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ABSTRACT

This report provides an overview of educator supply and demand, educator under/oversupply, projected areas of greatest demand and need, and information regarding retirement of teachers in Illinois. Major findings include the following: there appears to be a sufficient number of qualified teachers, yet there are still a number of unfilled positions that vary dramatically among regions. The population of Illinois teachers is aging, and the projected number of teachers reaching retirement age is expected to double over the next 5 years. In terms of number of jobs, the top four projected areas of high demand in Chicago are self-contained classrooms, Title I remedial reading, learning disabled, and cross-categorical. The top five projected areas of high demand for downstate school districts are self-contained classrooms, learning disabled, behavior disordered, speech and language impaired, and physical education. When the reserve pool is taken into consideration, undersupply for specifically trained teachers exists in early childhood special education, gifted education, and languages other than English. An oversupply of educators exists in self-contained classrooms and social science. Appendices list educational personnel by main position, 1998-99 supply by teaching assignment, and 1998-99 supply and demand by teaching assignment. (DFR)



Supply and Demand for Education Staff

Illinois State Board of Education **Research Division**

December 1999

Ronald J. Gidwitz, Chairman **State Board of Education**

Glenn W. McGee **State Superintendent of Education**

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Supply and Demand for Education Staff Year One Report

Executive Summary

This study represents a synthesis of a variety of databases housed at the Illinois State Board of Education (ISBE) regarding education staff. The questions guiding this study may be found in the introduction. What follows are those findings most noteworthy.

- There is not a consensus as to whether a national shortage of teachers actually exists.
- As compared to approximately twenty years ago, the teaching force is older, more experienced, with fewer in the first year of teaching, and possesses more formal education. The fact that fewer of today's teachers are in their first year of teaching is especially troubling given that, by some estimates, 50 percent of new teachers leave the profession within the first five years.
- Economics plays a role in whether individuals certified to teach in areas of demand actually enter teaching. For example, Oklahoma has 700 certified math teachers who are not in the classroom, but are in the private sector (at approximately twice the starting salary of teachers).
- A number of limitations to this study are cited from time limitations, inconsistencies in the available data (e.g., position codes in one file not matching another) to the overlap of certificates making it impossible to do any analyses of supply by "type" of teacher.
- There were a total of 10,950 new teachers statewide last year, with 4,728 (43.0%) classified as "re-entries." For every ten new teachers hired in Chicago in 1998-99, five had previous teaching experience. For downstate, this statistic is four in ten for the 1998-99 school year
- Demand data was obtained from three data sources collected by the ISBE Research and Policy Division [Fall Housing Report, Teacher Service Record (TSR), Survey of Unfilled Positions]. For the first report, supply data was queried from the new Teacher Certification Information System (TCIS).
- Aggregate demand is defined as the total number of positions funded by school districts. Since not all funded positions are filled every year, demand is calculated by adding the total number of employed personnel to the number of unfilled positions. If New Demand is examined the number of new teachers hired during the year (new positions) added to the number of unfilled positions Chicago has a higher new demand for personnel than do school districts downstate (12.8% versus 8.0% of total full-time personnel). With specific attention paid to positions of greatest new demand, Chicago shows a higher percent of newly hired elementary teachers (self contained) and guidance counselors, whereas school districts downstate



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show a relatively high new demand for special education teachers and psychologists.

- Findings regarding the supply of education staff must be viewed with caution. Supply is
 defined in this study as the number of individuals completing approved programs of
 teacher education (new supply) and the number of active certificates for individuals who
 are not currently working in education (reserve pool). When comparing new supply of
 teachers by subject area against new demand, the areas of under-supply are, by
 endorsement area, self-contained classroom, bilingual, vocal music, early
 childhood special education and instrumental music.
- When the reserve pool is taken into consideration, the picture shifts with regard to specifically trained teachers. The under-supply areas are: early childhood special education, gifted education and other English. An over-supply of educators exists in all other areas, but especially in the areas of self-contained classroom and social science, at least at the state level.
- In terms of the number of jobs, the top four projected areas of high demand in Chicago are self-contained classroom, Title I remedial reading, learning disabled and cross-categorical. The top five projected areas of high demand for downstate school districts are: self-contained classroom, learning disabled, behavior disordered, speech and language impaired and physical education.
- In terms of "greatest need," defined as the number of unfilled positions, the areas of highest need in Chicago were: self-contained classroom, physical education, learning disabled and art. Downstate districts had difficulty in filling positions in speech and language impaired, other/general special education, behavioral disordered and cross-categorical.
- There appears to be a sufficient number of qualified teachers, yet there is still an alarming number of unfilled positions which varies dramatically between regions. The question(s) remains: how do schools fill these voids? The bottom line does it have a detrimental effect on student learning?
- Illinois is expected to experience a modest two percent increase in PreK-12 enrollment over the next three years.
- The population of Illinois teachers is aging. In 1993, there were 14,897 teachers in the "50-54" age group. In 1998, this number swelled to 24,262. The most significant change is in the 50+ group, which increased from 26.4 percent to 34.5 percent of the total workforce between 1993 and 1998.
- The projected number of teachers reaching retirement age is expected to double over the next five years. Currently, there are 10,147 full-time teachers that are over 55 years of age and that have 20 or more years of experience. That number is expected to balloon to 20,458 by the year 2004.
- Currently, 10.3 percent of those who are eligible to retire actually retire. If this trend continues, the number of retirements will increase from 1,045 in 1999 to 2,107 in 2004.
 If the retirement rate increases an average of 1.2 percentage points a year (i.e., from



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10.3% to 16.3%), the number of retirees will triple, from 1,045 to 3.053 in the next five years.

In closing, future plans include analyzing the data used in this study regarding average age of education staff and years of experience to determine if Illinois will suffer from the aging of its education staff (i.e., the retirement "bubble"), analyzing and determining trend information surrounding the attrition and retention of education staff by subject area, revising current data collection instruments in order to ensure consistency and compatibility and working with Illinois' neighboring states to begin a regional data collection effort around the issue of teacher supply and demand.



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Foreword

This report is being submitted to fulfill the requirements of PA 91-102. This statute requires the Illinois State Board of Education to report, on or before January 1 each year to the Governor, the General Assembly and institutions of higher education on the relative supply and demand for education staff of the public schools.

This report provides an overview of the areas of educator supply, educator demand, educator under/over supply, projected areas of greatest demand and need (*the answers to the questions specified in statute*) and the information regarding retirement of teachers in Illinois.



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Introduction

Throughout the nation there is a concern that public education will not have enough high-quality teachers to staff the classrooms of tomorrow. Arguably, attracting and retaining high-quality teachers is the most important challenge facing public education in the coming decade. A variety of statistics have been offered, widely publicized and strenuously argued regarding the demand for new teachers. The most recent statistic cited is that there will need to be two million new teachers hired over the next ten years. However, there is not total agreement that a shortage of teachers actually exists – some suggesting that a national shortage of teachers is a ploy to urge the federal government to spend billions more on education.

The face of teaching has changed over the last twenty years. In 1976, a teacher tended to be a white female with a bachelor's degree. The national teaching force had a median experience level of eight years and a median age of 33, with 5.5 percent of the force in their first year of teaching. Two decades later, a typical teacher is still a white female but now holds a master's or doctoral degree. Classroom teachers now have a median experience level of 15 years and a median age of 44, with 2.1 percent in their first year of teaching. Of particular importance is that the teaching force is now older, with more experience and with fewer recent college graduates. This is at a time when new teachers are leaving the profession at an alarming rate. Some estimates claim that up to 50 percent of first-timers leave teaching within the first five years.

To attract teachers to their classrooms, states across the country are becoming creative. Massachusetts, for example, offers a \$20,000 signing bonus. Other states offer loan forgiveness packages. States and cities with large influxes of people (e.g., Texas, California, Las Vegas, Nevada) advertise nationally, offering attractive packages for teachers to come and work in their locale. Some states are offering these packages to teachers of neighboring states, snapping up new and experienced teachers to the detriment of their neighbors.

According to Bradley (1999), Connecticut, Minnesota, New York, Pennsylvania and Wisconsin produce more teachers than are hired by their schools, whereas California, Florida, Nevada and Texas generally are straining to hire teachers across the board. An under-supply of teachers is also noted for specific subject areas. In Oklahoma, for example, people certified to teach math (one of the highest demand fields nationally) are not working in schools. Oklahoma has more than 700 certified math teachers who are not teaching the subject. The reason given – starting teachers earn \$24,060, while recent college graduates who majored in math can earn \$40,000 to \$50,000 in the computer field.

Closer to home, within a region comprised of Wisconsin, Illinois, Indiana, Michigan and Ohio, physics and technology education are in high demand, as are all the special education fields. Three of four elementary fields are reported as "some surplus," while home economics/family and consumer science are reported as shortage areas. Historically, math and science teachers have been in short supply, as have special education teachers.

Illinois has a long history of collecting information regarding currently employed teachers. Information is collected annually on certified personnel through the Teacher Service Record data collection effort. Until recently, data on the number of teachers entering into programs of teacher education, the number completing programs and the perceived shortage or surplus areas were also collected. These sources of information were then combined into a document describing the



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supply of and demand for certified staff in Illinois and also used to identify shortage areas. However, institutions of higher education did not know about or did not use this information to inform entrance policies to schools and colleges of education.

Unfortunately, the Illinois State Board of Education (ISBE) did not have legislative authority to collect the information required for the supply-side analysis from institutions of higher education. Therefore, these self-reported data were sketchy, untimely or non-existent for certain years. More recently, the Illinois General Assembly empowered ISBE to collect information on the relative supply and demand of educators.

Senate Bill 556, passed in the spring of 1999 and enacted this summer (PA 91-102), requires that ISBE annually report on the relative supply and demand for education staff in public schools. As stated in the legislation, the report shall contain the following information:

- 1. The relative supply and demand for teachers, administrators and other certificated, and non-certificated personnel by field, content area and levels;
- 2. State and regional analyses of fields, content areas and levels with an over/under supply of educators; and
- 3. Projections of likely high/low demand for educators in a manner sufficient to advise the public, individuals and institutions regarding career opportunities in education.

The report that follows represents the first attempt to respond to the legislative requirements. Given the timeframe for submitting the report (bill signed at the end of July – report due by January 1, 2000), no new data collection efforts were implemented. This report is based on existing data collected by the Illinois State Board of Education.

Data Sources and First Year Limitations

DATA SOURCES

Demand data were obtained from three data sources collected by the ISBE Research and Policy Division [Fall Housing Report, Teacher Service Record (TSR), Survey of Unfilled Positions]. The past three years of data from the Fall Housing Report were used to calculate enrollment trends and projections at the state level. The total number of positions, by subject area and level, were calculated by adding the total number of teachers employed to the number of unfilled positions. These data were obtained from the Teacher Service Record (TSR) and the Survey of Unfilled Positions, respectively.

In subsequent years, the TSR terminations data will be used to examine other demand factors such as turnover, retention and mobility. Of particular interest is the aging teaching force and the retention percent of first-time teachers. Where possible, we will also look at the number of teachers that left Illinois to teach in another state and the number of public school teachers that transferred to private schools.



For the first report, supply data was queried from the new Teacher Certification Information System (TCIS). The total supply of teachers consists of: a) the current teaching force, b) the number of recent graduates, and c) an estimate of the "reserve pool." The current teaching force was obtained from the TSR data, and to provide more information, new teachers were broken down into two categories: "re-entries" and "first-timers."

FIRST YEAR LIMITATIONS

There were a number of factors that contributed to the limitations of this first report. These limitations are noted below:

- The law was passed in July, therefore, there was insufficient time to design and implement a study of this magnitude. For instance, there was not enough time to collect information from higher education institutions, or to do analyses of enrollment trends, attrition, retention and retirement phenomena.
- The inability to obtain the necessary and complete in-house data for previous years which would allow us to do projections or trends.
- Inconsistencies in available demand data. Education positions on the Unfilled Positions Survey do not match those on the Teacher Service Record.
- Supply data were not received until the last week in November leaving little time for analysis or verification.
- There is no meaningful way to determine "regional supply." We attempted to use the number of registered certificates in each region, but teachers can register in multiple regions or can get a new job and register that day. Also, a good number of certificates have not yet been put in to the new Teacher Certification Information System.
- Nearly fifty percent of the certificates issued do not have an endorsement attached, therefore, they cannot be linked to a specific subject area. Also, a single person can have multiple endorsements which will overestimate supply.
- Overlap of certificates makes it impossible to do any analyses of supply by "level." For example, an "03" certificate is good for grades K-9, while an "09" is good for grades 6-12. Either can be endorsed at the middle and/or junior high level (6-8). To further complicate matters, there is a type "10" which is good for grades K-12.
- We do not have data on teacher/student ratios by region or subject area to do projections" in a manner sufficient to advise the public, individuals and institutions regarding career opportunities in education."



Response to the Questions

Relative Supply and Demand

DEMAND

Aggregate demand is defined as the total number of positions funded by school districts. Since all funded positions are not filled every year, demand is calculated by adding the total number of employed personnel to the number of unfilled positions. The number employed was obtained from the 1998-99 Teacher Service Record (TSR) while the number of unfilled positions is from the 1998 Survey of Unfilled Positions.

The 1998-99 TSR database contains 148,136 records. Nearly all personnel employed were classified as full time (i.e. 141,778) which has been defined as: [Months Employed > 8 and Percent Employed > 99%]. For a detailed breakdown of full vs. part time personnel by position, see Appendix A. Since part time personnel make up a small percentage of the cases and are likely to have multiple assignments, they were excluded from this study. All subsequent analyses in this study will contain only full time personnel.

A breakdown of full time personnel by main position is shown in **Table 1**. In sum, there were 8,100 administrators, 121,179 instructors, 7,307 professional and 5,192 otherwise certified staff employed in the 1998-99 school year. One approach would be to add the 141,778 full time personnel to the 1937.9 unfilled positions reported in the 1998 Unfilled Positions Survey resulting in an aggregate demand of 143,715 (or 150,074 if including the part-timers). Demand in the aggregate, however, is of little use for planning and policy making.

Thus, to make the information more useful it was analyzed in two additional ways. First, *New Demand* was calculated – that is the number of new teachers hired this year added to the number of unfilled positions. Most people, including some "national experts," equate the term "new teachers" solely with first-year teachers. However, there are two types of new teachers: "Beginners" (i.e. less than one year of teaching experience) and "Re-entries" (i.e., have previous teaching experience, but did not teach last year). As **Table 2** shows, there were a total of 10,950 new teachers last year. Of those, 43% (4,728) were "Re-entries." While the phenomena may vary widely between states, in Illinois "Re-entries" have made up 40% or more of the pool of new teachers for the last five years. The number of "Re-entries" is important because they represent a significant source of supply for needed teachers.

The second way an attempt was made to make the data more useful was to do separate demand analyses for Chicago and downstate. If you look in the last column in **Table 3**, you will see that the total New Demand Downstate was 9,541 or 8% of total downstate full time personnel (113,664). Also of interest is that the total number of new positions downstate consists of 41% "Re-entries" and 59% "Beginners." Thus, for every ten new teachers hired in 1998-99, four of them had prior teaching experience.

This is in sharp contrast to the data in **Table 4** which shows the new positions in Chicago are split 50/50 between "Beginners" and "Re-entries," and that the total New Demand, although smaller in number (3,304 vs. 9,541), constitutes a significantly higher percentage of their personnel (ie.12% vs. 8%). New Demand also varies significantly by position. For instance, Chicago shows relatively high demand for **elementary teachers and guidance counselors** (14% each), while downstate demand is more pronounced for **special education teachers (14%) and psychologists (15%)**.



SUPPLY

The supply of public school teachers in any year is defined as the number of eligible individuals who are willing to work under the prevailing conditions. In economic terms, supply would include any qualified individual who: currently holds a teaching position, seeks to enter the profession or would enter the profession if a suitable position existed. Unfortunately, there is no known data source that would enable us to calculate supply from this definition! The number of "Beginners" could be used as an indicator of "people seeking to enter the profession," however, we only know how many successfully entered, not how many were actively seeking. Likewise, the number of "Re-entries" is a subset of the total number of people who attempted to enter the profession due to the opening of a suitable position.

On the other hand, what can be measured, with a moderate degree of precision, is: a) the current teaching force, b) the number of recent graduates, and c) an estimate of the "reserve pool."

The current teaching force was obtained from the TSR data and is shown in Tables 1, 2, 3 and 4 in various configurations (i.e., State, Downstate and Chicago full time totals). These numbers can be confusing because they represent both supply and demand, or more accurately – where supply and demand are equal. For the first report, plans were to derive the number of recent graduates and an estimate of the Reserve Pool from the new Teacher Certification Information System (TCIS). The supply data should be viewed as a first step in what has been a very difficult and confusing endeavor.

The number of new graduates was determined by the number of entitlement notifications reported between July 1, 1998 and June 30, 1999. In Illinois, there are 55 colleges that offer approved teacher education programs. When a student has met the requirements of an approved program, the institution notifies the State Board which teaching certificates and endorsements the student is entitled to receive. This information is collected annually so it is more efficient and accurate than sending another survey to the institutions. Another benefit of using Entitlements is that they include people who have completed an approved program, as well as previous graduates who have received additional credentials. Although it could not be done this year due to time constraints, next year a new component will be added: the number of new certificates issued (by area) for each fiscal year. By tracking these numbers, it should be possible to derive a more accurate measure of the Reserve Pool and determine attrition rates between entitlement and certification.

The Reserve Pool was defined as the number of active endorsements of educators who are currently not working. To limit the pool to candidates that were more likely to re-enter the workforce, the query was restricted to endorsements issued in the last 20 years (i.e., July 1979 to June 1999).

As noted in the Limitations section, there is an inordinate amount of overlap between certificates so it is impossible to conduct an analysis of supply by level. Thus, the decision was made to collapse the levels and use endorsement areas to identify the number of new graduates and to estimate the Reserve Pool by subject area. One caveat to add is that one person can have multiple endorsements, therefore, the number of entitlements and the Reserve Pool contain duplicate counts. In fact, an analysis of the first year of entitlements found there were 19,032 endorsements for 10,968 individuals (or an average of 1.7 per person). On the other hand, only 50% of issued certificates contain an endorsement. For a complete list of the certificates and endorsements tied to each teaching assignment, see **Appendix B**.



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State and Regional Analyses of Over- and Under-Supply

In the past, issues of over- or under-supply were determined by comparing *New Supply* [new graduates + "Re-entries"] to *Total Demand* [first-timers + "Re-entries"]. This approach is problematic for a number of reasons. First of all, the potential supply is much larger than the sum of the current year's graduates and "Re-entries," The Reserve Pool also includes a good number of graduates from previous years that have never taught, as well as any "Re-entries" applicants that were not hired. Secondly, total demand should also include unfilled demand or the number of "unfilled positions." In fact, since they represent demand for which there was no supply (at the given price offered) unfilled positions are a good indicator of "under-supply," especially at the regional level.

As mentioned previously, the TCIS database was used to estimate New Supply [= the number of new graduates (i.e., using #-of entitlements)] by subject area. These were compared to New Demand [= first timers + unfilled positions] to determine areas of over- and under-supply at the state level. Table 5 shows the subject areas rank ordered from the highest under-supply to the highest over-supply. According to this analysis, the greatest area of under-supply of new graduates is for Self Contained classroom teachers (-695). This area also has the largest number of unfilled positions (545) which indicates a relatively high need. If one disregards areas for which we have no supply data (e.g., Cross Categorical; Other/General Special Ed.), the other highest under-supply areas are: Bilingual (-175), Vocal Music (-90), Spec. Ed. Early Childhood (-71) and Instrumental Music (-67). Gifted education (-20) should also be considered due to the low number in the Reserve Pool (18).

