

2005-06 Principals Supply and Demand Report

Executive Summary

Leadership remains central to the development of successful schools where all children are achieving at high levels. Leadership at the school level needs to be identified, nurtured, and continuously developed. Without quality principals and assistant principals, the level and quality of student performance will suffer.

The No Child Left Behind legislation and the Governor's Teacher Working Conditions Survey results reflect the increasing visibility and importance of school leadership. As the role of the principal is being emphasized, superintendents and local boards of education are becoming increasingly concerned that there is or soon will be a serious shortage of qualified individuals to fill principal and assistant principal positions. This concern stems primarily from the perception that a large number of principals are leaving the profession and fewer qualified individuals are entering as assistant principals. There are over 1000 principals in North Carolina that can retire with more than 30 years of experience. This is close to half of all principals in our state.

In terms of school administrator supply, North Carolina hired 283 principals and 402 assistant principals in the 2005-06 academic year. Of those assistant principals, 279 were hired with a provisional certificate. This represents a 15% increase in provisional certificates from 2004-05 and a 600% increase since 1999. This fact alone is a strong signal that there is a shortage of qualified assistant principals and also the gateway to becoming a principal.

The Principals' Executive Program (PEP) has prepared the Principal Supply and Demand Report in response to legislation (House Bill 257) that requires the UNC Board of Governors to "look at the issue of supply and demand of school administrators to determine the number of school administrators to be trained in the programs in each year of each biennium."

This report was developed in cooperation with the North Carolina Department of Public Instruction (DPI). The majority of the data utilized in this analysis was obtained from DPI. The Report is divided into four parts:

1. Demographics
2. Demand Trends
3. Supply Trends
4. Discussion of Findings

Principal Supply and Demand Report

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UNC Center for School Leadership Development

for the
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Division of University-School Programs

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“Never before has the bar been set so high for America’s public education system to ensure that every child achieves at high levels... Never have public schools counted more heavily on the nation’s nearly 84,000 principals to lead the instructional improvements needed to meet tough new state and federal mandates. Never has the resulting need to assure an adequate supply of candidates for school leadership positions been clearer. Yet never have these increasingly challenging and often thankless jobs seemed less enticing, or more difficult to fill.”

- The Wallace Foundation 2003

Introduction

The implementation of the No Child Left Behind (NCLB) Act of 2001 has placed standards and accountability at the forefront of the educational issues and thereby created a central focus on reforming schools to raise student achievement and close achievement gaps. In *Turning Points 2000*, Jackson and Davis (2000) assert that "one of the most consistent findings in educational research is that high-achieving schools have strong, competent leaders" (p. 156). Similarly, the literature on school reform consistently points to the key role school administrators play in creating high quality schools for our students.

In seeking to improve North Carolina’s schools and meet rigorous accountability demands it is essential that a careful examination of the supply and demand of school administrators across our state be undertaken. Many factors are known to influence the balance of supply and demand of principals. These factors include attrition of educators (promotion, career changes, retirement etc.), the number of licensed candidates graduating from approved education programs, student enrollment; federal, state and local policies, and economics (Department of Public Instruction, 2002).

This report is written in response to House Bill 257, 1993 Session Laws that directs the Board of Governors to:

Study the issue of supply and demand of school administrators to determine the number of school administrators to be trained in the programs in each year of each biennium. The Board of Governors shall report the results of this study to the Joint Legislative Education Oversight Committee no later than March 1, 1994, and annually thereafter.

The purpose of this report is to provide data to the Education Leadership Task Force and the Joint Legislative Education Oversight Committee concerning school administrator programs at the constituent institutions of the University of North Carolina about the trends that influence supply and demand of school based administrators in North Carolina. For this study, school administrators are defined to include principals and assistant principals.

This report is divided into four parts:

- 1) Demographics
- 2) Demand Trends
- 3) Supply Trends
- 4) Discussion of Findings

I. Demographics of North Carolina's School Administrators

Demographic data collected by the Department of Public Instruction indicates that the average North Carolina principal is likely to be 45 or older (67% of current principals), and white (74% of current principals), with a master's degree (74% of current principals). There are slightly more female principals than males (55% female) and the majority of principals have more than 20 years of education experience (62%).

