

State of North Carolina

Department of Administration

Disparity Study Report
Volume 2
Community Colleges & Universities
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NORTH CAROLINA COLLEGE & UNIVERSITY QUANTITATIVE ANALYSIS

A. Introduction

The quantitative analysis of a disparity study measures and compares the availability of firms in each race/ethnicity/gender group within North Carolina Colleges and Universities (“NC-CC/Univ”) geographical and product market areas to the utilization of each race/ethnicity/gender group, measured by the payments to these groups by NC-CC/Univ.

Research Question: Statistical Analysis

Is there a disparity that is statistically significant between the percentage of available, qualified, and willing MWBE firms, in the Relevant Geographic and Product Markets, and the percentage of dollars spent with MWBE firms in those same markets during the Study Period?

The outcome of the comparison shows us whether there is a disparity between availability and utilization and whether that disparity is an overutilization, an underutilization, or in parity (the amount to be expected). Further, the disparity is tested to see if it is statistically significant. Legal precedents have clearly established that the presence of such significant statistical disparities create an inference of discrimination adversely affecting the participation of the underutilized firms. Finally, the regression analysis contained in the Volume I (DOA) Chapter VI Private Sector Analysis tests for other explanations for the disparity to determine if it is likely that the disparity is caused by race/ethnicity/gender status, or other factors. If there is statistically significant underutilization of MWBEs that is likely caused by race/ethnicity/gender, then GSPC will determine as part of its findings whether there is a basis for an inference of discrimination and consideration by NC-CC/Univ for the use of narrowly tailored race- and gender-conscious remedies.

B. Data Assessment and Requests

GSPC conducted several meetings with various departments oversee or maintain both State of North Carolina centralized data (i.e. eProcurement, Office for Historically Underutilized Businesses (“HUB Office”), and Interscope). In addition, GSPC interviewed NC-CC/Univ staff who maintain data unique to the community colleges and universities. The following 58 Community Colleges and 21 Universities and Affiliated Institutions we included in data collection and analysis.

❖ NC-CC/Univ Community Colleges

Alamance Community College
Asheville-Buncombe Technical Community College
Beaufort County Community College
Bladen Community College
Blue Ridge Community College
Brunswick Community College

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Caldwell Community College and Technical Institute
Cape Fear Community College
Carteret Community College
Catawba Valley Community College
Central Carolina Community College
Central Piedmont Community College
Cleveland Community College
Coastal Carolina Community College
College of The Albemarle
Craven Community College
Davidson County Community College
Durham Technical Community College
Edgecombe Community College
Fayetteville Technical Community College
Forsyth Technical Community College
Gaston College
Guilford Technical Community College
Halifax Community College
Haywood Community College
Isothermal Community College
James Sprunt Community College
Johnston Community College
Lenoir Community College
Martin Community College
Mayland Community College
McDowell Technical Community College
Mitchell Community College
Montgomery Community College
Nash Community College
Pamlico Community College
Piedmont Community College
Pitt Community College
Randolph Community College
Richmond Community College
Roanoke-Chowan Community College
Robeson Community College
Rockingham Community College
Rowan-Cabarrus Community College

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Sampson Community College
Sandhills Community College
South Piedmont Community College
Southeastern Community College
Southwestern Community College
Stanly Community College
Surry Community College
Tri-County Community College
Vance-Granville Community College
Wake Technical Community College
Wayne Community College
Western Piedmont Community College
Wilkes Community College
Wilson Community College

❖ Universities and Related Institutions

Appalachian State University
East Carolina University
Elizabeth City State University
Fayetteville State University
NC A&T State University
NC Arboretum
NC School of Science and Mathematics
NC School of the Arts
NC-CC/Univ Central University
NC-CC/Univ State University
UNC Asheville
UNC Chapel Hill
UNC Charlotte
UNC General Administration
UNC Greensboro
UNC Hospitals
UNC Pembroke
UNC Wilmington
UNC-TV
Western Carolina University
Winston-Salem State University

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The objective of the data assessment meetings was for GSPC to get a better understanding of how NC-CC/Univ's data is kept and how best to request the data needed for the Study. Following the data assessment meetings, GSPC presented written requests for the data, detailing the type and fields of data needed to complete the quantitative analysis.

The initial award data that GSPC requested from the NC-CC/Univ was incomplete. Many of the NC-CC/Univ do not maintain award data, or if they do, it was not consistently kept. GSPC therefore attempted to obtain payment data from the State Controller's Office for both the state agencies and the NC-CC/Univ. The State Controller's Office only maintains payment data for the state agencies, and there is not centralized payment data maintained for the NC-CC/Univ. Therefore, GSPC has to obtain payment data individually from each of the 58 Community Colleges and 21 Universities and Related Institutions.¹

All the payment data requested was in electronic format from the individual NC-CC/Univ. The data was uploaded to GSPC where they were catalogued and stored in GSPC's cloud repository. The data collected was used to develop data files containing purchasing history for each major Industry Category:

- Construction
- Architecture and Engineering
- Professional Services
- Other Services
- Goods

The NC-CC/Univ did not maintain all subcontractor data, but GSPC was able to obtain subcontractor data on minority and women owned business enterprises ("MWBE") only, as reported to the HUB Office. GSPC verified gender and ethnicity of vendors and completed necessary information about vendor address, Industry Category, and other related areas. Gender and ethnicity verification were based on official certification listings.

GSPC uses vendor zip codes to identify the County where the business is located to determine whether a vendor will be included in the Relevant Market Area analysis. Vendor addresses are also used for conducting vendor surveys. Some files submitted by NC-CC/Univ did not contain the necessary information, including vendor physical addresses, which were compensated for by obtaining them from Dun and Bradstreet Hoover's databases or simply searching the business name on the internet.

C. Data Assignment, Cleanup and Verification

After the completion of data collection, the data were electronically and manually "cleaned" to find duplicates and removing all unrelated payments such as payment to personnel, nonprofit organizations, and governmental agencies. The data cleanup also included the following five (5) tasks:

¹ Although all of the Community Colleges utilize Colleague to maintain their purchasing data, there is no centralized ability to access the data. Only the individual NC-CC/Univ have access to their own data.

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- Assigning and verifying ethnicity, race & gender of each firm;
- Assigning each firm to an Industry Category based upon the kind of work that the firm performs;
- Utilizing zip codes to determine the closest firm location to or within the State;
- Matching files electronically to pick up addresses, ethnicity/race/gender, and/or Industry Category; and
- Filling in any additional necessary data on firms.

File cleanup was first done electronically by linking information provided by NC-CC/Univ to certain indicators, like purchase order number or cross-referencing information with other files to fill in missing fields. This cleansing and re-tabulating process produced a lower total amount than the designated budget for each category since many vendors/purchases were excluded from the study, as payments that went to local governments, utility companies, not-for profits, and universities/colleges.

1. Assignment of Race/Gender/Ethnicity

To identify all minority owned firms, GSPC utilized only those which were certified through the following certification process:

Carolinas-Virginia Minority Supplier Development Council
DBE Certified Vendors
HUB Certified Vendors
Indian American Businesses (tribal certification)

An assignment of race/gender/ethnicity, priority is given to race/ethnicity, so that all minority owned firms were categorized according to their race/ethnicity and not by gender. Nonminority Females were categorized as Caucasian Nonminority Female. Firms with no race/ethnicity/gender indicated, Nonminority male owned firms, and publicly owned corporations are categorized as Non-MWBE firms.

2. Assignment of Industry Categories

To place firms in the proper Industry Categories, GSPC used the internal NC-CC/Univ business classification but verified the results after assigning vendors to the category of Construction, Architecture and Engineering, Professional Services, Other Services or Goods. In assigning vendors to Industry Categories, GSPC categorized vendors based on vendor classification in NAICS, if possible. Vendor NAICS codes were obtained from review of vendors in Dun and Bradstreet or search of vendor on the internet. Hoover produces the largest publicly available database of business establishments in the U.S. Hoover's establishment data includes the business name, address, phone number, NAICS code, business type, and other descriptive information, which is continuously updated and verified. Any remaining firms without NAICS codes were researched using the internet to ascertain the correct Industry Category, as not all firms NAICS codes were obtainable.

3. Master Vendor File

NC-CC/Univ provided data files reflecting all related purchases over &5,000 during the Study Period. Based on the submitted files, GSPC created two master files. One showing utilization data, or payments while another produced a partial list of available vendors. The purpose of the Master Vendor File was to collect, in one data file, a listing of all firms that are ready, willing, and able to do business with NC-CC/Univ. It includes internal lists from NC-CC/Univ as well as outside governmental lists. The availability files was also used to match and verify data in other data files, particularly to make sure that information assigned to firms for utilization calculations matched the information assigned to firms for availability calculations, e.g. making sure there were no inconsistent ethnicities. This is important to make sure that GSPC is comparing like-data to like-data. The Master Vendor File contains the lists of firms from the following data sources:

- Carolinas-Virginia Minority Supplier Development Council
- DBE Certified Vendors
- NC-CC/Univ Subcontract Data
- HUB Certified Vendors
- Indian American Businesses (tribal certification)
- SBE Certified Vendors
- Colleges and Universities Prime Data

Availability is determined by using all the unique firms in the Master Vendor File.

D. Relevant Market Analysis

The now commonly-held idea that the Relevant Market area should encompass at least seventy-five to eighty-five percent of the "qualified" vendors that serve a particular sector has its origins in antitrust law.² In line with antitrust precepts, United States Supreme Court, Justice Sandra Day O'Connor in Croson, specifically criticized Richmond, Virginia, for making Minority Business Enterprises (MBEs) all over the country eligible to participate in its set-aside programs.³ The Court reasoned that a mere statistical disparity between the overall minority population in Richmond, Virginia, which was 50% Black American, and the award of prime contracts to minority owned firms, 0.67% of which were Black American owned firms, was an insufficient statistical comparison to raise an inference of discrimination. Justice O'Connor also wrote that the relevant statistical comparison is one between the percentage of Minority Business Enterprises in the marketplace [or *Relevant Market*] who were qualified to perform contracting work (including prime and subcontractors) and the percentage of total City contracting dollars awarded to minority firms.