For the second analysis, Total Demand was subtracted from the Reserve Pool to get a feel for the "big picture." In **Table 6**, the subject areas are rank-ordered from highest under-supply to highest over-supply using [Reserve Pool – Total Demand] to calculate relative supply. In this scenario, only ten areas show an under-supply. Of those, seven show low-supply because a viable estimate of the Reserve Pool is unavailable. Thus, according to this analysis, there are only three known areas of under-supply: **Special Education Early Childhood (-129), Gifted Education (-32) and Other English (-11)**. All of the other areas show a considerable over-supply. In fact, Self Contained classroom is the highest on the list with an over-supply of 95,079. Social Science is next with a surplus of 30,246.

As this last analysis indicates, if one takes the Reserve Pool into consideration, there are very few areas of under-supply in Illinois at the current time – at least at the state level. But it also raises an interesting question – if the Reserve Pool is so big, why are there so many unfilled positions? It could be argued that the Reserve Pool is over-estimated since people are likely to have endorsements in more than one area. But even if each educator held two endorsements, that argument is easily countered by the fact that the pool only represents 50% of the certificates issued (since half of them do not have endorsements). A more plausible explanation is that the unfilled positions represent jobs that qualified candidates are unwilling to take "given the prevailing conditions." Be it geographical, monetary or any one of a dozen other environmental variables (including hiring inefficiency) for some reason, 512 Self Contained classroom positions were not filled in Chicago and 135 Speech and Language Impaired positions were not filled downstate.



Projections of Likely High/Low Demand

The most commonly used technique for projecting demand is to multiply projected student enrollments by current (or extrapolated) teacher-pupil ratios. This method can only be used at the aggregate level in Illinois. Projections through the year 2002, based on enrollments for the 1998-99 school year, are shown below in **Table 7**. Over the three year period, an additional 2,324 teachers will be needed due to enrollment growth. The teacher-pupil ratios used were 1:19.6 (elementary) and 1:18.1 (high school).

Table 7: Additional Teachers Needed Due to Enrollment Growth

| | Elementary | High School | |
|---------------|------------|--------------|--|
| 1998-99 State | | - | |
| Enrollment | _1,449,232 | 562,298 | |

| | Enrollment Growth | Additional Teachers Needed | Enrollment Growth | Additional Teachers Needed |
|---------|----------------------|-------------------------------|--------------------------|-------------------------------|
| 1999-00 | 10,262 | 524 | 7,433 | 411 |
| 2000-01 | 16,274 | 830 | 6,287 | · 347 |
| 2001-02 | 3,876 | 198 | 245 | 14 |

| | | A STATE OF THE STA | |
|------------------|---|--|---|
| Three Year Total | 1,552 | | . 772 |
| FO 99.41 | per announce mass must be a community of the second | **** | the second of the second of the second of |
| [2,324] | | * * * * * * * * * * * * * * * * * * * | |

Enrollment growth is only one part of the equation. In order to do accurate projections of need, we also need to know how much of the teaching force is retained from year to year. Or conversely, how many teachers leave (i.e., the attrition rate). The number needed due to attrition is then added to the number needed due to enrollment growth to project the total number of teachers needed in subsequent years.

Since attrition or retention data are unavailable, the best estimate of high demand in the near future is this year's high demand areas. High demand can be defined in two ways, first, by the sheer number of new jobs (New Demand), and second, by high need (i.e., Unfilled Positions). To determine the "high demand areas" by New Demand, the total number of new positions ("Reentries" + "Beginners") were added to the number of Unfilled Positions. Separate analyses were then run for Chicago and downstate by main teaching assignment.



In Chicago, the ten biggest New Demand areas are:

| Main Assignment (Chicago) | New Demand |
|----------------------------|---------------|
| Self Contained Classroom | 1,373 |
| Other Subject (not listed) | 228 |
| Title I Remedial Reading | 154 |
| Learning Disabled | 140 |
| Cross Categorical | 115 |
| Physical Education | 107 |
| Bilingual Education | 96 |
| English | 86 |
| Art | 78 |
| Other/General Special Ed. | 50 |
| Behavior Disordered | 42 |

See Table 8 for the complete list of New Demand by subject area for Chicago.

For areas in Illinois, other than Chicago, the ten biggest New Demand areas are:

| Main Assignment (Downstate) | New Demand |
|------------------------------|---------------|
| Self Contained Classroom | 2,349 |
| Learning Disabled | 545 |
| Behavior Disordered | 353 |
| Speech and Language Impaired | 342 |
| Physical Education | 339 |
| English | 318 |
| Language Arts | 307 |
| Cross Categorical | 301 |
| Basic/General Math | 261 |
| Bilingual Education | 249 |

See Table 9 for the complete list of New Demand by subject area for downstate.



The Unfilled Positions Survey is one of the most important pieces of this study. In December of each year, districts report the number of positions that are still unfilled. These unfilled positions represent demand that is likely to go unfilled for the school year and thus, are a good indication of high need within a district. For a list of unfilled positions by subject area, see Tables 8 and 9 (Note: fields with "N/A" indicate areas not on the Unfilled Positions Survey).

The top categories of unfilled positions for Chicago and downstate are listed below:

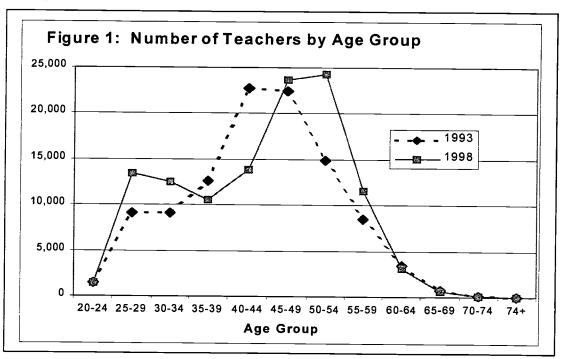
| Main Assignment (Chicago) | Unfilled Positions |
|----------------------------------|--------------------|
| Self Contained Classroom | 512 |
| Physical Education | 66 |
| Learning Disabled | 55 |
| Art | 48 |
| Voc. Tech. Business, Mkt. & Mgt. | 21 |
| Basic/General Math | 18 |
| Behavior Disordered | 17 |
| English | 17 |
| Spec. Ed. Early Childhood | 15 |
| Educationally Handicapped | 14 |

| Main Assignment (Downstate) | Unfilled Positions |
|------------------------------|--------------------|
| Speech and Language Impaired | 135.4 |
| Other/General Spec Ed. | 115.1 |
| Behavior Disordered | 84.5 |
| Cross Categorical | 83.0 |
| Physically Handicapped | 48.0 |
| Bilingual Education | 34.5 |
| Self Contained Classroom | 31.0 |

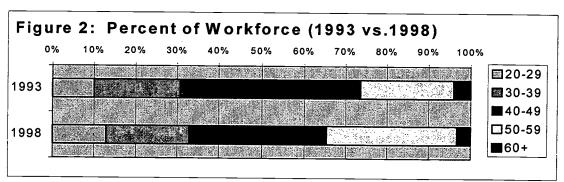


Retirement

The population of Illinois teachers is aging. When compared to the 1993 workforce, the peak of the distribution has moved from the "40-44" age group to the "50-54" age group (see Figure 1). The graph also shows the greater number of teachers in the "25-29" and "30-34" age groups. While the total number of teachers age 55 or older has changed moderately since 1993 (i.e., from 12% of the workforce to 13%), the number of teachers in the "50-54" age group has changed dramatically. In 1993, there were 14,897 teachers in the "50-54" age group. In 1998, the number swelled to 24,262.



It is this group that will create the "retirement bubble" in the next five years. Figure 2 shows the composition of the workforce by 10-year age groups. The most significant change is in the 50+ age group which increased from 26.4% to 34.5% of the total workforce between 1993 and 1998.



Due to the aging of the Illinois workforce, the projected number of teachers reaching retirement age is expected to double over the next five years. Currently, there are 10,147 full time teachers that are over 55 years of age and that have 20 or more years of experience. That number is



expected to balloon to 20,458 by the year 2004. If the percent who actually retire remains constant, the estimated number of retirements will also double in the next five years. For example, over the last two years, 10.3% of those eligible have actually retired. If this trend continues, the number of retirements should increase from 1,045 in 1999, to 2,107 in 2004 (see Table 10).

Table 10. Projected Number of Teachers Eligible to Retire

| | # Eligible to Retire | Estimated Retirements |
|------|----------------------|-----------------------|
| 1999 | 10,147 | 1,045 |
| 2000 | 11,790 | 1,214 |
| 2001 | 14,013 | 1,443 |
| 2002 | 16,461 | 1,696 |
| 2003 | 18,510 | 1,907 |
| 2004 | 20,458 | 2,107 |

Eligible = 55+ years old AND 20+ years experience.
Estimated Retirements = 10.3% of Eligible (based on the last two years data)

Things are unlikely to remain constant, however. Since the teaching force is aging, it is more likely that an increasing percent of those eligible will actually retire. If the percent of the eligible that actually retires increases an average of 1.2% a year (i.e. from 10.3% to 16.3%), the number of retirees will triple, from 1,045 to 3,053, in the next five years.

Other policy decisions, such as early retirement incentives, will have a significant impact on the percentage of those eligible who actually retire. When the Early Retirement Option was first offered in 1993-94, 6,690, or 66.2% of those eligible retired! It would be prudent to assume that at least 50% of those eligible will retire if it is offered again.



Future Plans

At the state level, trends of over- and under-supply will be tracked to project areas of high and low demand. Regional trends regarding enrollments, turnover and retention will also be reported. Plans also call for an analysis of average age and years of experience to determine if Illinois will be affected by a "retirement bubble" (i.e., a large cohort of educators reaching retirement age in the next 5-10 years).

A teacher supply-demand projection model consists of three main components or sub-models: 1) demand for teachers, 2) the supply of teachers retained from year-to-year (or conversely, a model of teacher attrition), and 3) the supply of entrants into the teaching force. Specifics regarding each component follow.

Teacher Demand. The most commonly used technique for projecting demand is to multiply projected student enrollments by current (or extrapolated) teacher-pupil ratios. This method could be used in Illinois, but only at the aggregate level. To be of real use in policy making, data such as district teacher-pupil ratios by subject and/or grade level, need to be collected.

Teacher Retention and Attrition. The primary source of teacher supply is last year's teaching force. Nationally, between 92 and 96 percent of a state's teachers return the following year. The projected number of teachers retained, equals the current year's teaching force, multiplied by the retention rate for the same year. Once the number-retained is known, it is subtracted it from projected demand to obtain the number of new teachers that need to be hired. To make better predictions, ISBE staff will analyze and determine trends on attrition and retention by subject area, in the near future.

Entering Teachers. There are four sources of supply for potential entrants: the reserve pool, recent graduates, out-of state teachers and private school teachers. As stated above, subtracting the projected number of retained teachers from projected demand derives the number of entrants needed. The projected number of entrants is then compared to the projected supply of entrants to determine the adequacy of the supply and hence, likely shortages or overages. Once the TCIS database is updated and online, it should be possible to get better estimates of the Reserve Pool. One way to do this is to have annual totals of new certificates and endorsements issued and also to have five- and ten- year cumulative totals. To get a better picture of out-of-state supply, the State Board recently began a joint supply and demand data collection and sharing effort with the other six North Central Regional Educational Laboratory (NCREL) states. Although the process has just started, it is hoped that a common set of definitions and preliminary supply data will be available within the next year.

Pipeline Data. In addition to the number of education graduates by field, in the near future, enrollment data from all 55 teacher-preparation programs will be included. ISBE is working closely with the Illinois Board of Higher Education (IBHE) and representatives from various colleges and universities to develop a common system for all institutions to report program applications, enrollments and completions by gender and ethnicity. The difficulty in the past has been the refusal of some institutions to respond to ISBE inquiries since this agency does not have the authority to collect the information. Furthermore, ISBE's definitions and timelines differed significantly from those of IACTE/NCATE which caused confusion and duplicated effort. The IBHE/ISBE Work Group was created to overcome this obstacle by developing a common set of data definitions and a single database that will allow institutions to respond to requests from ISBE,



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IBHE, IACTE/NCATE and the new Title II Institutional Report Card requirements. In order to accomplish this, ISBE will need to devote resources to develop and maintain a data warehouse and interface for accessing this data. A good amount of planning has already occurred and a proposal for the design and implementation of a shared data warehouse was presented to the Joint Education Committee in October of this year.

Revision of Current Data Collection Methods. As a result of this study, the 1999 Unfilled Positions Survey was completely revised this fall to correspond to the TSR data fields. Work still needs to be done, however, to improve the ability to match teaching credentials (certificates and endorsements) to positions and teaching assignments. One idea that has received strong support from both the Certification Board and Agency staff, is to combine the TSR and TCIS data collection efforts. Most of the TSR data is currently imported into the TCIS system so it would be more efficient to enter it there. It would also immensely increase the timeliness and availability of the data.



Definition of Terms

DEMAND

Beginner:

A first time teacher. This status is calculated from the TSR data field "total years experience." The definition is: {teaching experience is less than or

equal to one year}

New Demand:

= {Total New Positions + Unfilled Positions}

or

= {"Re-entries" + "Beginners" + Unfilled Positions}

Re-entry:

A teacher who has prior teaching experience but did not teach in an Illinois

public school the prior year (i.e., 1997-98).

State FT:

= Total of FT (full time) personnel by position/teaching assignment. Full time

was defined by two TSR fields: Months employed and percent time

employed. The definition for full time status is: {Months > 8 & Percent

time >99}

Total New Positions:

= {Number of "Re-entries" + number of "Beginners"}

Unfilled Positions:

Number of FT positions reported unfilled as of December 1998 by each

Illinois public school district on the Unfilled Positions Survey.

SUPPLY

Entitlements:

The number of endorsements reported between July 1, 1998 and June 30, 1999. Each college reports the number of certificates and endorsements that each student is eligible to receive. Students become eligible once they have completed a program's requirements. Program requirements vary widely between certificates and between endorsement areas. These counts

may be duplicates as one person can hold an unlimited number of

certificates or endorsements.

Reserve Pool:

The number of endorsements of educators currently not working. To limit the pool to candidates with a high probability of re-entering the workforce, only endorsements issued between July 1, 1979 and June 30, 1999 were

included.

Endorsements:

A credential on a certificate indicating the educator has met the minimum

requirements for that subject area.



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Tables and Appendices



Table 1: Full Time Personnel -- 1998-99 [All]

| | n | Total |
|----------------------|-------|-------|
| ADMINISTRATIVE | 14. | 8,100 |
| Regional Supt. | 45 | |
| Asst. Regional Supt. | 47 | |
| District Supt | 853 | |
| Admin Assistant | 194 | |
| Asst. District Supt. | 293 | |
| Business Manager | 167 | |
| Elem Princ | 2,271 | |
| Asst Elem Princ | 359 | |
| Jr High Princ | 549 | |
| Asst. Jr. High Princ | 347 | |
| HS Princ | 717 | |
| Asst HS Princ | 660 | |
| Jr High Dean | 109 | |
| Sr High Dean | 454 | |
| Director | 896 | |
| Assistant Director | 81 | |
| Deputy Supt. | 12 | |
| Other Admin | 6 | |
| Associate Supt. | 40 | |

| INSTRUCTIONAL STA | 121,179 | |
|--------------------------|---------|--|
| Spec Ed Teacher (all) | 19,833 | |
| Elem Teacher | 55,084 | |
| Jr/Middle Teacher | 16,731 | |
| HS Teacher | 29,531 | |

| PROFESSIONAL STA | \FF | 7,307 |
|---------------------|-------|-------|
| Guidance Counselor | 2,831 | |
| Psychologist | 1,322 | |
| Social Worker | 2,187 | |
| Nurse | 953 | |
| Intern Psychologist | 10 | |
| intern Soc Worker | 4 | |

| OTHER CERTIFIED STA | FF | 5,192 |
|--------------------------|-------|-------|
| Library/Media Specialist | 1,892 | |
| Instructional TV | 1 | |
| Adult Education | 89 | |
| Attendance Officer | 42 | |
| Occupational Therapist | 9 | |
| Physical Therapist | 16 | |
| Audiologist | 6 | |
| Diagnostician | 38 | |
| Supervisor | 512 | |
| Consultant | 925 | |
| Coordinator | 1,662 | |

TOTAL 141,77



Table 2: Full Time Personnel -- 1998-99 [All]

| Table 2: Full Time | | | | Re-Ent | AIIJ | | | Begin | ners | | | |
|--------------------------|----------|-------------|---------------|---------|-------|-----|---------------|-------|-------|------------|--------|------|
| | | E [FT] | Down State | Chicago | TOTAL | % | Down State | | | % | Total | New |
| ADMINISTRATIVE | <u> </u> | 8,100 | 136 | 17 | 153 | 2% | 12 | 0 | 12 | 0% | 165 | 2% |
| Regional Supt. | 45 | | | | - | | | | | | | |
| Asst. Regional Supt. | 47 | | | | | | | | | | | |
| District Supt. | 853 | | 14 | | 14 | 2% | | | | | 14 | 2% |
| Admin Assistant | 194 | | 5 | | 5 | 3% | 1 | | 1 | 0.5% | 6 | 3% |
| Asst. District Supt. | 293 | | 5 | 1 | 6 | 2% | | | | | 6 | 2% |
| Business Manager | 167 | | 5 | | 5 | 3% | 3 | | 3 | 2% | 8 | 5% |
| Elem Princ | 2,271 | | 18 | 6 | 24 | 1% | 1 | | 1 | 0% | 25 | 1% |
| Asst Elem Princ | 359 | | 11 | 3 | 14 | 4% | 1 | | 1 | 0.3% | 15 | 4% |
| Jr High Princ | 549 | | 4 | | . 4 | 1% | | | | | 4 | 1% |
| Asst. Jr. High Princ | 347 | | 12 | | 12 | 3% | | | | | 12 | 3% |
| HS Princ | 717 | | 21 | 1 | 22 | 3% | | | | | 22 | 3% |
| Asst HS Princ | 660 | | 4 | 1 | 5 | 1% | | | | | 5 | 1% |
| Jr High Dean | 109 | | 8 | | 8 | 7% | | | | | 8 | 7% |
| | 454 | | 5 | | 5 | 1% | 4 | | 4 | 1% | 9 | 2% |
| Sr High Dean Director | 896 | | 21 | 3 | 24 | 3% | 1 | | 1 | 0.1% | 25 | 3% |
| Assistant Director | 81 | | 1 | 1 | 2 | 2% | 1 | | 1 | 1% | 3 | 4% |
| | 12 | | 1 | 1 | 2 | 17% | , | | • | | 2 | 17% |
| Deputy Supt. Other Admin | 6 | | ' | • | - | .,, | | | | | _ | |
| | 40 | | 1 | | 1 | 3% | | | | | 1 | 3% |
| Associate Supt. | | | | | | | | | | | | |
| INSTRUCTIONAL STAFF | | 121,179 | 3091 | 1022 | 4,113 | 3% | 4,757 | 1,071 | 5,828 | <u> 5%</u> | 9,941 | 8% |
| Spec Ed Teacher (all) | 19,833 | | 818 | 211 | 1,029 | 5% | 801 | 138 | 939 | 5% | 1,968 | 10% |
| Elem Teacher | 55,084 | | 1229 | 640 | 1,869 | 3% | 1991 | 729 | 2720 | 5% | 4,589 | 8% |
| Jr/Middle Teacher | 16,731 | | 497 | .=. | 497 | 3% | 905 | 204 | 905 | 5% | 1,402 | 8% |
| HS Teacher | 29,531 | | 547 | 171 | 718 | 2% | 1060 | 204 | 1264 | <u>4%</u> | 1,982 | 7% |
| PROFESSIONAL STAFF | | 7,307 | 214 | 64 | 278 | 4% | 285 | 34 | | 4% | 597 | 8% |
| Guidance Counselor | 2,831 | | 68 | 19 | 87 | 3% | 24 | 4 | | 1% | 115 | 4% |
| Psychologist | 1,322 | | 52 | 3 | 55 | 4% | 68 | 1 | 69 | 5% | 124 | 9% |
| Social Worker | 2,187 | | 74 | 23 | 97 | 4% | 155 | 15 | 170 | 8% | 267 | 12% |
| Nurse | 953 | | 20 | 18 | 38 | 4% | 34 | 10 | . 44 | 5 % | 82 | 9% |
| Intern Psychologist | 10 | | | 1 | 1 | 10% | 1 | 4 | 5 | 50% | 6 | 60% |
| Intern Soc Worker | 4 | | | _ | | | 3 | | 3 | 75% | 3 | 75% |
| OTHER CERTIFIED STA | FF | 5,192 | 127 | 57 | 184 | 4% | 40 | 23 | 63 | 1% | 247 | 5% |
| Library/Media Specialist | 1,892 | | 27 | 15 | 42 | 2% | 17 | 13 | 30 | 2% | 72 | 4% |
| Instructional TV | 1 | | | | | | | | | | | |
| Adult Education | 89 | | 2 | | 2 | 2% | 2 | | 2 | 2% | 4 | 4% |
| Attendance Officer | 42 | | 5 | | 5 | 12% | | | | | 5 | 12% |
| Occupational Therapist | 9 | | 1 | 5 | 6 | 67% | 1 | 1 | 2 | 22% | 8 | 89% |
| Physical Therapist | 16 | | 1 | 1 | 2 | 13% | | | | | 2 | 13% |
| Audiologist | 6 | | | | | | | | | | | |
| Diagnostician | 38 | | 2 | | 2 | 5% | | | | | 2 | 5% |
| Supervisor | 512 | | 12 | | 12 | 2% | 2 | | 2 | 0.4% | 14 | 3% |
| Consultant | 925 | | 12 | 25 | 37 | 4% | 4 | 4 | _ | 1% | 45 | 5% |
| Consultant | 1,662 | | 65 | 11 | 76 | 5% | 14 | 5 | | 1% | 95 | 6% |
| | 1,002 | | | | | | | | | | | |
| TOTAL | | 141,778 | 3,568 | 1,160 | 4,728 | 3% | 5,094 | 1,128 | 6,222 | 4% | 10,950 | 7.7% |