The average assistant principal is younger than the average principal. In fact, less than half (49%) of all assistant principals are 45 or older, with 37% age 40 or younger. This represents an 11% increase from last year in the percentage of assistant principals age 40 or younger. Not surprisingly, the assistant principals in the state have less years of educational experience than principals. Only 41% have 20 or more years of educational experience. In terms of the demographics of assistant principals, the majority are female (60%) and in terms of ethnicity, 69% are white.

The following tables provide more detailed demographic data about North Carolina's principals and assistant principals. Tables 1 and 2 provide information on the age of current school administrators. Tables 3 and 4 provide information on administrator's total education experience. Table 5 and 6 provide information about the highest degree earned by NC school administrators. While the presenting aggregated data about school administrators highlights the situation throughout the state, sometimes great insight can also be gained from reviewing the information disaggregated by geographic region. As a result, the included tables all provide a statewide total, as well as disaggregated data by region for each indicator.

Table 1 below provides data about the age of current North Carolina principals. As indicated previously, 67% of all principals are 45 years or older. Furthermore, the data presented in Table 1 indicated that almost half (49%) of principals are age 50 or older. Importantly, in four geographic regions of the state, at least half of the principals are 50 years or older (Northeast 55%, South Central 56%, 52%, Southwest 50%, and West 50%).

**Table 1: Principal Age
2005-2006**

Age	<40	40-44	45-49	50-54	55+
Statewide	496	274	397	600	485
Central	99	37	72	113	83
North Central	89	46	73	89	76
Northeast	21	13	26	40	33
Northwest	80	43	43	57	45
South Central	43	27	55	98	61
Southeast	56	31	37	65	49
Southwest	75	46	59	95	86
West	33	31	32	43	52

Table 2 provides data about the age of current North Carolina assistant principals. As indicated previously, just less than one half of all assistant principals are age 45 or older. As demonstrated in the table, well over half (65%) of the state's assistant principals are younger than 50 years of age. Notably, the 40 years or younger category in Table 2 contains the largest percentage of individuals in all but one region, with 37% of current North Carolina assistant principals in that age range.

**Table 2: Assistant Principal Age
2005-2006**

Age	<40	40-44	45-49	50-54	55+
Statewide	909	346	332	419	430
Central	152	41	59	78	71
North Central	185	84	63	80	84
Northeast	42	13	19	20	27
Northwest	86	43	33	40	33
South Central	81	35	39	57	51
Southeast	78	45	33	45	47
Southwest	241	59	58	84	91
West	44	26	28	15	26

Table 3 provides data about the years of education experience of current North Carolina principals. The data indicate that across the state 62% of current principals have 20 or more years of experience. This trend is consistent across the state regions with the exception of two regions. In the South Central region almost three quarters (73%) of all principals have 20 or more years of educational experience. However, in the Northwest only slightly more than half (51%) of the current principals have at least 20 years of experience in education.

**Table 3: Principals' Years of Education Experience
2005-2006**

Number of Years	<10	10-14	15-19	20-24	25-29	30+
Statewide	134	369	330	371	545	502
Central	34	61	54	75	108	71
North Central	25	68	51	62	93	74
Northeast	3	17	24	13	36	40
Northwest	25	58	47	33	57	48
South Central	9	40	27	58	79	71
Southeast	12	44	41	31	58	52
Southwest	22	60	47	69	72	91
West	4	21	39	30	42	55

Table 4 provides data about the number of years of education experience of current assistant principals. The data indicate that statewide, only 41% of current assistant principals have 20 or more total years of education experience, this is approximately only two thirds of the amount of principals with this level of experience. Importantly, across the state 22% of assistant principals have less than 10 years of education experience. In the Southwest, as many as 28% of current assistant principals have under 10 years of experience in education.