² D. Burman. "Predicate Studies: The Seattle Model," Tab E of 11-12 Minority and Women Business Programs Revisited (ABA Section of Public Contract law, Oct. 1990)

³ City of Richmond v. J.A. Croson Company, 488 U.S. 469, 709 S. Ct. 706 (1989)

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The Relevant Market has been determined for each of the major Industry Categories:

- Construction
- Architecture and Engineering
- Professional Services
- Other Services
- Goods

For each Industry Category GSPC measured the "Relevant Market" by the area where at least 75% of NC-CC/Univ's dollars were paid during the Study Period. In analyzing the Relevant Market data, GSPC tabulated the percentage of dollars paid. Postal Zip Codes were used to identify the County location of each vendor. Counties were used in calculating the Relevant Market Area starting with the State of NC-CC/Univ and then radiating out, if necessary, to reach approximating 75% area.

Table 1 shows that the threshold of 75% was surpassed in Construction, A&E and Professional Services with payments to firms located in North Carolina. In Other Services and Goods, the payments were just short of the 75% threshold. GSPC determined that it is appropriate to have one consistent Relevant Market across all Industry Categories as the State of North Carolina.

GSPC presents a breakdown of NC-CC/Univ payments by County where payees are located in Appendix A.

*Table 1: Relevant Market Area – State of North Carolina
Prime Construction, Architecture and Engineering, Professional Services, Other Services and Goods
(Using Payment Dollars, FY 2014-2018)*

NC-CC/Univ Colleges and Universities Disparity Study

Categories	Total Amount of Payments to Firms in NC	Percent of Payments to Firms in NC
Construction	\$ 2,304,726,246	97.76%
A & E	\$ 440,150,460	86.01%
Professional Services	\$ 632,740,116	76.58%
Other Services	\$ 3,027,916,125	71.13%
Goods	\$ 2,018,657,210	72.31%

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E. Availability Analysis

1. Methodology

The methodology utilized to determine the availability of businesses for public contracting is crucial to understanding whether a disparity exists within the Relevant Market. Availability is a benchmark to examine whether there are any disparities between the utilization of MWBEs and their availability in the marketplace.

Availability is the determination of the percentage of MWBEs that are “ready, willing, and able” to provide goods or services to NC-CC/Univ.

Croson and subsequent decisions give only general guidance as to how to measure availability. One common theme from the court decisions is that being qualified to perform work for a jurisdiction is one of the key indices of an available firm. In addition, the firm must have demonstrated that it is both willing and able to perform the work.

The measures of availability utilized in this Study incorporate all the criteria of availability required by Croson:

- The firm does business within an industry group from which NC-CC/Univ makes certain purchases.
- The firm's owner has taken steps (such as registering, bidding, certification, prequalification, etc.) to demonstrate interest in doing business with government.
- The firm is located within a Relevant Market area such that it can do business with NC-CC/Univ.

MWBE availability is a percentage and is computed by dividing the number of firms in each MWBE group by the total number of businesses in the pool of firms for that Industry Category. Once these Availability Estimates were calculated, GSPC compared them to the percentage of firms utilized in the respective Industry Categories to generate the disparity indices which will be discussed later in this analysis.

2. Measurement Basis for Availability

There are numerous approaches to measuring available, qualified firms. GSPC has established a methodology of measuring availability based upon demonstrated interest in doing business with governments in the Relevant Market and in the relevant Industry Categories. In determining those firms to be included in the availability pool, GSPC included the entire “Master Vendor File,” which consisted of the following:

- Carolinas-Virginia Minority Supplier Development Council
- DBE Certified Vendors
- NC-State Subcontract Data
- HUB Certified Vendors
- Indian American Businesses (tribal certification)
- SBE Certified Vendors
- Colleges and Universities Prime Data

3. Capacity

The ability or capacity to perform the work is tested in the Regression Analysis conducted in Volume I (DOA) Chapter VI chapter – Private Sector Analysis. The regression analysis shows whether race/ethnicity/gender factors are impediments overall to the success of MWBEs in obtaining awards in the marketplace and whether, but for those factors, firms would have the capacity to provide goods and services on a level higher than what is presently being utilized.

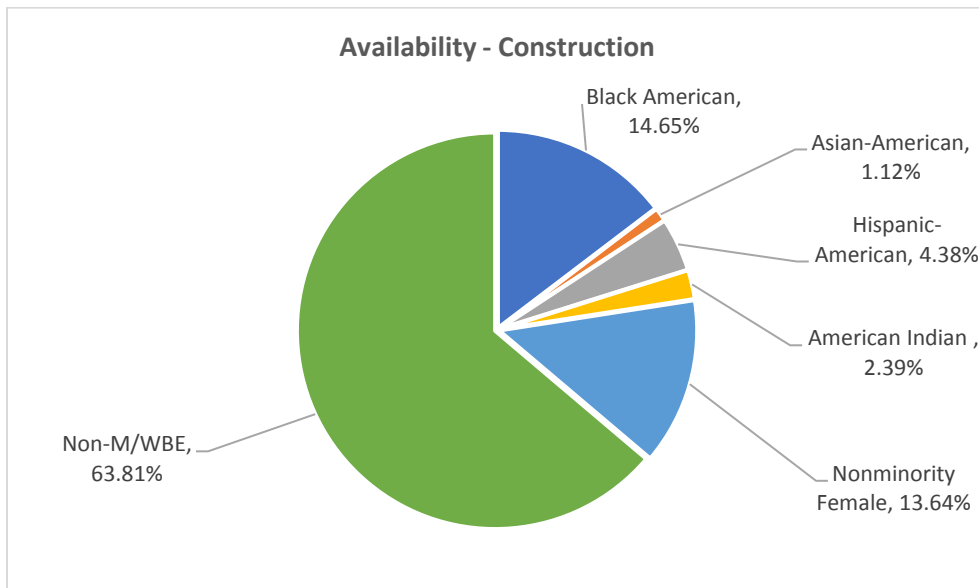
4. Availability Estimates

Below are the Availability Estimates for the Study. The data is separated into the five (5) major Industry Categories: Construction, Architecture and Engineering, Professional Services, Other Services and Goods. Figures 1-5 show the number of firms by race/gender/ethnicity as compared with the total number of firms. All availability (not broken down by Industry Category) and counts of availability are contained in Appendix B.

The availability analyzed from the Master Vendor File includes all unique vendors in each Industry Category. The NC-CC/Univ Relevant Market availability in Figure 1 below shows that, in Construction, Black American owned firms make up 14.65% of all Construction firms, Nonminority Female owned firms make up 13.64%. Asian American owned firms are 1.12%, while Hispanic American and American Indian owned firms have availability of 4.38% and 2.39%, respectively, in Construction within the Relevant Market. In total, MWBEs account for 36.19% of all available firms in Construction.

Figure 1: Availability Estimates – Construction

In the Relevant Market
NC-CC/Univ Colleges and Universities Disparity Study



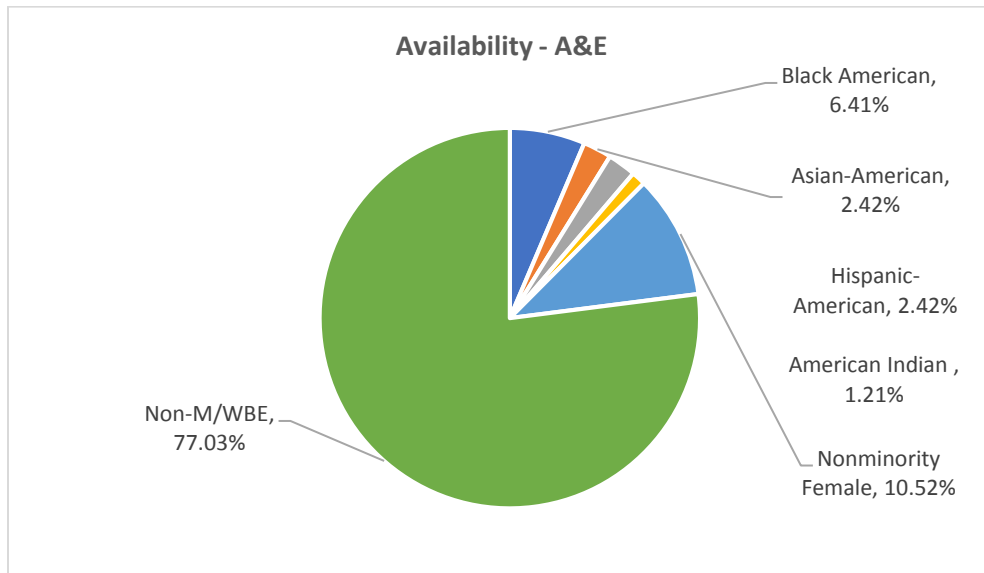
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As set out in the availability Figure 2, Black American owned firms make up 6.41% of Architecture and Engineering firms and Nonminority Female owned firms make up 10.52%. Non-MWBE owned firms account for about 77.03%, while Asian American owned firms have 2.42%. Hispanic American owned firms have 2.42% and American Indian owned firms have 1.21% availability in this category. MWBEs are 22.97% of all available firms in Architecture and Engineering.

