American Association for Employment in Education

Educator Supply and Demand Report 2016-17



Connecting professionals who prepare teachers with those who hire them

American Association for Employment in Education

PO Box 173 • Slippery Rock • Pennsylvania • 16057 aaee.org • 614.485.1111 • info@aaee.org

Statistical analysis by:



470 Portage Lakes Drive, Suite 102 Akron, OH 44319 www.cmoresearch.com



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ABOUT AAEE:

Comprised of college/university career center staff, school district human resource professionals, and members of education-related organizations, the American Association for Employment in Education is a key organization for building networks to recruit teachers. For 80+ years, AAEE has been providing members with direct access to resources and networking opportunities with colleagues—all focused upon the highest standards in educator preparation, recruitment, hiring and retention. Prepared and published annually, the AAEE Educator Supply and Demand Report is a nationally recognized initiative and benchmark report.

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American Association for Employment in Education, PO Box 173, Slippery Rock, PA 16057

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Editor of the Supply and Demand Report: John F. Snyder, Slippery Rock University, PA



ABOUT THE EDUCATOR SUPPLY AND DEMAND SURVEY:

The Center for Marketing and Opinion Research (CMOR) conducted the 2016-2017 Educator Supply & Demand Survey on behalf of the American Association for Employment in Education (AAEE).

- Surveys were collected between October 20, 2016 and March 1, 2017.
- The initial email invitation with a link to complete the online survey was sent to the list provided by AAEE on October 20, 2016. Reminder invitations were sent at varying times and days.
- 422 surveys were completed.
 - o 191 colleges/universities (5.97% margin of error using a 90% confidence level)
 - o 231 school districts (5.43% margin of error)

The Center for Marketing & Opinion Research (CMOR) provides public opinion research services to colleges and universities, healthcare organizations, community-based organizations, non-profit and government agencies.

Table 1: The 59 Education Fields Evaluated in the Survey:

Education Fields
Agriculture Education
Art/Visual Education
Bilingual Education/Multicultural
Business Education
Computer Science Education
Dance Education
English/Language Arts Education
Family and Consumer Science
Health Education
Journalism Education
Music Education
Physical Education
Reading Specialist/Interventionist
Social Studies Education
Speech Education
Technology Education
Theatre/Drama Education
Languages
Chinese
Classical
ESL/ELL (English Language Learner)
French
German
Japanese
Other Languages
Spanish
Administration
Elementary Principal
High School Principal
Middle School Principal

Math & Science Education
Biology
Chemistry
Earth/Physical Science
General Science
Math
Physics
Support Services
Audiology
Counseling
Gifted/Talented Education
Library Science/Media Technology
Occupational Therapy
Physical Therapy
Reading Diagnostician
School Nursing
School Psychology
School Social Work
Speech Pathology
Elementary & Middle School Education
Intermediate Education
Kindergarten/Primary Education
Middle School Education
Pre-K Education
Special Education
Cognitive Disabilities Special Education
Dual Cert (General & Special Education)
Early Childhood Special Education
Emotion/Behavioral Disorders Special Ed.
Hearing Impaired Special Education
Learning Disability Special Education
Mild/Moderate Disabilities Special Ed.
Multi-categorical Special Education
Severe/Profound Disabilities Special Ed.
Visually Impaired Special Education



Study Highlights

Both colleges/universities as well as school districts were asked to evaluate demand for educators by rating 59 fields of study as having **CONSIDERABLE SHORTAGE**, **SOME SHORTAGE**, **SOME SURPLUS**, **CONSIDERABLE SURPLUS** of qualified applicants or **BALANCED** between applicants and positions.

- ✓ Overall, there was agreement between colleges/universities and school districts on about two-thirds of the fields, 39 of the 59 (66.1%).
- ✓ At least half of the fields were reported as having some level of shortage by both colleges/universities and school districts, 37 by colleges/universities and 43 by school districts. Twenty-five were identified as having some level of shortage by both groups.
- ✓ CONSIDERABLE SHORTAGE: Of the 59 fields listed, 9 were reported as having considerable shortage by colleges/universities while school districts noted considerable shortage in 19 fields. Eight of the fields that were identified by colleges/universities as having a considerable shortage were also identified by school districts. These fields were Bilingual Education/Multicultural, Physics, Chemistry, Math, Severe/Profound Disabilities Special Education, Learning Disability Special Education, Mild/Moderate Disabilities Special Education, and Visually Impaired Special Education.
- ✓ **SOME SHORTAGE:** Colleges/universities identified 28 fields as having some shortages while school districts identified 24 fields with some shortage. They were in agreement on 17 fields.
- ✓ **SOME SURPLUS:** Colleges/universities identified 3 fields as having some surplus and school districts identified the same 2 fields as having some surplus—Physical Education and Social Studies Education.
- ✓ **CONSIDERABLE SURPLUS:** No fields were reported as having considerable surplus by either colleges/universities or school districts.

Enrollment in degree-seeking programs was more likely to have decreased in traditional or M.Ed./MAT/5th year programs than in TESOL, alternative certificates/licensure or doctoral programs. At the same time, more than 1 in 10 teachers hired in the past year did not have traditional preparation. Reasons given for this were that there was a lack of traditional candidates applying, that districts must hire for difficult-to-fill positions in certain subject areas, and a national shortage of education majors.

On average, colleges/universities reported that 79% of their graduates find full-time teaching positions after graduation, while 15% find part-time positions. Last year colleges/universities reported that 76% of their graduates found full-time jobs in education while 15% secured part-time positions. Some of the difficulties identified in terms of qualified candidates finding teaching positions upon graduation included an unwillingness to relocate, limited job openings, and schools not considered for employment. In addition, it was noted that decreases in funding that school districts receive was a challenge by 80% of responding school districts, with 46% indicating it is a *Big* challenge. However, with the percentage of graduates finding full-time employment increasing by 3% since last year, candidates not finding employment are most likely unwilling or unable to relocate.

Both the national composite score (Table 2) and the breakdown of demand by geographic areas in the United States (Table 3) show the demand for educators in most certification fields and in most areas of the country is strong. Recruiters are faced with the challenge of finding qualified educators as the supply of new educators continues to decrease. The job market for new educators as well as veteran educators either relocating or re-entering the profession is favorable.



Is There Really a Shortage of Educators?

Commentary by John F. Snyder Slippery Rock University of Pennsylvania

The observations and opinions expressed are those of the author and do not necessarily reflect the view of AAEE.

So what does the 2016-17 AAEE Educator Supply and Demand Report tell us? What do all of these numbers communicate? And what are other researchers writing about the state of educator supply and demand?

While there are a few commentators who claim the shortage of educators doesn't exist or is overblown, my interpretation of the data from the respondents in the AAEE survey clearly show that the United States is experiencing a shortage of educators, and in many certification areas that shortage is critical.

While the national demand composite number (3.52 – Some Shortage, Table 2) must be viewed in the context of regional demands, that this measure continues to increase is one indication that the demand for educators is increasing. The regional data (Table 3) confirm the national composite number. In particular, the certification areas in math, science, special education, and foreign languages are dominated by cells shaded in red showing Some Shortage or a Considerable Shortage of educators.

The lack of green shaded cells in the regional chart (Table 3) also points to a demand for educators. Nationally (Table 2), not one of the 59 certification fields is in the Considerable Surplus category. Regionally, only social studies (1.67) is in the Considerable Surplus category in region 9, the Northeastern United States. Of the total of 590 regional cells in Table 3, only 34 cells are shaded in green indicating a surplus of educators. Twenty-three of those 34 cells are in social studies, physical education, and health education. For candidates in these areas, the job market remains competitive.

Other educator shortage areas to note are in the support services, particularly among audiology, occupational therapy, physical therapy, and speech pathology. Professionals in these fields have numerous career options in health care making it a challenge for school districts to attract these individuals to education.

Commentators who claim the shortage of educators is non-existent or overestimated often refer to the "reserve pool" of educators: individuals, trained as educators, who left the profession or never entered it. In an April 2014 report, *Seven Trends: The Transformation of the Teaching Force,* written by Richard Ingersoll, Lisa Merrill, and Daniel Stuckey (published by the Consortium for Policy Research in Education), the authors often refer to a "ballooning" in the number of teachers between 1987 and 2012. When this report was written in 2014, the authors claimed that even the supply of math and science teachers had kept pace with the demand for these individuals.

AAEE data in the 2014-15 *Educator Supply and Demand Report* showed all math and science fields in the Some Shortage to Considerable Shortage categories, and AAEE current data in Table 3 show the demand for these educators has only increased since then. In the AAEE regional breakdown, every region reported *all* math and science certification areas in the Some Shortage or the Considerable Shortage categories.

One misconception when considering the reserve pool of educators is assuming that individuals majoring in education want to teach. A comprehensive report, A Coming Crisis in Teaching? Teacher Supply, Demand, and Shortages in the U.S., written by Leib Sutcher, Linda Darling-Hammond, and Desiree Carver-Thomas (published by the Learning Policy Institute), addresses two significant factors affecting the demand for and the supply of educators: an 8% annual attrition rate of teachers which contributes to a demand for new hires and a 35% reduction of graduates from colleges of education between 2009 and 2014 (691,000 to 451,000) decreasing the supply of new educators.



On the topic of attrition, the authors write, "The teaching workforce continues to be a leaky bucket, losing hundreds of thousands of teachers each year – the majority of them before retirement age. Changing attrition would change the projected shortages more than any other factor." The authors also comment on the reserve pool of teachers who have left the profession citing that only a third of these teachers ever come back to the classroom.

In other words, each year school districts count on newly trained educators to fill vacancies because there is no evidence to support an assumption that all credentialed educators want to teach; however, each year since 2009, there have been fewer individuals graduating from colleges of education. In this report, Table 6 shows that 41% of the college/university respondents indicated that enrollment in their traditional educator preparation program decreased compared to last year. Only 19% indicated an increase in enrollment. Last year 41% indicated decreased enrollment in traditional educator preparation programs with only 12% indicating an increase (Appendix, page 29).

Table 14 in this report shows that 12% of the new hires, reported by school district respondents, came from non-traditional preparation programs while 3% were emergency hires (most likely lacking any type of preparation to be a teacher). That's 15% of new teachers not coming from traditional preparation programs. Should this trend continue, school districts will have to find creative ways to staff their vacancies with individuals who possess the skills to be effective educators. Urban districts reported that 14% of their new hires were from non-traditional preparation with 3% emergency hires. Perhaps even more concerning is that the respondents from rural districts indicated that 12% of their new hires were from non-traditional preparation programs while 6% were emergency hires. The number one reason districts cited for hiring teachers without traditional preparation was, "Lack of traditional candidates who apply." The second reason was, "Must hire for difficult-to-fill positions in certain subject areas." The data in this report suggest those difficult-to-fill subject areas are math, science, special education, and foreign languages (Table 5).

The concern with hiring candidates from non-traditional preparation programs is the increased chance of these candidates leaving education prematurely. Sutcher, Darling-Hammond, and Carver-Thomas refer to this dynamic by writing, "If teachers are hired without having been fully prepared, the much higher turnover rates that result are costly in terms of both dollars spent on the replacement process and decreases in student achievement in high-turnover schools." Later in their report, the authors cite two studies relating to this issue. One study found that underprepared educators were twice as likely to leave education than their colleagues who completed a thorough program that included student teaching, specific pedagogy coursework, and feedback from education professionals. The other study cited found that 30% of uncertified educators leave teaching within five years compared to 15% of those with a teaching credential.

While this AAEE report does not address why college students have been reluctant to choose education as a major and why so many educators leave the profession well before retirement age and do not return, a number of studies cite low salary as a major reason for not attracting or keeping talented educators in the classroom. Again citing Sutcher, Darling-Hammond, and Carver-Thomas, "Great inequalities in salaries across districts typically cause shortages in those that are not able to offer a competitive wage." Not only are school districts competing for talented employees with other occupations that may offer higher wages, districts compete among themselves as teachers may start at one district but move to another higher-paying district in just a few years. And most of the time, higher paying districts also offer better benefits and working conditions.

A 2014 publication from WalletHub, written by Richie Bernardo, noted that "teachers are shortchanged with salaries that fail to keep up with inflation." Bernardo cites the National Center for Education Statistics showing that about a fifth of new teachers leave the profession after one year and almost half leave before five years. Perhaps some of these educators return, but not enough to stem the shortage of educators.

In a 2015 survey of school districts, Frontline Technologies discovered similar findings to the AAEE *Supply and Demand Report*. The Frontline Technologies report concluded that the shortage of educators is influenced by a lack of qualified applicants in specific certifications (special education, for example), a lack of schools of education in the districts' geographic region (in other words, a lack of newly trained teachers being available to fill vacancies), and a lack of decent salaries and benefits compared to other careers.



Data from Lawrence Mishel, president of the Economic Policy Institute, and labor economist Sylvia Allegretto, chair of the Center on Wage and Employment Dynamics at the Institute for Research on Labor and Employment at the University of California, Berkeley, show that the gap between educators' wages and that of comparable professionals is at an all-time high. In the early 1990's, the wage gap was less than -2%; in 2015 the wage gap was -17% Even with all benefits included (paid leave, insurance, retirement), the total compensation gap between teachers and other similar professionals was -11.1% The authors link the low salaries with the issue of recruitment and retention of teachers.