**Table 4: Assistant Principals' Years of Education Experience
2005-2006**

Number of Years	<10	10-14	15-19	20-24	25-29	30+
Statewide	533	542	375	329	342	315
Central	92	84	40	62	70	53
North Central	108	115	84	56	72	61
Northeast	19	29	21	17	16	19
Northwest	42	50	46	39	28	30
South Central	44	64	39	43	40	33
Southeast	55	53	46	24	38	32
Southwest	147	117	74	62	66	67
West	26	30	25	26	12	20

Table 5 provides data about the level of educational attainment of current North Carolina principals. The data indicate that across the state 74% of current principals' highest degree earned is a Master's degree.

**Table 5: Principal Highest Degree Level Earned
2005-2006**

Degree Level	Master's	Specialist	Doctoral
Statewide	1,656	390	205
Central	285	56	62
North Central	284	52	37
Northeast	89	35	9
Northwest	192	57	19
South Central	248	21	15
Southeast	193	32	13
Southwest	250	72	39
West	115	65	11

Table 6 provides data about the level of educational attainment of current assistant principals. The data indicate that across the state 86% of current assistant principals highest degree earned is a Master's degree. Although, the numbers are rather low, it is important to note that the data indicate that there are assistant principals in every region whose highest degree earned is a bachelor's degree. In the Northwest, 3% of current assistant principals have not completed a degree program beyond the baccalaureate degree.

**Table 6: Assistant Principal Highest Degree Level Earned
2005-2006**

Degree Level	Bachelor's	Master's	Specialist	Doctoral
Statewide	24	2,096	238	77
Central	1	337	48	15
North Central	5	438	31	22
Northeast	1	97	20	3
Northwest	8	193	28	6
South Central	1	249	5	8
Southeast	3	216	20	9
Southwest	4	463	52	13
West	1	103	34	1

Tables 7 and 8 provide demographic data for North Carolina's current principals and assistant principals respectively. The data indicate that, for principals, the vast majority (74%) of current principals is White, and about a quarter (23%) are Black. Additionally, 55% of principals are females. For assistant principals, 58% are female. In terms of ethnicity, slightly over two-thirds (69%) are White and just under a third (29%) are Black. Notably the data indicate that, for both principals and assistant principals, the Northwest and West regions of NC employ very few minorities as school administrators.

**Table 7: Percentage of Race and Gender of Principals
2005-2006**

Race/Gender	Female - Asian	Female - Black	Female - Hispanic	Female - Am. Indian / Alaskan	Female - White	Male- Asian	Male - Black	Male - Hispanic	Male - Am. Indian / Alaskan	Male - White
Statewide	1	320	8	21	880	3	192	1	12	775
Central	-	67	4	-	173	-	34	-	-	115
Northcentral	1	73	1	2	126	2	52	-	-	110
Northeast	-	29	-	2	31	-	19	-	-	51
Northwest	-	9	-	2	119	-	10	1	-	124
Southcentral	-	51	2	14	96	-	29	-	12	78
Southeast	-	28	-	1	110	-	19	-	-	76
Southwest	-	61	1	-	143	1	25	-	-	119
West	-	2	-	0	82	-	4	0	-	102

**Table 8: Percentage of Race and Gender of Assistant Principals
2004-2005**

Race/Gender	Female - Asian	Female - Black	Female - Hispanic	Female - Am. Indian / Alaskan	Female - White	Male- Asian	Male - Black	Male - Hispanic	Male - Am. Indian / Alaskan	Male - White
Statewide	3	451	9	12	881	1	240	4	10	763
Central	1	82	1	1	145	1	44	-	-	118
North Central	-	122	1	1	165	-	77	-	1	121
Northeast	-	23	-	-	48	-	16	-	1	30
Northwest	-	6	1	-	107	-	8	-	1	108
South Central	1	49	2	8	84	-	28	1	7	76
Southeast	1	44	1	1	106	-	22	1	-	67
Southwest	1	122	3	1	169	-	43	2	-	168
West	-	3	-	-	57	-	2	-	-	75

II. Demand Trends for North Carolina School Administrators

Table 9 outlines the principal retention rate from 1997-98 through the 2004-05 academic year. Since 1998 less than 10% of principals chose to leave their position after their first year. That percentage increases every year with 42% leaving the principalship after their seventh year.