Figure 2: Availability Estimates- Architecture and Engineering

In the Relevant Market
NC-CC/Univ Colleges and Universities Disparity Study



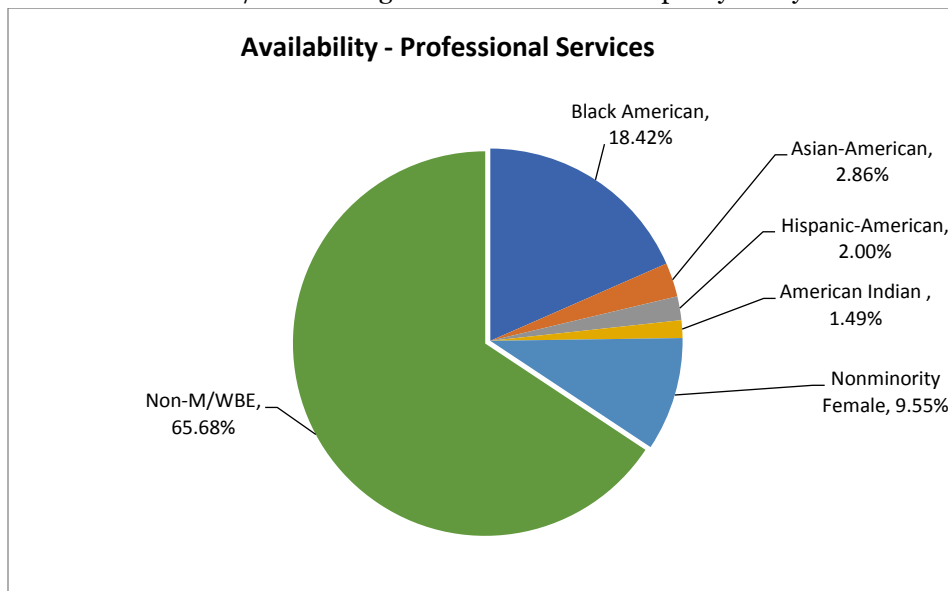
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As set out in the availability Figure 3, Black American owned firms make up 18.42% of Professional Services firms and Nonminority Female owned firms make up 9.55%. Asian Americans have 2.86%, Hispanic American owned firms have 2.00% and American Indian owned firms have 1.89% availability in this category. MWBEs are 34.32% of all available firms in Professional Services.

Figure 3: Availability Estimates-Professional Services

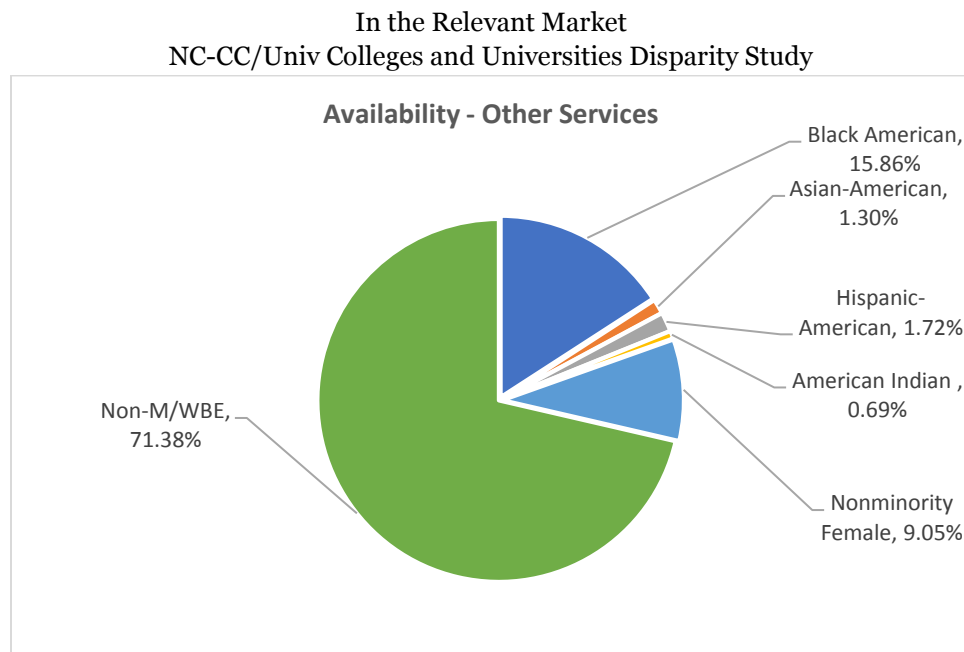
In the Relevant Market
NC-CC/Univ Colleges and Universities Disparity Study



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Other Services availabilities are reflected in Figure 4 so that businesses owned by Black Americans make up 15.86% and Nonminority Female owned 9.05% of the firms. Non-MWBEs account for 71.38% of all availability, while Asian American 1.30%. Hispanic American owned firms have 1.72% and American Indian owned firms have 0.69% availability in this Industry Category. MWBEs total 28.62% of all available firms in Other Services.

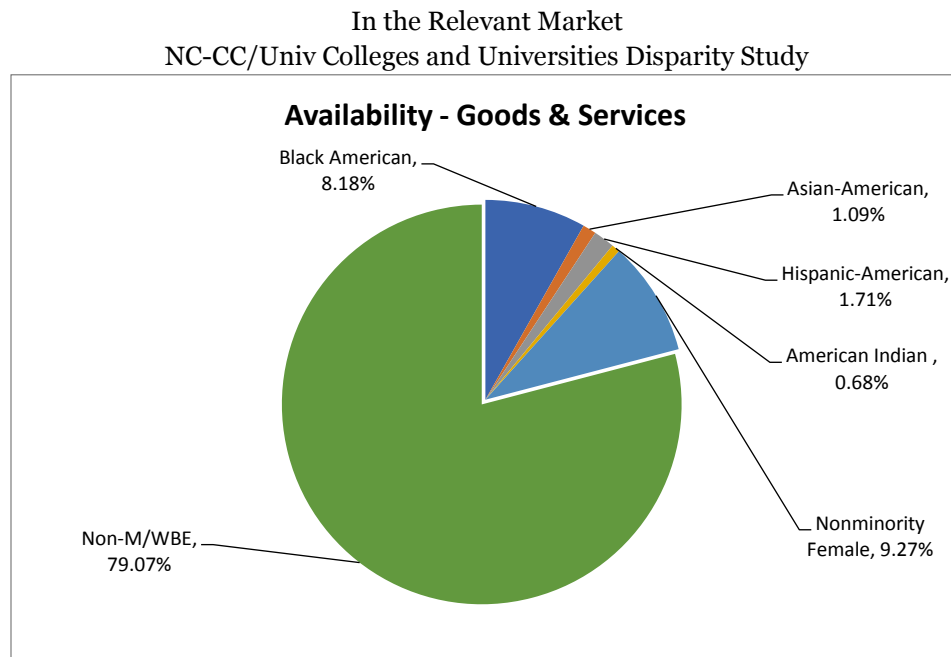
Figure 4: Availability Estimates-Other Services



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Goods availabilities are reflected in Figure 5 so that businesses owned by Hispanic Americans make up 1.71% and Nonminority Female owned 9.27% of the firms. Non-MWBEs account for 79.07% of all availability, while Asian American owned firms have 1.09%. Black American owned firms have 8.18% and American Indian owned firms have 0.68% availability in this category. MWBEs total 20.93% of all available firms in Goods.

Figure 5: Availability Estimates –Goods



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F. Utilization Analysis

1. Prime Utilization

The relevant payment history for NC-CC/Univ has been recorded based upon the paid amounts provided by NC-CC/Univ. In the Prime Utilization tables below, the dollars and percentage of dollars paid in each of the five (5) major procurement categories have been broken out by race/ethnicity and gender for each year of the Study Period. The total of each race/ethnicity/gender group represented in the MWBE category will, when added to the Non-MWBE Category, equal the Total Column.

***PRIME UTILIZATION** is the percentage of actual payments made directly by NC-CC/Univ during the Study Period to MWBEs in comparison to all actual payments made directly to all vendors by NC-CC/Univ during the Study Period.*

As indicated in Tables 2 and 3, a total of seventy-three (73) MBEs received \$45.9 million during the Study Period, while ninety-two (92) Nonminority Female owned firms were paid \$183.8 million. Two-thousand and one hundred and eleven (2,111) non-MWBE firms were paid over \$2.08 billion. MWBEs received 9.97% of the total prime Construction paid dollars. The average paid to MWBE firms was \$1.39 million as compared to \$982,950 to Non-MWBE firms over the Study Period.

*Table 2: Prime Utilization – Construction by Number of Firms
In the Relevant Market
Number of Businesses by Business Ownership and Fiscal Year
FY 2014-2018
NC-CC/Univ Colleges and Universities Disparity Study*

Fiscal Year	African American		Asian American		Hispanic American		American Indian		Total MBE		Nonminority Female		Total M/WBE		Non-M/WBE		TOTAL	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
2014	18	1.94%	1	0.11%	3	0.32%	6	0.65%	28	3.01%	47	5.05%	75	8.06%	855	91.94%	930	21.17%
2015	16	1.74%	1	0.11%	7	0.76%	9	0.98%	33	3.58%	47	5.10%	80	8.69%	841	91.31%	921	20.97%
2016	26	2.71%	0	0.00%	5	0.52%	6	0.63%	37	3.86%	45	4.69%	82	8.55%	877	91.45%	959	21.83%
2017	28	2.83%	2	0.20%	7	0.71%	8	0.81%	45	4.55%	52	5.26%	97	9.81%	892	90.19%	989	22.51%
2018	23	3.87%	2	0.34%	5	0.84%	3	0.51%	33	5.56%	36	6.06%	69	11.62%	525	88.38%	594	13.52%
Total 2014-2018	111	2.53%	6	0.14%	27	0.61%	32	0.73%	176	4.01%	227	5.17%	403	9.17%	3990	90.83%	4393	100.00%
Total Unique Number of Businesses	45	1.98%	2	0.09%	14	0.62%	12	0.53%	73	3.21%	92	4.04%	165	7.25%	2111	92.75%	2276	100.00%

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* Total unique number represents the number of unduplicated firms during the Study Period.