A common sense factor leading to fewer individuals choosing to pursue teaching is the scapegoating of teachers by politicians and policy makers, in particular since 2010. Teaching has always been a profession subject to a high degree of public criticism. However, the public disrespect for the education profession has increased dramatically in recent years. When teachers were somehow linked as one of the causes of the Great Recession and teacher unions were blamed for "unreasonably high" salaries and "lavish" pensions, many politicians not only publicly denounced teachers, but took steps at the state or local level to lower salaries, decrease benefits, and reduce employment protections of educators. It is reasonable to assume that future college students and their parents steered away from teaching as a career choice in response to the political criticism directed at the profession of education, and in particular, public education. (As of this writing, there is no indication that the political attitude at the national level will become more respectful to public education.)

However, there is some progress being made on the state level to acknowledge and respond to teacher shortages. An April 26, 2017 blog written by Tara Kini on the Learning Policy Institute website is the first installment of the series, *Solving Teacher Shortages*. Citing LPI research indicating the 35% decline in education graduates since 2009 and the estimated shortage of 60,000 teachers in 2015-16, Tini then highlights state efforts in Indiana, Illinois, Nevada, Minnesota, Texas, California, Utah, Oklahoma, Washington, and South Dakota to address the teacher shortage. The author writes, "States are responding to shortages with a range of legislative and budget proposals. At a time when Democrats and Republicans are divided on many issues, it's particularly noteworthy that efforts to address teacher shortages have been largely bipartisan affairs, with similar bills introduced by both Democratic and Republican governors and legislators. Many are turning the crisis into an opportunity to build a sustainable, high-quality, and more diverse teacher workforce." But these efforts are going to take time to provide a renewed supply of educators; for the foreseeable future, administrators are going to be challenged to hire enough qualified professionals to staff their schools.

The current shortage is significantly different from shortages in the past. Past educator shortages were contained to specific states: for example North Carolina, South Carolina, Florida, Texas, Arizona, and California. Teacher shortages in the Midwest? Not likely. Now, the state not experiencing a shortage of educators is an exception. But even in these states with a surplus of educators, such as Pennsylvania, there is an urgent need for substitute teachers. For example, Pennsylvania now allows education students who have not yet earned their bachelor's degree or certification to be eligible for emergency permits to serve as substitute teachers. The state would not have taken this action if there were not a serious shortage of substitute teachers.

The bottom line of the 2016-17 AAEE Educator Supply and Demand Report is that the shortage of educators is real and the challenge of administrators in public and private education, in traditional and cyber education, and in alternative education settings to staff their institutions is real. However, for candidates, these challenges provide numerous options for finding employment in education.

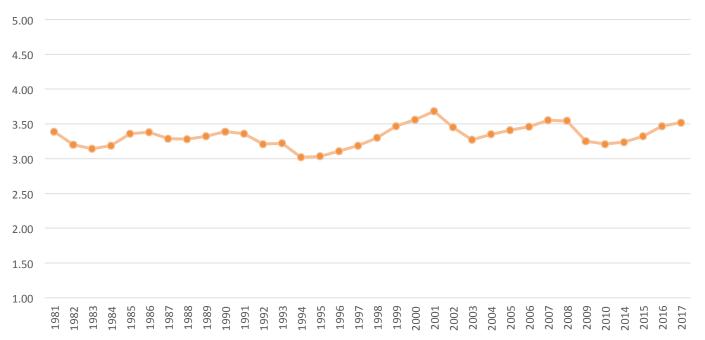


The National Picture

Table 2: The National Composite Score for Educator Demand Across All Certifications

For the fourth year in a row (accounting for the lack of data for 2011-2013), the national demand for educators has increased reflecting a continuing shortage of educators throughout the United States. The national composite score of 3.52 is the highest since the 3.54 score in 2008, right before the Great Recession. The current composite score is the fifth highest since 1981 when the national composite score was first computed.





Demand
3.39
3.20
3.14
3.19
3.36
3.38
3.29
3.28
3.32
3.39
3.36
3.21
3.22
3.02
3.03
3.11
3.19

Year	Perceived
Teal	Demand
1998	3.30
1999	3.47
2000	3.56
2001	3.68
2002	3.45
2003	3.27
2004	3.35
2005	3.41
2006	3.46
2007	3.55
2008	3.54
2009	3.25
2010	3.21
2014	3.24
2015	3.32
2016	3.47
2017	3.52



Perceived Supply and Demand by Region

Table 3, a combination of responses from college/university and school district representatives, confirms the regional demand for educators has remained strong in most areas of the country and in most certification areas. Table 4 shows the number of college/university and school district respondents by each region. Region 11, Hawaii, is not included as no representative responded to the survey. Most notable are the blocks shaded in red, with the darker red indicating a considerable shortage of educators. Candidates in math, science, and all special education areas are in high demand. Candidates in languages also are in demand. Professionals in support positions will find a favorable job market. Candidates in physical education, social studies and health education face the most challenge in finding employment.

Table 3: Educator Demand by Region and Certification

Considerable shortage (3.41-4.20) Some shortage (2.61-3.40) Some surplus (1.81-2.60) Considerable surplus (1.00-1.80)

			1	2	3	4	5	6	7	8	9	10	Total
		Agriculture Education	3.75	3.96	4.33	4.13	4.00	3.65	4.45	3.67	5.00	3.00	3.93
		Art/Visual Education	3.20	3.47	3.00	3.00	3.21	3.02	2.97	2.95	3.00	2.33	3.10
		Bilingual Education/Multicultural	4.40	3.96	4.71	4.29	4.75	4.27	4.50	4.53	4.33	2.67	4.33
		Business Education	3.36	3.54	3.43	3.17	3.18	2.98	3.56	3.23	3.50	3.00	3.27
		Computer Science Education	3.73	4.18	3.67	3.41	3.82	3.58	3.81	3.79	4.00	3.00	3.80
<u> </u>	2	Dance Education	3.40	3.53	2.75	3.00	2.73	2.72	3.17	3.60	5.00	2.00	3.16
Educational Fields		English/Language Arts Education	3.28	3.44	3.29	3.08	3.74	3.38	2.98	2.69	2.50	3.25	3.16
H		Family and Consumer Science	3.64	3.82	3.62	3.95	3.60	3.59	4.32	3.89	5.00	2.50	3.80
Ë		Health Education	2.57	3.26	2.69	2.74	2.59	2.38	2.93	2.86	2.00	3.00	2.78
ite	,	Journalism Education	3.00	3.44	3.00	3.37	3.00	3.00	3.60	3.17	5.00	3.00	3.25
=	Š	Music Education	3.38	3.64	2.94	3.23	3.26	2.81	2.88	2.80	3.00	3.25	3.08
ш.	ı	Physical Education	2.38	2.79	2.06	2.38	2.26	2.33	2.54	2.35	2.33	2.33	2.44
		Reading Specialist/Interventionist	3.40	3.62	3.40	3.70	3.44	3.87	3.45	3.45	4.00	3.67	3.59
		Social Studies Education	2.31	2.59	2.18	2.29	2.96	2.57	2.29	2.05	1.67	2.75	2.38
		Speech Education	4.10	4.33	3.73	3.75	3.25	4.37	4.04	4.30	5.00	3.50	4.13
		Technology Education	3.67	4.00	3.43	3.72	3.69	3.92	3.94	4.07	5.00	3.00	3.90
		Theatre/Drama Education	3.08	3.55	3.07	3.41	3.16	3.12	3.06	3.19	3.67	4.00	3.26
		Chinese	4.33	4.52	4.50	4.40	3.91	4.04	4.58	4.50	4.00		4.33
		Classical (Greek, Latin)	3.80	4.33	4.83	4.38	4.10	4.21	3.53	4.00	4.00		4.12
ď	3	ESL/ELL (English Language Learner)	4.08	3.75	4.44	4.10	4.21	4.21	4.29	4.21	4.50	3.50	4.12
angilages	Ş	French	3.08	3.97	3.92	3.77	3.89	3.63	3.54	3.51	3.50	4.00	3.66
6	٥	German	3.50	3.89	4.00	3.70	3.92	3.84	3.61	3.56	3.50		3.74
-	ì	Japanese	3.67	4.25	4.75	4.00	4.13	4.18	3.44	4.42	4.00		4.11
		Spanish	3.59	3.71	4.24	3.97	4.15	4.00	4.10	3.85	3.75	3.00	3.92
		Other Languages	4.00	4.12	3.80	3.88	3.90	4.04	3.44	4.29	3.67	3.00	3.99
		Math	4.25	4.57	4.81	4.17	4.52	4.80	4.15	4.22	4.00	4.50	4.42
	, c	Biology	3.74	4.22	4.12	3.94	4.07	4.24	3.85	4.00	3.50	4.50	4.05
8 4	atic	Chemistry	4.16	4.44	4.53	4.35	4.44	4.58	4.21	4.47	4.00	4.75	4.42
Math &	Education	Earth/Physical	3.95	4.40	4.07	3.80	4.13	4.34	3.76	3.98	4.50	4.00	4.10
	, E	General Math and Science	4.06	4.43	4.47	3.93	4.25	4.36	3.82	3.97	4.33	4.25	4.17
		Physics	4.21	4.57	4.65	4.23	4.58	4.62	4.49	4.61	4.00	4.75	4.53



Considerable shortage (4.21 – 5.00)

Some shortage (3.41 - 4.20)

Balanced (2.61 – 3.40)

Some surplus (1.81 – 2.60) Considerable surplus (1.00 – 1.80)

		1	2	3	4	5	6	7	8	9	10	Total
	Audiology	4.36	4.35	4.45	4.27	4.10	4.10	4.20	3.77	5.00	4.50	4.19
	Counseling	3.88	3.40	3.50	3.61	3.56	3.20	2.97	2.72	2.40	3.50	3.24
	Gifted/Talented Education	3.62	3.53	3.69	3.50	3.79	3.54	3.59	3.18	4.00	3.33	3.51
<u>jë</u>	Library Science/Media Technology	3.18	3.75	3.15	3.75	3.65	3.80	3.22	3.59	4.50	4.00	3.62
ervi	Occupational Therapy	4.45	4.07	4.50	4.14	3.86	3.90	4.05	4.13	3.50	4.33	4.08
Support Services	Physical Therapy	4.42	4.00	4.50	4.17	3.76	3.90	4.00	4.03	3.00	4.33	4.03
por	Reading Diagnostician	3.67	4.00	3.67	3.63	4.00	3.69	3.38	3.81	4.50	3.67	3.80
dng	School Nursing	4.22	4.28	3.93	3.63	4.00	3.75	4.04	4.05	3.00	5.00	4.01
0,	School Psychology	4.44	4.09	4.14	4.13	4.00	3.85	3.90	3.72	3.00	4.00	3.96
	School Social Work	3.29	3.83	4.15	3.43	3.27	3.34	3.43	3.08	3.50		3.45
	Speech Pathology	4.54	4.55	4.69	4.29	4.06	4.29	4.28	4.13	5.00	4.33	4.34
- 0	Pre-K Education	3.42	3.67	3.75	3.48	2.91	3.32	3.00	2.51	3.00	4.67	3.19
Elem./ Middle	Kindergarten/Primary Education	3.39	3.63	2.58	2.78	2.85	3.18	2.63	2.04	2.00	3.00	2.85
Ele Mic	Intermediate Education	3.38	3.79	2.82	2.64	3.22	3.43	2.81	2.56	2.50	3.25	3.12
	Middle School Education	3.72	3.93	3.64	3.35	3.54	3.90	3.21	3.17	3.00	3.50	3.55
خ ا	Elementary Principal	3.31	3.24	3.53	3.23	3.30	3.04	3.38	3.13	4.50	2.67	3.22
Adm.	Middle School Principal	3.31	3.35	3.80	3.35	3.50	3.24	3.57	3.31	5.00	3.33	3.39
٩	High School Principal	3.31	3.45	3.93	3.45	3.61	3.39	3.80	3.52	5.00	3.33	3.53
	Multicategorical Special Education	4.64	4.40	4.50	4.55	4.43	4.60	4.31	4.29	4.25	5.00	4.45
	Dual Cert (General & Special Ed.)	4.33	4.52	4.56	4.21	4.55	4.43	4.10	3.87	4.33	4.33	4.27
o	Early Childhood Special Education	4.57	4.29	4.80	4.38	4.18	4.48	4.23	3.62	4.67	4.67	4.23
ati	Emotion/Behavioral Disorders Sp. Ed.	4.62	4.58	4.86	4.65	4.57	4.59	4.50	4.25	4.67	4.67	4.55
) np	Hearing Impaired Special Education	4.79	4.43	4.62	4.75	4.53	4.66	4.29	4.47	5.00	4.33	4.54
a E	Learning Disability Special Education	4.54	4.38	4.46	4.40	4.27	4.50	4.12	3.94	4.33	4.00	4.31
Special Education	Cognitive Disabilities Special Ed.	4.69	4.38	4.62	4.44	4.33	4.56	4.13	4.09	5.00	4.00	4.38
Sp	Mild/Moderate Disabilities Sp. Ed.	4.62	4.37	4.38	4.33	4.38	4.46	4.20	4.03	4.25	4.00	4.32
	Severe/Profound Disabilities Sp. Ed.	4.71	4.58	4.71	4.78	4.63	4.73	4.43	4.41	4.67	4.67	4.61
	Visually Impaired Special Education	4.93	4.41	4.67	4.73	4.58	4.73	4.60	4.41	4.67	4.33	4.59

Table 4: Respondents by Region

Code	Region	Colleges/ Universities	School Districts
1	Northwest	8	14
2	West	11	59
3	Rocky Mountain	7	12
4	Great Plains/Midwest	26	13
5	South Central	18	13
6	Southeast	29	48
7	Great Lakes	35	22
8	Middle Atlantic	50	44
9	Northeast	5	2
10	Alaska	1	3