Table 9: Principal Retention Rates 1998-99 through 2004-2005

Cohort Year and Size	% employed in public schools the following year	% employed in public schools 2 years later	% employed in public schools 3 years later	% employed in public schools 4 years later	% employed in public schools 5 years later	% employed in public schools 6 years later	% employed in public schools 7 years later
1998-99 N = 2,017	94% (1886)	88% (1840)	81% (1732)	75% (1631)	72% (1583)	66% (1451)	58% (1277)
1999-00 N = 2,095	94% (1903)	87% (1816)	80% (1708)	78% (1682)	70% (1530)	63% (1380)	N/A
2000-01 N = 2,138	92% (1862)	85% (1785)	83% (1768)	77% (1670)	66% (1443)	N/A	N/A
2001-02 N = 2,168	92% (1859)	90% (1889)	85% (1807)	74% (1596)	N/A	N/A	N/A
2002-03 N = 2,184	93% (1884)	89% (1869)	79% (1683)	N/A	N/A	N/A	N/A
2003-04 N = 2,189	96% (1930)	86% (1802)	N/A	N/A	N/A	N/A	N/A
2004-05 N = 2,216	93% (1870)	N/A	N/A	N/A	N/A	N/A	N/A

Table 10 presents data on the number of employed assistant principals who were granted provisional licenses. According to the Department of Public Instruction, a one-year provisional license may be issued by local boards of education to individuals selected for employment as assistant principals if

- The local board has determined there is a shortage of persons who hold or are qualified to hold a principal's license and the employee enrolls in an approved program leading to a master's degree in school administration before the provisional license expires; or
- The employee is enrolled in an approved master's in school administration program and is participating in the required internship under the master's program.

Data from the last five years in North Carolina indicate that there was a sharp increase in the number of provisional licenses from 1999-2000 to 2001-2002 school years from 40 to 232. This represents nearly a 600% increase in the number of provisional licenses issued over that time period. Since 2001-2002, the number of provisional licenses has remained consistently high and, for the most part, continued to increase over time. For 2005-2006 the number of provisional licenses issued to assistant principals increased by about 15% from the previous year.

Table 10: Assistant Principals with Provisional Licenses

	1999-2000	2000-2001	2001-2002	2002-2003	2003-2004	2004-2005	2005-2006
Statewide	N=40	N=120	N=232	N=244	N=262	N=243	N=279
Central	14	38	64	51	51	47	61
Northeast	7	14	27	13	11	10	10
Northwest	3	7	21	24	27	21	45
South Central	4	16	33	48	46	43	43
Southeast	4	20	39	54	46	45	33
Southwest	3	14	33	37	55	53	43
West	5	11	15	17	26	24	26

Table 11: Comparison of Percent of North Carolina Schools by Region with Percent of Provisional Licenses

Region	Percent of North Carolina Schools in Region	Percent of Provisional licenses 2005-2006
Central	17% (401)	22% (61)
North Central	16% (373)	9% (24)
Northeast	6% (134)	3% (7)
Northwest	11% (269)	15% (43)
South Central	12% (288)	15% (42)
Southeast	10% (238)	12% (33)
Southwest	15% (353)	15% (43)
West	8% (196)	9% (26)

Table 12: Distribution of New Principals by Regions

	99-00	00-01	01-02	02-03	03-04	04-05	05-06
Statewide	N=296	N=294	N=331	N=232	N=247	N=274	N=283
Central	77	74	76	65	64	58	54
Northeast	27	35	40	21	15	44	48
Northwest	50	32	46	35	30	38	42
South Central	38	50	50	30	32	30	45
Southeast	33	32	40	23	35	38	34
Southwest	44	44	53	35	47	19	25
West	27	24	23	23	27	47	25