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Table 3: Prime Utilization – Construction by Dollars

In the Relevant Market

Distribution of Dollars by Business Ownership and Fiscal Year
(Using Payment Dollars, FY 2014-2018)

NC-CC/Univ Colleges and Universities Disparity Study

Business Ownership Classification	2014	2015	2016	2017	2018	TOTAL
	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)
Black American	\$ 3,443,834	\$ 6,847,610	\$ 7,450,794	\$ 3,517,546	\$ 4,296,375	\$ 25,556,158
Asian American	\$ 47,615	\$ 97,044	\$ 59,510	\$ 93,136	\$ 27,253	\$ 324,557
Hispanic American	\$ 914,079	\$ 195,840	\$ 1,000,105	\$ 613,270	\$ 274,902	\$ 2,998,196
American Indian	\$ 7,554,980	\$ 4,369,334	\$ 3,095,119	\$ 1,521,579	\$ 521,286	\$ 17,062,298
TOTAL MINORITY	\$ 11,960,507	\$ 11,509,828	\$ 11,605,527	\$ 5,745,531	\$ 5,119,816	\$ 45,941,209
Nonminority Female	\$ 13,397,439	\$ 13,934,021	\$ 57,929,538	\$ 81,913,035	\$ 16,603,296	\$ 183,777,329
TOTAL M/WBE	\$ 25,357,946	\$ 25,443,849	\$ 69,535,065	\$ 87,658,566	\$ 21,723,112	\$ 229,718,538
NON-M/WBE	\$ 397,379,922	\$ 436,806,663	\$ 378,244,959	\$ 541,916,725	\$ 320,659,438	\$ 2,075,007,707
TOTAL FIRMS	\$ 422,737,868	\$ 462,250,512	\$ 447,780,024	\$ 629,575,291	\$ 342,382,550	\$ 2,304,726,246
Business Ownership Classification	2014	2015	2016	2017	2018	TOTAL
	(%)	(%)	(%)	(%)	(%)	(%)
Black American	0.81%	1.48%	1.66%	0.56%	1.25%	1.11%
Asian American	0.01%	0.02%	0.01%	0.01%	0.01%	0.01%
Hispanic American	0.22%	0.04%	0.22%	0.10%	0.08%	0.13%
American Indian	1.79%	0.95%	0.69%	0.24%	0.15%	0.74%
TOTAL MINORITY	2.83%	2.49%	2.59%	0.91%	1.50%	1.99%
Nonminority Female	3.17%	3.01%	12.94%	13.01%	4.85%	7.97%
TOTAL M/WBE	6.00%	5.50%	15.53%	13.92%	6.34%	9.97%
NON-M/WBE	94.00%	94.50%	84.47%	86.08%	93.66%	90.03%
TOTAL FIRMS	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

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As shown in Tables 4 and 5, in A&E there were eighteen (18) MBEs that shared a total amount of \$10.6 million which was 2.41% of the total A&E paid dollars. Twenty-two (22) Nonminority Female owned firms were paid 3.04 % or \$13.4 million of the total A&E dollars. The average paid to MWBE firms was \$600,398 as compared to \$690,106 to Non-MWBE firms over the Study Period.

Table 4: Prime Utilization – Architecture & Engineering by Number of Firms

In the Relevant Market
Number of Businesses by Business Ownership and Fiscal Year
FY 2014-2018
NC-CC/Univ Colleges and Universities Disparity Study

Fiscal Year	African American		Asian American		Hispanic American		American Indian		Total MBE		Nonminority Female		Total M/WBE		Non-M/WBE		TOTAL	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
2014	4	1.55%	2	0.78%	0	0.00%	0	0.00%	6	2.33%	7	2.71%	13	5.04%	245	94.96%	258	19.05%
2015	3	1.09%	3	1.09%	2	0.72%	0	0.00%	8	2.90%	14	5.07%	22	7.97%	254	92.03%	276	20.38%
2016	6	2.01%	0	0.00%	1	0.34%	0	0.00%	7	2.35%	11	3.69%	18	6.04%	280	93.96%	298	22.01%
2017	4	1.42%	0	0.00%	1	0.36%	0	0.00%	5	1.78%	14	4.98%	19	6.76%	262	93.24%	281	20.75%
2018	5	2.07%	1	0.41%	2	0.83%	0	0.00%	8	3.32%	11	4.56%	19	7.88%	222	92.12%	241	17.80%
Total 2014-2018	22	1.62%	6	0.44%	6	0.44%	0	0.00%	34	2.51%	57	4.21%	91	6.72%	1263	93.28%	1354	100.00%
Total Unique Number of Businesses	11	1.71%	4	0.62%	3	0.47%	0	0.00%	18	2.80%	22	3.42%	40	6.22%	603	93.78%	643	100.00%

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* Total unique number represents the number of unduplicated firms during the Study Period.

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Table 5: Prime Utilization – Architecture & Engineering by Dollars

In the Relevant Market
Distribution of Dollars by Business Ownership and Fiscal Year
(Using Payment Dollars, FY 2014-2018)
NC-CC/Univ Colleges and Universities Disparity Study

Business Ownership Classification	2014	2015	2016	2017	2018	TOTAL
	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)
Black American	\$ 2,710,626	\$ 1,783,224	\$ 1,350,117	\$ 1,023,323	\$ 632,423	\$ 7,499,713
Asian American	\$ 315,773	\$ 404,354	\$ 258,396	\$ 625,627	\$ 192,906	\$ 1,797,057
Hispanic American	\$ 114,379	\$ 353,036	\$ 400,663	\$ 317,709	\$ 112,124	\$ 1,297,911
American Indian	\$ 6,500	\$ -	\$ 6,000	\$ 16,600	\$ 5,800	\$ 34,900
TOTAL MINORITY	\$ 3,147,278	\$ 2,540,614	\$ 2,015,176	\$ 1,983,259	\$ 943,253	\$ 10,629,580
Nonminority Female	\$ 2,349,845	\$ 3,411,092	\$ 2,280,622	\$ 3,367,656	\$ 1,977,150	\$ 13,386,364
TOTAL M/WBE	\$ 5,497,123	\$ 5,951,706	\$ 4,295,797	\$ 5,350,915	\$ 2,920,403	\$ 24,015,944
NON-M/WBE	\$ 69,086,384	\$ 70,263,329	\$ 106,120,554	\$ 91,064,086	\$ 79,600,163	\$ 416,134,516
TOTAL FIRMS	\$ 74,583,507	\$ 76,215,035	\$ 110,416,351	\$ 96,415,002	\$ 82,520,566	\$ 440,150,460
Business Ownership Classification	2014	2015	2016	2017	2018	TOTAL
	(%)	(%)	(%)	(%)	(%)	(%)
Black American	3.63%	2.34%	1.22%	1.06%	0.77%	1.70%
Asian American	0.42%	0.53%	0.23%	0.65%	0.23%	0.41%
Hispanic American	0.15%	0.46%	0.36%	0.33%	0.14%	0.29%
American Indian	0.01%	0.00%	0.01%	0.02%	0.01%	0.01%
TOTAL MINORITY	4.22%	3.33%	1.83%	2.06%	1.14%	2.41%
Nonminority Female	3.15%	4.48%	2.07%	3.49%	2.40%	3.04%
TOTAL M/WBE	7.37%	7.81%	3.89%	5.55%	3.54%	5.46%
NON-M/WBE	92.63%	92.19%	96.11%	94.45%	96.46%	94.54%
TOTAL FIRMS	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

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As shown in Tables 6 and 7, in Professional Services there were nine (9) MBEs that shared a total amount of \$1.9 million which was 0.32% of the total Professional Services paid dollars. Eleven (11) Nonminority Female owned firms were paid 0.25% or \$1.6 million of the total Professional Services dollars. The average paid to MWBE firms was \$180,133, substantially less than the \$575,079 average paid to Non-MWBE firms over the Study Period.

Table 6: Prime Utilization – Professional Services by Number of Firms

In the Relevant Market
Number of Businesses by Business Ownership and Fiscal Year
FY 2014-2018
NC-CC/Univ Colleges and Universities Disparity Study

Fiscal Year	African American		Asian American		Hispanic American		American Indian		Total MBE		Nonminority Female		Total M/WBE		Non-M/WBE		TOTAL	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
2014	3	0.78%	1	0.26%	0	0.00%	0	0.00%	4	1.03%	3	0.78%	7	1.81%	380	98.19%	387	18.13%
2015	5	1.08%	2	0.43%	0	0.00%	0	0.00%	7	1.51%	5	1.08%	12	2.59%	452	97.41%	464	21.73%
2016	4	0.80%	1	0.20%	0	0.00%	0	0.00%	5	1.00%	9	1.80%	14	2.81%	485	97.19%	499	23.37%
2017	5	1.04%	0	0.00%	0	0.00%	0	0.00%	5	1.04%	6	1.25%	11	2.29%	469	97.71%	480	22.48%
2018	1	0.33%	1	0.33%	0	0.00%	0	0.00%	2	0.66%	3	0.98%	5	1.64%	300	98.36%	305	14.29%
Total 2014-2018	18	0.84%	5	0.23%	0	0.00%	0	0.00%	23	1.08%	26	1.22%	49	2.30%	2086	97.70%	2135	100.00%
Total Unique Number of Businesses	6	0.54%	3	0.27%	0	0.00%	0	0.00%	9	0.81%	11	0.99%	20	1.80%	1094	98.20%	1114	100.00%

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* Total unique number represents the number of unduplicated firms during the Study Period.

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Table 7: Prime Utilization – Professional Services by Dollars

In the Relevant Market
FY 2014-2018

NC-CC/Univ Colleges and Universities Disparity Study

Business Ownership Classification	2014	2015	2016	2017	2018	TOTAL
	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)
Black American	\$ 350,759	\$ 264,075	\$ 397,316	\$ 538,854	\$ 246,291	\$ 1,797,295
Asian American	\$ 6,270	\$ 126,900	\$ 29,866	\$ -	\$ 35,473	\$ 198,510
Hispanic American	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
American Indian	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL MINORITY	\$ 357,029	\$ 390,975	\$ 427,183	\$ 538,854	\$ 281,764	\$ 1,995,804
Nonminority Female	\$ 166,437	\$ 346,503	\$ 476,513	\$ 203,286	\$ 414,117	\$ 1,606,856
TOTAL M/WBE	\$ 523,466	\$ 737,478	\$ 903,696	\$ 742,141	\$ 695,881	\$ 3,602,661
NON-M/WBE	\$ 107,305,658	\$ 173,544,287	\$ 151,580,413	\$ 122,216,126	\$ 74,490,970	\$ 629,137,455
TOTAL FIRMS	\$ 107,829,124	\$ 174,281,765	\$ 152,484,109	\$ 122,958,267	\$ 75,186,851	\$ 632,740,116
Business Ownership Classification	2014	2015	2016	2017	2018	TOTAL
	(%)	(%)	(%)	(%)	(%)	(%)
Black American	0.33%	0.15%	0.26%	0.44%	0.33%	0.28%
Asian American	0.01%	0.07%	0.02%	0.00%	0.05%	0.03%
Hispanic American	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
American Indian	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
TOTAL MINORITY	0.33%	0.22%	0.28%	0.44%	0.37%	0.32%
Nonminority Female	0.15%	0.20%	0.31%	0.17%	0.55%	0.25%
TOTAL M/WBE	0.49%	0.42%	0.59%	0.60%	0.93%	0.57%
NON-M/WBE	99.51%	99.58%	99.41%	99.40%	99.07%	99.43%
TOTAL FIRMS	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

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As indicated in Tables 8 and 9, one hundred eighty-seven (187) MWBEs represented 2.41% of all firms paid dollars in Other Services, averaging \$255,254 per firm. In comparison, 7,567 non-MWBE firms represented 97.59% of all firms in Other Services, averaging \$393,839 per firm.