Full Time= (Months Employed>8 & Percent Time Employed>99): Re-entry= prior teaching experience but not in last year's TSR file Beginner= less than 1year teaching experience

Table 3: New Demand by Position -- Downstate 1998-99

| Table 3: New De | mano | by Po | SILIOI | 1 L | JOWII | State | 1330- | ·99 | | | | |
|---------------------------|----------|------------|--------|-----|--------|--------|--------------|------|-------|-------|--------|---------------|
| | | | | | | | Total | | | illed | | |
| | Downs | tate [FT] | Re-Ent | | Begin | | Posit | | Posi | | New De | |
| ADMINISTRATIVE | | 7,113 | 136 | 2% | 12 | 0% | 148 | 2% | 21.9 | 0% | 170 | 2% |
| Regional Supt./Asst. Reg. | 92 | | 4.4 | | | | 4.4 | 20/ | | | | -01 |
| District Supt. | 852 | | 14 | | 4 | | 14 | 2% | | | 14 | 2% |
| Admin Assistant | 159 | | 5 | | 1 | | 6 | 4% | | | 6 | 4% |
| Asst. District Supt. | 282 | | 5 | | _ | | 5 | 2% | | | 5 | 2% |
| Business Manager | 165 | | 5 | | 3 | | 8 | 5% | | | 8 | 5% |
| Elem Princ | 1,783 | | 18 | | 1 | | 19 | 1% | | | 19 | 1% |
| Asst Elem Princ | 243 | | 11 | | 1 | | 12 | 5% | | | 12 | 5% |
| Jr High Princ | 549 | | 4 | | | | 4 | 1% | | | 4 | 1% |
| Asst. Jr. High Princ | 347 | | 12 | | | | 12 | 3% | | | 12 | 3% |
| HS Princ | 621 | | 21 | | | | 21 | 3% | | | 21 | 3% |
| Asst HS Princ | 522 | | 4 | | | | 4 | 1% | | | 4 | 1% |
| Jr High Dean | 109 | | 8 | | | | 8 | 7% | | | 8 | 7% |
| Sr High Dean | 454 | | 5 | | 4 | | 9 | 2% | | | 9 | 2% |
| Director | 811 | | 21 | | 1 | | 22 | 3% | | | 22 | 3% |
| Assistant Director | 73 | | 1 | | 1 | | 2 | 3% | | | 2 | 3% |
| Deputy Supt. | 11 | | 1 | | | | 1 | 9% | | | 1 | 9% |
| Other Admin | 0 | | | | | | | | | | | |
| Associate Supt. | 40 | | 1 | | | | 1 | 3% | | | 1 | 3% |
| INSTRUCTIONAL STAF | | 97,540 | 3091 | 3% | 4,757 | 5% | 7,848 | 8% | 724.4 | 1% | 8,572 | 9% |
| Spec Ed Teacher (all) | 15,793 | 31,040 | 818 | | 801 | | 1,619 | 10% | 558.4 | 4% | 2,177 | 14% |
| Spec Lu Teacher (all) | 15,735 | | 0.0 | | 001 | | 1,013 | 1070 | 330.4 | 7 70 | 2,177 | 14 70 |
| Elem Teacher | 40,191 | | 1229 | | 1991 | | 3,220 | 8% | 54.1 | 0% | 3,274 | 8% |
| | | | | | | | | | | | | |
| Jr/Sr High ¹ | 41,556 | _ | 1044 | | 1965 | | _3,009 | 7% | 111.9 | 0% | 3,121 | 8% |
| PROFESSIONAL STAFF | : | 5,598 | 214 | 4% | 285 | 5% | 499 | 9% | 75.3 | 1% | 574 | 10% |
| Guidance Counselor | 2,011 | | 68 | | 24 | | 92 | 5% | 11.5 | 1% | 104 | 5% |
| Psychologist | 1,079 | | 52 | | 68 | | 120 | 11% | 43.3 | 4% | 163 | 15% |
| Social Worker | 1,828 | | 74 | | 155 | | 229 | 13% | 13.5 | 1% | 243 | 13% |
| Nurse | 675 | | 20 | | 34 | | 54 | 8% | 7.0 | 1% | 61 | 9 % |
| Intern Psychologist | 1 | | | | 1 | | 1 | 100% | | | 1 | 100% |
| Intern Soc Worker | 4 | _ | | | 3 | | 3 | 75% | | | 3 | 75% |
| OTHER CERTIFIED STA | \FF | 3,413 | 127 | 4% | 40 | 1% | 167 | 5% | 16.1 | 0% | 183 | 5% |
| Library/Media Specialist | 1,408 | <u>-</u> - | 27 | | 17 | | 44 | 3% | 16.1 | 1% | 60 | 4% |
| Instructional TV | 1 | | | | | | - | | | | 1 | |
| Adult Education | 88 | | 2 | | 2 | | 4 | 5% | | | 4 | 5% |
| Attendance Officer | 41 | | 5 | | | | 5 | 12% | | | 5 | 12% |
| Occupational Therapist | 2 | | 1 | | 1 | | 2 | 100% | | | 2 | 100% |
| Physical Therapist | 1 | | 1 | | | | 1 | 100% | | | 1 | 100% |
| Audiologist | 5 | | | | | | | | | | | |
| Diagnostician | 38 | | 2 | | | | 2 | 5% | | | 2 | 5% |
| Supervisor | 500 | | 12 | | 2 | | 14 | 3% | | | 14 | 3% |
| Consultant | 252 | | 12 | | 4 | | 16 | 6% | | | 16 | 6% |
| Coordinator | 1,077 | | 65 | | 14 | | 79 | 7% | | | 79 | 7% |
| Other | 1,077 | - | 00 | | 1-7 | | | 1 70 | 41.2 | | 41.2 | 1 /0 |
| | = | 446.55 | 0.500 | 001 | r 00 : | 4 501 | | | | | | |
| Total | = | 113,664 | 3,568 | 3% | 5,094 | 4.5% | <u>8,662</u> | 7.6% | 879 | 0.8% | 9,541 | _8. 4% |

Junior and Senior High are collapsed on the Unfilled Positions Survey, so the TSR data was combined to be compatible. e: All percents reflect percentage of Downstate full time personnel.

Table 4: New Demand by Position -- Chicago 1998-99

| Table 4. New Deli | | | | | | | | l New | Und | illed | | |
|--------------------------------|-------|---------|-------|--------|-------|----------|-------|--------|-------|-------|-----------------|-------------|
| | Chica | go [FT] | Re-Ei | ntries | Begin | ners | 11 | itions | 1 1 | tions | | lew mand |
| ADMINISTRATIVE | | 987 | | 1.7% | 0 | | 17 | | 0 | | 17 | 1.7% |
| Regional Supt./Asst. Reg. | | | | | | | | | - — | | '' | 1.7 70 |
| District Supt. | 1 | | | | | | | | | | 1 | |
| Admin Assistant | 35 | | | | | | | | | | | |
| Asst. District Supt. | 11 | | 1 | | | | 1 | 9% | | | 1 . | 00/ |
| ₂Business Manager | 2 | | | | | | ı | 3 /0 | | | 1 | 9% |
| Elem Princ | 488 | | 6 | | | | 6 | 1% | | | | 404 |
| Asst Elem Princ | 116 | | 3 | | | | 3 | | | | 6 | |
| | 110 | | 3 | | | | 3 | 3% | | | 3 | 3% |
| Jr High Princ | | | | | | | | | | | | |
| Asst. Jr. High Princ | | | 4 | | | | | | | | 1 | |
| HS Princ | 96 | | 1 | | | | 1 | • | | | 1 | |
| Asst HS Princ | 138 | | 1 | | | | 1 | 1% | | | 1 | 1% |
| Jr High Dean | | | | | | | | | | | | |
| Sr High Dean | | | | | | | | | | | | |
| Director | 85 | | 3 | | | | 3 | 4% | | | 3 | 4% |
| Assistant Director | 8 | | 1 | | | | 1 | 13% | | | 1 | 13% |
| Deputy Supt. | 1 | | 1 | | | | 1 | 100% | | | 1 1 | 100% |
| Other Admin | 6 | | | | | | | | | | 1 | |
| Associate Supt. | | | | | | | | | | | | |
| | | | | 4.00/ | 4074 | 4.504 | | | | | | |
| INSTRUCTIONAL STAFF | | 23,639 | 1022 | 4.3% | 10/1 | 4.5% | 2,093 | 8.9% | 922 | 3.9% | 3,015 | 12.8% |
| Spec Ed Teacher (all levels) | 4040 | | 211 | | 138 | | 349 | 9% | 115 | | 464 | 11% |
| Elem Teacher | 14893 | | 640 | | 729 | | 1369 | 9% | 670 | | 2039 | 14% |
| Jr/Middle Teacher ¹ | 14000 | | 040 | | 125 | | 1303 | 3 /0 | 070 | | 2039 | 1470 |
| HS Teacher | 4706 | | 171 | | 204 | | 375 | 8% | 137 | | 512 | 11% |
| | | | | | | <u> </u> | | | | | | • |
| PROFESSIONAL STAFF | - 000 | 1,709 | 19 | 3.7% | | 2.0% | 98 | 5.7% | _94 | 5.5% | 192 | 11.2% |
| Guidance Counselor | 820 | | | | 4 | | 23 | 3% | 94 | | 117 | 14% |
| Psychologist | 243 | | 3 | | 1 | | 4 | 2% | | | 4 | 2% |
| Social Worker | 359 | | 23 | | 15 | | 38 | 11% | | | 38 | 11% |
| Nurse | 278 | | 18 | | 10 | | 28 | 10% | | | 28 | 10% |
| Intern Psychologist | 9 | | 1 | | 4 | | 5 | 56% | | | 5 | 56% |
| Intern Soc Worker | | | | | | | | | | | | |
| OTHER CERTIFIED STAF | F | 1,779 | 57 | 3.2% | 23 | 1.3% | 80 | 4.5% | 0 | | 80 | 4.5% |
| Library/Media Specialist | 484 | | 15 | | 13 | | 28 | 6% | | | 28 | 6% |
| Instructional TV | | | | | | | | | | | l | ł |
| Adult Education | 1 | | | | | | | | | | | l |
| Attendance Officer | 1 | | | | | | | | | | | j |
| Occupational Therapist | 7 | | 5 | | 1 | | 6 | 86% | | | 6 | 86% |
| Physical Therapist | 15 | | 1 | | | | 1 | 7% | | | 1 | 7% |
| Audiologist | 1 | | • | | | | • | 0 | | | l ' | ′ ′° |
| Diagnostician | ı | | | | | | | | | | | ľ |
| <u> </u> | 12 | | | | | | | | | | | |
| Supervisor | | | 25 | | , | | 20 | 404 | | | | |
| Consultant | 673 | | 25 | | 4 | | 29 | 4% | | | 29 | 4% |
| Coordinator | 585 | | 11 | | 5 | | 16 | 3% | | | 16 | 3% |
| Total | - | 28,114 | 1,160 | 4.1% | 1,128 | 4.0% | 2,288 | 8.1% | 1,016 | 3.6% | 3,304 | 11.8% |
| | = | | | | | | | | | | | |

There are no Junior High or Middle school personnel reported for Chicago
 te: All percents reflect percentage of Chicago full time personnel.



Table 5: New Demand vs. New Supply -- 1998-99

| gar paga san dan anggar dan anggar sa ana a dan anggar agaman dan kalabanan dan 1991 (dan anggar a | | New D | emand | New Supply | | |
|--|-------------------|----------|-----------|--------------|------------|-----------------|
| and the second of the second o | State | | Unfilled | #-of | Over/Under | Reserve |
| MAIN ASSIGNMENT | [FT] | Beginers | Positions | Entitlements | Supply | Pool |
| *Self Contained (055) | 41,492 | 1,945 | 543.0 | 1,793 | -695 | 9 8, 801 |
| Z - Other Subject/Program Not Listed (047) | 3,794 | 193 | 52.2 | ? | ?] | |
| Cross Categorical (097) | 3,140 | 153 | 83.0 | ? | ? | |
| Other/General Special Education (050) | 1,672 | 61 | 115.1 | ? | ? | |
| Bilingual Education (087) | 2032 | 178 | 34.5 | 38 | -175 | 2,103 |
| Vocal Music (034) | 2,488 | 99 | n/a | 9 | -90 | 247 |
| Sp. Ed. Early Childhood (074) | 1,129 | 46 | 25.0 | 0 | -71 | 0 |
| Instrumental Music (035) | 1,629 | 74 | n/a | 7 | -67 | 222 |
| Physically Handicapped (077) | 293 | 5 | 56.0 | 4 | -57 | 5 6 5 |
| Speech and Language Impaired (079) | 2,689 | 126 | 136.4 | 224 | -38 | 2,363 |
| Gifted Education (065) | 779 | 17 | 3.0 | 0 | -20 | . 18 |
| Visually Impaired (081) | 291 | 7 | 10.0 | ? | ? | 293 |
| COMPUTER EDUCATION/TECHNOLOGY | 1,362 | 44 | 11.0 | 43 | -12 | 443 |
| Multiply Handicapped (082) | 188 | 10 | n/a | ? | ? | |
| Other English (006) | 296 | 8 | n/a | 0 | -8 | 1 |
| Computer Literacy/Technology (093) | 1,196 | 38 | n/a | 31 | -7 | 321 |
| Community Education (064) | 19 | 1 | 0.0 | ? | ? | |
| Homebound/Hospital (099) | 38 | | n/a | ? | ? | |
| Japanese (068) | 8 | | 1.0 | 2 | 1 | |
| Learning/Resource Center-Library (057) | 483 | 11 | 16.1 | 32 | 5 | 1,117 |
| Earth Science (048) | 292 | 14 | 0.0 | 20 | 6 | 219 |
| Latin (024) | 48 | 1 | 0.8 | 9 | 7 | 153 |
| Russian (069) | 6 | 0.7 | 0.0 | 8 | 8 | 105 |
| English as a Second Language (059) | 582 | 27 | 4.5 | 40 | 9 | 287 |
| German (023) | 197 | 6 | 0.0 | 22 | 16 | 726 |
| Other Foreign Language (026) | 107 | 9 | n/a | 27 | 18 | 210 |
| Deaf (073) | 386 | 15 | 0.0 | 45 | 30 | 1,000 |
| Hard of Hearing (098) | 299 | 8 | 5.9 | 45 | 31 | 1.000 |
| Journalism (004) | 45 | 2 | 1.0 | 35 | 32 | 275 |
| Audio Visual (051) | 21 | 6 | n/a | 32 | 32 | 750 |
| Computer Programming (094) | 166 | 6 | n/a | 43 | 37 | 443 |
| TMH (080) | 777 | 25 | 5.0 | 78 | 48 | 2,358 |
| Driver Education (037) | 642 | 10 | 0.0 | 59 | 49 | 655 |
| Reading Improvement (NonTitle I) (085) | 863 | 30 | 4.5 | 85 | 51 | 2.066 |
| Reading (002) | 837 | 32 | 1.0 | 85 | 52 | 2.066 |
| Severe/Profound Mentally Handicap. (089) | 221 | 9 | 12.0 | 78 | 57 | 2.358 |
| Title I Remedial Reading (083) | 260 543 | 7 | 0.0 | 85 | 78 | 2,066 |
| French (022) | 542 8 3 | 13 | 1.5 | 99 | 85 | 1.732 |
| Business Math (027) | 114 | 4 | n/a | 96 | 92 | 778 |
| Psychology (011) | | 6 472 | 0.6 | 108 | 101 | 949 |
| MUSIC | 4,117 | 173 | n/a | 281 | 108 | 4,926 |
| Health Education (071) | 581 | 25 | 2.0 | 138 | 111 | 1,563 |
| Consumer Education (038) | 148 | 2 | 0.0 | 122 | 120 | 675 |
| Dramatics (005) | 112 | 2 | n/a | 127 | 125 | 1,199 |
| Physics (016) | 394 | 18 | 3.0 | 152 | 131 | 1,052 |
| EMH (072) | 1,229 | 34 | 9.0 | 183 | 140 | 5,173 |
| Art (033) | 2,764 | 93 | 53.5 | 331 | 185 | 3,944 |
| Geography (008) | 319 | 11 | 0.0 | 199 | 188 | 1,211 |
| Physical Science (049) | 331 804 | 20 27 | 2.0 | 219 | 197 | 2,371 |
| Chemistry (015) BEST COPY AVAILAB | 804 LE | 27 | 3.0 Эф | 232 | 202 | 1.590 |