Table 13: Distribution of New Assistant Principals by Regions

	99-00	00-01	01-02	02-03	03-04	04-05	05-06
Statewide	N=379	N=467	N=580	N=329	N=453	N=453	N=402
Central	91	117	139	99	127	118	92
Northeast	30	42	52	39	27	41	32
Northwest	57	61	87	39	50	63	52
South Central	57	75	75	33	59	59	56
Southeast	42	37	52	30	54	54	48
Southwest	83	112	139	66	104	82	84
West	19	23	35	23	32	36	32

III. Supply Trends for North Carolina School Administrators

Table 14 provides data collected by the Department of Public Instruction related to the annual demand for principals and assistant principals. In 2005-2006, 68% of newly hired principals were assistant principals in their previous year of employment. Also, in 2005-2006, 50% of current assistant principals were classroom teachers in their previous year of employment and just over 25% were employed as assistant principal interns.

Table 14: Sources of New Principals and Assistant Principals

	99-00	00-01	01-02	02-03	03-04	04-05	05-06
% of new principals employed as assistant principals in NC the preceding year	77	76	75	78	81	77	68
% of new principals not employed in NC schools the preceding year	9	5	9	5	3	6	14
% of new assistant principals employed as teachers in NC the preceding year	55	54	42	43	40	40	50
% of new assistant principals employed as interns the preceding year	17	16	29	35	39	35	26

Table 15 provides the number of graduates from state Master's in School Administration Programs (MSA) since the 1999-2000 academic year. North Carolina has seen an overall increase of 69% in MSA graduates since the 1999-2000 academic year. Over the past 3 years, however, production of MSA graduates has remained relatively stable, remaining around 400 per year.

Table 15: Degrees Conferred in MSA Programs 1999-2000 through 2004-2005

Institution	1999-2000	2000-2001	2001-2002	2002-2003	2003-2004	2004-2005
Appalachian State University	44	10	51	14	37	37
East Carolina University	71	64	103	112	49	56
Fayetteville State University	13	25	21	31	25	24
North Carolina State University	N/A	55	92	82	67	66
North Carolina Central	N/A	N/A	N/A	N/A	15	14
University of North Carolina Chapel Hill	17	21	15	33	43	39
University of North Carolina at Charlotte	39	38	33	45	41	42
University of North Carolina Greensboro	38	43	26	57	58	60
University of North Carolina Pembroke	N/A	N/A	N/A	6	25	24
University of North Carolina Wilmington	7	13	14	16	25	24
Western Carolina University	9	14	19	8	11	16
UNC total	238	283	374	404	396	402

Individuals in the Reserve Pool- In addition to new graduates from MSA programs in North Carolina there are many individuals who are licensed as school administrators that are not currently employed in this capacity that constitute a reserve pool of prospective school administrators. Currently(2006), the DPI Licensure database indicates that there are approximately nineteen thousand (19,312) individuals holding administrative licenses in North Carolina . When you remove those in the pool with expired license (8,048), and those currently employed as assistant principals and principals and/or central office positions such as Directors, Superintendents, etc.. (6,017), that leaves 5,275 individuals holding administrative licenses who are not currently employed in this capacity. Of that 5,275, 59% (3,129) were not currently employed in public schools and the remaining 41% (2,146) were public school employees. Of the 2,146 individuals currently employed in North Carolina's public school system 85% (1,829) were classroom teachers. Of these 1,829 individuals holding administrative positions who are currently employed as classroom teachers, a large majority, 60% (1,091) are age 50 or older.

III. Discussion of Findings

Demographic Trends:

The data on principal age indicate that a significant percent of current school principals (49%) are over the age of 50 and almost half have 25 years or more of education experience, making them eligible for retirement over the next five years. In contrast current assistant principals are increasingly younger and more inexperienced. Thirty-seven percent are younger than 40 and 44% have less than 15 years of total educational experience. Ethnicity of current principals and assistant principals has remained constant since 2001: 1 of every 4 principals and assistant principals are members of an ethnic minority. Gender has also remained constant since 2001: approximately half of school level administrators are female.