Table 8: Prime Utilization – Other Services by Number of Firms

In the Relevant Market
Number of Businesses by Business Ownership and Fiscal Year
FY 2014-2018
NC-CC/Univ Colleges and Universities Disparity Study

Fiscal Year	African American		Asian American		Hispanic American		American Indian		Total MBE		Nonminority Female		Total M/WBE		Non-M/WBE		TOTAL	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
2014	7	0.47%	1	0.07%	1	0.07%	2	0.14%	11	0.74%	20	1.35%	31	2.10%	1447	97.90%	1478	19.06%
2015	6	0.35%	2	0.12%	2	0.12%	2	0.12%	12	0.70%	31	1.81%	43	2.50%	1674	97.50%	1717	22.14%
2016	7	0.40%	2	0.11%	3	0.17%	0	0.00%	12	0.69%	24	1.38%	36	2.07%	1704	97.93%	1740	22.44%
2017	7	0.39%	4	0.22%	5	0.28%	2	0.11%	18	1.01%	27	1.51%	45	2.52%	1742	97.48%	1787	23.05%
2018	9	0.87%	1	0.10%	2	0.19%	0	0.00%	12	1.16%	20	1.94%	32	3.10%	1000	96.90%	1032	13.31%
Total 2014-2018	36	0.46%	10	0.13%	13	0.17%	6	0.08%	65	0.84%	122	1.57%	187	2.41%	7567	97.59%	7754	100.00%

* Total unique number represents the number of unduplicated firms during the Study Period.

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Table 9: Prime Utilization – Other Services by Dollars

In the Relevant Market
FY 2014-2018

NC-CC/Univ Colleges and Universities Disparity Study

Business Ownership Classification	2014	2015	2016	2017	2018	TOTAL
	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)
Black American	\$ 507,269	\$ 607,508	\$ 244,297	\$ 707,040	\$ 928,635	\$ 2,994,749
Asian American	\$ 809,307	\$ 934,453	\$ 141,017	\$ 622,204	\$ 120,348	\$ 2,627,328
Hispanic American	\$ 12,028	\$ 90,308	\$ 87,295	\$ 143,759	\$ 31,026	\$ 364,416
American Indian	\$ 684,006	\$ 427,399	\$ 401,577	\$ 360,341	\$ 271,200	\$ 2,144,523
TOTAL MINORITY	\$ 2,012,610	\$ 2,059,669	\$ 874,185	\$ 1,833,343	\$ 1,351,209	\$ 8,131,016
Nonminority Female	\$ 15,221,538	\$ 5,374,126	\$ 7,024,992	\$ 5,753,738	\$ 6,227,196	\$ 39,601,591
TOTAL M/WBE	\$ 17,234,148	\$ 7,433,795	\$ 7,899,177	\$ 7,587,081	\$ 7,578,405	\$ 47,732,607
NON-M/WBE	\$ 564,049,507	\$ 690,262,812	\$ 772,444,500	\$ 612,959,093	\$ 340,467,606	\$ 2,980,183,518
TOTAL FIRMS	\$ 581,283,655	\$ 697,696,607	\$ 780,343,677	\$ 620,546,175	\$ 348,046,011	\$ 3,027,916,125
Business Ownership Classification	2014	2015	2016	2017	2018	TOTAL
	(%)	(%)	(%)	(%)	(%)	(%)
Black American	0.09%	0.09%	0.03%	0.11%	0.27%	0.10%
Asian American	0.14%	0.13%	0.02%	0.10%	0.03%	0.09%
Hispanic American	0.00%	0.01%	0.01%	0.02%	0.01%	0.01%
American Indian	0.12%	0.06%	0.05%	0.06%	0.08%	0.07%
TOTAL MINORITY	0.35%	0.30%	0.11%	0.30%	0.39%	0.27%
Nonminority Female	2.62%	0.77%	0.90%	0.93%	1.79%	1.31%
TOTAL M/WBE	2.96%	1.07%	1.01%	1.22%	2.18%	1.58%
NON-M/WBE	97.04%	98.93%	98.99%	98.78%	97.82%	98.42%
TOTAL FIRMS	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

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As indicated in Tables 10 and 11, forty-seven (47) MWBEs represented 1.99 % of all firms to be paid dollars in Goods, averaging \$3,876,323 per firm. In comparison, 2,312 non-MWBE firms represented 98.01% of all firms in Goods, averaging \$794,320 per firm.

Table 10: Prime Utilization – Goods by Number of Firms

In the Relevant Market
Number of Businesses by Business Ownership and Fiscal Year
FY 2014-2018
NC-CC/Univ Colleges and Universities Disparity Study

Fiscal Year	African American		Asian American		Hispanic American		American Indian		Total MBE		Nonminority Female		Total M/WBE		Non-M/WBE		TOTAL	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
2014	3	0.34%	2	0.23%	0	0.00%	0	0.00%	5	0.57%	8	0.91%	13	1.49%	862	98.51%	875	19.65%
2015	3	0.30%	3	0.30%	0	0.00%	0	0.00%	6	0.61%	15	1.52%	21	2.13%	963	97.87%	984	22.10%
2016	3	0.29%	2	0.20%	0	0.00%	0	0.00%	5	0.49%	14	1.37%	19	1.86%	1003	98.14%	1022	22.95%
2017	3	0.31%	2	0.21%	1	0.10%	0	0.00%	6	0.62%	15	1.54%	21	2.16%	953	97.84%	974	21.87%
2018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	9	1.51%	9	1.51%	589	98.49%	598	13.43%
Total 2014-2018	12	0.27%	9	0.20%	1	0.02%	0	0.00%	22	0.49%	61	1.37%	83	1.86%	4370	98.14%	4453	100.00%
Total Unique Number of Businesses	6	0.25%	4	0.17%	1	0.04%	0	0.00%	11	0.47%	36	1.53%	47	1.99%	2312	98.01%	2359	100.00%

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* Total unique number represents the number of unduplicated firms during the Study Period.

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Table 11: Prime Utilization –Goods by Dollars

In the Relevant Market
FY 2014-2018

NC-CC/Univ Colleges and Universities Disparity Study

Business Ownership Classification	2014	2015	2016	2017	2018	TOTAL
	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)
Black American	\$ 4,608,364	\$ 31,648,409	\$ 13,548,481	\$ 13,464,052	\$ 175,196	\$ 63,444,502
Asian American	\$ 8,529,515	\$ 13,542,020	\$ 14,102,886	\$ 11,197,479	\$ 1,342,411	\$ 48,714,312
Hispanic American	\$ 737,620	\$ 731,409	\$ 821,764	\$ 1,128,330	\$ 1,318,164	\$ 4,737,286
American Indian	\$ -	\$ -	\$ 14,855	\$ -	\$ -	\$ 14,855
TOTAL MINORITY	\$ 13,875,499	\$ 45,921,838	\$ 28,487,986	\$ 25,789,861	\$ 2,835,771	\$ 116,910,954
Nonminority Female	\$ 13,892,976	\$ 17,161,072	\$ 9,795,833	\$ 14,260,299	\$ 10,166,070	\$ 65,276,250
TOTAL M/WBE	\$ 27,768,474	\$ 63,082,910	\$ 38,283,819	\$ 40,050,160	\$ 13,001,841	\$ 182,187,204
NON-M/WBE	\$ 341,137,269	\$ 389,600,288	\$ 445,816,292	\$ 342,205,033	\$ 317,711,124	\$ 1,836,470,006
TOTAL FIRMS	\$ 368,905,743	\$ 452,683,197	\$ 484,100,111	\$ 382,255,193	\$ 330,712,966	\$ 2,018,657,210

Business Ownership Classification	2014	2015	2016	2017	2018	TOTAL
	(%)	(%)	(%)	(%)	(%)	(%)
Black American	1.25%	6.99%	2.80%	3.52%	0.05%	3.14%
Asian American	2.31%	2.99%	2.91%	2.93%	0.41%	2.41%
Hispanic American	0.20%	0.16%	0.17%	0.30%	0.40%	0.23%
American Indian	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
TOTAL MINORITY	3.76%	10.14%	5.88%	6.75%	0.86%	5.79%
Nonminority Female	3.77%	3.79%	2.02%	3.73%	3.07%	3.23%
TOTAL M/WBE	7.53%	13.94%	7.91%	10.48%	3.93%	9.03%
NON-M/WBE	92.47%	86.06%	92.09%	89.52%	96.07%	90.97%
TOTAL FIRMS	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

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GSPC presents utilization by Community College and University in Appendix D.

2. Total Utilization (Prime and Subcontractor Payments)

NC-CC/Univ tracks subcontracting dollars allocated to MWBEs but does not completely track Non-MWBE subcontractors. GSPC conducted a total utilization analysis by combining prime contract dollars with subcontract dollars, after subtracting subcontract dollars from prime contract dollars on a contract-by-contract basis.⁵ This analysis was only conducted for construction which had levels of reported subcontracting.

***TOTAL UTILIZATION** is the percentage of dollars awarded to combined Prime Contractors (in the Relevant Market) and Subcontractors, by ethnic/gender category, after removing MWBE subcontract dollars from prime dollars on a contract by contract basis.*

⁵ So, for example, if there was one Asian American owned prime (\$100) with one nonminority subcontractor (\$30) and two Asian subcontractors had \$20 in subcontracts, then in total utilization: (\$100-\$50) = \$50 attributed to Asian American prime dollars and \$20 attributed to Asian American subcontractor dollars for a total of \$70 paid to Asian American owned firms.