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| Economics (010) | 71 | 3 | 0.0 | 238 | 235 | 1,918 |
|---|-------|-------|-------|-------|-------|--------|
| Speech (003)** | 212 | 7 | 1.9 | 244 | 235 | 2,360 |
| Behavior Disordered (078) | 2,292 | - 132 | 101.5 | 517 | 284 | 6,162 |
| Spanish (025) | 1,797 | 83 | 13.9 | 394 | 297 | 2,986 |
| Civics (007) | 174 | 7 | 0.0 | 373 | 366 | 2,410 |
| Learning Disabled (076) | 7,086 | 304 | 60.0 | 736 | 372 | 8,631 |
| English (001) | 5,205 | 246 | 18.5 | 699 | 435 | 7,022 |
| Biology (014) | 1,481 | 95 | 7.5 | 547 | 445 | 3,530 |
| Physical Education (036) | 7,046 | 260 | 78.8 | 788 | 449 | 9,554 |
| Other Science (017) | 310 | 17 | n/a | 496 | 479 | 3,320 |
| MATHEMATICS | 6,662 | 285 | 27.8 | 798 | 485 | 7,247 |
| At Risk (PreK), (067) | 1,351 | 97 | n/a | 592 | 495 | 13,868 |
| Educationally Handicapped (075) | 93 | 5 | 14.0 | 517 | 498 | 6,162 |
| Basic and/or General Math (088) | 3,043 | 161 | 26.8 | 798 | 610 | 7,247 |
| General Science (013) | 2,574 | 151 | n/a | 771 | 620 | 7,136 |
| Title I Remedial Math (084) | 3,448 | 135 | 1.0 | 798 | 662 | 7,247 |
| Business English (028) | 89 | 2 | n/a | 699 | 697 | 7,286 |
| Algebra (018) | 2,013 | 83 | 0.0 | 798 | 715 | 7,247 |
| Other Math (021) | 940 | 24 | 1.0 | 798 | 773 | 7,247 |
| Geometry (019) | 560 | 16 | 0.0 | 798 | 782 | 7,247 |
| Adapted P.E. (096) | 130 | 4 | 2.0 | 788 | 782 | 9.554 |
| NonTitle I Remedial Math (086) | 25 | 1 | 0.0 | 798 | 797 | 7,247 |
| History (009) | 2,344 | 103 | 1.0 | 1,789 | 1,685 | 11,777 |
| Language Arts (058) | 2,995 | 200 | n/a | 1,976 | 1,776 | 23,462 |
| General &/or Other Social Studies (012) | 2,597 | 159 | 0.0 | 2,819 | 2,660 | 30.462 |



Table 6: Total Demand vs. the Reserve Pool -- 1998-99

| a transfer and an extended a first to the second plant and an extended by agent first an extended by all a large to the first to the first and the first to the f | | | · · · · · · · · · · · · · · · · · · · | |
|--|--------------|----------------|---------------------------------------|------------|
| | State | Total | Reserve | Over/Under |
| MAIN ASSIGNMENT | [FT] | Demand | Pool | Supply |
| Z - Other Subject/Program Not Listed (047) | 3,794 | 451 12% | ? | ? |
| Cross Categorical (097) | 3,140 | 416 13% | ? | ? |
| Other/General Special Education (050) | 1,672 | 242 14% | ? | ? |
| Sp. Ed. Early Childhood (074) | 1,129 | 129 11% | 0 | -129 |
| Gifted Education (065) | 7 7 9 | 50 6% | 18 | -32 |
| Multiply Handicapped (082) | 188 | 16 9% | ? | ? |
| Other English (006) | 296 | 12 4% | 1 | -11 |
| Community Education (064) | 19 | 1 5% | ? | ? |
| Japanese (068) | 8 | 1 13% | ? | ? |
| Homebound/Hospital (099) | 38 | | ? | ? |
| Vocal Music (034) | 2,488 | 180 7% | 247 | 67 |
| Instrumental Music (035) | 1,629 | 1 38 8% | 222 | 84 |
| Russian (069) | 6 | 0 0% | 105 | 105 |
| Latin (024) | 48 | 2 4% | 153 | 151 |
| Other Foreign Language (026) | 107 | 15 14% | 210 | 195 |
| Earth Science (048) | 292 | 19 7% | 219 | 200 |
| English as a Second Language (059) | 582 | 73 12% | 287 | 215 |
| Computer Literacy/Technology (093) | 1,196 | 77 6% | 321 | 244 |
| Visually Impaired (081) | 291 | 27 9% | 293 | 266 |
| Journalism (004) | 45 | 3 7% | 275 | 272 |
| COMPUTER EDUCATION/TECHNOLOGY | 1,362 | 98 7% | 443 | 345 |
| Computer Programming (094) | 166 | 10 6% | 443 | 433 |
| Physically Handicapped (077) | 293 | 76 26% | 565 | 489 |
| Driver Education (037) | 642 | 15 2% | 655 | 640 |
| Consumer Education (038) | 148 | 6 4% | 675 | 669 |
| German (023) | 197 | 11 6% | 726 | 715 |
| Audio Visual (051) | 21 | 1 5% | 750 | 749 |
| Business Math (027) | 83 | 9 11% | 778 | 769 |
| Psychology (011) | 114 | 7 6% | 949 | 942 |
| Deaf (073) | 386 | 36 9% | 1,000 | 964 |
| Hard of Hearing (098) | 299 | 30 10% | 1,000 | 970 |
| Physics (016) | 394 | 35 9% | 1,052 | 1,017 |
| Learning/Resource Center-Library (057) | 483 | 43 9% | 1,117 | 1,074 |
| Dramatics (005) | 112 | 4 4% | 1,199 | 1,195 |
| Geography (008) | 319 | 16 5% | 1,211 | 1,195 |
| Health Education (071) | 581 | 39 7% | 1,563 | 1,524 |
| Chemistry (015) | 804 | 45 6% | 1,590 | 1,545 |
| French (022) | 542 | 30 5% | 1,732 | 1,703 |
| Bilingual Education (087) | 2032 | 345 17% | 2,103 | 1,759 |
| Economics (010) | 71 | 3 4% | 1,918 | 1,915 |
| Reading Improvement (NonTitle I) (085) | 863 | 77 9% | 2,066 | 1,990 |
| Speech and Language Impaired (079) | 2,689 | 370 14% | 2,363 | 1,993 |
| Reading (002) | 837 | 69 8% | 2,066 | 1,997 |
| Title ! Remedial Reading (083) | 260 | 14 5% | 2,066 | 2,052 |
| TMH (080) | 777 | 62 8% | 2,358 | 2,296 |
| Severe/Profound Mentally Handicap. (089) | 221 | 31 14% | 2,358 | 2,327 |
| Physical Science (049) | 331 | 28 8% | 2,371 | 2,343 |
| Speech (003)** | 212 | 15 7% | 2,360 | 2,345 |
| Civics (007) | 174 | 12 7% | 2,410 | 2,398 |
| Spanish (025) | 1,797 | 166 9% | 2,986 | 2,820 |

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| Other Science (017) | 310 | 30 | 10% | 3,320 | 3,290 |
|---|--------|-------|-----|--------|--------|
| Biology (014) | 1,481 | 131 | 9% | 3,530 | 3,400 |
| Art (033) | 2,764 | 209 | 8% | 3,944 | 3,736 |
| MUSIC | 4,117 | 318 | 8% | 4,926 | 4,608 |
| EMH (072) | 1,229 | 84 | 7% | 5,173 | 5,089 |
| Behavior Disordered (078) | 2,292 | 395 | 17% | 6,162 | 5,768 |
| Educationally Handicapped (075) | 93 | 23 | 25% | 6,162 | 6,139 |
| English (001) | 5,205 | 404 | 8% | 7,022 | 6,619 |
| MATHEMATICS | 6,662 | 483 | 7% | 7,247 | 6,764 |
| General Science (013) | 2,574 | 212 | 8% | 7,136 | 6,924 |
| Basic and/or General Math (088) | 3,043 | 280 | 9% | 7,247 | 6,967 |
| Title I Remedial Math (084) | 3,448 | 266 | 8% | 7,247 | 6,981 |
| Algebra (018) | 2,013 | 130 | 6% | 7,247 | 7,117 |
| Other Math (021) | 940 | 46 | 5% | 7,247 | 7,201 |
| Geometry (019) | 560 | 26 | 5% | 7,247 | 7,221 |
| NonTitle I Remedial Math (086) | 25 | 1 | 4% | 7,247 | 7,246 |
| Business English (028) | 89 | 4 | 4% | 7,286 | 7,282 |
| Learning Disabled (076) | 7,086 | 685 | 10% | 8,631 | 7,946 |
| Physical Education (036) | 7.046 | 446 | 6% | 9,554 | 9,108 |
| Adapted P.E. (096) | 130 | 12 | 9% | 9,554 | 9,542 |
| History (009) | 2,344 | 145 | 6% | 11,777 | 11,632 |
| At Risk (PreK), (067) | 1,351 | 157 | 12% | 13,868 | 13,711 |
| Language Arts (058) | 2,995 | 312 | 10% | 23,462 | 23,150 |
| General &/or Other Social Studies (012) | 2,597 | 216 | 8% | 30,462 | 30,246 |
| *Self Contained (055) | 41,492 | 3,722 | 9% | 98,801 | 95,079 |



Table 8: New Demand -- Chicago [FT]

| Table 6. New Demand Officago | State | | Total Man | | | |
|--|--------|---------|---------------------|-----------------------|-------|--------|
| MAIN ASSIGNMENT | [FT] | Chicago | Total New Positions | Unfilled Positions | DEM. | |
| *Self Contained (055) | 40,973 | 9,888 | 861 | 512.0 | 1,373 | 14% |
| Art (033) | 2,439 | , | 30 | 48.0 | 78.0 | 20% |
| At Risk (PreK), (067) | 1,271 | 445 | 27 | n/a | | 2074 |
| Audio Visual (051) | 19 | | 0 | n/a | 1 | |
| Bilingual Education (087) | 2009 | 860 | 96 | 0.0 | 96.0 | 11% |
| Community Education (064) | 17 | | 0 | 0.0 | *** | |
| Consumer Education (038) | 137 | | 0 | 0.0 | İ | |
| Driver Education (037) | 628 | 3 | 0 | 0.0 | | |
| English as a Second Language (059) | 525 | 66 | 7 | 0.0 | 7.0 | 11% |
| Gifted Education (065) | 669 | 34 | 1 | 0.0 | 1.0 | 3% |
| Health Education (071) | 552 | 9 | 1 | 0.0 | 1.0 | 11% |
| Learning/Resource Center-Library (057) | 461 | 54 | 2 | 0.0 | 2.0 | 4% |
| Physical Education (036) | 6,772 | 988 | 41 | 66.0 | 107.0 | 11% |
| Reading Improvement (NonTitle I) (085) | 756 | 24 | 1 | 0.0 | 1.0 | 4% |
| Z - Other Subject/Program Not Listed (047) | 3,619 | 2,064 | 218 | 10.0 | 228.0 | 11% |
| COMPUTER EDUCATION/TECHNOLOGY | 1,309 | | • | 7.0 | | |
| Computer Literacy/Technology (093) | 1,145 | | . 4 | n/a | 4 | 3% |
| Computer Programming (094) | 164 | 88 | 5 | n/a | 5 | 6% |
| ENGLISH | | | | | ···· | |
| Business English (028) | 87 | 80 | 4 | . n/a | . 4 | 5% |
| Dramatics (005) | 97 | 9 | 1 | n/a | 1 | 11% |
| English (001) | 5,062 | 731 | 69 | 17.0 | 86.0 | 12% |
| Journalism (004) | 42 | | 0 | 0.0 | 00.0 | 1270 |
| Language Arts (058) | 2,927 | 97 | 9 | n/a | 9 | 9% |
| Other English (006) | 282 | 1 | 0 | n/a | | 0,0 |
| Reading (002) | 801 | 9 | 0 | 0.0 | | |
| Speech (003)** | 209 | 14 | 0 | 0.0 | | |
| FOREIGN LANGUAGE | | | | 0.0 | | |
| French (022) | 469 | 55 | 4 | 0.0 | 4.0 | 7% |
| German (023) | 167 | 6 | 2 | 0.0 | 2.0 | 33% |
| Japanese (068) | 5 | - | _ | 0.0 | | 50,0 |
| Latin (024) | 36 | 1 | | 0.0 | | |
| Other Foreign Language (026) | 98 | 67 | 12 | n/a | 12 | 18% |
| Russian (069) | 6 | | | 0.0 | '- | 1070 |
| Spanish (025) | 1,617 | 172 | 22 | 0.0 | 22.0 | 13% |
| MATHEMATICS | | | | 0.0 | 22.0 | '370 |
| Algebra (018) | 1,949 | | 0 | 0.0 | | • |
| Basic and/or General Math (088) | 2,967 | 49 | 1 | 18.0 | 19.0 | 39% |
| Business Math (027) | 82 | 56 | 6 | n/a | 6.0 | 11% |
| Geometry (019) | 536 | | 0 | 0.0 | 0.0 | 1 1 70 |
| NonTitle I Remedial Math (086) | 20 | 3 | 0 | 0.0 | | |
| Other Math (021) | 924 | 565 | 33 | 0.0 | 33.0 | 6% |
| Trigonometry (020) | 80 | | 55 | n/a | 33.0 | 070 |
| MUSIC | | | | ıı/a | | ٠. ا |
| Instrumental Music (035) | 1,517 | 110 | 4 | 0/2 | 4.0 | |
| Vocal Music (034) | 2,158 | 329 | | n/a | 4.0 | 4% |
| VOCAL MIGSIC (UCH) | 2,130 | 343 | 25 | n/a | 25.0 | 8% |



| NATURAL SCIENCE | | | | | | <u>.</u> |
|--|--------|-------------|------------|-------------|-------|----------|
| Biology (014) | 1,450 | 229 | 24 | 0.0 | 24.0 | 10 |
| Chemistry (015) | 791 | 97 | 10 | 1.5 | 11.5 | 12 |
| Earth Science (048) | 288 | | 1 | 0.0 | 1.0 | 10 |
| General Science (013) | 2,537 | 141 | 9 | n/a | 9.0 | 6 |
| Other Science (017) | 308 | 74 | 3 | n/ a | 3.0 | 4 |
| Physical Science (049) | 325 | | 0 | 1.0 | 1.0 | |
| Physics (016) | 382 | 48 | 8 | 1.5 | 9.5 | 20 |
| SPECIAL EDUCATION | | | | | | |
| Adapted P.E. (096) | 115 | | 0 | 0.0 | | |
| Behavior Disordered (078) | 2,242 | 317 | 25 | 17.0 | 42.0 | 13 |
| Cross Categorical (097) | 3,093 | 1,040 | 115 | 0.0 | 115.0 | 1 |
| Deaf (073) | 374 | 153 | 12 | 0.0 | 12.0 | |
| Early Childhood (074) | 1,053 | 158 | 5 | 15.0 | 20.0 | 13 |
| Educationally Handicapped (075) | 88 | | 0 | 14.0 | 14.0 | |
| EMH (072) | 1,213 | 222 | 16 | 0.0 | 16.0 | • |
| Hard of Hearing (098) | 273 | 13 | 0 | 4.0 | 4.0 | 3 |
| Homebound/Hospital (099) | 32 | 19 | | n/a | | - |
| Learning Disabled (076) | 6,855 | 1,109 | 85 | 55.0 | 140.0 | 13 |
| Multiply Handicapped (082) | 182 | 74 | 1 | n/a | 1.0 | |
| Other/General Special Education (050) | 1,616 | 5 83 | 5 0 | 0.0 | 50.0 | 9 |
| Physically Handicapped (077) | 283 | 157 | 11 | 8.0 | 19.0 | 1: |
| Severe/Profound Mentally Handicap. (089) | 218 | 42 | 4 | 0.0 | 4.0 | 1 |
| Speech and Language Impaired (079) | 2,235 | 236 | 27 | 1.0 | 28.0 | 12 |
| TMH (080) | 763 | 139 | 3 | 0.0 | 3.0 | |
| Visually Impaired (081) | 262 | 66 | 3 | 1.0 | 4.0 | (|
| SOCIAL SCIENCE | | | | | | |
| Civics (007) | 172 | | 0 | 0.0 | ļ. · | |
| Economics (010) | 69 | | 0 | 0.0 | 1 | |
| General &/or Other Social Studies (012) | 2,556 | 206 | 20 | 0.0 | 20.0 | 10 |
| Geography (008) | 311 | 32 | 0 | 0.0 | | |
| History (009) | 2,297 | 438 | 39 | 0.0 | 39.0 | ç |
| Psychology (011) | 101 | | 0 | 0.0 |] | |
| TITLE 1 | | | _ | | 1 | |
| Title I Remedial Math (084) | 237 | 44 | 1 | 0.0 | 1.0 | |
| Title I Remedial Reading (083) | 3,335 | 1,401 | 154 | 0.0 | 154.0 | 1 |
| VOCATIONAL TECHNICAL PROGRAMS | | | | | | |
| Agriculture | 302 | 10 |) | 0.0 | | |
| Agricultural Business & Mgt. (101) | 95 | | <u>-</u> . | n/a | 1 | |
| Agricultural Mechanization (102) | 13 | | 3 | n/a | 1 | |
| Agricultural Resources/Conservation (103) | 3 | | | n/a | | |
| Agricultural Sciences (104) | 82 | 7 | 0 | n/a | | |
| Horticulture Services (105) | 29 | 3 | 0 | n/a | ł | |
| Orientation to Agriculture (100) | 67 | • | 0 | n/a | | |
| Other Agricultural Occupations (106) | 13 | | 3 | n/a | 1 | |
| Business, Marketing & Management | 1,382 | | 2 7 | 21.0 | 28.0 | 15 |
| Accounting/Bookkeeping (108) | 298 | 16 | · | n/a | 20.0 | 15 |
| Administrative Assistant/Secretarial (109) | 24 | 10 | J | n/a | | |
| | 15 | 9 | 0 | n/a n/a | | |
| Banking & Financial Support (110) | 25 | 3 | | | | |
| Business Admin. & Management (111) | | | 0 | n/a | 1 | |
| Business Computer Programming (112) | 20 | | 0 | n/a | | |
| Enterprise Management (113) | 5 | | 0 | n/a | | |
| | 1 40-1 | 4 4 | _ | | | |
| Information/Data Processing) (060) C.egal Administrative Assistant (114) BEST COPY AVAILABLE | 137 | 14 | 2 | n/a n/a | | |