A more complex analysis of the demographics of North Carolina School administrators was completed by the Rand Corporation in 2004. Rand found several important findings related to the supply and demand of school administrators in North Carolina that is important to note here. First, Rand reported that “the gender gap is alive and well.” Their analysis “revealed that, across the board, females in the North Carolina public school system are less likely than males to advance to administrative positions. When we controlled for other characteristics, men were still four times more likely than women to become principals directly (that is, without first serving as an assistant principal), and over three times more likely to become assistant principals. Rand also found in their analysis that “the administrative pipeline may not be well primed to sustain increases in the proportion of minority principals.

Given the lack of ethnic diversity of school administrative positions in North Carolina and the imbalance between the percentages of North Carolina school teachers that are female versus the percentage of NC school administrators that are female, there is reason that in the future a more detailed exploration of principal supply and demand should be undertaken. This exploration would pay detailed attention to exploring the demographics of current school administrators, the available pool and the pipeline to the principalship.

Demand Trends:

Over the seven years of data presented this report, the demand for new principals has remained reasonably constant, with an average of 280 new principals are needed each year. Similarly, the data indicate that over the same time period the number of new assistant principals hired annually has remained relatively stable, with an average of about 435 new assistant principals being hired each year. Yearly increases in average daily membership (ADM) suggest a gradual constant increase in the number of schools and subsequently school administrators required in North Carolina each year for the next few years. Data regarding principal retention has consistently shown that approximately 25% of principals are no longer employed in NC public schools after 4 years. This number jumps to almost 35% after six years. The nature of an aging principalship with large percentages having 25 years of service will likely continue to fuel turnover rates at the levels presented for the past seven years. On the other hand, with solid production of new MSA graduates remaining consistent over the past few years and increasing numbers of assistant principals under the age of 40, is suggestive that the possibility of a principalship that is getting younger over time.

Supply Trends:

Two hundred forty-seven (247) principals were hired in 2005-06, of which, 168 (68%) were employed as assistant principals in the prior year. Additionally, 453 assistant principals were hired in 2005-06. The total net number of school administrator candidates that were needed in 2005-06 subsequently was 532. The UNC system institutions produced 402 MSA graduates in 2004-2005. Based on the number of graduates from the University of North Carolina system MSA programs in 2004-2005, North Carolina produces 76% of the needed administrators in North Carolina to fill positions created by new school construction/expansion and turnover. Based on the last five year's of data, 5% of the school administrators that are hired annually come from other states.

Importantly, although available MSA graduates and out of state candidates would represent over 80% of the required candidates available and qualified to fill the 532 vacancies in school administration, 279 currently employed Assistant principals had only provisional certification. Prior principal supply and demand reports indicated that in 2003-2004, 37% of the new assistant principal positions were filled by school administrators with only provisional licenses. This is important to note because it evidences the fact that more individuals were hired with provisional licenses than the total shortfall between the number of MSA's prepared and the number required to fill all vacancies. This highlights the fact that not all of the state's MSA graduates are actually entering into school administration upon completion of their programs.

This is further evidenced by the presence in North Carolina of a significant reserve pool of licensed school administrators not currently employed in this capacity. In fact there were 2,500 individuals in this reserve pool of licensed school administrators not over the age of retirement or employed in positions outside of the school system in 2002. Importantly, 56% (1,400) of these individuals were employed as teachers in 2002.

Significantly, to better understand the complexity of the supply and demand issues in North Carolina, consider that in 2002, about 665 new school administrators were hired. In 2000-01, 283 candidates completed MSA degrees and were available to fill the 665 vacancies in school administration during the fall of that academic year. Additionally, approximately 5% of these vacancies were likely filled by qualified candidates coming from out of state. The reserve pool at this time in North Carolina consisted of 1,400 fully qualified potential school administrators employed in the school system as teachers which indicates a more than sufficient number of qualified candidates available in the state to meet the demand, yet based on previous data we estimate that at least 85 of the 665 vacant positions were filled by assistant principal who had only provisional licenses.

