may have revealed an individual student's performance or no non-Native students were tested.

Figure 55
NANA Region
High School Graduation Qualifying Exam Proficiency Results
for Grade 11 and 12 Re-Testers, by Ethnicity
2003 – 2004 School Year

READING

	Grade 11 number of students tested: Alaska Natives 47; All other ethnicities combined 4
Alaska Native	Not Available
All Other	Not Available
	Grade 12 number of students tested: Alaska Natives 11; All other ethnicities combined 0
Alaska Native	0 students proficient
All Other	No students tested

WRITING

	Grade 11 number of students tested: Alaska Natives 22; All other ethnicities combined 2
Alaska Native	6 students proficient 27.3%
All Other	Not Available
	Grade 12 number of students tested: Alaska Natives 4; All other ethnicities combined 0
Alaska Native	Not Available
All Other	No students tested

MATH

	Grade 11 number of students tested: Alaska Natives 45; All other ethnicities combined 2
Alaska Native	7 students proficient 15.6%
All Other	Not Available
	Grade 12 number of students tested: Alaska Natives 14; All other ethnicities combined 0
Alaska Native	Not Available
All Other	No students tested

Source: Alaska Department of Education and Early Development.

Note: Proficiency is based on a percent of students who took the test and is not based on enrollment.

High School Graduation Rates

In the 2003-2004 school year, the NANA region graduation rate for all students was 51.9 percent. Alaska Native students graduated at a rate of 49.7 percent, compared to 81.8 percent for all other ethnicities combined.

A graduate is defined as a student who has received a regular diploma from a state- or district-approved education program, as evidenced by receipt of a secondary school diploma from school authorities. Any student who receives a diploma under a waiver from the competency examination required in AS 14.03.075 (a), as specified by the state board, is considered to be a graduate. This does not include an individual who receives a Certificate of Achievement.

The No Child Left Behind Act requires the Alaska Department of Education and Early Development to adopt a cohort method for determining high school graduation rates. Beginning in the 2002-2003 school year, the Department switched to a new cohort method to measure the relative percent of students that graduate from high school in four years. For the 2003-2004 school year graduation rate indicator, the cohort includes all students starting high school (Grade 9) in the 2000-2001 school year through their graduation scheduled four years later in the 2003-2004 school year.

The graduation rate formula used by the Alaska Department of Education and Early Development is:

Number of Graduates (2003-2004)

Number of Graduates (2003-2004)

- + *Number of Continuing 12th Grade Students (2003-2004)*
- + *Number of 12th Grade Drop-outs (2003-2004)*
- + *Number of 11th Grade Drop-outs (2002-2003)*
- + *Number of 10th Grade Drop-outs (2001-2002)*
- + *Number of 9th Grade Drop-outs (2000-2001)*

It is important to note there are some limitations with this new methodology. For instance, a student that graduated in five years, rather than four years, would be counted in the next cohort of students. A student that graduates in three years, instead of four, would be counted in the prior cohort. Additionally, in the 2000-2001 and 2001-2002 school years, student-level information was submitted with anonymous information that could not be linked directly with specific students. The Department had no way to check for duplication or to see that the ethnic codes are valid for those two years.

Table 115
 NANA Region
 High School Graduation Rates by School and Ethnicity
 Cohort of 2000-2001 through 2003 – 2004 School Years

District and School Name	Alaska Natives				All Other Ethnicities			
	Number of Graduates	Continuing Students*	Drop-Outs 2001-2004**	Graduation Rate***	Number of Graduates	Continuing Students*	Drop-Outs 2001-2004**	Graduation Rate***
Northwest Arctic Schools								
Ambler School	1	-	5	16.7%	-	-	-	-
Aqgaluk High/Noorvik Elementary	2	2	13	11.8	-	-	-	-
Buckland School	6	3	-	66.7	1	-	-	100.0%
Davis-Ramoth School	6	2	15	26.1	-	-	-	-
Deering School	2	-	1	66.7	-	-	-	-
Kiana School	10	2	7	52.6	1	-	-	100.0
Kotzebue Middle/High School	29	-	9	76.3	7	2	-	77.8
McQueen School	4	-	-	100.0	-	-	-	-
Napaaqtug-miut School	9	1	5	60.0	-	-	-	-
Shungnak School	2	1	6	22.2	-	-	-	-
NANA Region Total	71	11	61	49.7%	9	2	-	81.8%

Source: Alaska Department of Education and Early Development.

Notes: * Continuing 12th Grade students include students who did not graduate in the 12th year but remained enrolled in school to complete course work toward graduation in the following year(s).

** Includes a sum of total student drop-outs from the 2000-2001, 2001-2002, 2002-2003, 2003-2004 school years.

*** Graduation rates are calculated using the following formula: Number of Graduates ÷ (Number of Graduates + Number of Continuing Students + Number of Drop-outs (2000/2001 to 2003/2004)).

Drop-Out Rates

A drop-out is defined as a student who was enrolled in the school at some time during the school year and left the school at some time during that same school year.

NANA region drop-out rates are displayed in the following table for the 2003–2004 school year. Reporting, calculating, and interpreting drop-out rates are subject to error and should be viewed with some caution, when reported at the region and school district levels. Drop-out rates do not directly correspond to high school graduation rates because graduation rates use a cohort method of calculation (over the past four years), rather than a single-year event, and do not include 7th and 8th grades.

The drop-out rate for Alaska Native students in the NANA region for grades 7 through 12 was 6.7 percent for the 2003-2004 school year. This compares to all other students in the NANA region who dropped out at a rate of 0 percent.

When compared to 2001-2002 school year drop-out figures, it appears that drop-out rates have decreased for the region.

*Table 116
NANA Region
Drop-Out Rates for Grades 7 through 12 by School and Ethnicity
2001-2002 and 2003 – 2004 School Year*

District and School Name	Alaska Native Students			All Other Students			Total Students		
	Enrollment	Drop-outs	% Drop-outs	Enrollment	Drop-outs	% Drop-outs	Enrollment	Drop-outs	% Drop-outs
Northwest Arctic Borough Schools									
Ambler School	38	2	5.3%	1	0	0.0%	39	2	5.1%
Aqqaluk High/Noorvik Elementary	75	13	17.3	3	0	0.0	78	13	16.7
Buckland School	73	0	0.0	4	0	0.0	77	0	0.0
Davis-Ramoth School	128	16	12.5	2	0	0.0	130	16	12.3
Deering School	24	5	20.8	1	0	0.0	25	5	20.0
Kiana School	51	3	5.9	1	0	0.0	52	3	5.8
Kobuk School	10	0	0.0	1	0	0.0	11	0	0.0
Kotzebue Middle/High School	269	7	2.6	85	0	0.0	354	7	2.0
McQueen School	51	0	0.0	0	0	-	51	0	0.0
Napaaqtugmiut School	74	3	4.1	0	0	-	74	3	4.1
NW Arctic Dist. Wide Corresp.	5	0	0.0	0	0	-	5	0	0.0
Shungnak School	29	6	20.7	0	0	-	29	6	20.7
NANA Region Total	827	55	6.7%	98	0	0.0%	925	55	5.9%
Comparison to 2001-2002 School Year									
NANA Totals 2001-2002 School Year	827	58	7.0%	49	0	0.0%	876	58	6.6%
Number Change	0	-3		+49	0		+49	-3	
Percent Change	0.0%	-5.2%		+100.0%	0.0%		+5.6%	-5.2%	

Source: Alaska Department of Education and Early Development.