| Marketing Operations (115) | 16 | | | n/a | 1 | ŧ |
|---|---|---|---|---|------|---------|
| Medical Administrative Assistant (116) | | | | n/a | | 1 |
| Orientation to Business Occupations (107) | 685 | 86 | 3 | n/a | 1 | |
| Other Business Occupations (118) | 145 | 67 | 2 | n/a | | 1 |
| Product Marketing (117) | 8 | | _ | n/a | | |
| Family & Consumer Sciences | 1,130 | 69 | ······································ | 0.0 | 1.0 | 1% |
| Child Care & Guidance (129) | 189 | - · | . 0 | n/a | | |
| Clothing & Apparel (130) | 94 | 2 | 0 | n/a | İ | |
| Cosmetology (131) | 23 | 10 | 1 | n/a | | |
| Custodial/Housekeeping/Home Serv. (132) | 9 | | , | n/a | | |
| Foods Services Occupations (133) | 149 | 7 | 0 | n/a | } | - 1 |
| Foods Services/Lodging Mgt. (134) | 13 | 4 | 0 | n/a | | |
| Home Furnishings (135) | 3 | • | 0 | n/a | | |
| Hospitality (136) | | | • | n/a | | |
| Occupation of Homemaking (137) | 183 | | 0 | n/a | ! | |
| Orientn to F&CS/Foods & Nutrition (128) | 367 | 46 | 0 | n/a | | ļ |
| Other F&CS Occupations (140) | 97 | *** | 0 | n/a | | i |
| Social Work (138) | 2 | | 0 | n/a | | i |
| Teacher Aide (139) | 1 | | J | n/a | | |
| Health Occupations | 72 | | 2 | 0.0 | 2.0 | 11% |
| Clinical Laboratory (120) | 1 - 0 | · | _ | n/a | 2.0 | . ' ' ' |
| Dental Assistant (121) | 1 | | 0 | n/a | ŀ | 1 |
| Medical Office/Assistant (122) | | | 0 | n/a | | |
| Medical Records (123) | ol | | | n/a | ł | |
| Nursing Assistant/Aide (124) | 28 | 11 | 0 | n/a | 1 | |
| Nursing Services (125) | 13 | 3 | 1 | n/a | ł | i |
| Ophthalmic Services (126) | 1 | • | ' | n/a | | |
| Orientation to Health Occupations (119) | 15 | | 0 | n/a | | - 1 |
| | | | • | 11/1/4 | ł | |
| Other Health Occupations (127) | 12 | 4 | 1 | n/a | t | • |
| Other Health Occupations (127) | 12 1.558 | 4 210 | 1 11 | n/a | 19.0 | 9% |
| Industrial | 1,558 | 4 210 4 | 1 11 1 | 8.0 | 19.0 | 9% |
| Industrial Architectural Drafting (142) | 1,558 52 | - | | 8.0 n/a | 19.0 | 9% |
| Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) | 1,558 52 49 | 4 | 1 | 8.0 n/a n/a | 19.0 | 9% |
| Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) | 1,558 52 49 181 | - | | 8.0 n/a n/a n/a | 19.0 | 9% |
| Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) | 1,558 52 49 181 5 | 4 | 3 | 8.0 n/a n/a n/a n/a | 19.0 | 9% |
| Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) | 1,558 52 49 181 5 6 | 27 2 | 1 | 8.0 n/a n/a n/a n/a n/a | 19.0 | 9% |
| Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) | 1,558 52 49 181 5 6 129 | 4 | 3 | 8.0 n/a n/a n/a n/a n/a n/a | 19.0 | 9% |
| Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) | 1,558 52 49 181 5 6 | 27 2 19 | 3 | 8.0 n/a n/a n/a n/a n/a n/a | 19.0 | 9% |
| Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) Comm. Systems Installer/Repairer (149) | 1,558 52 49 181 5 6 129 | 4 27 2 19 7 | 1 3 0 1 1 | 8.0 n/a n/a n/a n/a n/a n/a n/a | 19.0 | 9% |
| Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) Comm. Systems Installer/Repairer (149) Computer Installer/Repair (150) | 1,558 52 49 181 5 6 129 51 7 6 | 4 27 2 19 7 | 1 3 0 1 1 1 0 | 8.0 n/a n/a n/a n/a n/a n/a n/a n/a | 19.0 | 9% |
| Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) Comm. Systems Installer/Repairer (149) Computer Installer/Repair (150) Construction (151) | 1,558 52 49 181 5 6 129 51 7 6 84 | 4 27 2 19 7 4 | 1 3 0 1 1 1 0 0 | 8.0 n/a n/a n/a n/a n/a n/a n/a n/a | 19.0 | 9% |
| Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) Comm. Systems Installer/Repairer (149) Computer Installer/Repair (150) | 52 49 181 5 6 129 51 7 6 84 203 | 4 27 2 19 7 4 | 1 3 0 1 1 1 0 | 8.0 n/a n/a n/a n/a n/a n/a n/a n/a | 19.0 | 9% |
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| Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) Comm. Systems Installer/Repairer (149) Computer Installer/Repair (150) Construction (151) Drafting (152) Electrical/Electronics Equip Installers/Repairers (043) Graphic & Printing Equip. Operators (154) | 52 49 181 5 6 129 51 7 6 84 203 97 33 | 4 27 2 19 7 4 4 59 | 1 3 0 1 1 1 0 0 | 8.0 n/a n/a n/a n/a n/a n/a n/a n/a | 19.0 | 9% |
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| Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) Comm. Systems Installer/Repairer (149) Computer Installer/Repair (150) Construction (151) Drafting (152) Electrical/Electronics Equip Installers/Repairers (043) Graphic & Printing Equip. Operators (154) Graphic Design/Commercial Art (153) Heating, AC & Refrigeration (155) | 52 49 181 5 6 129 51 7 6 84 203 97 33 73 6 | 4 27 2 19 7 4 4 59 14 | 1 3 0 1 1 1 0 0 2 | 8.0 n/a n/a n/a n/a n/a n/a n/a n/a | 19.0 | 9% |
| Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) Comm. Systems Installer/Repairer (149) Computer Installer/Repair (150) Construction (151) Drafting (152) Electrical/Electronics Equip Installers/Repairers (043) Graphic & Printing Equip. Operators (154) Graphic Design/Commercial Art (153) Heating, AC & Refrigeration (155) Machine Shop Assistant (156) | 52 49 181 5 6 129 51 7 6 84 203 97 33 73 6 | 4 27 2 19 7 4 4 59 14 | 1 3 0 1 1 1 0 0 2 0 | 8.0 n/a n/a n/a n/a n/a n/a n/a n/a | 19.0 | 9% |
| Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) Comm. Systems Installer/Repairer (149) Computer Installer/Repair (150) Construction (151) Drafting (152) Electrical/Electronics Equip Installers/Repairers (043) Graphic & Printing Equip. Operators (154) Graphic Design/Commercial Art (153) Heating, AC & Refrigeration (155) Machine Shop Assistant (156) Manufacturing (157) | 52 49 181 5 6 129 51 7 6 84 203 97 33 73 6 18 | 4 27 2 19 7 4 4 59 14 29 1 | 1 3 0 1 1 1 0 0 2 0 | 8.0 n/a n/a n/a n/a n/a n/a n/a n/ | 19.0 | 9% |
| Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) Comm. Systems Installer/Repairer (149) Computer Installer/Repair (150) Construction (151) Drafting (152) Electrical/Electronics Equip Installers/Repairers (043) Graphic & Printing Equip. Operators (154) Graphic Design/Commercial Art (153) Heating, AC & Refrigeration (155) Machine Shop Assistant (156) Manufacturing (157) Mechanical Drafting (158) | 52 49 181 5 6 129 51 7 6 84 203 97 33 73 6 18 32 28 | 4 27 2 19 7 4 4 59 14 29 1 9 | 1 3 0 1 1 1 0 0 2 0 | 8.0 n/a n/a n/a n/a n/a n/a n/a n/ | 19.0 | 9% |
| Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) Comm. Systems Installer/Repairer (149) Computer Installer/Repair (150) Construction (151) Drafting (152) Electrical/Electronics Equip Installers/Repairers (043) Graphic & Printing Equip. Operators (154) Graphic Design/Commercial Art (153) Heating, AC & Refrigeration (155) Machine Shop Assistant (156) Manufacturing (157) Mechanical Drafting (158) (141) | 52 49 181 5 6 129 51 7 6 84 203 97 33 73 6 18 32 28 259 | 4 27 2 19 7 4 4 59 14 29 1 | 1 3 0 1 1 1 0 0 2 0 1 | 8.0 n/a n/a n/a n/a n/a n/a n/a n/ | 19.0 | 9% |
| Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) Comm. Systems Installer/Repairer (149) Computer Installer/Repair (150) Construction (151) Drafting (152) Electrical/Electronics Equip Installers/Repairers (043) Graphic & Printing Equip. Operators (154) Graphic Design/Commercial Art (153) Heating, AC & Refrigeration (155) Machine Shop Assistant (156) Manufacturing (157) Mechanical Drafting (158) (141) Other Industrial Occupations (164) | 52 49 181 5 6 129 51 7 6 84 203 97 33 73 6 18 32 28 259 115 | 4 27 2 19 7 4 4 59 14 29 1 9 | 1 3 0 1 1 1 0 0 2 0 1 | 8.0 n/a n/a n/a n/a n/a n/a n/a n/ | 19.0 | 9% |
| Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) Comm. Systems Installer/Repairer (149) Computer Installer/Repair (150) Construction (151) Drafting (152) Electrical/Electronics Equip Installers/Repairers (043) Graphic & Printing Equip. Operators (154) Graphic Design/Commercial Art (153) Heating, AC & Refrigeration (155) Machine Shop Assistant (156) Manufacturing (157) Mechanical Drafting (158) (141) | 52 49 181 5 6 129 51 7 6 84 203 97 33 73 6 18 32 28 259 | 4 27 2 19 7 4 4 59 14 29 1 9 | 1 3 0 1 1 1 0 0 2 0 1 | 8.0 n/a n/a n/a n/a n/a n/a n/a n/ | 19.0 | 9% |
| Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) Comm. Systems Installer/Repairer (149) Computer Installer/Repair (150) Construction (151) Drafting (152) Electrical/Electronics Equip Installers/Repairers (043) Graphic & Printing Equip. Operators (154) Graphic Design/Commercial Art (153) Heating, AC & Refrigeration (155) Machine Shop Assistant (156) Manufacturing (157) Mechanical Drafting (158) (141) Other Industrial Occupations (164) Precision Metal Worker (159) | 52 49 181 5 6 129 51 7 6 84 203 97 33 73 6 18 32 28 259 115 | 4 27 2 19 7 4 4 59 14 29 1 9 | 1 3 0 1 1 1 0 0 2 0 1 | 8.0 n/a n/a n/a n/a n/a n/a n/a n/ | 19.0 | 9% |
| Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) Comm. Systems Installer/Repairer (149) Computer Installer/Repair (150) Construction (151) Drafting (152) Electrical/Electronics Equip Installers/Repairers (043) Graphic & Printing Equip. Operators (154) Graphic Design/Commercial Art (153) Heating, AC & Refrigeration (155) Machine Shop Assistant (156) Manufacturing (157) Mechanical Drafting (158) (141) Other Industrial Occupations (164) Precision Metal Worker (159) Protective Services/Law Enforcement/Fire Fighter (160) | 52 49 181 5 6 129 51 7 6 84 203 97 33 73 6 18 32 28 259 115 28 | 4 27 2 19 7 4 4 59 14 29 1 9 | 1 3 0 1 1 1 0 0 2 0 1 | 8.0 n/a n/a n/a n/a n/a n/a n/a n/ | 19.0 | 9% |
| Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) Comm. Systems Installer/Repairer (149) Computer Installer/Repair (150) Construction (151) Drafting (152) Electrical/Electronics Equip Installers/Repairers (043) Graphic & Printing Equip. Operators (154) Graphic Design/Commercial Art (153) Heating, AC & Refrigeration (155) Machine Shop Assistant (156) Manufacturing (157) Mechanical Drafting (158) (141) Other Industrial Occupations (164) Precision Metal Worker (159) Protective Services/Law Enforcement/Fire Fighter (160) Radio & TV Broadcasting (161) | 52 49 181 5 6 129 51 7 6 84 203 97 33 73 6 18 32 28 259 115 28 1 | 4 27 2 19 7 4 4 59 14 29 1 9 | 1 3 0 1 1 1 0 0 2 0 1 | 8.0 n/a n/a n/a n/a n/a n/a n/a n/ | 19.0 | 9% |
| Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) Comm. Systems Installer/Repairer (149) Computer Installer/Repair (150) Construction (151) Drafting (152) Electrical/Electronics Equip Installers/Repairers (043) Graphic & Printing Equip. Operators (154) Graphic Design/Commercial Art (153) Heating, AC & Refrigeration (155) Machine Shop Assistant (156) Manufacturing (157) Mechanical Drafting (158) (141) Other Industrial Occupations (164) Precision Metal Worker (159) Protective Services/Law Enforcement/Fire Fighter (160) Radio & TV Broadcasting (161) | 52 49 181 5 6 129 51 7 6 84 203 97 33 73 6 18 32 28 259 115 28 1 | 4 27 2 19 7 4 4 59 14 29 1 9 | 1 3 0 1 1 1 0 0 2 0 1 | 8.0 n/a n/a n/a n/a n/a n/a n/a n/ | 19.0 | 9% |

| Welding (163) | 35 | 4 | 0 | n/a | I | - 1 |
|--|---------|--------|------|-------|-------|-----|
| Vocational Technical Miscellaneous | 468 | 45 | 9 | n/a | 9.0 | 20% |
| Career Awareness and Development (166) | 81 | 15 . | 0 | n/a | ' ' | · · |
| Cooperative Vocational Education (056) | 371 | 30 | 9 | n/a | • | 1 |
| Specialized Vocational Education (165) | 16 | | | n/a | 1 | l |
| Column Totals | 125,268 | 25,002 | 2142 | 826.0 | 2,934 | 12% |

* Refers to an Elementary Assignment in which an individual teaches all subjects.



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^{**} Public speaking or debate. Does not refer to Speech/Language Impairment.

Table 9: New Demand -- Downstate [FT]

| Table 9: New Demand - Downstate | | Daves | | | : : : : : : : : : : : : : : : : : : : | |
|--|---------------|---------------|------------------------|-----------------------|---------------------------------------|--|
| MAIN ASSIGNMENT | State [FT] | Down State | Total New Positions | Unfilled Positions | NEW DEMAND | |
| *Self Contained (055) | 40,973 | 31,604 | 2,318 | 31.0 | 2,349 7% | |
| Art (033) | 2,439 | 2,365 | 125 | 5.5 | 131 6% | |
| At Risk (PreK), (067) | 1,271 | 906 | 130 | n/a | 130 14% | |
| Audio Visual (051) | 19 | 21 | 1 | n/a | 1 5% | |
| Bilingual Education (087) | 2009 | 1,172 | 214 | 34.5 | 249 21% | |
| Community Education (064) | 17 | 19 | 1 | 0.0 | 1 5% | |
| Consumer Education (038) | 137 | 148 | 6 | 0.0 | 6 4% | |
| Driver Education (037) | 628 | 639 | 15 | 0.0 | 15 2% | |
| English as a Second Language (059) | 525 | 516 | 61 | 4.5 | 66 13% | |
| Gifted Education (065) | 669 | 745 | 46 | 3.0 | 49 7% | |
| Health Education (071) | 552 | 572 | 36 | 2.0 | 3 8 7% | |
| Learning/Resource Center-Library (057) | 461 | 429 | 25 | 16.1 | 41 10% | |
| Physical Education (036) | 6,772 | 6,058 | 326 | 12.8 | 339 6% | |
| Reading Improvement (NonTitle I) (085) | 756 | 839 | 71 | 4.5 | 76 9% | |
| Z - Other Subject/Program Not Listed (047) | 3,619 | 1,730 | 181 | 42.2 | 223 13% | |
| COMPUTER EDUCATION/TECHNOLOGY | 1,309 | ., | 1,143 | 4.0 | 11 1% | |
| Computer Literacy/Technology (093) | 1,145 | 1,065 | 73 | n/a | 73 7% | |
| Computer Programming (094) | 164 | 78 | 5 | n/a | 5 6% | |
| ENGLISH | | | · · | | · · · · · · · · · · · · · · · · · · · | |
| Business English (028) | 87 | 9 | 0 | n/a | | |
| Dramatics (005) | 97 | 103 | 3 | n/a | 3 3% | |
| English (001) | 5,062 | 4,474 | 316 | 1.5 | 318 7% | |
| Journalism (004) | 42 | 45 | 2 | 1.0 | 3 7% | |
| Language Arts (058) | 2,927 | 2,898 | 303 | n/a | 303 10% | |
| Other English (006) | 282 | 295 | 12 | n/a | 12 4% | |
| | 801 | 828 | 68 | 1.0 | 69 8% | |
| Reading (002) | 209 | 198 | 13 | 1.9 | 15 8% | |
| Speech (003)** | . 209 | 130 | | 1.9 | 13 070 | |
| FOREIGN LANGUAGE | 469 | 487 | 24 | 4 5 | 26 50/ | |
| French (022) | 1 1 | | 24 | 1.5 | 26 5% | |
| German (023) | 167 | 191 | 9 | 0.0 | 9 5% | |
| Japanese (068) | 5 | 8 | 4 | 1.0 | 1 13% | |
| Latin (024) | 36 | 47 | 1 | 0.8 | 2 4% | |
| Other Foreign Language (026) | 98 | 40 | 3 | n/a | 3 8% | |
| Russian (069) | 6 | 6 | | 0.0 | | |
| Spanish (025) | 1,617 | 1,625 | 130 | 13.9 | 144 9% | |
| MATHEMATICS | | | | | | |
| Algebra (018) | 1,949 | 2,013 | 130 | 0.0 | 130 6% | |
| Basic and/or General Math (088) | 2,967 | 2,994 | 252 | 8.8 | 261 9% | |
| Business Math (027) | 82 | 27 | 3 | n/a | 3 11% | |
| Geometry (019) | 536 | 560 | 26 | 0.0 | 26 5% | |
| NonTitle I Remedial Math (086) | 20 | 22 | 1 | 0.0 | 1 5% | |
| Other Math (021) | 924 | 375 | 12 | 1.0 | 13 3% | |
| Trigonometry (020) | 80 | 81 | | n/a | | |
| MUSIC | | - | | | | |
| Instrumental Music (035) | 1,517 | 1,519 | 134 | n/a | 134 9% | |
| Vocal Music (034) | 2,158 | 2,159 | 155 | n/a | 155 7% | |



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| NATURAL SCIENCE | 11 | | | | |
|--|-------|---------------|-------|-------|-----------------|
| Biology (014) | 1,450 | 1.252 | 99 | 7.5 | 107 9% |
| Chemistry (015) | 791 | 707 | 32 | 1.5 | 34 5% |
| Earth Science (048) | 288 | 282 | 18 | 0.0 | 18 6% |
| General Science (013) | 2,537 | 2,433 | 203 | n/a | 203 8% |
| Other Science (017) | 308 | 236 | 27 | n/a | 27 11% |
| Physical Science (049) | 325 | 331 | 26 | 1.0 | 27 8% |
| Physics (016) | 382 | 346 | 24 | 1.5 | 26 7% |
| SPECIAL EDUCATION | | | | | |
| Adapted P.E. (096) | 115 | 130 | 10 | 2.0 | 12 9% |
| Behavior Disordered (078) | 2,242 | 1,975 | 268 | 84.5 | 3 53 18% |
| Cross Categorical (097) | 3,093 | 2,100 | 218 | 83.0 | 301 14% |
| Deaf (073) | 374 | 233 | 24 | 0.0 | 24 10% |
| Early Childhood (074) | 1,053 | 971 | 99 | 10.0 | 109 11% |
| Educationally Handicapped (075) | 88 | 93 | 9 | 0.0 | 9 10% |
| EMH (072) | 1,213 | 1,007 | 59 | 9.0 | 68 7% |
| Hard of Hearing (098) | 273 | 286 | 24 | 1.9 | 26 9% |
| Homebound/Hospital (099) | 32 | 19 | | n/a | |
| Learning Disabled (076) | 6,855 | 5 ,977 | 540 | 5.0 | 545 9% |
| Multiply Handicapped (082) | 182 | 114 | 15 | n/a | 15 13% |
| Other/General Special Education (050) | 1.616 | 1,089 | 77 | 115.1 | 192 18% |
| Physically Handicapped (077) | 283 | 136 | 9 | 48.0 | 57 42% |
| Severe/Profound Mentally Handicap. (089) | 218 | 179 | 15 | 12.0 | 27 15% |
| Speech and Language Impaired (079) | 2,235 | 2,453 | 207 | 135.4 | 342 14% |
| TMH (080) | 763 | 638 | 54 | 5.0 | 59 9% |
| Visually Impaired (081) | 262 | 2 2 5 | 14 | 9.0 | 2 3 10% |
| SOCIAL SCIENCE | | • • | • | **** | |
| Civics (007) | 172 | 174 | 12 | 0.0 | 12 7% |
| Economics (010) | 69 | 71 | 3 | 0.0 | 3 4% |
| General &/or Other Social Studies (012) | 2,556 | 2,391 | 196 | 0.0 | 196 8% |
| Geography (008) | 311 | 287 | 16 | 0.0 | 16 6% |
| History (009) | 2,297 | 1,906 | 105 | 1.0 | 106 6% |
| Psychology (011) | 101 | 114 | 6 | 0.6 | 7 6% |
| TITLE 1 | 1 1 | ٠ | | | |
| Title I Remedial Math (084) | 237 | 216 | 13 | 0.0 | 13 6% |
| Title I Remedial Reading (083) | 3,335 | 2,047 | 111 | 1.0 | 112 5% |
| VOCATIONAL TECHNICAL PROGRAMS | | | · | | •• |
| Agriculture | 302 | 3 | 13 19 | 0.5 | 20 6% |
| Agricultural Business & Mgt. (101) | 95 | 102 | 6 | n/a | 6 |
| Agricultural Mechanization (102) | 13 | 15 | | n/a | |
| Agricultural Resources/Conservation (103) | 3 | 3 | | n/a | ł |
| Agricultural Sciences (104) | 82 | 81 | 6 | n/a | 6 |
| Horticulture Services (105) | 29 | 28 | 1 | n/a | 1 |
| Orientation to Agriculture (100) | 67 | 71 | 6 | n/a | 6 |
| Other Agricultural Occupations (106) | 13 | 13 | _ | n/a | |
| Business, Marketing & Management | 1,382 | 1,2 | 51 58 | 4.2 | 90 7% |
| Accounting/Bookkeeping (108) | 298 | 293 | 14 | n/a | 90 7% |
| Administrative Assistant/Secretarial (109) | 24 | 27 | | n/a | · · |
| Banking & Financial Support (110) | 15 | 6 | 1 | n/a | 1 |
| Business Admin. & Management (111) | 25 | 26 | 2 | n/a | 2 |
| Business Computer Programming (112) | 20 | 20 | 1 | n/a | 1 |
| Enterprise Management (113) | 5 | 5 | 1 | n/a | 1 |
| Information/Data Processing) (060) | 137 | 131 | 8 | n/a | 8 |
| Legal Administrative Assistant (114) | 4 | 4 | J | n/a | l |
| Legal Administrative Assistant (114) | 1 4 | ¬ | | 11/4 | I |