The above data suggest that there is not a great shortfall of qualified individuals available to fill the annual demand for new school administrators. However, the data do imply that there exists a disconnect through which a sufficient number of qualified candidates are not applying to fill vacancies. The fact that North Carolina continues to see an increase in the number of provisional licenses each year despite a large reserve pool of qualified candidates and a reasonable level of production from UNC system MSA programs indicates that this problem may be worsening over time.

V. Conclusion

According to anecdotal reports, schools in the United States are having difficulty recruiting and hiring school administrators, and the reigning perception has been that the difficulty stems from a general shortage of people qualified to be school administrators. This perception was called into question recently by three studies based on empirical information on administrative careers. These studies, all of which were summarized in a Policy Brief by the Wallace Foundation (2003), suggest that the supply of nominally qualified (e.g., certified) individuals available to serve as school administrators is indeed adequate.

- Rand Corporation 2004

The issue of school administrator supply and demand in North Carolina should not be viewed simplistically as a shortage of candidates being trained to fill annual vacancies. Instead, a more complex examination of school and administrator supply and demand is needed. Of critical importance would be to examine factors such as administrator quality, reasons for administrative turnover, percentage of MSA graduates not pursuing school administrative positions and their reasons for not entering these positions.

There are a few recent studies available that can shed some light onto the issue of school administrator supply and demand in North Carolina. One such study was undertaken by the Rand Corporation. Rand Corporation (2004) completed an analysis of the career paths of school administrators in North Carolina. Their analysis revealed that the number of school administrators in North Carolina has grown substantially, but not primarily as a result of increases in the numbers of principals. Between 1987 and 2001, the total number of school administrators grew by 61 percent (compared to 46 percent for teachers), but this growth was not evenly distributed across administrative positions. Rand found that during this time the number of assistant principals increased by 71 percent, the number of school principals increased by only 11 percent and the number of superintendents declined by 16 percent.

It is essential to highlight the fact that while Rand documented a large increase in administrative positions they noted that “we found no evidence that this growth in the number of positions--which translates into demand for school administrators--ran up against a limited supply of candidates. Thus Rand’s findings were similar to those of this report suggesting that the shortage in candidates applying to fill school administrative vacancies in North Carolina is not simply an issue of a shortage in supply. Instead the issue is the direct result of a variety of forces working together including (but not limited to) a lack of incentives or presence of disincentives for pursuing school administrative positions

Last year’s Principal Supply and Demand Report concluded with some speculation as to why current MSA graduates may not be stepping up to fill vacant school administrative positions. The report concluded that:

Based on conversations with superintendents, principals, assistant principals, and MSA graduates, an interesting trend appears. Less MSA graduates seem to be interested with actually becoming an assistant principal, which is the gateway to the principalship. The data suggest that the universities are actually producing

more MSA graduates than ever before, but provisional certification for assistant principals has increased almost 600%. One would think that with the significant increase in MSA degrees that there would not be a need for a provisional certified assistant principal. Based on the above mentioned conversations, the trend that is becoming popular is: Many MSA graduates decide to become nationally board certified which provides a 12% salary increase. Given that the MSA degree provides a 10% salary increase, the MSA graduate can achieve a 22% pay increase without becoming an assistant principal. In fact, if a nationally board certified teacher becomes an administrator and no longer meets the requirement of being at least 70% in the classroom, he or she will lose the 12% salary increase designated for National Board Certification.

The rationale provided in the prior year's report provides a possible example of one factor that potentially contributes to the shortage of qualified individuals seeking employment as school administrators. The actual situation likely results from a complex array of factors that intertwine and overlap to contribute to the seeming shortage of candidates. Some empirical evidence to support the above contention comes from three recent independent research studies that examined the nature, extent and underlying causes of the current problems in the labor market for principals. All three of the studies were commissioned by the Wallace Foundation. Based on the findings of these studies, the Wallace Foundation (2003) asserted that "policies and practices aimed solely at adding more certified candidates to the pipeline miss the core challenges underlying the difficulty many districts are having in attracting and retaining high quality leaders. These challenges include inadequate incentives to draw high quality leaders to the neediest schools with the most difficult working conditions, counterproductive hiring practices, and regulatory hurdles. Taken together, the lack of initiatives to address these challenges is inhibiting efforts to attract enough qualified candidates to the very schools and districts that most desperately need them."