17

COLLEGES AND UNIVERSITIES	SCHOOL DISTRICTS				
FIELDS WITH CONSIDERABLE SHORTAGE (5.00 – 4.21)		FIELDS WITH CONSIDERABLE SHORTAGE (5.00 – 4.21	•		
Severe/Profound Disabilities Special Ed.	4.64	Severe/Profound Disabilities Special Ed.	4.61		
Bilingual Education/Multicultural	4.47	Hearing Impaired Special Education	4.60		
Physics Chemistry	4.41 4.36	Visually Impaired Special Education Physics	4.60 4.59		
Learning Disability Special Education	4.36	Emotion/Behavioral Disorders Special Ed.	4.58		
Math	4.33	Multicategorical Special Education	4.52		
ESL/ELL (English Language Learner)	4.27	Chinese	4.49		
Mild/Moderate Disabilities Special Ed.	4.24	Classical (Greek, Latin)	4.49		
Visually Impaired Special Education	4.22	Math	4.49		
		Chemistry	4.47		
FIELDS WITH SOME SHORTAGE (4.20 – 3.41)		Speech Pathology	4.44		
Multicategorical Special Education	4.15	Cognitive Disabilities Special Education	4.41		
Reading Diagnostician	4.10	Japanese	4.37		
Audiology	4.08	Mild/Moderate Disabilities Special Ed.	4.35		
Emotion/Behavioral Disorders Special Ed.	4.07	Dual Cert (General & Special Education)	4.34		
Dual Cert (General & Special Education)	4.06	Early Childhood Special Education	4.33		
Technology Education	4.04	Bilingual Education/Multicultural	4.31		
General Math and Science	4.00	Learning Disability Special Education	4.31		
Biology Cognitive Disabilities Special Education	3.94 3.93	General Math and Science	4.25		
Cognitive Disabilities Special Education Earth/Physical	3.93	FIELDS WITH SOME SHORTAGE (4.20 – 3.41)			
Early Childhood Special Education	3.92	Speech Education	4.20		
Computer Science Education	3.88	Audiology	4.20		
Speech Pathology	3.88	Earth/Physical	4.18		
Agriculture Education	3.85	Biology	4.14		
Family and Consumer Science	3.84	Occupational Therapy	4.11		
Spanish	3.79	Other Languages	4.10		
Chinese	3.73	Physical Therapy	4.09		
Gifted/Talented Education	3.73	ESL/ELL (English Language Learner)	4.07		
Hearing Impaired Special Education	3.73	School Nursing	4.07		
Speech Education	3.72	German	4.06		
Occupational Therapy	3.64	School Psychology	4.04		
School Nursing	3.61	French	4.01		
Reading Specialist/Interventionist	3.58	Spanish	4.01		
School Psychology	3.55	Agriculture Education	3.95		
Middle School Principal	3.55	Technology Education	3.87		
Physical Therapy	3.53	Computer Science Education	3.80		
High School Principal	3.52	Family and Consumer Science	3.80		
Elementary Principal	3.45	Reading Diagnostician Middle School Education	3.78 3.67		
BALANCED FIELDS (3.40 – 2.61)		Library Science/Media Technology	3.66		
Other Languages	3.38	Reading Specialist/Interventionist	3.60		
Middle School Education	3.36	High School Principal	3.54		
Library Science/Media Technology	3.33	School Social Work	3.52		
Journalism Education	3.25	Gifted/Talented Education	3.49		
German	3.25	,			
Counseling	3.18	BALANCED FIELDS (3.40 – 2.61)			
Japanese	3.11	Business Education	3.35		
French	3.06	Middle School Principal	3.35		
Pre-K Education	3.04	Theatre/Drama Education	3.34		
English/Language Arts Education	3.02	Pre-K Education	3.28		
Intermediate Education	2.99	English/Language Arts Education	3.26		
Business Education	2.98	Counseling	3.26		
Theatre/Drama Education	2.98	Journalism Education	3.25		
School Social Work	2.95	Music Education	3.24		
Art/Visual Education	2.86	Dance Education	3.23		
Health Education	2.81	Art/Visual Education	3.21		
Music Education	2.81	Intermediate Education	3.18		
Classical (Greek, Latin)	2.80	Elementary Principal	3.16		
Dance Education Kindergarten/Primary Education	2.78 2.75	Kindergarten/Primary Education Health Education	2.92 2.77		
Mindergalten/Frimary Education	2./5	ricaltii Euucatioii	2.11		
FIELDS WITH SOME SURPLUS (2.60 – 1.81)		FIELDS WITH SOME SURPLUS (2.60 – 1.81)			
Physical Education	2.51	Physical Education	2.44		
Social Studies Education	2.51	Social Studies Education	2.44		

None

FIELDS WITH CONSIDERABLE SURPLUS (1.80 – 1.00)

*Reported as means: 5=Considerable shortage; 1=Considerable surplus

FIELDS WITH CONSIDERABLE SURPLUS (1.80 – 1.00)
None



Table 5: Comparison of Colleges and Districts: 2016-2017 (continued)

Considerable shortage (4.21 – 5.00)

Some shortage (3.41 – 4.20)

Balanced (2.61 – 3.40)

Some surplus (1.81 – 2.60)

Considerable surplus (1.00 – 1.80)

		Colleges and Universities	School Districts
	Bilingual Education/Multicultural	4.47	4.31
	Technology Education	4.04	3.87
	Computer Science Education	3.88	3.80
	Agriculture Education	3.85	3.95
	Family and Consumer Science	3.84	3.80
S	Speech Education	3.72	4.20
Educational Fields	Reading Specialist/Interventionist	3.58	3.60
<u> </u>	Journalism Education	3.25	3.25
ons	English/Language Arts Education	3.02	3.26
ati	Business Education	2.98	3.35
ğ	Theatre/Drama Education	2.98	3.34
Й	Art/Visual Education	2.86	3.21
	Health Education	2.81	2.77
	Music Education	2.81	3.24
	Dance Education	2.78	3.23
	Physical Education	2.51	2.44
	Social Studies Education	2.51	2.29
	ESL/ELL (English Language Learner)	4.27	4.07
	Spanish	3.79	4.01
es	Chinese	3.73	4.49
Languages	Other Languages	3.38	4.10
ngu	German	3.25	4.06
E	Japanese	3.11	4.37
	French	3.06	4.01
	Classical (Greek, Latin)	2.80	4.49
	Physics	4.41	4.59
-	Chemistry	4.36	4.47
Math & Science Education	Math	4.33	4.49
/lat icie	General Math and Science	4.00	4.25
E 6.5	Biology	3.94	4.14
	Earth/Physical	3.92	4.18



Considerable shortage (4.21 – 5.00)

Some shortage (3.41 - 4.20)

Balanced (2.61 – 3.40)

Some surplus (1.81 – 2.60) Considerable surplus (1.00 – 1.80)

		Colleges and Universities	School Districts
	Reading Diagnostician	4.10	3.78
	Audiology	4.08	4.20
S	Speech Pathology	3.88	4.44
Support Services	Gifted/Talented Education	3.73	3.49
er	Occupational Therapy	3.64	4.11
ıt S	School Nursing	3.61	4.07
ō	School Psychology	3.55	4.04
dng	Physical Therapy	3.53	4.09
•,	Library Science/Media Technology	3.33	3.66
	Counseling	3.18	3.26
	School Social Work	2.95	3.52
. 41	Middle School Education	3.36	3.67
m./	Pre-K Education	3.04	3.28
Elem./ Middle	Intermediate Education	2.99	3.18
_	Kindergarten/Primary Education	2.75	2.92
<u>.</u>	Middle School Principal	3.55	3.35
Adm.	High School Principal	3.52	3.54
⋖	Elementary Principal	3.45	3.16
	Severe/Profound Disabilities Special Ed.	4.64	4.61
	Learning Disability Special Education	4.36	4.31
o	Mild/Moderate Disabilities Special Ed.	4.24	4.35
ati	Visually Impaired Special Education	4.22	4.60
ρηρ	Multicategorical Special Education	4.15	4.52
<u> </u>	Emotion/Behavioral Disorders Special Ed.	4.07	4.58
Special Education	Dual Cert (General & Special Education)	4.06	4.34
Sp	Cognitive Disabilities Special Education	3.93	4.41
	Early Childhood Special Education	3.92	4.33
	Hearing Impaired Special Education	3.73	4.60

	Colleges	Districts	Agreement	
Considerable Shortage	9	19	8	
Some Shortage	28	24	17	66% Agreement
Balanced	20	14	12	between groups
Some Surplus	2	2	2	
Considerable Surplus	0	0	-	

	Colleges/ Universities	School Districts
Decrease in school district funding	1.53	2.18
Candidates for open positions	1.27	2.58

Reported as means: 3=Big challenge; 2=Moderate challenge; 1=Small challenge; 0=Not a challenge



Colleges and Universities

Table 6: Education Enrollment

- ✓ On average, colleges/universities have over 700 degree-seeking candidates enrolled at their institutions.
- ✓ Approximately 17% of those, or an average of 121 per institution, are participating in student teaching programs.
- ✓ Enrollment in TESOL and Alternative certifications/licenses was less likely to have decreased than enrollment in traditional programs and M.Ed./MAT/5th year.

ENROLLMENT	
Education Degree-seeking Candidates currently enrolled	717
Students participating in student teaching programs	121
% that are participating in student teaching programs	17%

	Increased	Stayed the same	Decreased	Not offered	
Traditional	18.7%	31.6%	41.2%	8.6%	
M.Ed./MAT/5 th year added to baccalaureate 18.6% 19.1% 16.9%					
TESOL	12.0%	26.6%	8.2%	53.3%	
Alternative certifications/licensures	12.0%	23.0%	8.7%	56.3%	
Doctorates	8.4%	19.7%	4.5%	67.4%	
Has enrollment for each degree program increased, remained about the same, or decreased in the past year?					

Table 7: Candidate Success in Finding Employment

÷		
	CANADIATE SUCCESS IN FINDING POSITIONS	
	Full-time	79%
	Part-time Part-time	15%
	Approximately, what percentage of your graduates find FULL-TIME/ PART-TIME teaching positions after grad	uation?

CHALLENGES IN FINDING TEACHING POSITIONS	Big challenge	Moderate challenge	Small challenge	Not a challenge	Mean*	
Decreases in funding school districts receive	22.2%	30.1%	26.1%	21.6%	1.53	
Districts not hiring or replacing vacancies	12.3%	33.0%	25.1%	29.6%	1.28	
Too many candidates for open positions	13.0%	29.4%	29.4%	28.2%	1.27	
Candidates not earning multiple credentials	3.4%	25.4%	37.9%	33.3%	0.99	
Indicate if it has been a hig moderate small or not a shallonge for qualified condidates are dusting from your institution						

Indicate if it has been a big, moderate, small or not a challenge for qualified candidates graduating from your institution to find teaching positions. *Mean: 3=Big challenge; 2=Moderate challenge; 1=Small challenge; 0=Not a challenge

OTHER REASONS FOR DIFFICULTY	N	% of Responses		
Unwillingness to relocate	41	35.0%		
State funding/Legislative actions/Teacher Licensure	18	15.4%		
Limited job openings	17	14.5%		
School not considered for employment (rural/urban/low salary/charter)	17	14.5%		
Disillusioned with profession after graduation	6	5.1%		
Delayed retirements of current teachers	5	4.3%		
Lack job searching skills	3	2.6%		
Prospective teachers DO get hired upon graduation	3	2.6%		
Candidates pursue non-teaching opportunities/grad school	2	1.7%		
Declining school age population	2	1.7%		
MISCELLANEOUS	3	2.6%		
What other reasons have made it difficult for qualified candidates from your institution to find teaching positions?				



Table 8: Candidates Relocating to Other States

CANDIDATES LEAVING STATE TO FIND FULL-TIME EMPLOYMENT		
2016-17 Academic Year	20.1%	
Approximately what percentage of your education graduates left your state to find full-time employment for the		
academic year?		

WHERE EDUCATORS ARE GOING	N	% of Respondents
North Carolina	47	24.6%
Virginia	41	21.5%
Colorado	40	20.9%
Maryland	40	20.9%
Florida	39	20.4%
Arizona	36	18.8%
Texas	34	17.8%
California	28	14.7%
New York	28	14.7%
Illinois	26	13.6%
New Jersey	26	13.6%
Pennsylvania	26	13.6%
District of Columbia	21	11.0%
Georgia	20	10.5%
Indiana	19	9.9%
South Carolina	19	9.9%
Nevada	17	8.9%
Washington	17	8.9%
	16	8.4%
lowa	16	8.4%
Kansas	•	
Ohio	16	8.4%
Alaska	15	7.9%
Massachusetts	14	7.3%
Tennessee	14	7.3%
Michigan	13	6.8%
Minnesota	13	6.8%
Delaware	12	6.3%
Kentucky	12	6.3%
Louisiana	11	5.8%
Wisconsin	11	5.8%
Alabama	10	5.2%
Connecticut	10	5.2%
Oregon	10	5.2%
Missouri	9	4.7%
Oklahoma	9	4.7%
Hawaii	8	4.2%
Nebraska	8	4.2%
New Hampshire	8	4.2%
New Mexico	8	4.2%
West Virginia	7	3.7%
Wyoming	7	3.7%
Idaho	6	3.1%
Arkansas	5	2.6%
North Dakota	5	2.6%
Montana	3	1.6%
Utah	3	1.6%
Rhode Island	2	1.0%
South Dakota	2	1.0%
Maine	1	0.5%
Mississippi	1	0.5%
Vermont	1	0.5%
If some of your graduates leave your state for employment, wh		0.570



Supply and Demand

Table 9: Programs Offered

- ✓ Over three-quarters (75% or more) of institutions offer degree programs in *Math, Biology, Social Studies, English, Kindergarten/Primary, and Chemistry*.
- ✓ Over half offer programs in Music Education, Spanish, Physics, Middle School Education, and Pre-K Education.
- ✓ Very few institutions (20% or fewer) offer programs listed in red below.
- ✓ The programs offered least often (less than 10%) were Dance Education, Other Languages, Gifted/Talented Education, Occupational Therapy, Audiology, Reading Diagnostician, Cognitive Disabilities Special Education, Emotion/Behavioral Disorders Special Education, Hearing Impaired Special Education, and Visually Impaired Special Education.