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| Marketing Operations (115) | 16 | 18 | | n/a | |
|---|---|---|---|---|--|
| Medical Administrative Assistant (116) | 0 | 1 | | n/a | |
| Orientation to Business Occupations (107) | 685 | 628 | 26 | n/a | 26 |
| Other Business Occupations (118) | 145 | 84 | 5 | n/a | 5 |
| Product Marketing (117) | 8 | 8 | | n/a | |
| Family & Consumer Sciences | 1,130 | 1,194 | 46 | 6.0 | 52 4% |
| Child Care & Guidance (129) | 189 | 213 | 8 | n/a | 8 |
| Clothing & Apparel (130) | 94 | 106 | 2 | n/a | 2 |
| Cosmetology (131) | 23 | 16 | 1 | n/a | 1 |
| Custodial/Housekeeping/Home Serv. (132) | 9 | 10 | | n/a | i |
| Foods Services Occupations (133) | 149 | 165 | 4 | n/a | 4 |
| Foods Services/Lodging Mgt. (134) | 13 | 11 | 2 | n/a | 2 |
| Home Furnishings (135) | 3 | 3 | 1 | n/a | 1 |
| Hospitality (136) | 0 | | | n/a | _ |
| Occupation of Homemaking (137) | 183 | 211 | 10 | n/a | 10 |
| Orientn to F&CS/Foods & Nutrition (128) | 367 | 352 | 12 | n/a | 12 |
| Other F&CS Occupations (140) | 97 | 104 | 4 | n/a | 4 |
| Social Work (138) | 2 | 2 | 2 | n/a | 2 |
| Teacher Aide (139) | 1 | | _, | n/a | |
| Health Occupations | 72 | 79 | 9 | 0.0 | 9 11% |
| Clinical Laboratory (120) | 0 | 1 | | n/a | _ |
| Dental Assistant (121) | 1 1 | 1 | 1 | n/a | 1 |
| Medical Office/Assistant (122) | 2 | 2 | 1 | n/a | 1 |
| Medical Records (123) | | | _ | n/a | |
| Nursing Assistant/Aide (124) | 28 | 22 | 3 | n/a | 3 |
| Nursing Services (125) | 13 | 16 | | n/a | |
| Ophthalmic Services (126) | ן ו | 7 | | n/a | _ |
| | 1 4-1 | ~ 4 | _ | | |
| Orientation to Health Occupations (119) | 15 | 24 | 3 | n/a | 3 |
| Other Health Occupations (127) | 12 | 12 | 1 | n/a | 1 |
| Other Health Occupations (127) Industrial | 12 1,558 | 12 1,486 | 1 64 | n/a 16.0 | 1 80 5% |
| Other Health Occupations (127) Industrial Architectural Drafting (142) | 12 1 ,558 52 | 12 1,486 52 | 1 | n/a 16.0 n/a | . 1 |
| Other Health Occupations (127) Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) | 12 1 ,558 52 49 | 12 1,486 52 58 | 1 64 2 | n/a 16.0 n/a n/a | 1 80 5% 2 |
| Other Health Occupations (127) Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) | 12 1,558 52 49 181 | 12 1,486 52 58 169 | 1 64 | n/a 16.0 n/a n/a n/a | 1 80 5% |
| Other Health Occupations (127) Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) | 12 1,558 52 49 181 5 | 12 1,486 52 58 169 3 | 1 64 2 | n/a 16.0 n/a n/a n/a n/a | 1 80 5% 2 3 |
| Other Health Occupations (127) Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) | 12 1,558 52 49 181 5 6 | 12 1,486 52 58 169 3 6 | 1 64 2 3 | n/a 16.0 n/a n/a n/a n/a n/a | 1 80 5% 2 3 |
| Other Health Occupations (127) Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) | 12 1,558 52 49 181 5 6 | 12 1,486 52 58 169 3 6 | 1 64 2 3 1 3 | n/a 16.0 n/a n/a n/a n/a n/a n/a | 1 80 5% 2 3 1 3 |
| Other Health Occupations (127) Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) | 12 1,558 52 49 181 5 6 | 12 1,486 52 58 169 3 6 117 45 | 1 64 2 3 1 3 2 | n/a 16.0 n/a n/a n/a n/a n/a n/a n/a n/a | 1 80 5% 2 3 1 3 2 |
| Other Health Occupations (127) Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) Comm. Systems Installer/Repairer (149) | 12 1,558 52 49 181 5 6 129 51 | 12 1,486 52 58 169 3 6 117 45 3 | 1 64 2 3 1 3 2 2 | n/a 16.0 n/a n/a n/a n/a n/a n/a n/a n/ | 1 80 5% 2 3 1 3 2 2 |
| Other Health Occupations (127) Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) Comm. Systems Installer/Repairer (149) Computer Installer/Repair (150) | 12 1,558 52 49 181 5 6 129 51 7 | 12 1,486 52 58 169 3 6 117 45 3 6 | 1 64 2 3 1 3 2 2 1 | n/a 16.0 n/a n/a n/a n/a n/a n/a n/a n/ | 1 80 5% 2 3 1 3 2 2 1 |
| Other Health Occupations (127) Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) Comm. Systems Installer/Repairer (149) Computer Installer/Repair (150) Construction (151) | 12 1,558 52 49 181 5 6 129 51 7 6 | 12 52 58 169 3 6 117 45 3 6 | 1 64 2 3 1 3 2 2 2 1 5 | n/a 16.0 n/a n/a n/a n/a n/a n/a n/a n/a n/a n/ | 1 80 5% 2 3 1 3 2 2 1 5 |
| Other Health Occupations (127) Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) Comm. Systems Installer/Repairer (149) Computer Installer/Repair (150) Construction (151) Drafting (152) | 12 1,558 52 49 181 5 6 129 51 7 6 84 203 | 12 52 58 169 3 6 117 45 3 6 91 | 1 64 2 3 1 3 2 2 1 5 | n/a 16.0 n/a n/a n/a n/a n/a n/a n/a n/a n/a n/ | 1 80 5% 2 3 1 3 2 2 1 5 |
| Other Health Occupations (127) Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) Comm. Systems Installer/Repairer (149) Computer Installer/Repair (150) Construction (151) Drafting (152) Electrical/Electronics Equip Installers/Repairers (043) | 12 1,558 52 49 181 5 6 129 51 7 6 84 203 97 | 12 52 58 169 3 6 117 45 3 6 91 156 | 1 64 2 3 1 3 2 2 2 1 5 | n/a 16.0 n/a n/a n/a n/a n/a n/a n/a n/a n/a n/ | 1 80 5% 2 3 1 3 2 2 1 5 |
| Other Health Occupations (127) Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) Comm. Systems Installer/Repairer (149) Computer Installer/Repair (150) Construction (151) Drafting (152) Electrical/Electronics Equip Installers/Repairers (043) Graphic & Printing Equip. Operators (154) | 12 1,558 52 49 181 5 6 129 51 7 6 84 203 97 33 | 12 1,486 52 58 169 3 6 117 45 3 6 91 156 98 36 | 1 64 2 3 1 3 2 2 1 5 5 4 | n/a 16.0 n/a n/a n/a n/a n/a n/a n/a n/a n/a n/ | 1 80 5% 2 3 1 3 2 2 1 5 5 4 |
| Other Health Occupations (127) Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) Comm. Systems Installer/Repairer (149) Computer Installer/Repair (150) Construction (151) Drafting (152) Electrical/Electronics Equip Installers/Repairers (043) Graphic & Printing Equip. Operators (154) Graphic Design/Commercial Art (153) | 12 1,558 52 49 181 5 6 129 51 7 6 84 203 97 33 73 | 12 52 58 169 3 6 117 45 3 6 91 156 98 36 55 | 1 64 2 3 1 3 2 2 1 5 | n/a 16.0 n/a n/a n/a n/a n/a n/a n/a n/a n/a n/ | 1 80 5% 2 3 1 3 2 2 1 5 |
| Other Health Occupations (127) Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) Comm. Systems Installer/Repairer (149) Computer Installer/Repair (150) Construction (151) Drafting (152) Electrical/Electronics Equip Installers/Repairers (043) Graphic & Printing Equip. Operators (154) Graphic Design/Commercial Art (153) Heating, AC & Refrigeration (155) | 12 1,558 52 49 181 5 6 129 51 7 6 84 203 97 33 73 6 | 12 52 58 169 3 6 117 45 3 6 91 156 98 36 55 | 1 64 2 3 1 3 2 2 1 5 5 4 | n/a 16.0 n/a n/a n/a n/a n/a n/a n/a n/a n/a n/ | 1 80 5% 2 3 1 3 2 2 1 5 5 4 |
| Other Health Occupations (127) Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) Comm. Systems Installer/Repairer (149) Computer Installer/Repair (150) Construction (151) Drafting (152) Electrical/Electronics Equip Installers/Repairers (043) Graphic & Printing Equip. Operators (154) Graphic Design/Commercial Art (153) Heating, AC & Refrigeration (155) Machine Shop Assistant (156) | 12 1,558 52 49 181 5 6 129 51 7 6 84 203 97 33 73 6 18 | 12 52 58 169 3 6 117 45 3 6 91 156 98 36 55 5 | 1 64 2 3 1 3 2 2 1 5 5 4 | n/a 16.0 n/a n/a n/a n/a n/a n/a n/a n/a n/a n/ | 1 80 5% 2 3 1 3 2 2 1 5 5 4 3 |
| Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) Comm. Systems Installer/Repairer (149) Computer Installer/Repair (150) Construction (151) Drafting (152) Electrical/Electronics Equip Installers/Repairers (043) Graphic & Printing Equip. Operators (154) Graphic Design/Commercial Art (153) Heating, AC & Refrigeration (155) Machine Shop Assistant (156) Manufacturing (157) | 12 1,558 52 49 181 5 6 129 51 7 6 84 203 97 33 73 6 18 | 12 52 58 169 3 6 117 45 3 6 91 156 98 36 55 5 | 1 64 2 3 1 3 2 2 1 5 5 4 3 1 2 | n/a 16.0 n/a n/a n/a n/a n/a n/a n/a n/a n/a n/ | 1 80 5% 2 3 1 3 2 2 1 5 5 4 3 |
| Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) Comm. Systems Installer/Repairer (149) Computer Installer/Repair (150) Construction (151) Drafting (152) Electrical/Electronics Equip Installers/Repairers (043) Graphic & Printing Equip. Operators (154) Graphic Design/Commercial Art (153) Heating, AC & Refrigeration (155) Machine Shop Assistant (156) Manufacturing (157) Mechanical Drafting (158) | 12 1,558 52 49 181 5 6 129 51 7 6 84 203 97 33 73 6 18 | 12 52 58 169 3 6 117 45 3 6 91 156 98 36 55 5 | 1 64 2 3 1 3 2 2 1 5 5 4 | n/a 16.0 n/a n/a n/a n/a n/a n/a n/a n/a n/a n/ | 1 80 5% 2 3 1 3 2 2 1 5 5 4 3 |
| Other Health Occupations (127) Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) Comm. Systems Installer/Repairer (149) Computer Installer/Repair (150) Construction (151) Drafting (152) Electrical/Electronics Equip Installers/Repairers (043) Graphic & Printing Equip. Operators (154) Graphic Design/Commercial Art (153) Heating, AC & Refrigeration (155) Machine Shop Assistant (156) Manufacturing (157) Mechanical Drafting (158) Orientn to Indust. Techn Occupations/General Shop | 12 1,558 52 49 181 5 6 129 51 7 6 84 203 97 33 73 6 18 32 28 | 12 52 58 169 3 6 117 45 3 6 91 156 98 36 55 5 5 | 1 64 2 3 1 3 2 2 1 5 5 4 3 1 2 1 | n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a | 1 80 5% 2 3 1 3 2 2 1 5 5 4 3 1 2 |
| Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) Comm. Systems Installer/Repairer (149) Computer Installer/Repair (150) Construction (151) Drafting (152) Electrical/Electronics Equip Installers/Repairers (043) Graphic & Printing Equip. Operators (154) Graphic Design/Commercial Art (153) Heating, AC & Refrigeration (155) Machine Shop Assistant (156) Manufacturing (157) Mechanical Drafting (158) Orientn to Indust. Techn Occupations/General Shop (141) | 12 1,558 52 49 181 5 6 129 51 7 6 84 203 97 33 73 6 18 32 28 | 12 52 58 169 3 6 117 45 3 6 91 156 98 36 55 5 15 36 17 | 1 64 2 3 1 3 2 2 1 5 5 4 3 1 2 1 1 4 | n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a | 1 80 5% 2 3 1 3 2 2 1 5 5 4 3 1 2 1 |
| Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) Comm. Systems Installer/Repairer (149) Computer Installer/Repair (150) Construction (151) Drafting (152) Electrical/Electronics Equip Installers/Repairers (043) Graphic & Printing Equip. Operators (154) Graphic Design/Commercial Art (153) Heating, AC & Refrigeration (155) Machine Shop Assistant (156) Manufacturing (157) Mechanical Drafting (158) Orientn to Indust. Techn Occupations/General Shop (141) Other Industrial Occupations (164) | 12 1,558 52 49 181 5 6 129 51 7 6 84 203 97 33 73 6 18 32 28 | 12 52 58 169 3 6 117 45 3 6 91 156 98 36 55 5 15 36 17 | 1 64 2 3 1 3 2 2 1 5 5 4 3 1 2 1 1 4 5 | n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a | 1 80 5% 2 3 1 3 2 2 1 5 5 4 3 1 2 1 1 1 14 10 |
| Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) Comm. Systems Installer/Repairer (149) Computer Installer/Repair (150) Construction (151) Drafting (152) Electrical/Electronics Equip Installers/Repairers (043) Graphic & Printing Equip. Operators (154) Graphic Design/Commercial Art (153) Heating, AC & Refrigeration (155) Machine Shop Assistant (156) Manufacturing (157) Mechanical Drafting (158) Orientn to Indust. Techn Occupations/General Shop (141) Other Industrial Occupations (164) Precision Metal Worker (159) | 12 1,558 52 49 181 5 6 129 51 7 6 84 203 97 33 73 6 18 32 28 | 12 52 58 169 3 6 117 45 3 6 91 156 98 36 55 5 15 36 17 | 1 64 2 3 1 3 2 2 1 5 5 4 3 1 2 1 1 4 | n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a | 1 80 5% 2 3 1 3 2 2 1 5 5 4 3 1 2 1 |
| Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) Comm. Systems installer/Repairer (149) Computer Installer/Repair (150) Construction (151) Drafting (152) Electrical/Electronics Equip Installers/Repairers (043) Graphic & Printing Equip. Operators (154) Graphic Design/Commercial Art (153) Heating, AC & Refrigeration (155) Machine Shop Assistant (156) Manufacturing (157) Mechanical Drafting (158) Orientn to Indust. Techn Occupations/General Shop (141) Other Industrial Occupations (164) Precision Metal Worker (159) Protective Services/Law Enforcement/Fire Fighter (160) | 12 1,558 52 49 181 5 6 129 51 7 6 84 203 97 33 73 6 18 32 28 259 115 28 | 12 52 58 169 3 6 117 45 3 6 91 156 98 36 55 5 15 36 17 268 116 27 1 | 1 64 2 3 1 3 2 2 1 5 5 4 3 1 2 1 14 5 1 | n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a | 1 80 5% 2 3 1 3 2 2 1 5 5 4 3 1 2 1 1 14 10 1 |
| Industrial Architectural Drafting (142) Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) Aviation Systems/Maintenance (145) Building & Property Maintenance (146) Cabinet Maker/Millworker/Woodwork (147) Carpenter (148) Comm. Systems Installer/Repairer (149) Computer Installer/Repair (150) Construction (151) Drafting (152) Electrical/Electronics Equip Installers/Repairers (043) Graphic & Printing Equip. Operators (154) Graphic Design/Commercial Art (153) Heating, AC & Refrigeration (155) Machine Shop Assistant (156) Manufacturing (157) Mechanical Drafting (158) Orientn to Indust. Techn Occupations/General Shop (141) Other Industrial Occupations (164) Precision Metal Worker (159) | 12 1,558 52 49 181 5 6 129 51 7 6 84 203 97 33 73 6 18 32 28 | 12 52 58 169 3 6 117 45 3 6 91 156 98 36 55 5 15 36 17 | 1 64 2 3 1 3 2 2 1 5 5 4 3 1 2 1 1 4 5 | n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a | 1 80 5% 2 3 1 3 2 2 1 5 4 3 1 2 1 1 14 10 |



| Welding (163) | 35 | 41 | 2 | n/a | 2 |
|--|---------|---------|--------|-------|--------|
| Vocational Technical Miscellaneous | 468 | | 455 20 | n/a | 29 6% |
| Career Awareness and Development (166) | 81 | 75 | 12 | n/a | 12 |
| Cooperative Vocational Education (056) | 371 | 363 | 8 | n/a | 8 |
| Specialized Vocational Education (165) | 16 | 17 | | n/a | |
| Column Totals | 125,268 | 105,117 | 7,980 | 758.2 | 11,701 |



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Refers to an Elementary Assignment in which an individual teaches all subjects.

^{**} Public speaking or debate. Does not refer to Speech/Language Impairment.