While the work of the Wallace foundation represents what is happening on a national level, studies such as the one discussed previously conducted by the Rand Foundation, which was conducted in North Carolina, suggest that many of what is evidenced on a national level is also occurring in North Carolina. The findings of this report considered in the context of the findings of Rand and Wallace imply that careful examination be undertaken to explore the extent to which inadequate incentives, disincentives, and regulatory hurdles impact the supply and demand of high quality school administrators in North Carolina.

Appendix A: LEAs by Region

For the purpose of this report, LEAs were grouped into the following 8 geographic regions:

Central	Northeast	North Central	Northwest	South Central	Southeast	Southwest	West
Alamance- Burlington Caswell County Chatham County Davidson County Lexington City Thomasville City Forsyth County Guilford County Orange County Chapel Hill- Carrboro Person County Randolph County Asheboro City Rockingham County Stokes County	Beaufort County Bertie County Camden County Edenton/Chowan County Currituck County Dare County Gates County Hertford County Hyde County Martin County Pasquotank County Perquimans County Pitt County Tyrrell County Washington County	Durham Public Edgecombe County Franklin County Granville County Halifax County Roanoke Rapids City Weldon City Johnston County Nash-Rocky Mount Northampton County Vance County Wake County Warren County Wilson County	Alexander County Alleghany County Ashe County Avery County Burke County Caldwell County Catawba County Hickory City Newton Conover City Davie County Iredell- Statesville Mooresville City Rowan- Salisbury Surry County Schools Elkin City Mount Airy City Watauga County Wilkes County Yadkin County	Bladen County Columbus County Whiteville City Cumberland County Harnett County Hoke County Lee County Montgomery County Moore County Richmond County Robeson County Scotland County	Brunswick County Carteret County Craven County Duplin County Greene County Jones County Lenoir County New Hanover County Onslow County Pamlico County Pender County Sampson County Clinton City Wayne County Public	Anson County Cabarrus County Kannapolis City Cleveland County Kings Mt district Shelby City Gaston County Lincoln County Charlotte- Mecklenburg Stanly County Union County Madison County McDowell County Mitchell County Polk County Rutherford County Swain County Transylvania County Yancey County	

Appendix B: Historical LEAs by Region

For the purpose of longitudinal analysis in this report, LEAs were grouped in the following 7 geographic regions:

Central	Northeast	Northwest	Southcentral	Southeast	Southwest	West
Alamance- Burlington Caswell Chatham Durham Public Franklin Granville Guilford Johnston Nash Orange Chapel Hill- Carrboro Person Randolph Asheboro City Rockingham Vance Wake Warren	Beaufort Bertie Camden Chowan Currituck Dare Edgecombe Gates Halifax Roanoke Rapids City Weldon City Hertford Hyde Martin Northampton Pasquotank Perquimans Pitt Tyrrell Washington Wilson	Alexander Alleghany Ashe Burke Caldwell Catawba Hickory City Newton-Conover City Davie Forsyth Iredell- Statesville Mooresville City Stokes Surry Elkin City Mt. Airy City Watauga Wilkes Yadkin	Anson Bladen Columbus Whiteville City Cumberland Harnett Hoke Lee Montgomery Moore Richmond Robeson Scotland	Brunswick Carteret Craven Duplin Greene Jones Lenoir New Hanover Onslow Pamlico Pender Sampson Clinton City Wayne	Cabarrus Kannapolis City Cleveland Davidson Lexington City Thomasville City Gaston Lincoln Charlotte- Mecklenburg Rowan Stanley Union	Avery Buncombe Asheville City Cherokee Clay Graham Haywood Henderson Jackson Macon Madison McDowell Mitchell Polk Rutherford Swain Transylvania Yancey