Social Studies Education 81			
Music Education 47 Physical Education 46 Reading Specialist/Interventionist 38 Health Education 25 Theatre/Drama Education 24 Business Education 22 Billingual Education/Multicultural 19 Speech Education 14 Computer Science Education 14 Family and Consumer Science 14 Journalism Education 9 Spanish 71 French 47 German 39 ESL/ELL (English Language Learner) 39 Classical (Greek, Latin) 14 Chinese 14 Japanese 02 Other Languages 9 Math 89 Biology 88 Chemistry 75 Physics 65 Earth/Physical 50		Social Studies Education	83
Art/Visual Education 47 Physical Education 46 Reading Specialist/Interventionist 38 Health Education 25 Technology Education 24 Business Education 22 Bilingual Education/Multicultural 19 Speech Education 14 Computer Science Education 14 Family and Consumer Science 14 Journalism Education 11 Dance Education 9 Spanish 71 French 47 German 39 ESL/ELL (English Language Learner) 39 Classical (Greek, Latin) 14 Chinese 14 Japanese 12 Other Languages 9 Math 89 Biology 88 Chemistry 75 Physics 65 Earth/Physical 50		English/Language Arts Education	81
Physical Education Reading Specialist/Interventionist Health Education Technology Education Theatre/Drama Education Business Education Bilingual Education/Multicultural Speech Education Agriculture Education Computer Science Education Family and Consumer Science Journalism Education Dance Education Spanish French German ESL/ELL (English Language Learner) Classical (Greek, Latin) Chinese Japanese Other Languages Math Biology Chemistry Physics Earth/Physical Farth/Physical Farth/Physical Farth/Physical Farth/Physical Farth/Physical Farth/Physical Factor Fact		Music Education	62
Reading Specialist/Interventionist Health Education Technology Education Theatre/Drama Education Business Education Bilingual Education/Multicultural Speech Education Agriculture Education Computer Science Education Family and Consumer Science Journalism Education Dance Education Spanish French German ESL/ELL (English Language Learner) Classical (Greek, Latin) Chinese Japanese Other Languages Math Biology Chemistry Physics Earth/Physical Spanish Biology Chemistry Physics Earth/Physical Spanish Biology Chemistry Physics Earth/Physical Spanish Biology Chemistry Physics Earth/Physical		Art/Visual Education	47
Health Education Technology Education Theatre/Drama Education Business Education Business Education Bilingual Education/Multicultural Speech Education Agriculture Education Computer Science Education Family and Consumer Science Journalism Education Dance Education Spanish French German Spanish French German BSL/ELL (English Language Learner) Classical (Greek, Latin) Chinese Japanese Other Languages Math Biology Chemistry Physics Earth/Physical Fattle (English Language Learner) Fother Languages		Physical Education	46
Speech Education Agriculture Education Computer Science Education Family and Consumer Science Journalism Education Dance Education Spanish French German ESL/ELL (English Language Learner) Classical (Greek, Latin) Chinese Japanese Other Languages Math Biology Chemistry Physics Earth/Physical Speech Education 14 Agriculture Education 14 Family and Consumer Science 14 Journalism Education 9 Spanish 71 French 47 German 39 Classical (Greek, Latin) 14 Biology Chemistry Physics Earth/Physical 50	v	Reading Specialist/Interventionist	38
Speech Education	eld	Health Education	32
Speech Education Agriculture Education Computer Science Education Family and Consumer Science Journalism Education Dance Education Spanish French German ESL/ELL (English Language Learner) Classical (Greek, Latin) Chinese Japanese Other Languages Math Biology Chemistry Physics Earth/Physical Speech Education 14 Agriculture Education 14 Family and Consumer Science 14 Journalism Education 9 Spanish 71 French 47 German 39 Classical (Greek, Latin) 14 Biology Chemistry Physics Earth/Physical 50	豆	Technology Education	25
Speech Education	ona	Theatre/Drama Education	24
Speech Education	ati	Business Education	22
Speech Education Agriculture Education Computer Science Education Family and Consumer Science Journalism Education Dance Education Spanish French German ESL/ELL (English Language Learner) Classical (Greek, Latin) Chinese Japanese Other Languages Math Biology Chemistry Physics Earth/Physical Speech Education 14 Agriculture Education 14 Family and Consumer Science 14 Journalism Education 9 Spanish 71 French 47 German 39 Classical (Greek, Latin) 14 Biology Chemistry Physics Earth/Physical 50	onp	Bilingual Education/Multicultural	19
Computer Science Education 14	ш	Speech Education	18
Family and Consumer Science 14 Journalism Education 9 Dance Education 9 Spanish 71 French 47 German 39 ESL/ELL (English Language Learner) 14 Chinese 14 Japanese 12 Other Languages 9 Math 89 Biology 88 Chemistry 75 Physics 65 Earth/Physical 50		Agriculture Education	14
Journalism Education		Computer Science Education	14
Dance Education 9		Family and Consumer Science	14
Spanish 71		Journalism Education	11
French 47		Dance Education	9
German 39		Spanish	71
ESL/ELL (English Language Learner) 39		French	47
Japanese	Se	German	39
Japanese	lage	ESL/ELL (English Language Learner)	39
Japanese	ngr	Classical (Greek, Latin)	14
Other Languages 9 Math 89 Biology 88 Chemistry 75 Physics 65 Earth/Physical 50	La	Chinese	14
Math 89		Japanese	12
Biology Chemistry Physics Earth/Physical Biology Chemistry 75 Physics Earth/Physical 50		Other Languages	9
Biology 88 Chemistry 75 Physics 65 Earth/Physical 50	Ð	Math	89
Chemistry 75 Physics 65 Earth/Physical 50	Scienc	Biology	88
Physics 65 Earth/Physical 50		Chemistry	75
Earth/Physical 50	8 <u>n</u>	Physics	65
>	lath Ed	Earth/Physical	50
General Math and Science 48	Σ	General Math and Science	48

	Counseling	40
	Speech Pathology	23
Support Services	School Psychology	22
	School Nursing	16
er	School Social Work	13
t Sc	Library Science/Media Technology	12
por	Physical Therapy	11
dns	Gifted/Talented Education	9
0,	Occupational Therapy	8
	Audiology	7
	Reading Diagnostician	5
	Kindergarten/Primary Education	79
Elem./ Middle	Middle School Education	64
Ele _I	Pre-K Education	57
	Intermediate Education	50
<u>.</u>	Elementary Principal	36
Adm.	High School Principal	35
⋖	Middle School Principal	34
	Dual Cert (General & Special Education)	39
	Early Childhood Special Education	34
u o	Mild/Moderate Disabilities Special Ed.	25
ati	Multicategorical Special Education	22
onp	Severe/Profound Disabilities Special Ed.	14
Special Education	Learning Disability Special Education	13
	Cognitive Disabilities Special Education	8
Sp	Emotion/Behavioral Disorders Special Ed.	8
	Hearing Impaired Special Education	8
	Visually Impaired Special Education	5

Question: Which degree or certification programs are offered by your institution? (Reported as percentage)



Table 10: Graduating Students

- ✓ The degrees that will have the most graduates per degree-offering institution this year include: Kindergarten/Primary Education, Dual Certification (General & Special Education), School Social Work, Occupational Therapy, and Learning Disability Special Education.
- ✓ The degrees that will have the lowest number of graduates this year include: Journalism Education, Theatre/Drama Education, languages other than Spanish and Japanese, Physics, and both Hearing and Visually Impaired Special Education.

Bilingual Education/Multicultural Speech Education Reading Specialist/Interventionist English/Language Arts Education Physical Education	17 17 13 12
Reading Specialist/Interventionist English/Language Arts Education Physical Education	13
English/Language Arts Education Physical Education	
Physical Education	12
Cooled Chudine Education	12
Social Studies Education	12
Health Education	11
Music Education	11
Agriculture Education	10
Health Education Music Education Agriculture Education Technology Education Computer Science Education	10
Computer Science Education	9
Family and Consumer Science	9
Art/Visual Education	8
Business Education	7
Dance Education	6
Journalism Education	4
Theatre/Drama Education	4
ESL/ELL (English Language Learner)	14
Spanish	7
Japanese	6
Chinese Other Languages Classical (Greek Latin)	5
Other Languages	4
Classical (Greek, Latin)	3
French	3
German	3
B iology	12
General Math and Science	10
Math Math	9
Math Earth/Physical Chemistry	8
General Math and Science Math Earth/Physical Chemistry	7
Physics	4

	School Social Work	34
	Occupational Therapy	31
	School Nursing	27
ces	Physical Therapy	26
Ξ	Counseling	22
t Se	Speech Pathology	22
Support Services	Library Science/Media Technology	16
dns	School Psychology	14
	Reading Diagnostician	13
	Audiology	11
	Gifted/Talented Education	7
	Kindergarten/Primary Education	46
n./ Idle	Pre-K Education	28
Elem./ Middle	Intermediate Education	28
_	Middle School Education	21
÷	Elementary Principal	15
Adm.	Middle School Principal	14
4	High School Principal	14
	Dual Cert (General & Special Education)	36
	Learning Disability Special Education	31
E C	Emotion/Behavioral Disorders Special Ed.	25
atic	Multicategorical Special Education	23
onp	Mild/Moderate Disabilities Special Ed.	21
Ē	Early Childhood Special Education	19
Special Education	Cognitive Disabilities Special Education	16
Sp	Severe/Profound Disabilities Special Ed.	13
	Hearing Impaired Special Education	5
	Visually Impaired Special Education	0

Question: Approximately how many students do you expect will graduate from this institution this academic year with each of the degrees below? (Reported as mean number of students per reporting institution)



Table 11: Perceived Supply and Demand

Considerable Some shortage (3.41 – 4.20)

Balanced (2.61 – 3.40) Some surplus (1.81 – 2.60) Considerable surplus (1.00 – 1.80)

	Bilingual Education/Multicultural	4.47		
	Technology Education	4.04		
	Computer Science Education	3.88		
	Agriculture Education	3.85		
	Family and Consumer Science	3.84		
	Speech Education			
spl	Reading Specialist/Interventionist	3.58		
Fie	Journalism Education	3.25		
ona	English/Language Arts Education	3.02		
cati	Business Education	2.98		
Educational Fields	Theatre/Drama Education	2.98		
	Art/Visual Education	2.86		
	Health Education	2.81		
	Music Education	2.81		
	Dance Education	2.78		
	Physical Education	2.51		
	Social Studies Education	2.51		
	ESL/ELL (English Language Learner)	4.27		
	Spanish	3.79		
Š	Chinese	3.73		
age	Other Languages	3.38		
Languages	German	3.25		
_ E	Japanese	3.11		
	French	3.06		
	Classical (Greek, Latin)	2.80		
	Physics	4.41		
n	Chemistry	4.36		
Math & Scien Education	Math	4.33		
h &	General Math and Science	4.00		
Matl Eq	Biology	3.94		
_	Earth/Physical	3.92		

	Reading Diagnostician	4.10
	Audiology	4.08
	Speech Pathology	3.88
Se	Gifted/Talented Education	3.73
Support Services	Occupational Therapy	
t Sé	School Nursing	
lodo	School Psychology	3.55
Sup	Physical Therapy	3.53
	Library Science/Media Technology	3.33
	Counseling	3.18
	School Social Work	2.95
	Middle School Education	3.36
n./ dle	Pre-K Education	3.04
Elem./ Middle	Intermediate Education	
_	Kindergarten/Primary Education	2.75
	Middle School Principal	3.55
Adm.	High School Principal	3.52
⋖	Elementary Principal	3.45
	Severe/Profound Disabilities Special Ed.	4.64
	Learning Disability Special Education	4.36
_	Mild/Moderate Disabilities Special Ed.	4.24
ţio	Visually Impaired Special Education	4.22
nco	Multicategorical Special Education	4.15
Special Education	Emotion/Behavioral Disorders Special Ed.	4.07
eci	Dual Cert (General & Special Education)	4.06
Sp	Cognitive Disabilities Special Education	3.93
	Early Childhood Special Education	3.92
	Hearing Impaired Special Education	3.73

Question: Do you think there is a considerable shortage, some shortage, some surplus, or considerable surplus in qualified candidates in each of the following degree programs or do you feel there is just the right balance between qualified applicants and available positions?

- ✓ No education fields have considerable surplus.
- ✓ Physical Education and Social Studies are areas with some surplus.
- ✓ Math, Chemistry, Physics, Bilingual Education/Multicultural, and ESL/ELL as well as several special education fields have considerable shortage.