Appendix A: Educational Personnel by Main Position

| | Full T | ime | | | Time | |
|-----------------------------|-------------------|---------|---|--------|---------|---------|
| | Freq. | Percent | | Freq. | Percent | TOTAL |
| Administrative Staff | 8,100 | | | 146 | | |
| 1 Regional Supt. | 45 | 0.0 | | | | 45 |
| 2 Asst. Regional Supt. | 47 | 0.0 | | 4 | | 51 |
| 3 District Supt. | 853 | 0.6 | | 47 | 2.4 | 900 |
| 4 Admin Assistant | 194 | 0.1 | | 9 | 0.1 | 203 |
| 5 Asst. District Supt. | 293 | 0.2 | | 7 | 0.3 | 300 |
| 6 Business Manager | 167 | 0.1 | | 7 | 0.1 | 174 |
| 7 Elem Princ | 2,271 | 1.6 | | 18 | 0.6 | 2,289 |
| 8 Asst Elem Princ | 359 | 0.2 | | 3 | | 362 |
| 9 Jr High Princ | 549 | 0.4 | | 2 | | 551 |
| 10 Asst. Jr. High Princ | 347 | 0.2 | | | 0.1 | 347 |
| 11 HS Princ | 717 | 0.5 | | 9 | 0.5 | 726 |
| 12 Asst HS Princ | 660 | 0.5 | | . 7 | 0.4 | 667 |
| 13 Jr High Dean | 109 | 0.1 | | 1 | 0.1 | 110 |
| 14 Sr High Dean | 454 | 0.3 | | 3 | 0.3 | 457 |
| 25 Director | 896 | 0.6 | | 26 | 0.8 | 922 |
| 52 Assistant Director | 81 | 0.1 | | 3 | 0.0 | 84 |
| | 12 | 0.0 | | • | | 12 |
| 49 Deputy Supt. | 6 | 0.0 | | | | 6 |
| 50 Other Admin | 40 | 0.0 | | | | 40 |
| 51 Associate Supt. | 40 | 0.0 | | | | 40 |
| instructional Staff | 424 470 | | | 5,385 | | ļ |
| Instructional Staff | 121,179 19,833 | 14.1 | - | 1,154 | 18.1 | 20,987 |
| 18 Spec Ed Teacher (all) | 19,033 | 14.1 | | 1,154 | 10.1 | 20,367 |
| 19 Elem Teacher | 55,084 | 38.6 | | 2,071 | 34.5 | 57,155 |
| 20 Jr/Middle Teacher | 16,731 | 11.7 | | 628 | 11.8 | 17,359 |
| 22 HS Teacher | 29,531 | 21.0 | | 1,532 | 23.0 | 31,063 |
| 22 HS Teacher | 25,551 | 21.0 | | 1,002 | 20.0 | 0.,000 |
| Professional Staff | 7,307 | | | 606 | | |
| 23 Guidance Counselor | 2,831 | 2.0 | - | 81 | 0.8 | 2,912 |
| 27 Psychologist | 1.322 | 1.0 | | 181 | 0.8 | 1,503 |
| 32 Social Worker | 2,187 | 1.6 | | 237 | 2.4 | 2,424 |
| 33 Nurse | 953 | 0.7 | | 107 | 0.8 | 1,060 |
| 41 Intern Psychologist | 10 | 0.0 | | 101 | 0.0 | 10 |
| 42 Intern Soc Worker | 4 | 0.0 | | | | 4 |
| 42 Intern Soc vvorker | 7 | 0.0 | | | | " |
| Other Certified Staff | 5,192 | | | 221 | | } |
| 24 Library/Media Specialist | 1,892 | 1.3 | - | 40 | 0.3 | 1,932 |
| 38 Instructional TV | 1,002 | 0.0 | | | 0.0 | 1 |
| 39 Adult Education | 89 | 0.1 | | 36 | 0.5 | 125 |
| | 42 | 0.0 | | 6 | 0.5 | 48 |
| 40 Attendance Officer | 9 | 0.0 | | O | 0.5 | 9 |
| 43 Occupational Therapist | | | | 4 | | |
| 44 Physical Therapist | 16 | 0.0 | | 1 | 0.4 | 17 |
| 45 Audiologist | 6 | 0.0 | | 2 | 0.1 | 8 |
| 46 Diagnostician | 38 | 0.0 | | 2 | • | 40 |
| 15 Supervisor | 512 | 0.4 | | 12 | 0.1 | 524 |
| 16 Consultant | 925 | 0.6 | | 27 | | 952 |
| 17 Coordinator | 1,662 | 1.2 | _ | 95 | 0.8 | 1,757 |
| Total Full Time | 275,456 | 100 | | 12,570 | 100 | 288.026 |
| | | | = | | | |



Appendix B: 1998-99 Supply by Teaching Assignment

| | ·. | Sup | | | | |
|--|----------|--------------|---------|-----|------------------------|------------------------------|
| ALAMA ACCIONISTRAT | State | #-of | Reserve | . 2 | Endomoment(a) | Cartificate (lovel) |
| MAIN ASSIGNMENT | [FT] | Entitlements | Pool | | Endorsement(s) | Certificate (level) |
| *Self Contained (055) | 40,973 | 1,793 | 1 | | ART, DA | 03 |
| Art (033) | 2,439 | | 3,944 | ŀ | #04 | 03M, 09, 09M, 09H, 10 |
| At Risk (PreK), (067) | 1,271 | 592 | 13,868 | | AV, MED. MTV | 02, 04 |
| Audio Visual (051) | 19 | 32 | 1 | | | 0014 00 0014 0011 40 20 |
| Bilingual Education (087) | 2009 | 38 | 2,103 | l | B (lang.)/ #29 | 03M, 09, 09M, 09H, 10, 29 |
| Community Education (064) | 17 | 400 | 075 | | 0504 0544 00 | |
| Consumer Education (038) | 137 | 122 | 675 | | CERM, CEHM, BB | 09, 09H |
| Driver Education (037) | 628 | 59 | | | DRED. SDE | 03, 03M, 09, 09M, 09H |
| English as a Second Language (059) | 525 | 40 | 287 | l | ESL | 03M, 09, 09M, 09H, 10 |
| Gifted Education (065) | 669 | 0 | 18 | | GIED | 03, 03M, 09, 09M, 09H |
| Health Education (071) | 552 | 138 | l | | HEED | 03M, 09, 09M, 09H, 10 |
| Learning/Resource Center-Library (057) | 461 | 32 | 1,117 | | MED. LIBR | 03M, 09, 09M, 09H, 10 |
| Physical Education (036) | 6,772 | 788 | | i . | PE | 03M, 09, 09M, 09H, 10 |
| Reading Improvement (NonTitle I) (085) | 756 | 85 | 2,066 | | READ | 03M, 09, 09M, 09H, 10 |
| Z - Other Subject/Program Not Listed (047) | 3,619 | | | | | |
| COMPUTER EDUCATION/TECHNOLOGY | 1,309 | 43 | 443 | | COSC. BCPS | ' |
| Computer Literacy/Technology (093) | 1,145 | 31 | 362 | | cosc | 03M, 09, 09M, 09H, 10 |
| Computer Programming (094) | 164 | 43 | 443 | | BCPS, COSC | 03M, 09, 09M, 09H, 10 |
| ENGLISH | | 1. | | | | |
| Business English (028) | 87 | 699 | 7,286 | | BUEN. ENGL | 09, 09M, 09H, 10 |
| Dramatics (005) | 97 | 127 | 1,199 | | SPTH. TH, THAR, THDR | 03M, 09, 09M, 09H, 10 |
| English (001) | 5,062 | 699 | 7,022 | | ENGL | 0 9, 0 9H, 10 |
| Journalism (004) | 42 | 35 | 275 | | JO | 0 9 , 0 9Н |
| Language Arts (058) | 2,927 | 1,976 | 23,462 | | LA | 0 3M , 10 |
| Other English (006) | 282 | 0 | 1 | | ALIT. COMP. ELIT. LIT | 0 9 , 0 9H, 10 |
| Reading (002) | 801 | 85 | 2,066 | | READ | 03M, 09, 09M, 09H, 10 |
| Speech (003)** | 209 | 244 | 2,360 | | SP. SPCO, SPPA, SPTH | 03M, 09, 09M, 09H, 10 |
| FOREIGN LANGUAGE | | | | | | |
| French (022) | 469 | 99 | 1,732 | | FREN | 03M, 09, 09M, 09H, 10 |
| German (023) | 167 | 22 | 726 | | GERM | 03M, 09, 09M, 09H, 10 |
| Japanese (068) | 5 | 2 | 37 | | JAPA | 03M, 09, 09M, 09H, 10 |
| Latin (024) | 36 | 9 | 153 | | LATI | 03M, 09, 09M, 09H, 10 |
| | | 27 | 240 | | CHIN. GREE, HEB. ITAL. | 2014 20 2014 2011 42 |
| Other Foreign Language (026) | 98 | 27 | 210 | | KORE, POLI. PORT | 03M, 09, 09M, 09H, 10 |
| Russian (069) | 6 | 8 | 105 | | RUSS | 03M, 09, 09M, 09H, 10 |
| Spanish (025) | 1,617 | 394 | 2,986 | | SPAN | 03M, 09, 09M, 09H, 10 |
| MATHEMATICS | | ļ <u>-</u> | | | MATH | 03M, 09, 09M, 09H, 10 |
| Algebra (018) | 1,949 | 798 | 7,247 | | MATH | 03M, 09, 09M, 09H, 10 |
| Basic and/or General Math (088) | 2,967 | 798 | 7,247 | | MATH | 03M, 09, 09M, 09H, 10 |
| Business Math (027) | 82 | 96 | 778 | | BUAR, BUM, BB | 0 9 , 0 9H |
| Geometry (019) | 536 | 798 | l # | | MATH | 03M, 09, 09M, 09H, 10 |
| NonTitle I Remedial Math (086) | 20 | 798 | 7,247 | | MATH | 03M, 09, 09M, 09H, 10 |
| Other Math (021) | 924 | 798 | 7,247 | | MATH | 03M, 09, 09M, 09H, 10 |
| Trigonometry (020) | 80 | 798 | 7,247 | | MATH | 03M, 09, 09M, 09H, 10 |
| MUSIC | | 281 | 4,926 | | MUS | 03M,10 |
| Instrumental Music (035) | 1,517 | 7 | 222 | | MUSI | 09, 09H |
| Vocal Music (034) | 2,158 | 9 | 247 | | MUSV | 09, 0 9H |
| NATURAL SCIENCE | <u> </u> | [| | | <u> </u> | |
| Biology (014) | 1,450 | 547 | 3,530 | | BI. BISC. LISC. NSBI | 03M, 09, 09M, 09H, 10 |
| mistry (015) | 791 | 232 | 1,590 | | сн | 09, 09H, 10 |
| th Science (048) | 288 | 20 | 219 | | ES | 09, 09H |

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| General Science (013) | 2,537 | 771 | 7,136 | GESC, GSM AN, ASMY, BO, GEOL. | 03M, 09, 09M, 09H, 10 |
|---|--------------|--------------------|----------------|--|--|
| Other Science (017) | 308 | 496 | 3, 320 | PHGY, ZOO | 03M, 09, 09M, 09H, 10 |
| Physical Science (049) | 325 | 219 | 2,371 | PHSC | 4 03M,10 |
| Physics (016) | 382 | 152 | 1,052 | PHYS | 09, 09H, 10 |
| SPECIAL EDUCATION | | anno forma en care | | State to the second sec | the state of the s |
| Adapted P.E. (096) | 115 | 788 | 9, 554 | PE | 10.0 |
| Behavior Disordered (078) | 2,242 | 517 | 6,162 | SED | 10.0 |
| Cross Categorical (097) | 3,093 | | | | |
| ⇒ Deaf (073) | 374 | 45 | 1,000 | DHH | 10.0 |
| Early Childhood (074) | 1,053 | 0 | 이 | ECT | 10.0 |
| Educationally Handicapped (075) | 88 | 517 | 6,162 | SED | 10.0 |
| EMH (072) | 1,213 | 183 | 5,173 | EMH | 10.0 |
| Hard of Hearing (098) | 273 | 45 | 1,000 | DHH, HH | 10.0 |
| Homebound/Hospital (099) | 32 | 720 | 0.004 | LD | 40.0 |
| Learning Disabled (076) | 6,855 | 736 | 8,631 | LD | 10.0 |
| Multiply Handicapped (082) | 182 | | | | |
| Other/General Special Education (050) | 1,616 | | 505 | РН | 10.0 |
| Physically Handicapped (077) | 283 | 79 | 565 | TMH | 10.0 |
| Severe/Profound Mentally Handicap. (089) | 218 2,235 | 78 224 | 2,358 2,363 | SLI | 10.0 [.] 10.0 |
| Speech and Language Impaired (079) | 763 | 78 | 2,363 | TMH | 10.0 |
| TMH (080) | 262 | / / / | 2,338 | BPS | 10.0 |
| Visually Impaired (081) | 202 | | 293 | | 03M, 10 |
| SOCIAL SCIENCE | 172 | 373 | 2,410 | CIPS | 10.0 |
| Civics (007) | 69 | 238 | 1,918 | EC, BUEC, BB | 09, 09H |
| Economics (010) General &/or Other Social Studies (012) | 2,556 | 2,819 | 30,462 | SOSC, SOST, POSC, SO | 00, 0011 |
| | 311 | 199 | 1,211 | GEOG. GGEO. PHGE | 03M, 09, 09M, 09H |
| Geography (008) History (009) | 2,297 | 1,789 | 11,777 | HI, USHI, WOHI, AMHI, EU | |
| Psychology (011) | 101 | 108 | 949 | PS | 09, 09H |
| TITLE 1 | | | | | The second secon |
| Title I Remedial Math (084) | 237 | 85 | 2,066 | READ | 03M, 09, 09M, 09H, 10 |
| Title I Remedial Reading (083) | 3,335 | 798 | 7,247 | MATH | 03M, 09, 09M, 09H, 10 |
| VOCATIONAL TECHNICAL PROGRAMS | | | | ' | |
| Agriculture | 302 | 46 | 435 | AG, AGED | |
| Agricultural Business & Mgt. (101) | 95 | 40 | 82 | ABM | 09 |
| Agricultural Mechanization (102) | 13 | 13 | 62 | APM. AGME | 09 |
| Agricultural Resources/Conservation (103) | 3 | 12 | 56 | RES. AGRF | 09 |
| Agricultural Sciences (104) | 82 | | 365 | AG | 09 |
| Horticulture Services (105) | 29 | 19 | 73 | HO, HOR | 09 |
| Orientation to Agriculture (100) | 67 | 46 | 435 | AG, AGED | 09 |
| Other Agricultural Occupations (106) | 13 | 46 | 435 | AG, AGED | 09 |
| Business, Marketing & Management | 1,382 | 153 | 1,489 | BMM, BCTC | |
| Accounting/Bookkeeping (108) | 298 | 74 | 865 | ACBO. ACC, BOOK, REKE | |
| Administrative Assistant/Secretarial (109) | 24 | 3 | 84 | IPS, SPRA | 09 |
| Banking & Financial Support (110) | 15 | 74 | 374 | ACC | 09 |
| Business Admin. & Management (111) | 25 | 102 | 1 1 | BB. BCTC. GEBU | 09 |
| Business Computer Programming (112) | 20 | 12 | 81 | BCPS | 09 |
| Enterprise Management (113) | 5 | | - | | 09 |
| Information/Data Processing) (060) | 137 | 75 | 473 | INPR. DAPR | 09 |
| Legal Administrative Assistant (114) | 4 | 2 | 414 | IPS. BULA | 09 |
| Marketing Operations (115) | 16 | 32 | 199 | MAR. BCTC | 09 |
| 1edical Administrative Assistant (116) | 0 | | | i | 09 |
| BEST COPY AVAILABLE | | T-19 | 42 | | |

| Orientation to Business Occupations (107) | 685 | 96 | 479 | BB, GEBU | 09 |
|--|-------|------|-------|------------------------------------|----|
| Other Business Occupations (118) | 145 | 202 | 1,516 | BB.BUED | 09 |
| Product Marketing (117) | 8 | 32 | 199 | MAR. BCTC | 09 |
| Family & Consumer Sciences | 1,130 | 58 | . 113 | FACS, IFRP | |
| Child Care & Guidance (129) | 189 | 26 | 75 | CDC | 09 |
| Clothing & Apparel (130) | 94 | 10 | 1 1 | FC. CLTE | 09 |
| Cosmetology (131) | 23 | | ٥ | COSM | 09 |
| Custodial/Housekeeping/Home Serv. (132) | 9 | 28 | 99 | імн | 09 |
| Foods Services Occupations (133) | 149 | 19 | : 1 | FN, FONU | 09 |
| Foods Services/Lodging Mgt. (134) | 13 | 19 | 1 1 | FN, FONU | 09 |
| Home Furnishings (135) | 3 | 11 | 129 | IFLE. HHFE | 09 |
| Hospitality (136) | | | 이 | нтнм | 09 |
| Occupation of Homemaking (137) | 183 | 23 | 956 | | 09 |
| Orientn to F&CS/Foods & Nutrition (128) | 367 | 34 | 1 1 | FACS | 09 |
| Other F&CS Occupations (140) | 97 | 26 | 196 | CEHM, CERM | 09 |
| Social Work (138) | 2 | | | | 09 |
| Teacher Aide (139) | 1 | | | | |
| Health Occupations | 72 | | 238 | HEOC | |
| Clinical Laboratory (120) | 이 | 0 | | | 09 |
| Dental Assistant (121) | 1 | 0 | | | 09 |
| Medical Office/Assistant (122) | 2 | 0 | 이 | MASS | 09 |
| Medical Records (123) | 이 | 0 | 이 | MRT NU, NUR, NUPR, NSPT, NUAS, | 09 |
| Nursing Assistant/Aide (124) | 28 | 0 | l ol | NUSE | 09 |
| - | 13 | l | ٥ | NU, NUR, NUPR, NSPT, NUAS. NUSE | 09 |
| Nursing Services (125) | '3 | | " | NOSE | 09 |
| Ophthalmic Services (126) | 15 | | o | HOO, HNO, HOPT | 09 |
| Orientation to Health Occupations (119) | 12 | | 0 | RT, RAD | |
| Other Health Occupations (127) | 1,558 | 19 | 695 | IA, INED. ITE | |
| Industrial Architectural Drafting (142) | 52 | 17 | 167 | DR. DRDE. MD | |
| Auto/Automotive Body Repair (143) | 49 | '0 | 30 | AURE, AUTE, ABR | 09 |
| Auto/Automotive Body Repair (143) Auto/Automotive Mechanic/Techn (144) | 181 | | 30 | AURE, AUTE | 09 |
| | 5 | | _ | TR | 09 |
| Aviation Systems/Maintenance (145) Building & Property Maintenance (146) | 6 | 11 | 27 | CONS | 09 |
| Cabinet Maker/Millworker/Woodwork (147) | 129 | 11 | l 1 | CONS. WO. WOO | 09 |
| Carpenter (148) | 51 | 11 | 105 | CONS. WO, WOO | 09 |
| Comm. Systems Installer/Repairer (149) | 7 | 16 | | INTE, ELEC | 09 |
| Computer Installer/Repair (150) | 6 | | " | | 09 |
| Construction (151) | 84 | 11 | 105 | CONS. WO, WOO | 09 |
| Drafting (152) | 203 | 17 | 40 | DRDE | 09 |
| Electrical/Electronics Equip Installers/Repairers | | , , | , , | | 00 |
| (043) | 97 | 3 | 76 | ELEC. ELEL | 09 |
| Graphic & Printing Equip. Operators (154) | 33 | 4 | 23 | GRCO | 09 |
| Graphic Design/Commercial Art (153) | 73 | 4 | 67 | GRAR. GRCO | 09 |
| Heating, AC & Refrigeration (155) | ` 6 | 0 | 0 | HVAC | 09 |
| Machine Shop Assistant (156) | 18 | 5 | 45 | MFG | 09 |
| Manufacturing (157) | 32 | 5 | 45 | | 09 |
| Mechanical Drafting (158) | 28 | 17 | 40 | f | 09 |
| Orientn to Indust. Techn Occupations/General | ! I | | | | |
| Shop (141) | 259 | 13 | 52 | INTE | 09 |
| Other Industrial Occupations (164) | 115 | 13 | | | 09 |
| © Precision Metal Worker (159) | 28 | 5 | 45 | | 09 |
| rotective Services/Law Enforcement/Fire Fighter (160) | 1 | 0 | o | ' | 09 |
| | • • | | ' . ' | · · ! •) | |
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| Radio & TV Broadcasting (161) Technical Prep/Engineenng-Related Technologies (162) Welding (163) | 14 46 35 | 5 | 0 45 | | rv, ttp | 09 09 09 |
|--|----------------|---|---------|---|---------|----------------|
| Vocational Technical Miscellaneous | 468 | | | | | |
| Career Awareness and Development (166) | 81 | | n/a | | | 09 |
| Cooperative Vocational Education (056) | 371 | 1 | n/a | 1 | | 09 |
| Specialized Vocational Education (165) | 16 | | n/a | | | 09 |
| . Column Totals | 125 268 | | | _ | | |

Definitions:

State [FT]= total of FT personnel by position/teaching assignment.