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MBEs received \$65,940,776 during the Study Period, 2.86% of the total Construction paid dollars, while Nonminority Female owned firms were paid a total of \$222,482,937, 9.65% of the total Construction paid dollars. MWBEs received 12.51% of the total Construction paid dollars (Table 12).

**Table 12: Total Utilization - Construction by Dollars (Prime & Subcontractor Combined)
In the Relevant Market**

NC-CC/Univ Colleges and Universities Disparity Study

Business Ownership Classification	2014	2015	2016	2017	2018	TOTAL
	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)
Black American	\$ 4,023,503	\$ 6,847,610	\$ 9,167,646	\$ 6,336,118	\$ 9,044,658	\$ 35,419,535
Asian American	\$ 47,615	\$ 97,044	\$ 293,322	\$ 102,880	\$ 794,466	\$ 1,335,327
Hispanic American	\$ 1,722,818	\$ 195,840	\$ 1,918,638	\$ 2,144,966	\$ 4,682,535	\$ 10,664,796
Native American	\$ 7,572,864	\$ 4,369,334	\$ 3,435,236	\$ 2,355,057	\$ 788,626	\$ 18,521,117
TOTAL MINORITY	\$ 13,366,800	\$ 11,509,828	\$ 14,814,842	\$ 10,939,021	\$ 15,310,285	\$ 65,940,776
Nonminority Female	\$ 13,888,566	\$ 13,934,021	\$ 67,096,250	\$ 93,959,562	\$ 33,604,538	\$ 222,482,937
TOTAL M/WBE	\$ 27,255,366	\$ 25,443,849	\$ 81,911,092	\$ 104,898,583	\$ 48,914,823	\$ 288,423,712
NON-M/WBE	\$ 395,482,503	\$ 436,806,663	\$ 365,868,932	\$ 524,676,708	\$ 293,467,728	\$ 2,016,302,533
TOTAL FIRMS	\$ 422,737,868	\$ 462,250,512	\$ 447,780,024	\$ 629,575,291	\$ 342,382,550	\$ 2,304,726,246
Business Ownership Classification	2014	2015	2016	2017	2018	TOTAL
	(%)	(%)	(%)	(%)	(%)	(%)
Black American	0.95%	1.48%	2.05%	1.01%	2.64%	1.54%
Asian American	0.01%	0.02%	0.07%	0.02%	0.23%	0.06%
Hispanic American	0.41%	0.04%	0.43%	0.34%	1.37%	0.46%
Native American	1.79%	0.95%	0.77%	0.37%	0.23%	0.80%
TOTAL MINORITY	3.16%	2.49%	3.31%	1.74%	4.47%	2.86%
Nonminority Female	3.29%	3.01%	14.98%	14.92%	9.81%	9.65%
TOTAL M/WBE	6.45%	5.50%	18.29%	16.66%	14.29%	12.51%
NON-M/WBE	93.55%	94.50%	81.71%	83.34%	85.71%	87.49%
TOTAL FIRMS	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

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G. Determination of Disparity

This section of the report addresses the crucial question of whether, and to what extent, there is disparity between the utilization of MWBEs as measured against their availability in the NC-CC/Univ marketplace.

***DISPARITY INDICES** calculate the difference between the percentage of NC-CC/Univ's **UTILIZATION** of MWBEs during the Study Period and the **AVAILABILITY** percentage of MWBEs.*

1. Methodology

The statistical approach to answer this question is to assess the existence and extent of disparity by comparing the MWBE utilization percentages (by dollars) to the percentage of the total pool of MWBE firms in the relevant geographic and product areas. The actual disparity derived as a result of employing this approach is measured by use of a Disparity Index (DI).

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The Disparity Index is defined as the ratio of the percentage of MWBE firms utilized (U) divided by the percentage of such firms available in the marketplace, (A):

Let:	U	=Utilization percentage for the MWBE group
	A	=Availability percentage for the MWBE group
	DI	=Disparity Index for the MWBE group
	DI	=U/A

The results obtained by a disparity analysis will result in one of three conclusions: overutilization, underutilization, or parity. Underutilization is when the Disparity Index is below one hundred. Overutilization is when the Disparity Index is over one hundred. Parity or the absence of disparity is when the Disparity Index is one hundred (100.00) which indicates that the utilization percentage equals the availability percentage. In situations where there is availability, but no utilization, the corresponding disparity index will be zero. Finally, in cases where there is neither utilization nor availability, the corresponding disparity index is undefined and designated by a dash (-) symbol. Disparity analyses are presented separately for each Industry Category and for each race/gender/ethnicity group.

2. Determining the Significance of Disparity Indices

The determination that a particular ethnic or gender group has been overutilized or underutilized is not, standing alone, proof of discrimination. Typically, the determination of whether a disparity is “statistically significant” can be based on the depth of the disparity in that any disparity index that is less than 80.00 is considered to be a statistically significant underutilization, and any disparity index over 100.00 is considered to be overutilized. The disparity indices impact as designated in the tables below as “overutilization”, “underutilization”, or “parity” have been bolded to indicate such statistically significant impact.

Typically, the determination of whether a disparity is “substantially significant” can be based on any disparity index that is less than 80.00. Further, GSPC uses a statistical test that considers whether or not the typical disparity index across all vendor categories is equal to unity. This constitutes a null hypothesis of “parity” and the test estimates the probability that the typical disparity index departs from unity, and the magnitude of the calculated test statistic indicates whether there is typically underutilization or overrepresentation. Statistical significance tests were performed for each disparity index derived for each MWBE group, and in each Industry Category.

The existence of a statistically significant disparity between the availability and utilization of minority or Nonminority Female owned businesses that is determined to likely be the result of the owners’ race, gender, or ethnicity will establish an inference that ongoing effects of discrimination are adversely affecting market outcomes for underutilized groups. Accordingly, such findings will impact the recommendations provided in this Study. GSPC will, in such a case, make recommendations for consideration of appropriate and narrowly tailored race/ethnicity/gender-neutral remedies for this discrimination to give all firms equal access to public contracting within NC-CC/Univ. GSPC will also, if appropriate, recommend narrowly

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tailored race/ethnicity/gender-conscious remedies to remedy identified barriers and forms of discrimination likely affected by such discrimination. If no statistically significant disparity is found to exist, or if such a disparity is not determined to be a likely result of firm owners' race, ethnicity, or gender upon their success in the marketplace, GSPC may still make recommendations to support the continuation of engagement, outreach, small business development, and non-discrimination policies in the purchasing processes of NC-CC/Univ.

3. Prime Disparity Indices

Table 13 provides prime disparity ratios over the Study Period in the Relevant Market. Detailed disparity tables by year and over the Study Period corresponding to Tables 13 are in Appendix C. In Table 13, there was statistically significant underutilization in prime contracts for all MWBEs groups, except Asian American owned firms in Goods. Non-MWBEs were overutilized.

Table 13 : Disparity Indices – Prime

Business Ownership Classification by Fiscal Year
NC-CC/Univ Colleges and Universities Disparity Study

Business Ownership Classification	Construction	Architecture & Engineering	Professional Services	Other Service	Goods
Black American	7.57*	26.59*	1.54*	0.62*	38.43*
Asian American	1.25*	16.88*	1.10*	6.67*	220.45
Hispanic American	2.97*	12.19*	0.00*	0.70*	13.75*
American Indian	31.02*	0.66*	0.00*	10.32*	0.11*
TOTAL MBE	8.84*	19.39*	1.27*	1.37*	49.69*
Nonminority Female	58.44*	28.91*	2.66*	14.45*	34.87*
TOTAL MWBE	27.54*	23.75*	1.66*	5.518	43.13*
NON-MWBE	141.09	122.74	151.40	137.88	115.05

Griffin & Strong, P.C. 2020

These same disparity results (only overutilization of MWBEs was Asian Americans in Goods) held across all five procurement categories for projects less than \$500,000 and less than \$1,000,000 (Appendix E).

Legend:

- * Statistically significant disparity (Confidence interval of 95% and probability of error of less than 5%).
- **Very small number to produce statistical significance

Significant Disparity (Disparity percentage below 80%).

Disparity (Disparity percentage 80% to 99.9%).

Overutilized (Disparity percentage over 100%).

No color is parity

4. Total (Prime and Subcontractor) Utilization Disparity Indices

Table 14 provides total utilization (prime plus subcontractor) disparity ratios over the Study Period in the Relevant Market for Construction. There was no total utilization analysis for areas outside of Construction because there was little to no reported subcontracting in those areas. Detailed prime disparity tables by year and over the Study Period corresponding to Table 14 are in Appendix C.

In Table 14, there was underutilization in total utilization of all MWBE groups. Non-MWBEs were overutilized.

Table 14: Disparity Indices – Construction and Professional Services (Prime plus Subcontractor)

Business Ownership Classification by Fiscal Year
NC-CC/Univ Colleges and Universities Disparity Study

Business Ownership Classification	Construction
Black American	10.49*
Asian American	5.16*
Hispanic American	10.57*
American Indian	33.68*
TOTAL MBE	12.69*
Nonminority Female	70.75*
TOTAL M/WBE	34.58*
NON-M/WBE	137.10

Griffin & Strong, P.C. 2020

Legend:

* Statistically significant disparity (Confidence interval of 95% and probability of error of less than 5%).

**Very small number to produce statistical significance

Significant Disparity (Disparity percentage below 80%).

Disparity (Disparity percentage 80% to 99.9%).

Overutilized (Disparity percentage over 100%).

No color is parity

H. Conclusion

With one exception, every MWBE group was significantly underutilized in each category throughout the Study Period as prime contractors (except Asian Americans in Goods), and in every ethnic and gender group in Prime plus Subcontractor (except Asian Americans in Goods).

The findings of the NC-CC/Univ quantitative analysis coincides with the findings of the State DOA Agencies' quantitative analysis. In addition, the findings of the Legal, Policy (including the HUB Survey), Marketplace Disparities, and Anecdotal analyses apply to the NC-CC/Univ purchases and procurements.