Table 11: Perceived Supply and Demand (continued)

FIELDS WITH CONSIDERABLE SHORTAGE (5.00 – 4.21)	
Severe/Profound Disabilities Special Ed.	4.64
Bilingual Education/Multicultural	4.47
Physics	4.41
Chemistry	4.36
Learning Disability Special Education	4.36
Math	4.33
ESL/ELL (English Language Learner)	4.27
Mild/Moderate Disabilities Special Ed.	4.24
Visually Impaired Special Education	4.22

FIELDS WITH SOME SHORTAGE (4.20 – 3.41)	
Multicategorical Special Education	4.15
Reading Diagnostician	4.10
Audiology	4.08
Emotion/Behavioral Disorders Special Ed.	4.07
Dual Cert (General & Special Education)	4.06
Technology Education	4.04
General Math and Science	4.00
Biology	3.94
Cognitive Disabilities Special Education	3.93
Earth/Physical	3.92
Early Childhood Special Education	3.92
Computer Science Education	3.88
Speech Pathology	3.88
Agriculture Education	3.85
Family and Consumer Science	3.84
Spanish	3.79
Chinese	3.73
Gifted/Talented Education	3.73
Hearing Impaired Special Education	3.73
Speech Education	3.72
Occupational Therapy	3.64
School Nursing	3.61
Reading Specialist/Interventionist	3.58
School Psychology	3.55
Middle School Principal	3.55
Physical Therapy	3.53
High School Principal	3.52
Elementary Principal	3.45
	JU

BALANCED FIELDS (3.40 – 2.61)	
Other Languages	3.38
Middle School Education	3.36
Library Science/Media Technology	3.33
Journalism Education	3.25
German	3.25
Counseling	3.18
Japanese	3.11
French	3.06
Pre-K Education	3.04
English/Language Arts Education	3.02
Intermediate Education	2.99
Business Education	2.98
Theatre/Drama Education	2.98
School Social Work	2.95
Art/Visual Education	2.86
Health Education	2.81
Music Education	2.81
Classical (Greek, Latin)	2.80
Dance Education	2.78
Kindergarten/Primary Education	2.75

FIELDS WITH SOME SURPLUS (2.60 – 1.81)	
Physical Education	2.51
Social Studies Education	2.51

FIELDS WITH CONSIDERABLE SURPLUS (1.80	– 1.00)
None	None

Table 12: Summary by Field



*Considerable shortage (4.21 – 5.00)

Some shortage (3.41 - 4.20)

Balanced (2.61 – 3.40)

Some surplus (1.81 – 2.60)

Considerable surplus (1.00 – 1.80)

		0/ Offering	Graduating	Supply &	
		% Offering	Students	Demand*	
	Bilingual Education/Multicultural	19	17	4.47	
	Technology Education	25	10	4.04	
	Computer Science Education	14	9	3.88	
	Agriculture Education	14	10	3.85	
	Family and Consumer Science	14	9	3.84	
S	Speech Education	18	17	3.72	
Educational Fields	Reading Specialist/Interventionist	38	13	3.58	
臣	Journalism Education	11	4	3.25	
ona	English/Language Arts Education	81	12	3.02	
atio	Business Education	22	7	2.98	
onp	Theatre/Drama Education	24	4	2.98	
ш	Art/Visual Education	47	8	2.86	
	Health Education	32	11	2.81	
	Music Education	62	11	2.81	
	Dance Education	9	6	2.78	
	Physical Education	46	12	2.51	
	Social Studies Education	83	12	2.51	
	ESL/ELL (English Language Learner)	39	14	4.27	
	Spanish	71	7	3.79	
es	Chinese	14	5	3.73	
Languages	Other Languages	9	4	3.38	
ngu	German	39	3	3.25	
Га	Japanese	12	6	3.11	
	French	47	3	3.06	
	Classical (Greek, Latin)	14	3	2.80	
ق ق	Physics	65	4	4.41	
enc	Chemistry	75	7	4.36	
Sci	Math	89	9	4.33	
Math & Science Education	General Math and Science	48	10	4.00	
lath Ec	Biology	88	12	3.94	
_ ≥	Earth/Physical	50	8	3.92	



*Considerable shortage (4.21 – 5.00)

Some shortage (3.41 - 4.20)

Balanced (2.61 – 3.40)

Some surplus (1.81 – 2.60)

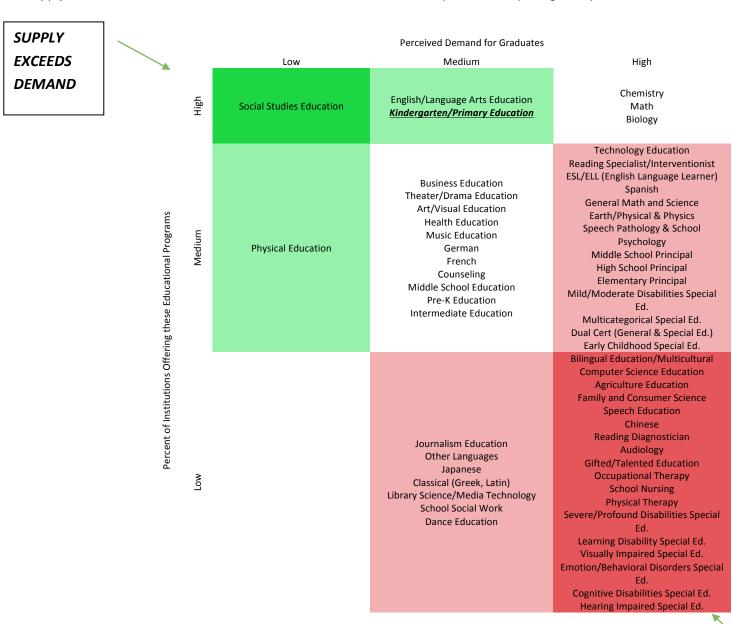
Considerable surplus (1.00 – 1.80)

		% Offering	Graduating Students	Supply & Demand*
	Reading Diagnostician	5	13	4.10
	Audiology	7	11	4.08
	Speech Pathology	23	22	3.88
ices	Gifted/Talented Education	9	7	3.73
ervi	Occupational Therapy	8	31	3.64
t Si	School Nursing	16	27	3.61
por	School Psychology	22	14	3.55
Support Services	Physical Therapy	11	26	3.53
	Library Science/Media Technology	12	16	3.33
	Counseling	40	22	3.18
	School Social Work	13	34	2.95
	Middle School Education	64	21	3.36
Elem./ Middle	Pre-K Education	57	28	3.04
Eler	Intermediate Education	50	28	2.99
_	Kindergarten/Primary Education	79	46	2.75
_•	Middle School Principal	34	14	3.55
Adm.	High School Principal	35	14	3.52
⋖	Elementary Principal	36	15	3.45
	Severe/Profound Disabilities Sp Ed.	14	13	4.64
	Learning Disability Special Education	13	31	4.36
u o	Mild/Moderate Disabilities Sp Ed.	25	21	4.24
atic	Visually Impaired Special Education	5	0	4.22
Special Education	Multicategorical Special Education	22	23	4.15
a Ē	Emotion/Behavioral Disorders Sp Ed.	8	25	4.07
eci	Dual Cert (General & Special Ed.)	39	36	4.06
Sp	Cognitive Disabilities Special Ed.	8	16	3.93
	Early Childhood Special Education	34	19	3.92
	Hearing Impaired Special Education	8	5	3.73



√ Table 13: Educator Preparation Programs and Perceived Demand

- ✓ The following grid represents the intersection between perceived demand for graduates within each degree program (columns) and the percent of institutions offering each degree program (rows):
 - The higher a program appears in the grid, the more institutions offer training in it.
 - The further to the right a program appears in the grid, the higher the demand is for new educators in that field.
 - 19 programs are far out of alignment where supply either greatly exceeds demand or demand exceeds supply.
 - Programs shown in bold and underlined denote fields that colleges/universities expect relatively large numbers to graduate during the academic year, indicating the potential for higher competition for available openings.
 - Programs in cells with no shading are in alignment, balanced between supply and demand (14 of 59 programs).
- ✓ Fields in cells shaded in red have somewhat better prospects for employment than most.
- ✓ Prospects for employment are most challenging for those in the green-shaded cell in the upper-left of the grid, where supply exceeds demand, as well as in the fields in red where intense competition for openings is expected.



DEMAND EXCEEDS SUPPLY



School Districts

Table 14: Educator Preparation

- ✓ On average, 12% of the educators hired in the past year do not have traditional preparation, either being hired with non-traditional preparation or as an emergency hire. Urban (14%) districts are more likely to have hired educators without traditional preparation in the last year.
- ✓ The inability to find qualified candidates in specialized or high-need areas in addition to hard-to-fill positions drives the need to hire educators without traditional preparation.

Question: Approximately what percentage of the teachers hired in the past year have: Traditional preparation – College/university coursework plus completed licensure; Non-traditional preparation – alternative certification programs, subject matter experts without pedagogy, temporary or provisional certification; Emergency hires – without licensure or background in teaching? (Reported as percentage)

EDUCATOR PREPARATION							
Traditional preparation							85%
Non-traditional preparation							12%
Emergency hires							3%
GEOGRAPHIC STATUS				Urbar	n Suburbai	n* Rural	ALL
Traditional preparation				83%	88%	84%	85%
Non-traditional preparation				14%	12%	12%	12%
Emergency hires				3%	2%	6%	3%
SCHOOL SIZE	2,500 or	2,501 to	5,0	01 to	10,001 to	More than	ALL
(NUMBER OF STUDENTS)	fewer	5,000	10	0,000	20,000	20,000	ALL
Traditional preparation	84%	90%	8	37%	89%	81%	85%
Non-traditional preparation	13%	6%	1	L0%	10%	18%	12%
Emergency hires	3%	4%		4%	2%	2%	3%

Reasons for Hiring Educators without Traditional Preparation	N	% of Responses
Lack of traditional candidates who apply	65	35.3%
Must hire for difficult-to-fill positions in certain subject areas	49	26.6%
National shortage of education majors in colleges	18	9.8%
Strong knowledge/Diverse experience is focus rather than pedagogy	17	9.2%
Goal is to hire the best candidate for the job		6.0%
Emergency need/Critical need	10	5.4%
Hires agree to earn desired certification if employed.		5.4%
Miscellaneous	4	2.2%

^{*}total exceeds 100% due to rounding



Table 15: Educator Makeup

Question: Approximately how many:

- Full-time teaching positions are there in your district?
- Full-time teachers does your district have?
- Full-time teachers do you expect to lose this year (retirement, attrition, etc.)?
- Full-time teachers does your district plan to hire to REPLACE those leaving for the next academic year?
- Full-time teachers does your district plan to hire for NEW positions for the next academic year?

(Reported as mean number of teachers/positions)

EDUCATOR MAKEUP						
Full-time positions						1361
Full-time vacancies						15
Expect to lose						105
Replacement hires						135
New position hires						28
Net change in teachers						+58
GEOGRAPHIC STATUS			Urban	Suburban	Rural	ALL
Full-time positions			2522	1380	375	1361
Full-time vacancies			35	9	7	15
Expect to lose			212	96	29	105
Replacement hires			283	119	34	135
New positions			48	33	4	28
Net change in teachers			+118	+56	+9	+58
SCHOOL SIZE	2,500 or	2,501 to	5,001 to	10,001 to	More than	ALL
(NUMBER OF STUDENTS)	fewer	5,000	10,000	20,000	20,000	ALL
Full-time positions	130	289	496	981	4093	1361
Full-time vacancies	5	4	3	5	45	15
Expect to lose	7	26	31	79	321	105
Replacement hires	8	26	31	82	433	135
New positions	3	6	7	12	91	28
Net change in teachers	+3	+6	+8	+15	+203	+58

Table 16: Hiring Challenges

Question: For each of the following issues, please indicate if it has been a big challenge, a moderate challenge, a small challenge, or not a challenge at all finding qualified candidates for open teaching positions.

	HIRING CHA	LLENG	ES					
			Big	Modera		Sm		Not a
		cha	llenge	challeng	ge	challe	enge cl	nallenge
Decreases in the funding your districts receives		40	5.3%	33.5%		12.3	3%	7.9%
Having enough candidates for open positions		68	3.6%	23.5%		5.3	%	2.7%
URBAN STATUS	Urban		9	Suburban			Rural	ALL
Decreases in the funding your districts receives	2.16			2.18			2.18	2.18
Having enough candidates for open positions	2.75			2.43			2.63	2.58
SCHOOL SIZE (NUMBER OF STUDENTS)	2,500 or	2,5	501 to	5,001 to	10,0	001 to	More than	ALI
SCHOOL SIZE (NOWIBER OF STODENTS)	fewer	5	,000	10,000	20	,000	20,000	ALI
Decreases in the funding your districts receives	2.00	2	2.22	2.00	2	30	2.34	2.18
Having enough candidates for open positions	2.45	2	2.68	2.58	2	55	2.69	2.58
Reported as means: 3=Big challenge; 2=Moderate challenge; 1=Small challenge; 0=Not a challenge								



Table 16: Hiring Challenges (continued)

Other Reasons for Difficulty in Hiring Teachers	N	% of Responses
Non-competitive salary/benefits/retirement offered	67	24.3%
Candidates will not consider district (location/weather/available housing)	50	18.1%
Competition/Fewer candidates for more positions	50	18.1%
Demanding requirements/Work load expectations of the job	25	9.1%
Lack certification areas needed	17	6.2%
Certification/Licensure process	16	5.8%
Finding highly effective/experienced candidates	16	5.8%
School funding decisions	12	4.3%
Lack of administrative/local/state support for profession	11	4.0%
Federal/State influence on teaching profession	10	3.6%
Must hire educators respectful of diversity	2	0.7%

Anticipated Hiring in 2017-18 Compared to 2016-17	N	% of Responses
Expect to hire more teachers	107	47.1%
Expect to hire fewer teachers	120	52.9%

Major Reasons for Hiring More	N	% of Responses
Increased enrollment	30	29.4%
Retirement	21	20.6%
Expansion of school district	12	11.8%
Attrition/non-specific	11	10.8%
Relocation/Better benefits	6	5.9%
New programs/Curriculum changes	5	4.9%
Increase in special education services	5	4.9%
Budget increase/Grant funding	4	3.9%
Attrition due to disillusionment	3	2.9%
Creating new positions	2	2.0%
Miscellaneous	3	2.9%

Major Reasons for Hiring Fewer	N	% of Responses
Budget restraints	23	20.5%
Steady/Decreased enrollment	22	19.6%
Less attrition	21	18.8%
Fewer retirements	18	16.1%
Fewer/No new positions	14	12.5%
Expansion phase is complete	6	5.4%
No new programs	3	2.7%
Slow down with relocations	1	0.9%
Miscellaneous	4	3.6%



Table 17: Perceived Supply and Demand

- ✓ School districts reported considerable shortages of qualified applicants in the following areas:

 Bilingual Education/Multicultural, Chinese, Classical, Japanese, Physics, Chemistry, Math, General Math and Science,
 Speech Pathology, and all areas of Special Education.
- ✓ Social Studies Education and Physical Education had the highest surplus of qualified candidates.