Entitlements= the #- of entitlements, by area, reported between July 1, 1998 and June 30, 1999. [Duplicate counts]

Reserve Pool= the #- of endorsements of educators currently not working (issued between 7/1/79 & 6/30/99). [Duplicate counts]

Endorsements= field codes used to associate supply with teaching assignments

Certificates= all of the certificates that would apply to the teaching assignment. [Level Endorsements: M= Middle; H= High School]



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Appendix C: 1998-99 Supply and Demand by Teaching Assignment

| Appendix C. 1990-99 Supply at | | | l New | | | | Sup | | |
|--|--------|----------|----------|---------|-----|------------|---------|--------------|---------|
| | State | Re- | | Unfille | | _ | İ | #-of | Reserve |
| MAIN ASSIGNMENT | [FT] | Entering | Beginers | Positio | | Total D | | Entitlements | Pool |
| *Self Contained (055) | 40,973 | 1,234 | | 543.0 | 1% | 3,722 | 9% | 1,793 | • |
| Art (033) | 2,439 | 62 | | | 2% | | 9% | 331 | 3,944 |
| At Risk (PreK), (067) | 1,271 | 60 | 97 | n/a | | 157 | 12% | 592 | 13,868 |
| Audio Visual (051) | 19 | 1 | | n/a | | 1 | 5% | 32 | 750 |
| Bilingual Education (087) | 2009 | 132 | 178 | 34.5 | 2% | 345 | 17% | 38 | 2,103 |
| Community Education (064) | 17 | | 1 | 0.0 | 0% | 1 | 6% | | |
| Consumer Education (038) | 137 | 4 | | 0.0 | 0% | · 6 | 4% | 122 | 675 |
| Driver Education (037) | 628 | 5 | | 0.0 | 0% | 15 | 2% | 59 | 655 |
| English as a Second Language (059) | 525 | 41 | | 4.5 | 1% | 73 | 14% | 40 | 287 |
| Gifted Education (065) | 669 | 30 | | 3.0 | 0% | 50 | 7% | , 0 | 18 |
| Health Education (071) | 552 | 12 | | 2.0 | 0% | 39 | 7% | 138 | 1,563 |
| Learning/Resource Center-Library (057) | 461 | 16 | 11 | 16.1 | 3% | | 9% | 32 | 1,117 |
| Physical Education (036) | 6,772 | 107 | 260 | 78.8 | 1% | 446 | 7% | 788 | 9,554 |
| Reading Improvement (NonTitle I) (085) | 756 | 42 | 30 | 4.5 | 1% | 7 7 | 10% | 85 | 2,066 |
| Z - Other Subject/Program Not Listed (047) | 3,619 | 206 | 193 | 52.2 | 1% | 451 | 12% | | |
| COMPUTER EDUCATION/TECHNOLOGY | 1,309 | 43 | 44 | 11.0 | 1% | 87 | 7% | 43 | 443% |
| Computer Literacy/Technology (093) | 1,145 | 39 | 38 | n/a | | 7 7 | 7% | 31 | 362 |
| Computer Programming (094) | 164 | 4 | 6 | n/a | | 10 | 6% | 43 | 443 |
| ENGLISH | | | | | | | | | |
| Business English (028) | 87 | 2 | 2 | n/a | | 4 | 5% | 699 | 7,286 |
| Dramatics (005) | 97 | 2 | 2 | n/a | | 4 | 4% | 127 | 1,199 |
| English (001) | 5,062 | 139 | 246 | 18.5 | 0% | 404 | 8% | 699 | 7,022 |
| Journalism (004) | 42 | | 2 | 1.0 | 2% | 3 | 7% | 35 | 275 |
| Language Arts (058) | 2,927 | 112 | 200 | n/a | | 312 | 11% | 1,976 | 23,462 |
| Other English (006) | 282 | 4 | 8 | n/a | | 12 | 4% | 0 | 1 |
| Reading (002) | 801 | 36 | 32 | 1.0 | 0% | 69 | 9% | 85 | 2,066 |
| Speech (003)** | 209 | 6 | 7 | 1.9 | 1% | 15 | 7% | 244 | 2,360 |
| FOREIGN LANGUAGE | 1 | | | | | | 1 | l | |
| French (022) | 469 | 15 | 13 | 1.5 | 0.% | 30 | 6% | 99 | 1,732 |
| German (023) | 167 | 5 | | 0.0 | 0% | 11 | 7% | 22 | 726 |
| Japanese (068) | 5 | i | | 1.0 | 13% | 1 | 20% | 2 | 37 |
| Latin (024) | 36 | l | 1 | 0.8 | 2% | 1 | 5% | 9 | 153 |
| | !! | _ | - | | | | | ł | |
| Other Foreign Language (026) | 98 | 6 | 9 | | | 15 | 15% | 27 | 210 |
| Russian (069) | 6 | | | 0.0 | 0% | 1 | 0% | 8 | 105 |
| Spanish (025) | 1,617 | 69 | 83 | 13.9 | 1% | 166 | 10% | 394 | 2,986 |
| MATHEMATICS | | | · · · | | | | | | |
| Algebra (018) | 1,949 | 47 | | ľ | 0% | i . | 7% | 798 | 7,247 |
| Basic and/or General Math (088) | 2,967 | 92 | | 26.8 | 1% | 280 | 9% | 798 | 7,247 |
| Business Math (027) | 82 | 5 | | n/a | | 9 | 11% | 96 | 778 |
| Geometry (019) | 536 | 10 | | ř . | 0% | 26 | 5% | 798 | 7,247 |
| NonTitle I Remedial Math (086) | 20 | | 1 | 0.0 | 0% | ŀ | 5% | 798 | 7,247 |
| Other Math (021) | 924 | 21 | 24 | 1.0 | 0% | 46 | 5% | 798 | 7,247 |
| Trigonometry (020) | 80 | [| | n/a | | | <u></u> | 798 | 7,247 |
| MUSIC | | l | | l | | | | 281 | 4,926 |
| Instrumental Music (035) | 1,517 | 64 | | n/a | | 138 | 9% | 7 | 222 |
| Vocal Music (034) | 2,158 | 81 | 99 | n/a | | 180 | 8% | 9 | 247 |
| NATURAL SCIENCE | | l | | | | | | | |
| Biology (014) | 1,450 | 28 | 95 | 7.5 | 1% | 131 | 9% | 547 | 3,530 |
| | 1 | ۰ | | ۱ | | 1 | | 1 | |
| emistry (015) | 791 | 15 | 27 | 3.0 | 0% | 45 | 6% | 232 | 1,590 |

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| | 1 | 1 | ! | . | ı | l - | انمم | t | = 46 |
|--|-------------------|----------------------|----------|---------------|------------|------------|------------|-----------|-------------------|
| General Science (013) | 2,537 | 61 | 151 | | | 212 | 8% | 771 | 7,136 |
| Other Science (017) | 308 | 13 | 17 | n/a | | 30 | 10% | 496 | 3,320 |
| Physical Science (049) | 325 | 6 | 20 | 2.0 | 1% | 28 | 9% | 219 | 2,37 |
| Physics (016) | 382 | 14 | 18 | | 1% | 35 | 9% | 152 | 1,05 |
| SPECIAL EDUCATION | | | | W - N | | | | | 0.55 |
| Adapted P.E. (096) | 115 | 6 | 4 | 2.0 | 2% | | 10% | 788 | 9,55 |
| Behavior Disordered (078) | 2,242 | 161 | 132 | 101.5 | 4% | 395 | 18% | 517 | 6,16 |
| Cross Categorical (097) | 3,093 | 180 | 153 | 83.0 | 3% | 416 | 13% | 1 45 | 4.00 |
| Deaf (073) | 374 | 21- | 15 | 0.0 | 0% | 36 | 10% | 45 | 1,000 |
| Early Childhood (074) | 1,053 | 58 | 46 | 25.0 | 2% | 129 | 12% | 0 | 6 46 |
| Educationally Handicapped (075) | 88 | 4 | 5 | 14.0 | 15% | ŀ | 26% | 517 | 6,162 5,173 |
| EMH (072) | 1,213 | 41 | 34 8 | 9.0 | 1% 2% | | 7% | 183 45 | 1,000 |
| Hard of Hearing (098) | 273 | 16 | ٥ | 5.9 | 2% | 30 | 11% | 45 | 1,00 |
| Homebound/Hospital (099) | 32 | 224 | 204 | n/a | 40/ | COF | 0% | 726 | 8,63 ⁻ |
| Learning Disabled (076) | 6,855 | 321 | 304 | 60.0 | 1% | i | 10% | 736 | 6,63 |
| Multiply Handicapped (082) | 182 | 6 | 10 | | 707 | 16 | 9% | | |
| Other/General Special Education (050) | 1,616 | 66 | 61 5 | 115.1 56.0 | 7% 19% | 1 | 15% 27% | | 56 |
| Physically Handicapped (077) | 283 | 15 | - | Ì | | | | 4 78 | 2,35 |
| Severe/Profound Mentally Handicap. (089) | 218 | 10 | 126 | | 5%l | 31 | 14% | 224 | 2,350 2,360 |
| Speech and Language Impaired (079) | 2,235 | 108 | 126 | ľ | 5% 1% | | 17% | 78 | 2,36. 2,35 |
| TMH (080) | 763 | 10 | 25 7 | I. | 1%! 3%! | | 8% | '8 | 2,356 29: |
| Visually Impaired (081) | 262 | 10 | | 10.0 | 3% | 27 | 10% | | 29. |
| SOCIAL SCIENCE | 172 | · · · · · <u>.</u> · | | 0.0 | 0% | 42 | 7% | 373 | 2,410 |
| Civics (007) | 69 | 5 | 3 | 0.0 | 0% | 1 | 4% | 238 | 1,918 |
| Economics (010) | 2,556 | 57 | ى 159 | 0.0 | 0% | | 8% | 2,819 | 30,462 |
| General &/or Other Social Studies (012) | 311 | 5 | 11 | 0.0 | 0% | | 5% | 199 | 1,21 |
| Geography (008) | 2,297 | 41 | 103 | 1 | 0% | 1 | 5% 6% | 1,789 | 11,777 |
| History (009) | 101 | "' | 6 | 0.6 | 1% | 1 | 7% | 1,769 | 949 |
| Psychology (011) TITLE 1 | . | | | 0.5 | 1 /0 | | / /0 | | |
| Title I Remedial Math (084) | 237 | 7 | 7 | 0.0 | 0% | 14 | 6% | 85 | 2,066 |
| Title I Remedial Reading (083) | 3,335 | 130 | 135 | | 0% | 6 | 8% | 798 | 7,247 |
| VOCATIONAL TECHNICAL PROGRAMS | 1 | | | - | | 1 | | | |
| Agriculture | 302 | 7 | 12 | 0.5 | | 19 | 6% | 46 | 43 |
| Agriculture Agricultural Business & Mgt. (101) | 95 | 3 | 3 | n/a | | 6 | 6% | 40 | 82 |
| Agricultural Mechanization (102) | 13 | | | n/a | | | | 13 | 62 |
| Agricultural Resources/Conservation (103) | 3 | 1 | | n/a | | · | | 12 | 56 |
| Agricultural Sciences (104) | 82 | 2 | 4 | n/a | | 6 | 7% |] | 365 |
| Horticulture Services (105) | 29 | 1 | 0 | n/a | | 1 | 3% | 19 | 73 |
| Orientation to Agriculture (100) | 67 | 1 | 5 | n/a | | 6 | 9% | 46 | 435 |
| Other Agricultural Occupations (106) | 13 | | | n/a | | | | 46 | 435 |
| Business, Marketing & Management | 1,382 | 28 | 37 | 25.2 | • • | 65 | 5% | 153 | 1,489 |
| The second secon | | | | | -, | | 5% | 74 | 86 |
| Accounting/Bookkeeping (108) | 298 2 4 | 4 | 10 | ļ | | 14 | 5% | 3 | 84 |
| Administrative Assistant/Secretarial (109) | 15 | | 4 | n/a n/a | ^ | 1 | 7% | 74 | 374 |
| Banking & Financial Support (110) | 25 | | 2 | n/a n/a | | 2 | 8% | 102 | 503 |
| Business Admin. & Management (111) | 20 | 1 | 2 | n/a n/a | | 1 | 5% | 102 | 8 |
| Business Computer Programming (112) | 5 | 1 | | 1 | : | | 20% | '2 | J |
| Enterprise Management (113) | 137 | 3 | 7 | n/a | | 10 | 7% | 75 | 473 |
| Information/Data Processing) (060) | 1 .1 | } | (| n/a | | 10 | 1 70 | 75 | 414 |
| Legal Administrative Assistant (114) | 16 | | | n/a | | | | 32 | 19 |
| Marketing Operations (115) | 16 | | | n/a | : | | | 32 | |
| Medical Administrative Assistant (116) | 685 | 14 | 15 | n/a | | 29 | 4% | 96 | 479 |
| rientation to Business Occupations (107) ther Business Occupations (118) | 1 1 | | | 1 | | 1 | | ı | 1,516 |
| - mag wildings () CCHD31/00C / 1 1 8 1 | 145 | 1 5 | 2 | l n/a | | 7 | 5% | 202 | l.bir |

| Product Marketing (117) | | | | n/a | | | 32 | |
|---|-------|-----|----|---------|-----|-------|-------|---------|
| Family & Consumer Sciences | 1,130 | 23 | 24 | 6.0 | 47 | 4% | 58 | • • • • |
| Child Care & Guidance (129) | 189 | 2 | 6 | n/a | 8 | 4% | 26 | |
| Clothing & Apparel (130) | 94 | 1 | 1 | n/a | 2 | 2% | 10 | |
| Cosmetology (131) | 23 | 1 | 1 | n/a | 2 | 9% | | |
| Custodial/Housekeeping/Home Serv. (132) | 9 | _ | | n/a | | | 28 | |
| Foods Services Occupations (133) | 149 | 2 | 2 | n/a | 4 | 3% | 19 | |
| Foods Services/Lodging Mgt. (134) | 13 | 1 | 1 | n/a | 2 | 15% | 19 | |
| Home Furnishings (135) | 3 | 1. | | n/a | 1 | 33% | 11 | |
| Hospitality (136) | 0 | _ | _ | n/a | | | | |
| Occupation of Homemaking (137) | 183 | 7 | 3 | n/a | 10 | 5% | 23 | |
| Orientn to F&CS/Foods & Nutrition (128) | 367 | 5 | 7 | n/a | 12 | 3% | 34 | |
| Other F&CS Occupations (140) | 97 | 3 | 1 | n/a | 4 | 4% | 26 | |
| Social Work (138) | 2 | | 2 | n/a | 2 | 100% | | |
| Teacher Aide (139) | 1 | | | n/a | | | | |
| Health Occupations | 72 | 4 | 7 | 0.0 | 11 | 15% | | |
| Clinical Laboratory (120) | 0 | | | n/a | | 40004 | 0 | |
| Dental Assistant (121) | 1 | 1 | ار | n/a | 1 | 100% | 0 | |
| Medical Office/Assistant (122) | 2 | | 1 | n/a | ן ז | 50% | 0 | |
| Medical Records (123) | | | | n/a | | İ | 0 | |
| Nursing Assistant/Aide (124) | 28 | 2 | 1 | n/a | 3 | 11% | 0 | |
| Nursing Services (125) | 13 | | 1 | n/a | 1 | 8% | 0 | |
| Ophthalmic Services (126) | 1 | | | n/a | | : | 0 | |
| Orientation to Health Occupations (119) | 15 | | 3 | n/a | 3 | 20% | 0 | |
| Other Health Occupations (127) | 12 | 1 | 1 | n/a | 2 | 17% | 0 | |
| Industrial | 1,558 | 32 | 41 | 24.0 1% | 75 | 5% | 19 | • • • • |
| Architectural Drafting (142) | 52 | | 3 | n/a | 3 | 6% | 17 | |
| Auto/Automotive Body Repair (143) | 49 | | | n/a | | | 0 | |
| Auto/Automotive Mechanic/Techn (144) | 181 | 3 | 3 | n/a | 6 | 3% | 0 | |
| Aviation Systems/Maintenance (145) | 5 | | | n/a | | | 0 | |
| Building & Property Maintenance (146) | 6 | | 1 | n/a | 1 | 17% | 11 | |
| Cabinet Maker/Millworker/Woodwork (147) | 129 | 3 | 1 | n/a | 4 | 3% | 11 | |
| Carpenter (148) | 51 | 2 | 1 | n/a | 3 | 6% | 11 | |
| Comm. Systems Installer/Repairer (149) | | 2 | 1 | n/a | 3 | 43% | 16 | |
| Computer Installer/Repair (150) | 6 | | 4 | n/a | 1 1 | 17% | 1.4 | |
| Construction (151) | 84 | 5 | 4 | n/a | 5 | 6% | 11 17 | |
| Drafting (152) | 203 | 5 | 2 | n/a | 7 | 3% | 1 " | |
| Electrical/Electronics Equip Installers/Repairers (043) | 97 | 2 | 2 | n/a | 4 | 4% | 3 | |
| Graphic & Printing Equip. Operators (154) | 33 | _ | _ | n/a | | | 4 | |
| Graphic Design/Commercial Art (153) | 73 | 1 | 3 | n/a | 4 | 5% | 4 | |
| Heating, AC & Refrigeration (155) | 6 | | | n/a | | | 0 | |
| Machine Shop Assistant (156) | 18 | | 1 | n/a | 1 | 6% | 5 | |
| Manufacturing (157) | 32 | j | 2 | n/a | 2 | 6% | 5 | |
| Mechanical Drafting (158) | 28 | 1 1 | | n/a | 1 | 4% | 17 | |
| Orientn to Indust. Techn Occupations/General | 1 1 | | | | | | | |
| Shop (141) | 259 | 7 | 8 | n/a | 15 | 6% | 13 | |
| Other Industrial Occupations (164) | 115 | | 3 | n/a | 5 | 4% | 13 | |
| Precision Metal Worker (159) | 28 | - | 1 | n/a | 1 | 4% | 5 | |
| Protective Services/Law Enforcement/Fire Fighter (160) | 1 | | | n/a | | | 0 | |
| Radio & TV Broadcasting (161) | 14 | | 1 | n/a | 1 | 7% | 0 | |
| Technical Prep/Engineering-Related Technologies (162) | 46 | 3 | 3 | n/a | 6 | 13% | 1 | |
| 1 Common tropical guidening | 35 | | | | | | | |

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| Vocational Technical Miscellaneous | 468 | 14 | 15 | n/a | :: 29 | 6% | and the second |
|--|---------|-------|-------|-------|-----------|------|----------------|
| Career Awareness and Development (166) | 81 | 6 | 6 | n/a | 12 | 15% | n/a |
| Cooperative Vocational Education (056) | 371 | 8 | 9 | 0.0 | 17 | 5% | n/a |
| Specialized Vocational Education (165) | 16 | | | n/a | | | n/a |
| Column Totals | 125,268 | 4,263 | 5,859 | 1,584 | 1% 11,706 | 9.3% | |

Definitions:

State [FT]= total of FT personnel by position/teaching assignment.

Total New= number of Re-entries + number of Beginners.

Re-entry= has prior teaching experience but didn't teach in IL the prior year (i.e.1997-98).

Beginner= teaching experience is less than or equal to 1 year.

Unfilled Positions= number of FTE positions reported unfilled as of Dec. 1998.

Total Demand= Total New + Unfilled Positions.

Entitlements= the number of entitlements reported between July 1, 1998 and June 30, 1999. [Duplicate counts]

Reserve Pool= the number of endorsements of educators currently not working (issued between July 1, 1979 and June 30, 199





U.S. Department of Education



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