The Recommendations made in the Executive Summary of the Disparity Study apply to the NC-CC/Univ which should result in unified remedial programs administered by the HUB Office.

APPENDIX A
PAYMENTS BY COUNTY TO DETERMINE
RELEVANT MARKET

Appendix A – Payments By County of Firm Location

The tables in Appendix A (Tables A-1 through A-5) presents payments by counties in the State of North Carolina for all NC-CC/Univ prime spending, broken down by the five procurement categories. The counties are arranged from the highest dollar value to the lowest dollar value. The first percentage column is the percentage of NC-CC/Univ prime spending with firms in that county and the last column is the cumulative percentage of NC-CC/Univ spending with firms for that county and the counties above it.

Table A-1**North Carolina Disparity Study****NC-CC/Univ Prime Construction by Counties****(Using Payment Dollars, FY 2014-2018)**

County, State	Amount	Percent	Cumulative Percent
WAKE COUNTY, NC	\$ 520,486,720	22.08%	22.08%
MECKLENBURG COUNTY, NC	\$ 399,816,543	16.96%	39.04%
PITT COUNTY, NC	\$ 262,499,631	11.13%	50.17%
ROBESON COUNTY, NC	\$ 212,170,589	9.00%	59.17%
FORSYTH COUNTY, NC	\$ 175,949,045	7.46%	66.63%
DURHAM COUNTY, NC	\$ 165,706,117	7.03%	73.66%
GUILFORD COUNTY, NC	\$ 164,175,182	6.96%	80.62%
NEW HANOVER COUNTY, NC	\$ 54,638,719	2.32%	82.94%
NASH COUNTY, NC	\$ 51,943,287	2.20%	85.14%
BUNCOMBE COUNTY, NC	\$ 40,401,049	1.71%	86.86%
CUMBERLAND COUNTY, NC	\$ 22,669,072	0.96%	87.82%
ORANGE COUNTY, NC	\$ 19,592,311	0.83%	88.65%
CATAWBA COUNTY, NC	\$ 15,261,406	0.65%	89.30%
SURRY COUNTY, NC	\$ 12,420,241	0.53%	89.82%
WATAUGA COUNTY, NC	\$ 11,643,757	0.49%	90.32%
YADKIN COUNTY, NC	\$ 9,686,832	0.41%	90.73%
ONSLOW COUNTY, NC	\$ 9,362,440	0.40%	91.13%
GASTON COUNTY, NC	\$ 9,002,303	0.38%	91.51%
LEE COUNTY, NC	\$ 8,367,577	0.35%	91.86%
DAVIDSON COUNTY, NC	\$ 8,305,647	0.35%	92.22%
CABARRUS COUNTY, NC	\$ 7,023,911	0.30%	92.51%
HENDERSON COUNTY, NC	\$ 6,531,293	0.28%	92.79%
FRANKLIN COUNTY, NC	\$ 6,316,879	0.27%	93.06%
WAYNE COUNTY, NC	\$ 6,215,530	0.26%	93.32%
JOHNSTON COUNTY, NC	\$ 6,088,963	0.26%	93.58%
HARNETT COUNTY, NC	\$ 5,972,460	0.25%	93.83%
UNION COUNTY, NC	\$ 5,943,099	0.25%	94.09%
IREDELL COUNTY, NC	\$ 5,802,421	0.25%	94.33%
WILSON COUNTY, NC	\$ 5,444,925	0.23%	94.56%
LENOIR COUNTY, NC	\$ 5,240,022	0.22%	94.79%

Table A-1 (cont.)

ASHE COUNTY, NC	\$ 5,146,700	0.22%	95.00%
CARTERET COUNTY, NC	\$ 4,857,895	0.21%	95.21%
JACKSON COUNTY, NC	\$ 4,782,852	0.20%	95.41%
MARTIN COUNTY, NC	\$ 4,110,937	0.17%	95.59%
ROWAN COUNTY, NC	\$ 3,353,067	0.14%	95.73%
RUTHERFORD COUNTY, NC	\$ 3,044,267	0.13%	95.86%
PASQUOTANK COUNTY, NC	\$ 2,757,981	0.12%	95.98%
RANDOLPH COUNTY, NC	\$ 2,689,515	0.11%	96.09%
LINCOLN COUNTY, NC	\$ 2,326,131	0.10%	96.19%
ALAMANCE COUNTY, NC	\$ 2,316,089	0.10%	96.29%
BURKE COUNTY, NC	\$ 2,245,114	0.10%	96.38%
WILKES COUNTY, NC	\$ 2,040,314	0.09%	96.47%
BEAUFORT COUNTY, NC	\$ 1,994,467	0.08%	96.55%
ROCKINGHAM COUNTY, NC	\$ 1,967,035	0.08%	96.64%
CRAVEN COUNTY, NC	\$ 1,925,469	0.08%	96.72%
HAYWOOD COUNTY, NC	\$ 1,767,776	0.07%	96.79%
STANLY COUNTY, NC	\$ 1,668,509	0.07%	96.86%
CLEVELAND COUNTY, NC	\$ 1,548,363	0.07%	96.93%
JONES COUNTY, NC	\$ 1,488,273	0.06%	96.99%
MCDOWELL COUNTY, NC	\$ 1,410,016	0.06%	97.05%
CALDWELL COUNTY, NC	\$ 1,392,047	0.06%	97.11%
MONTGOMERY COUNTY, NC	\$ 1,200,370	0.05%	97.16%
DUPLIN COUNTY, NC	\$ 1,110,293	0.05%	97.21%
MACON COUNTY, NC	\$ 1,109,165	0.05%	97.26%
PERSON COUNTY, NC	\$ 994,346	0.04%	97.30%
AVERY COUNTY, NC	\$ 916,833	0.04%	97.34%
COLUMBUS COUNTY, NC	\$ 882,832	0.04%	97.37%
CAMDEN COUNTY, NC	\$ 874,587	0.04%	97.41%
MOORE COUNTY, NC	\$ 769,059	0.03%	97.44%
MADISON COUNTY, NC	\$ 748,737	0.03%	97.48%
STOKES COUNTY, NC	\$ 746,859	0.03%	97.51%
RICHMOND COUNTY, NC	\$ 712,041	0.03%	97.54%
POLK COUNTY, NC	\$ 630,620	0.03%	97.56%
EDGECOMBE COUNTY, NC	\$ 453,618	0.02%	97.58%
CHATHAM COUNTY, NC	\$ 440,557	0.02%	97.60%
DARE COUNTY, NC	\$ 373,846	0.02%	97.62%
PENDER COUNTY, NC	\$ 373,239	0.02%	97.63%
SAMPSON COUNTY, NC	\$ 348,874	0.01%	97.65%

Table A-1 (cont.)

YANCEY COUNTY, NC	\$	250,861	0.01%	97.66%
CHEROKEE COUNTY, NC	\$	188,996	0.01%	97.67%
HALIFAX COUNTY, NC	\$	188,636	0.01%	97.68%
PERQUIMANS COUNTY, NC	\$	188,296	0.01%	97.68%
GRANVILLE COUNTY, NC	\$	179,890	0.01%	97.69%
MITCHELL COUNTY, NC	\$	176,319	0.01%	97.70%
SWAIN COUNTY, NC	\$	148,709	0.01%	97.71%
GREENE COUNTY, NC	\$	132,738	0.01%	97.71%
BLADEN COUNTY, NC	\$	127,489	0.01%	97.72%
BRUNSWICK COUNTY, NC	\$	115,882	0.00%	97.72%
CHOWAN COUNTY, NC	\$	106,826	0.00%	97.73%
HERTFORD COUNTY, NC	\$	96,950	0.00%	97.73%
SCOTLAND COUNTY, NC	\$	93,952	0.00%	97.73%
TYRRELL COUNTY, NC	\$	87,200	0.00%	97.74%
ANSON COUNTY, NC	\$	75,916	0.00%	97.74%
CURRITUCK COUNTY, NC	\$	55,938	0.00%	97.74%
WASHINGTON COUNTY, NC	\$	53,919	0.00%	97.75%
VANCE COUNTY, NC	\$	43,761	0.00%	97.75%
CASWELL COUNTY, NC	\$	37,995	0.00%	97.75%
NORTHAMPTON COUNTY, NC	\$	37,894	0.00%	97.75%
HOKE COUNTY, NC	\$	37,032	0.00%	97.75%
BERTIE COUNTY, NC	\$	29,878	0.00%	97.75%
ALLEGHANY COUNTY, NC	\$	21,654	0.00%	97.75%
ALEXANDER COUNTY, NC	\$	20,549	0.00%	97.76%
PAMLICO COUNTY, NC	\$	20,300	0.00%	97.76%
GATES COUNTY, NC	\$	6,400	0.00%	97.76%
DAVIE COUNTY, NC	\$	5,600	0.00%	97.76%

Table A-2**North Carolina Disparity Study****NC-CC/Univ Prime Architecture & Engineering by Counties****(Using Payment Dollars, FY 2014-2018)**

County, State	Amount	Percent	Cumulative Percent
MECKLENBURG COUNTY, NC	\$ 153,461,328	29.99%	29.99%
WAKE COUNTY, NC	\$ 132,410,944	25.87%	55.86%
PITT COUNTY, NC	\$ 52,939,508	10.34%	66.20%
DURHAM COUNTY, NC	\$ 32,136,221	6.28%	72.48%
FORSYTH COUNTY, NC	\$ 19,988,889	3.91%	76.39%
GUILFORD COUNTY, NC	\$ 10,791,245	2.11%	78.50%
ORANGE COUNTY, NC	\$ 9,407,850	1.84%	80.34%
SURRY COUNTY, NC	\$ 4,999,987	0.98%	81.31%
ONslow COUNTY, NC	\$ 3,214,448	0.63%	81.94%
CHATHAM COUNTY, NC	\$ 2,939,740	0.57%	82.52%
BUNCOMBE COUNTY, NC	\$ 2,557,378	0.50%	83.02%
NEW HANOVER COUNTY, NC	\$ 2,319,820	0.45%	83.47%
CUMBERLAND COUNTY, NC	\$ 1,932,023	0.38%	83.85%
CLEVELAND COUNTY, NC	\$ 1,808,729	0.35%	84.20%
NASH COUNTY, NC	\$ 1,462,891	0.29%	84.49%
ROBESON COUNTY, NC	\$ 1,250,208	0.24%	84.73%
WILSON COUNTY, NC	\$ 1,011,493	0.20%	84.93%
GASTON COUNTY, NC	\$ 668,864	0.13%	85.06%
CRAVEN COUNTY, NC	\$ 459,485	0.09%	85.15%
BURKE COUNTY, NC	\$ 443,373	0.09%	85.23%
LINCOLN COUNTY, NC	\$ 365,093	0.07%	85.31%
ALAMANCE COUNTY, NC	\$ 315,663	0.06%	85.37%
CABARRUS COUNTY, NC	\$ 302,435	0.06%	85.43%
MOORE COUNTY, NC	\$ 284,650	0.06%	85.48%
CARTERET COUNTY, NC	\$ 279,095	0.05%	85.54%
AVERY COUNTY, NC	\$ 259,674	0.05%	85.59%
RANDOLPH COUNTY, NC	\$ 251,112	0.05%	85.64%
CATAWBA COUNTY, NC	\$ 189,126	0.04%	85.67%
DARE COUNTY, NC	\$ 162,730	0.03%	85.71%
WATAUGA COUNTY, NC	\$ 153,574	0.03%	85.74%

Table A-2 (cont.)