Considerable	Some shortage	Balanced	Some surplus	Considerable
shortage	(3.41 – 4.20)	(2.61 - 3.40)	(1.81 - 2.60)	surplus
(4.21 - 5.00)	(3.41 4.20)	(2.01 3.40)	(1.01 2.00)	(1.00 - 1.80)

	Bilingual Education/Multicultural	4.31
	Speech Education	4.20
	Agriculture Education	3.95
	Technology Education	3.87
	Computer Science Education	3.80
<u>8</u>	Family and Consumer Science	3.80
ielo	Reading Specialist/Interventionist	3.60
Educational Fields	Business Education	3.35
ons	Theatre/Drama Education	3.34
ati	English/Language Arts Education	3.26
onp	Journalism Education	3.25
ш	Music Education	3.24
	Dance Education	3.23
	Art/Visual Education	3.21
	Health Education	2.77
	Physical Education	2.44
	Social Studies Education	2.29
	Chinese	4.49
	Classical (Greek, Latin)	4.49
es	Japanese	4.37
Languages	Other Languages	4.10
าธิน	ESL/ELL (English Language Learner)	4.07
La	German	4.06
	French	4.01
	Spanish	4.01
4)	Physics	4.59
Math/Science Education	Math	4.49
ath/Sciend Education	Chemistry	4.47
h/s luca	General Math and Science	4.25
/lat Ed	Earth/Physical	4.18
_	Biology	4.14

	Speech Pathology	4.44
	Audiology	4.20
Si	Occupational Therapy	4.11
/ice	Physical Therapy	4.09
er	School Nursing	4.07
T S	School Psychology	4.04
od	Reading Diagnostician	3.78
Support Services	Library Science/Media Technology	3.66
0,	School Social Work	3.52
	Gifted/Talented Education	3.49
	Counseling	3.26
- 0	Middle School Education	3.67
m./ Idle	Pre-K Education	3.28
Elem./ Middle	Intermediate Education	3.18
J	Kindergarten/Primary Education	2.92
÷	High School Principal	3.54
Adm.	Middle School Principal	3.35
٨	Elementary Principal	3.16
	Severe/Profound Disabilities Special Ed.	4.61
	Hearing Impaired Special Education	4.60
on	Visually Impaired Special Education	4.60
ati	Emotion/Behavioral Disorders Special Ed.	4.58
onp	Multicategorical Special Education	4.52
Special Education	Cognitive Disabilities Special Education	4.41
eci	Mild/Moderate Disabilities Special Ed.	4.35
Sp	Dual Cert (General & Special Education)	4.34
	Early Childhood Special Education	4.33
	Learning Disability Special Education	4.31



Table 17: Perceived Supply and Demand

FIELDS WITH CONSIDERABLE SHORTAGE (5.00 – 4.21)	
Severe/Profound Disabilities Special Ed.	4.61
Hearing Impaired Special Education	4.60
Visually Impaired Special Education	4.60
Physics	4.59
Emotion/Behavioral Disorders Special Ed.	4.58
Multicategorical Special Education	4.52
Chinese	4.49
Classical (Greek, Latin)	4.49
Math	4.49
Chemistry	4.47
Speech Pathology	4.44
Cognitive Disabilities Special Education	4.41
Japanese	4.37
Mild/Moderate Disabilities Special Ed.	4.35
Dual Cert (General & Special Education)	4.34
Early Childhood Special Education	4.33
Bilingual Education/Multicultural	4.31
Learning Disability Special Education	4.31
General Math and Science	4.25

FIELDS WITH SOME SHORTAGE (4.20 – 3.41)	
Speech Education	4.20
Audiology	4.20
Earth/Physical	4.18
Biology	4.14
Occupational Therapy	4.11
Other Languages	4.10
Physical Therapy	4.09
ESL/ELL (English Language Learner)	4.07
School Nursing	4.07
German	4.06
School Psychology	4.04
French	4.01
Spanish	4.01
Agriculture Education	3.95
Technology Education	3.87
Computer Science Education	3.80
Family and Consumer Science	3.80
Reading Diagnostician	3.78
Middle School Education	3.67
Library Science/Media Technology	3.66
Reading Specialist/Interventionist	3.60
High School Principal	3.54
School Social Work	3.52
Gifted/Talented Education	3.49

BALANCED FIELDS (3.40 – 2.61)	
Business Education	3.35
Middle School Principal	3.35
Theatre/Drama Education	3.34
Pre-K Education	3.28
English/Language Arts Education	3.26
Counseling	3.26
Journalism Education	3.25
Music Education	3.24
Dance Education	3.23
Art/Visual Education	3.21
Intermediate Education	3.18
Elementary Principal	3.16
Kindergarten/Primary Education	2.92
Health Education	2.77

FIELDS WITH SOME SURPLUS (2.60 – 1.81)	
Physical Education	2.44
Social Studies Education	2.29

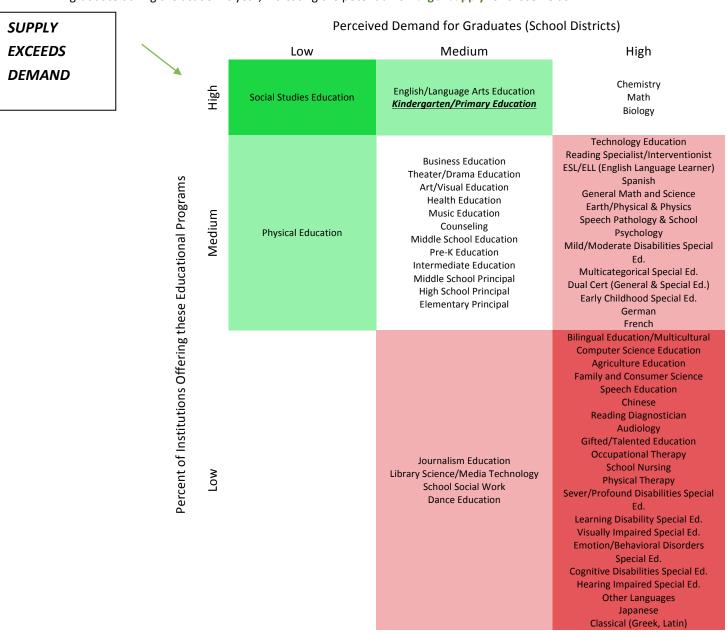
FIELDS WITH CONSIDERABLE SURPLUS 1.80 – 1.00)

None



Table 18: Educator Preparation Programs and Perceived Demand (School Districts)

- ✓ The following grid represents the intersection between perceived demand for *TEACHERS* within each degree program (columns) *AS REPORTED BY SCHOOL DISTRICTS and* the percent of institutions offering each degree program (rows):
 - The higher a program appears in the grid, the more institutions offer training in it, and therefore the greater the opportunity for future educators to obtain training in those fields in order to meet demand.
 - The further to the right, the higher the demand (as reported by school districts) is for new educators in that field.
 - 22 programs are far out of alignment where supply either greatly exceeds demand or demand exceeds supply.
 - Programs shown in bold and underlined text denote fields that colleges/universities expect relatively large numbers to graduate during the academic year, indicating the potential for larger supply for those fields.



DEMAND EXCEEDS SUPPLY



Appendix: Year-to-Year Comparison

Colleges and Universities

PROGRAM ENROLLMENT								
	Traditional	2016-17	2015-16	Change				
	Increased	18.7%	12.4%	+6.3%				
TRADITONAL	Stayed the same	31.6%	34.9%	-3.3%				
IRADITONAL	Decreased	41.2%	40.9%	+0.3%				
	Not offered	8.6%	11.8%	-3.2%				
	Increased	18.6%	16.7%	+1.9%				
M.ED./MAT/5 TH YEAR	Stayed the same	19.1%	26.9%	-7.8%				
ADDED TO BACCALAUREATE	Decreased	16.9%	18.3%	-1.4%				
	Not offered	45.4%	38.2%	+7.2%				
	Increased	12.0%	14.8%	-2.8%				
TESOL	Stayed the same	26.6%	17.5%	+9.1%				
TESOL	Decreased	8.2%	8.7%	-0.5%				
	Not offered	53.3%	59.0%	-5.7%				
	Increased	12.0%	13.7%	-1.7%				
ALTERNATIVE	Stayed the same	23.0%	27.5%	-4.5%				
CERTIFICATIONS/LICENSURES	Decreased	8.7%	8.2%	+0.5%				
	Not offered	56.3%	50.5%	+5.8%				
	Increased	8.4%	10.6%	-2.2%				
DOCTORATES	Stayed the same	19.7%	19.0%	+0.7%				
	Decreased	4.5%	5.6%	-1.1%				
	Not offered	67.4%	64.8%	+2.6%				
Has enrollment for each degree program increased, remained about the same, or decreased in the past year?								

STUDENT SUCCESS IN FINDING POSITIONS						
	2016-17	2015-16	Change			
Full-time	79%	76%	+3%			
Part-time	15%	15%	-			
Approximately, what percentage of your graduates find FT/ P7	teaching positions afte	er graduation?				
CHALLENGES IN FINDING	TEACHING POSITIONS					
Decreases in the funding school districts receive	2016-17	2015-16	Change			
Big challenge	22.2%	34.1%	-11.9%			
Moderate challenge	30.1%	34.1%	-4.0%			
Small challenge	26.1%	16.8%	+9.3%			
Not a challenge	21.6%	15.1%	+6.5%			
Mean (3=Big Challenge; 0=Not a challenge)	1.53	1.87	-0.34			
Too many candidates for open positions	2016-17	2015-16	Change			
Big challenge	13.0%	21.8%	-8.8%			
Moderate challenge	29.4%	23.5%	+5.9%			
Small challenge	29.4%	29.6%	-0.2%			
Not a challenge	28.2%	25.1%	+3.1%			
Mean (3=Big Challenge; 0=Not a challenge)	1.27	1.42	-0.15			



Supply and Demand

Program offering: Please select which degree or certification programs below are offered by your institution. (Reported as percentage of answering institutions)

Graduating Students: Approximately how many students do you expect will graduate from this institution this academic year with each of the degrees below? (Reported as mean number of students per reporting institution)

		PROGRAM OFFERINGS			GRADI	JATING ST	UDENTS
		2016- 2017	2015- 2016	Change	2016- 2017	2015- 2016	Change
	Social Studies Education	83	78	+5	12	13	-1
	English/Language Arts Education	81	81	-	12	15	-3
	Music Education	62	59	+3	11	13	-2
	Art/Visual Education	47	44	+3	8	7	+1
	Physical Education	46	49	-3	12	13	-1
S	Reading Specialist/Interventionist	38	38	-	13	16	-3
eld	Health Education	32	32	-	11	15	-4
Educational Fields	Technology Education	25	19	+6	10	15	-5
ona	Theatre/Drama Education	24	25	-1	4	3	+1
ati	Business Education	22	25	-3	7	5	+2
onp	Bilingual Education/Multicultural	19	22	-3	17	18	-1
ш	Speech Education	18	17	+1	17	14	+3
	Family and Consumer Science	14	14	-	9	9	-
	Agriculture Education	14	13	+1	10	9	+1
	Computer Science Education	14	11	+3	9	7	+2
	Journalism Education	11	9	+2	4	1	+3
	Dance Education	9	9	-	6	5	+1
	Spanish	71	65	+6	7	6	+1
	French	47	48	-1	3	2	+1
es	German	39	35	+4	3	1	+2
Languages	ESL/ELL (English Language Learner)	39	31	+8	14	34	-20
ngu	Classical	14	14	-	3	2	+1
La	Chinese	14	11	+3	5	2	+3
	Japanese	12	9	+3	6	2	+4
	Other Languages	9	8	+1	4	2	+2
<u>ب</u>	Math	89	85	+4	9	11	-2
enc	Biology	88	77	+11	12	11	+1
th & Scien Education	Chemistry	75	69	+6	7	4	+3
n & r	Physics	65	54	+11	4	3	+1
Math & Science Education	Earth/Physical Science	50	45	+5	8	4	+4
2	General Math and Science	48	42	+6	10	7	+3



		PROGRAM OFFERINGS			GRAD	UATING STU	DENTS
		2016- 2017	2015- 2016	Change	2016- 2017	2015- 2016	Change
	Counseling	40	34	+6	22	22	-
	Speech Pathology	23	17	+6	22	28	-6
	School Psychology	22	28	-6	14	51	-37
Support Services	School Nursing	16	12	+4	27	52	-25
i	School Social Work	13	15	-2	34	24	+10
t Se	Library Science/Media Technology	12	11	+1	16	18	-2
por	Physical Therapy	11	9	+2	26	52	-26
dno	Gifted/Talented Education	9	9	-	7	11	-4
	Occupational Therapy	8	7	+1	31	30	+1
	Audiology	7	8	-1	11	5	+6
	Reading Diagnostician	5	8	-3	13	11	+2
	Kindergarten/Primary Education	79	81	-2	46	49	-3
Elem./ Middle	Middle School Education	64	59	+5	21	21	-
Elei	Pre-K Education	57	47	+10	28	25	+3
	Intermediate Education	50	46	+4	28	32	-4
•	Elementary Principal	36	39	-3	15	18	-3
Adm.	High School Principal	35	39	-4	14	17	-3
<	Middle School Principal	34	35	-1	14	17	-3
	Dual Cert (General & Special Education)	39	31	+8	36	26	+10
	Early Childhood Special Education	34	25	+9	19	31	-12
u o	Mild/Moderate Disabilities Special Ed.	25	24	+1	21	18	+3
ati	Multi-categorical Special Education	22	20	+2	23	29	-6
gnc	Severe/Profound Disabilities Special Ed.	14	14	-	13	11	+2
al E	Learning Disability Special Education	13	9	+4	31	19	+12
Special Education	Cognitive Disabilities Special Education	8	6	+2	16	14	+2
Sp	Emotion/Behavioral Disorders Special Ed.	8	5	+3	25	18	+7
	Hearing Impaired Special Education	8	5	+3	5	6	-1
	Visually Impaired Special Education	5	3	+2	0	4	-4



Perceived Demand & Institutions Offering

High-Low (H-L)	High-Medium (H-M)	High-High (H-H)
Supply exceeds Demand	Supply exceeds Demand	Alignment
High Supply & Low Demand	High Supply & Medium Demand	High Supply & High Demand
Medium-Low (M-L)	Medium-Medium (M-M)	Medium-High (M-H)
Supply exceeds Demand	Alignment	Demand exceeds Supply
Medium Supply & Low Demand	Medium Supply & Medium Demand	Medium Supply & High Demand
Low-Low (L-L)	Low-Medium (L-M)	Low-High (L-H)
Alignment	Demand exceeds Supply	Demand exceeds Supply
Low Supply & Low Demand	Low Supply and Medium Demand	Low Supply & High Demand

		2017	2016	2015	2014	2013	2012
	Agriculture Education	L-H	L-H	L-H	L-H	L-M	L-M
	Art/Visual Education	M-M	M-L	M-L	M-L	M-L	M-L
	Bilingual Education/Multicultural	L-H	М-Н	М-Н	M-H	M-H	М-Н
	Business Education	M-M	M-M	M-L	M-M	M-M	M-M
	Computer Science Education	L-H	L-H	L-M	L-M	L-H	M-M
<u>8</u>	Dance Education	L-M	L-L	L-L	L-L	L-L	L-L
ield	English/Language Arts Education	H-M	H-L	H-L	H-M	H-L	H-L
Educational Fields	Family and Consumer Science	L-H	L-H	L-M	L-H	M-M	M-M
onŝ	Health Education	M-M	M-L	M-L	M-L	M-L	M-L
ati	Journalism Education	L-M	L-M	L-L	L-M	L-L	L-L
duc	Music Education	M-M	M-L	M-L	H-M	М-Н	M-M
ш	Physical Education	M-L	M-L	M-L	M-L	M-L	M-L
	Reading Specialist/Interventionist	М-Н	М-Н	M-M	M-H	М-Н	M-M
	Social Studies Education	H-L	H-L	H-L	H-L	H-L	H-L
	Speech Education	L-H	L-H	L-M	M-M	M-M	M-M
	Technology Education	М-Н	L-H	M-H	L-H	M-H	M-M
	Theatre/Drama Education	M-M	M-L	M-L	M-L	M-L	M-L
	Chinese	L-H	L-H	М-Н	L-M	L-H	L-H
	Classical	L-M	L-M	L-M	L-M	M-H	L-M
es	ESL/ELL (English Language Learner)	М-Н	М-Н	М-Н	М-Н	M-H	М-Н
ger	French	M-M	M-M	M-M	M-M	M-M	M-M
Languages	German	M-M	M-M	M-M	M-M	M-M	M-M
La	Japanese	L-M	L-H	L-M	L-M	L-H	L-H
	Other Languages	L-M	L-H	L-H	L-M	L-M	L-M
	Spanish	М-Н	H-M	H-H	H-H	H-H	H-H
	Biology	H-H	H-M	H-H	H-H	H-H	H-H
- C - E	Chemistry	H-H	H-H	H-H	H-H	H-H	H-H
Math & Science Education	Earth/Physical Science	М-Н	H-H	М-Н	M-H	М-Н	М-Н
Mat Scie Iuca	General Math and Science	М-Н	М-Н	М-Н	M-H	M-M	М-Н
E S P	Math	H-H	М-Н	H-H	H-H	H-H	H-H
	Physics	М-Н	M-H	М-Н	M-H	M-H	М-Н



		2017	2016	2015	2014	2013	2012
s	Audiology	L-H	L-H	L-H	L-H	L-H	L-H
	Counseling	M-M	M-M	M-M	M-M	M-M	M-M
	Gifted/Talented Education	L-H	L-H	L-M	L-M	L-M	M-M
<u>i</u>	Library Science/Media Technology	L-M	L-M	L-M	L-M	L-M	M-M
er	Occupational Therapy	L-H	L-H	L-H	L-H	L-H	L-M
Support Services	Physical Therapy	L-H	L-H	L-H	L-H	L-H	L-H
lod	Reading Diagnostician	L-H	L-H	L-H	L-H	L-H	M-H
dns	School Nursing	L-H	L-H	L-H	L-H	L-M	L-M
	School Psychology	M-H	M-H	M-M	M-H	M-M	M-M
	School Social Work	L-M	L-M	L-M	L-M	L-M	M-M
	Speech Pathology	M-H	L-H	M-H	M-H	M-H	М-Н
- a	Intermediate Education	M-M	M-L	M-L	M-L	H-L	H-L
Elem./ Middle	Kindergarten/Primary Education	H-M	H-L	H-L	H-L	H-L	H-L
Mic	Middle School Education	M-M	M-L	H-M	H-M	H-M	H-L
	Pre-K Education	M-M	M-M	M-L	M-L	M-L	H-L
	Elementary Principal	М-Н	M-M	M-M	M-M	M-M	M-M
Adm.	High School Principal	М-Н	M-M	M-M	M-M	M-M	M-M
٨	Middle School Principal	M-H	M-M	M-M	M-M	M-M	M-M
	Cognitive Disabilities Special Ed.	L-H	L-H	L-H	L-H	L-H	М-Н
	Dual Cert (General & Special Ed.)	М-Н	М-Н	М-Н	M-H	М-Н	М-Н
o	Early Childhood Special Education	М-Н	M-H	M-M	M-H	М-Н	М-Н
cati	Emotion/Behavioral Disorders Sp. Ed	L-H	L-H	L-H	L-H	М-Н	М-Н
ρ	Hearing Impaired Special Education	L-H	L-H	L-H	L-H	L-H	L-H
Special Education	Learning Disability Special Education	L-H	L-H	L-H	M-H	М-Н	М-Н
eci	Mild/Moderate Disabilities Sp. Ed.	M-H	M-H	M-H	M-H	М-Н	М-Н
Sp	Multi-categorical Special Education	М-Н	L-H	М-Н	M-H	М-Н	М-Н
	Severe/Profound Disabilities Sp. Ed.	L-H	L-H	L-H	L-H	M-H	М-Н
	Visually Impaired Special Education	L-H	L-H	L-H	L-H	L-H	L-H

	2017	2016	2015
Low-High		Agriculture Education	
Demand exceeds Supply		Audiology	
	Bilingual Education/Multicultural	Chinese	
Low Supply & High	Computer Science Education	Cognitive Disabilities Special Ed.	
Demand	Agriculture Education	Computer Science Education	Emotion/Behavioral Disorders Special
	Family and Consumer Science	Emotion/Behavioral Disorders Sp. Ed	Cognitive Disabilities Special Ed.
	Speech Education	Family and Consumer Science	Severe/Profound Disabilities Special
	Chinese	Gifted/Talented Education	Learning Disabilities Special
	Reading Diagnostician	Hearing Impaired Special Education	Education
	Audiology	Japanese	Visually Impaired Special Education
	Gifted/Talented Education	Learning Disability Special Education	Audiology
	Occupational Therapy	Multi-categorical Special Education	Other Languages
	School Nursing	Occupational Therapy	Agriculture Education
	Physical Therapy	Other Languages	Hearing Impaired Special Education
	Sever/Profound Disabilities Special Ed.	Physical Therapy	Occupational Therapy
	Learning Disability Special Ed.	Reading Diagnostician	Physical Therapy
	Visually Impaired Special Ed.	School Nursing	Reading Diagnostician
	Emotion/Behavioral Disorders Special Ed.	Severe/Profound Disabilities Sp. Ed.	School Nursing
	Cognitive Disabilities Special Ed.	Speech Education	
	Hearing Impaired Special Ed.	Speech Pathology	
		Technology Education	
		Visually Impaired Special Education	
High-Low			
Supply exceeds Demand		English/Language Arts Education	Social Studies Education
	Social Studies Education	Kindergarten/Primary Education	Kindergarten/Primary Education
High Supply & Low		Social Studies Education	English/Language Arts Education
Demand			



Perceived Supply & Demand

Considerable shortage (4.21 – 5.00)

Some shortage (3.41 - 4.20)

Balanced (2.61 – 3.40)

Some surplus (1.81 – 2.60)

Considerable surplus (1.00 – 1.80)

	COLLEGES AND UNIVERSITIES					
		2016-2017	2015-2016	Change		
	Bilingual Education/Multicultural	4.47	4.45	+0.02		
	Agriculture Education	3.85	4.00	-0.15		
	Computer Science Education	3.88	3.75	+0.13		
	Family and Consumer Science	3.84	3.72	+0.12		
	Technology Education	4.04	3.65	+0.39		
S	Reading Specialist/Interventionist	3.58	3.54	+0.04		
Educational Fields	Speech Education	3.72	3.52	+0.20		
正	Journalism Education	3.25	3.19	+0.06		
ous	Business Education	2.98	3.16	-0.18		
cati	Music Education	2.81	2.93	-0.12		
ğ	Art/Visual Education	2.86	2.87	-0.01		
ш	English/Language Arts Education	3.02	2.84	+0.18		
	Dance Education	2.78	2.82	-0.04		
	Theatre/Drama Education	2.98	2.76	+0.22		
	Health Education	2.81	2.53	+0.28		
	Physical Education	2.51	2.43	+0.08		
	Social Studies Education	2.51	2.34	+0.17		
	ESL/ELL (English Language Learner)	4.27	4.09	+0.18		
	Spanish	3.79	3.96	-0.17		
es	Chinese	3.73	3.82	-0.09		
Languages	Japanese	3.11	3.50	-0.39		
ngı	Other Languages	3.38	3.40	-0.02		
La la	German	3.25	3.30	-0.05		
	French	3.06	3.26	-0.20		
	Classical	2.80	3.00	-0.20		
<u>ب</u> و	Physics	4.41	4.46	-0.05		
Math & Science Education	Chemistry	4.36	4.38	-0.02		
ıth & Scier Education	Math	4.33	4.34	-0.01		
a c	General Science	4.00	4.10	-0.10		
lat! Ec	Earth/Physical Science	3.92	4.08	-0.16		
≥	Biology	3.94	4.07	-0.13		



considerable shortage (4.21 – 5.00)

Some shortage (3.41 – 4.20)

Balanced (2.61 – 3.40)

Some surplus (1.81 – 2.60)

Considerable surplus (1.00 – 1.80)

		2016-2017	2015-2016	Change
Support Services	Speech Pathology	3.88	4.00	-0.12
	Occupational Therapy	3.64	3.91	-0.27
	Physical Therapy	3.53	3.87	-0.34
	Reading Diagnostician	4.10	3.87	0.23
	Gifted/Talented Education	3.73	3.69	0.04
t S	Audiology	4.08	3.54	0.54
por	School Nursing	3.61	3.53	0.08
gnb	School Psychology	3.55	3.53	0.02
•,	School Social Work	2.95	3.42	-0.47
	Counseling	3.18	3.33	-0.15
	Library Science/Media Technology	3.33	3.17	0.16
	Middle School Education	3.36	3.38	-0.02
m./ Idle	Pre-K Education	3.04	2.81	+0.23
Elem./ Middle	Intermediate Education	2.99	2.80	+0.19
_	Kindergarten/Primary Education	2.75	2.70	+0.05
•	Middle School Principal	3.55	3.29	+0.26
Adm.	High School Principal	3.52	3.25	+0.27
⋖	Elementary Principal	3.45	3.20	+0.25
	Emotion/Behavioral Disorders Sp. Ed	4.07	4.75	-0.68
	Visually Impaired Special Education	4.22	4.60	-0.38
<u> </u>	Severe/Profound Disabilities Sp. Ed.	4.64	4.59	+0.05
äţį	Cognitive Disabilities Special Ed.	3.93	4.50	-0.57
onp	Mild/Moderate Disabilities Sp. Ed.	4.24	4.50	-0.26
Special Education	Learning Disability Special Education	4.36	4.43	-0.07
eci	Multi-categorical Special Education	4.15	4.22	-0.07
Sp	Dual Cert (General & Special Ed.)	4.06	3.85	+0.21
	Hearing Impaired Special Education	3.73	3.75	-0.02
	Early Childhood Special Education	3.92	3.74	+0.18



School Districts

TEACHER PREPARATION	2016-2017	2015-2016	Change
Traditional preparation	85%	88%	-3.0%
Non-traditional preparation	12%	10%	2.0%
Emergency hires	3%	2%	1.0%
TEACHER MAKEUP	2016-2017	2015-2016	Change
Full-time positions	1361	1138	+223
Current full-time teachers	15	12	+3
Expect to lose	105	81	+24
Replacement hires	135	99	+36
New position hires	28	25	+3
Net change in teachers	+58	+43	+15

HIRING CHALLENGES							
Decreases in funding your districts receives	2016-2017	2015-2016	Change				
Big challenge	46.3%	55.9%	-9.6%				
Moderate challenge	33.5%	39.6%	-6.1%				
Small challenge	12.3%	6.4%	+5.9%				
Not a challenge	7.9%	7.0%	+0.9%				
Mean (3=Big Challenge; 0=Not a challenge)	2.18	2.36	-0.18				
Having enough candidates for open positions	2016-2017	2014-2015	Change				
Big challenge	68.6%	55.8%	12.8%				
Moderate challenge	23.5%	31.9%	-8.4%				
Small challenge	5.3%	8.7%	-3.4%				
Not a challenge	2.7%	3.6%	-0.9%				
Mean (3=Big Challenge; 0=Not a challenge)	2.58	2.40	+0.18				



Perceived Demand & Institutions Offering

High-Low (H-L)	High-Medium (H-M)	High-High (H-H)
Supply exceeds Demand	Supply exceeds Demand	Alignment
High Supply & Low Demand	High Supply & Medium Demand	High Supply & High Demand
Medium-Low (M-L)	Medium-Medium (M-M)	Medium-High (M-H)
Supply exceeds Demand	Alignment	Demand exceeds Supply
Medium Supply & Low Demand	Medium Supply & Medium Demand	Medium Supply & High Demand
Low-Low (L-L)	Low-Medium (L-M)	Low-High (L-H)
Alignment	Demand exceeds Supply	Demand exceeds Supply
Low Supply & Low Demand	Low Supply and Medium Demand	Low Supply & High Demand

		2017	2016	2015	2014
	Agriculture Education	L-H	L-H	L-H	L-H
	Art/Visual Education	M-M	M-M	M-M	M-M
	Bilingual Education/Multicultural	L-H	M-H	M-H	M-H
	Business Education	M-M	M-M	M-M	M-M
	Computer Science Education	L-H	L-H	L-H	L-M
<u>s</u>	Dance Education	L-M	L-M	L-M	L-M
Educational Fields	English/Language Arts Education	H-M	H-M	H-M	H-M
<u> </u>	Family and Consumer Science	L-H	L-H	L-H	L-M
oug	Health Education	M-M	M-L	M-M	M-L
ati	Journalism Education	L-M	L-M	L-M	L-M
onp	Music Education	M-M	M-M	M-M	H-M
ш	Physical Education	M-L	M-L	M-L	M-L
	Reading Specialist/Interventionist	М-Н	M-H	M-M	M-M
	Social Studies Education	H-L	H-L	H-L	H-L
	Speech Education	L-H	L-H	L-H	M-H
	Technology Education	М-Н	L-H	M-H	L-H
	Theatre/Drama Education	M-M	M-M	M-M	M-M
	Chinese	L-H	L-H	M-H	L-H
	Classical	L-H	L-H	L-H	L-H
es	ESL/ELL (English Language Learner)	М-Н	M-H	M-H	М-Н
Languages	French	М-Н	M-H	M-H	M-H
ngu	German	М-Н	M-H	M-H	M-H
La	Japanese	L-H	L-H	L-H	L-H
	Other Languages	L-H	L-H	L-H	L-H
	Spanish	М-Н	H-H	H-H	H-H
	Biology	H-H	H-H	H-H	H-H
-x 0 5	Chemistry	H-H	H-H	H-H	H-H
Math & Science Education	Earth/Physical Science	М-Н	М-Н	М-Н	М-Н
Mat Scie Iuca	General Math and Science	М-Н	М-Н	М-Н	М-Н
_ 2 S D	Math	H-H	М-Н	H-H	H-H
	Physics	М-Н	M-H	M-H	М-Н



	Audiology	L-H	L-H	L-H	L-H
	Counseling	M-M	M-M	M-M	M-M
ιο.	Gifted/Talented Education	L-H	L-H	L-H	L-H
<u>ë</u>	Library Science/Media Technology	L-M	L-H	L-H	L-M
_ ≥	Occupational Therapy	L-H	L-H	L-H	L-H
Support Services	Physical Therapy	L-H	L-H	L-H	L-H
por	Reading Diagnostician	L-H	L-H	L-H	L-H
dn	School Nursing	L-H	L-H	L-H	L-H
0,	School Psychology	М-Н	M-H	M-H	М-Н
	School Social Work	L-M	L-H	L-H	L-M
	Speech Pathology	М-Н	L-H	M-H	М-Н
	Intermediate Education	MPM	M-M	M-M	M-L
m./ Idle	Kindergarten/Primary Education	H-M	H-L	H-L	H-L
Elem./ Middle	Middle School Education	M-M	M-M	H-M	H-M
	Pre-K Education	M-M	M-M	M-M	M-L
<u>.</u>	Elementary Principal	M-M	M-M	M-M	M-M
Adm.	High School Principal	M-M	М-Н	M-H	M-M
⋖	Middle School Principal	M-M	M-M	М-Н	M-M
	Cognitive Disabilities Special Ed.	L-H	L-H	L-H	L-H
	Dual Cert (General & Special Ed.)	М-Н	M-H	M-H	М-Н
u o	Early Childhood Special Education	М-Н	M-H	M-H	М-Н
ati	Emotion/Behavioral Disorders Sp. Ed	L-H	L-H	L-H	L-H
Special Education	Hearing Impaired Special Education	L-H	L-H	L-H	L-H
	Learning Disability Special Education	L-H	L-H	L-H	М-Н
	Mild/Moderate Disabilities Sp. Ed.	М-Н	M-H	М-Н	М-Н
Sp	Multi-categorical Special Education	М-Н	L-H	M-H	М-Н
	Severe/Profound Disabilities Sp. Ed.	L-H	L-H	L-H	L-H
	Visually Impaired Special Education	L-H	L-H	L-H	L-H

	2017	2016	2015
Low-High	Bilingual Education/Multicultural	Agriculture Education	Computer Science Education
Demand exceeds Supply	Computer Science Education	Audiology	Family and Consumer Science
Low Supply & High Demand	Agriculture Education	Chinese	Gifted and Talented Education
	Family and Consumer Science	Classical	School Social Work
	Speech Education	Cognitive Disabilities Special Ed.	Japanese
	Chinese	Computer Science Education	Speech Education
	Reading Diagnostician	Emotion/Behavioral Disorders Sp. Ed	Library Science/Media Technology
	Audiology	Family and Consumer Science	Classical
	Gifted/Talented Education	Gifted/Talented Education	Emotion/Behavioral Disorders
	Occupational Therapy	Hearing Impaired Special Education	Special
	School Nursing	Japanese	Cognitive Disabilities Special Ed.
	Physical Therapy	Learning Disability Special Education	Severe/Profound Disabilities Special
	Sever/Profound Disabilities Special Ed.	Library Science/Media Technology	Learning Disabilities Special
	Learning Disability Special Ed.	Multi-categorical Special Education	Education
	Visually Impaired Special Ed.	Occupational Therapy	Visually Impaired Special Education
	Emotion/Behavioral Disorders Special	Other Languages	Audiology
	Ed.	Physical Therapy	Other Languages
	Cognitive Disabilities Special Ed.	Reading Diagnostician	Agriculture Education
	Hearing Impaired Special Ed.	School Nursing	Hearing Impaired Special Education
	Other Languages	School Social Work	Occupational Therapy
	Japanese	Severe/Profound Disabilities Sp. Ed.	Physical Therapy
	Classical (Greek, Latin)	Speech Education	Reading Diagnostician
		Speech Pathology	School Nursing
		Technology Education	
		Visually Impaired Special Education	
High-Low	Social Studies Education	Kindergarten/Primary Education	Social Studies Education
Supply exceeds Demand High Supply & Low Demand		Social Studies Education	Kindergarten/Primary Education



Perceived Supply & Demand

		2016-17	2015-16	Change
	Bilingual Education/Multicultural	4.31	4.28	+0.03
	Speech Education	4.20	4.12	+0.08
	Agriculture Education	3.95	3.95	-
	Technology Education	3.87	3.72	+0.15
	Family and Consumer Science	3.80	3.71	+0.09
S	Computer Science Education	3.80	3.59	+0.21
eld	Reading Specialist/Interventionist	3.60	3.55	+0.05
臣	Dance Education	3.23	3.25	-0.02
ona	Theatre/Drama Education	3.34	3.23	+0.11
cati	Business Education	3.35	3.22	+0.13
Educational Fields	Music Education	3.24	3.20	+0.04
ш	Journalism Education	3.25	3.18	+0.07
	Art/Visual Education	3.21	3.11	+0.10
	English/Language Arts Education	3.26	3.03	+0.23
	Health Education	2.77	2.75	+0.02
	Physical Education	2.44	2.31	+0.13
	Social Studies Education	2.29	2.29	=
	Chinese	4.49	4.47	+0.02
	Classical	4.49	4.34	+0.15
sa	Japanese	4.37	4.33	+0.04
lag	Other Languages	4.10	4.15	-0.05
Languages	German	4.06	4.05	+0.01
Ľ	ESL/ELL (English Language Learner)	4.07	4.04	+0.03
	French	4.01	3.95	+0.06
	Spanish	4.01	3.84	+0.17
a)	Physics	4.59	4.52	+0.07
Math & Science Education	Chemistry	4.47	4.39	+0.08
ith & Scier Education	Math	4.49	4.38	+0.11
% c	General Math and Science	4.25	4.08	+0.17
lath Ec	Biology	4.14	4.01	+0.13
2	Earth/Physical Science	4.18	3.99	+0.19



		2016-17	2015-16	Change
	Speech Pathology	4.44	4.34	+0.10
	Audiology	4.20	4.27	-0.07
	Occupational Therapy	4.11	4.15	-0.04
ices	Physical Therapy	4.09	4.11	-0.02
ervi	School Nursing	4.07	3.96	+0.11
Support Services	School Psychology	4.04	3.96	+0.08
pod	Reading Diagnostician	3.78	3.80	-0.02
dns	School Social Work	3.52	3.53	-0.01
"	Library Science/Media Technology	3.66	3.52	+0.14
	Gifted/Talented Education	3.49	3.51	-0.02
	Counseling	3.26	3.26	-
	Middle School Education	3.67	3.48	+0.19
n./ Idle	Pre-K Education	3.28	3.12	+0.16
Elem./ Middle	Intermediate Education	3.18	3.05	+0.13
	Kindergarten/Primary Education	2.92	2.81	+0.11
	High School Principal	3.54	3.57	-0.03
Adm.	Middle School Principal	3.35	3.37	-0.02
⋖	Elementary Principal	3.16	3.19	-0.03
	Severe/Profound Disabilities Special Ed.	4.61	4.57	+0.04
	Emotion/Behavioral Disorders Special Ed.	4.58	4.54	+0.04
u	Visually Impaired Special Education	4.60	4.50	+0.10
atic	Hearing Impaired Special Education	4.60	4.47	+0.13
Special Education	Multi-categorical Special Education	4.52	4.39	+0.13
	Dual Cert (General & Special Education)	4.34	4.35	-0.01
	Cognitive Disabilities Special Education	4.41	4.32	+0.09
Sp	Mild/Moderate Disabilities Special Ed.	4.35	4.27	+0.08
	Early Childhood Special Education	4.33	4.20	+0.13
	Learning Disability Special Education	4.31	4.20	+0.11



Appendix: Demographic Characteristics of Respondents

SCHOOL DISTRICTS					
Size (number of students)	N	%			
2,500 or fewer	64	28.3%			
2,501 to 5,000	38	16.8%			
5,001 to 10,000	31	13.7%			
10,001 to 20,000	34	15.0%			
More than 20,000	59	26.1%			
Total	226	100.0%			
Urban Status	N	%			
Urban	61	26.9%			
Suburban	95	41.9%			
Rural	71	31.3%			
Total	227	100.0%			

COLLEGES AND UNVERSITIES				
Size (Education students)	N	%		
Less than 100	35	19.7%		
100 to 199	33	18.5%		
200 to 299	19	10.7%		
300 to 499	28	15.7%		
500 or more	63	35.4%		
Total	178	100.0%		

Code	Region	Colleges/ Universities	School Districts
1	Northwest	8	14
2	West	11	59
3	Rocky Mountain	7	12
4	Great Plains/Midwest	26	13
5	South Central	18	13
6	Southeast	29	48
7	Great Lakes	35	22
8	Middle Atlantic	50	44
9	Northeast	5	2
10	Alaska	1	3



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