GRANVILLE COUNTY, NC	\$ 139,761	0.03%	85.76%
HAYWOOD COUNTY, NC	\$ 128,409	0.03%	85.79%
STANLY COUNTY, NC	\$ 121,625	0.02%	85.81%
DAVIDSON COUNTY, NC	\$ 121,587	0.02%	85.84%
BEAUFORT COUNTY, NC	\$ 116,807	0.02%	85.86%
UNION COUNTY, NC	\$ 116,358	0.02%	85.88%
ROWAN COUNTY, NC	\$ 107,509	0.02%	85.90%
BRUNSWICK COUNTY, NC	\$ 78,938	0.02%	85.92%
JACKSON COUNTY, NC	\$ 59,305	0.01%	85.93%
LEE COUNTY, NC	\$ 45,076	0.01%	85.94%
ROCKINGHAM COUNTY, NC	\$ 43,555	0.01%	85.95%
IREDELL COUNTY, NC	\$ 42,955	0.01%	85.95%
YADKIN COUNTY, NC	\$ 41,069	0.01%	85.96%
SAMPSON COUNTY, NC	\$ 38,220	0.01%	85.97%
DUPLIN COUNTY, NC	\$ 38,032	0.01%	85.98%
MCDOWELL COUNTY, NC	\$ 28,521	0.01%	85.98%
HENDERSON COUNTY, NC	\$ 23,500	0.00%	85.99%
PERSON COUNTY, NC	\$ 18,941	0.00%	85.99%
WAYNE COUNTY, NC	\$ 12,461	0.00%	85.99%
EDGECOMBE COUNTY, NC	\$ 11,026	0.00%	86.00%
CLAY COUNTY, NC	\$ 10,950	0.00%	86.00%
YANCEY COUNTY, NC	\$ 7,554	0.00%	86.00%
MARTIN COUNTY, NC	\$ 6,928	0.00%	86.00%
JOHNSTON COUNTY, NC	\$ 6,600	0.00%	86.00%
RICHMOND COUNTY, NC	\$ 6,200	0.00%	86.00%
MACON COUNTY, NC	\$ 6,000	0.00%	86.00%
HALIFAX COUNTY, NC	\$ 5,000	0.00%	86.01%

Table A-3
North Carolina Disparity Study
NC-CC/Univ Prime Professional Services by Counties
(Using Payment Dollars, FY 2014-2018)

County, State	Amount	Percent	Cumulative Percent
PITT COUNTY, NC	\$ 154,572,487	18.71%	18.71%
WAKE COUNTY, NC	\$ 150,045,524	18.16%	36.87%
DURHAM COUNTY, NC	\$ 102,457,567	12.40%	49.27%
MECKLENBURG COUNTY, NC	\$ 91,404,278	11.06%	60.33%
ROBESON COUNTY, NC	\$ 36,718,915	4.44%	64.77%
GUILFORD COUNTY, NC	\$ 36,173,006	4.38%	69.15%
CHATHAM COUNTY, NC	\$ 16,248,914	1.97%	71.12%
FORSYTH COUNTY, NC	\$ 13,829,585	1.67%	72.79%
ORANGE COUNTY, NC	\$ 12,418,657	1.50%	74.30%
BUNCOMBE COUNTY, NC	\$ 5,698,589	0.69%	74.99%
ALAMANCE COUNTY, NC	\$ 2,718,888	0.33%	75.31%
WAYNE COUNTY, NC	\$ 1,585,137	0.19%	75.51%
WILSON COUNTY, NC	\$ 1,563,099	0.19%	75.70%
CATAWBA COUNTY, NC	\$ 1,027,755	0.12%	75.82%
NEW HANOVER COUNTY, NC	\$ 960,649	0.12%	75.94%
CUMBERLAND COUNTY, NC	\$ 856,323	0.10%	76.04%
DAVIDSON COUNTY, NC	\$ 395,711	0.05%	76.09%
RUTHERFORD COUNTY, NC	\$ 310,117	0.04%	76.12%
HENDERSON COUNTY, NC	\$ 307,253	0.04%	76.16%
UNION COUNTY, NC	\$ 270,089	0.03%	76.19%
DARE COUNTY, NC	\$ 255,591	0.03%	76.23%
ROWAN COUNTY, NC	\$ 225,007	0.03%	76.25%
ROCKINGHAM COUNTY, NC	\$ 218,069	0.03%	76.28%
CASWELL COUNTY, NC	\$ 189,901	0.02%	76.30%
ONSLOW COUNTY, NC	\$ 183,285	0.02%	76.32%
WATAUGA COUNTY, NC	\$ 179,900	0.02%	76.35%
BRUNSWICK COUNTY, NC	\$ 149,905	0.02%	76.36%
SURRY COUNTY, NC	\$ 131,467	0.02%	76.38%
JOHNSTON COUNTY, NC	\$ 106,968	0.01%	76.39%
CABARRUS COUNTY, NC	\$ 106,097	0.01%	76.41%

Table A-3 (cont.)

CLEVELAND COUNTY, NC	\$ 102,873	0.01%	76.42%
COLUMBUS COUNTY, NC	\$ 100,211	0.01%	76.43%
CALDWELL COUNTY, NC	\$ 88,234	0.01%	76.44%
BEAUFORT COUNTY, NC	\$ 86,700	0.01%	76.45%
RANDOLPH COUNTY, NC	\$ 83,288	0.01%	76.46%
MARTIN COUNTY, NC	\$ 78,615	0.01%	76.47%
CRAVEN COUNTY, NC	\$ 71,623	0.01%	76.48%
IREDELL COUNTY, NC	\$ 63,584	0.01%	76.49%
JACKSON COUNTY, NC	\$ 61,483	0.01%	76.50%
AVERY COUNTY, NC	\$ 56,000	0.01%	76.50%
CARTERET COUNTY, NC	\$ 55,161	0.01%	76.51%
PENDER COUNTY, NC	\$ 54,996	0.01%	76.52%
EDGECOMBE COUNTY, NC	\$ 50,500	0.01%	76.52%
MOORE COUNTY, NC	\$ 49,562	0.01%	76.53%
BURKE COUNTY, NC	\$ 48,896	0.01%	76.53%
PERSON COUNTY, NC	\$ 38,103	0.00%	76.54%
FRANKLIN COUNTY, NC	\$ 36,421	0.00%	76.54%
BLADEN COUNTY, NC	\$ 35,790	0.00%	76.55%
DAVIE COUNTY, NC	\$ 29,557	0.00%	76.55%
NASH COUNTY, NC	\$ 29,000	0.00%	76.55%
GRANVILLE COUNTY, NC	\$ 27,195	0.00%	76.56%
DUPLIN COUNTY, NC	\$ 24,500	0.00%	76.56%
LEE COUNTY, NC	\$ 23,200	0.00%	76.56%
HAYWOOD COUNTY, NC	\$ 21,950	0.00%	76.57%
MACON COUNTY, NC	\$ 20,736	0.00%	76.57%
STANLY COUNTY, NC	\$ 18,143	0.00%	76.57%
GASTON COUNTY, NC	\$ 17,925	0.00%	76.57%
ALLEGHANY COUNTY, NC	\$ 17,400	0.00%	76.57%
HARNETT COUNTY, NC	\$ 10,000	0.00%	76.58%
TRANSYLVANIA COUNTY, NC	\$ 7,579	0.00%	76.58%
MADISON COUNTY, NC	\$ 7,000	0.00%	76.58%
PAMLICO COUNTY, NC	\$ 5,159	0.00%	76.58%
LENOIR COUNTY, NC	\$ 5,000	0.00%	76.58%
SCOTLAND COUNTY, NC	\$ 5,000	0.00%	76.58%

Table A-4
North Carolina Disparity Study
NC-CC/Univ Prime Other Services by Counties
(Using Payment Dollars, FY 2014-2018)

County, State	Amount	Percent	Cumulative Percent
PITT COUNTY, NC	\$ 1,035,660,448	24.33%	24.33%
WAKE COUNTY, NC	\$ 737,362,804	17.32%	41.65%
ROBESON COUNTY, NC	\$ 219,982,738	5.17%	46.82%
MECKLENBURG COUNTY, NC	\$ 193,082,651	4.54%	51.35%
GUILFORD COUNTY, NC	\$ 172,462,349	4.05%	55.40%
FORSYTH COUNTY, NC	\$ 156,497,708	3.68%	59.08%
ORANGE COUNTY, NC	\$ 129,579,314	3.04%	62.12%
DURHAM COUNTY, NC	\$ 121,231,617	2.85%	64.97%
BUNCOMBE COUNTY, NC	\$ 33,501,062	0.79%	65.76%
LINCOLN COUNTY, NC	\$ 22,729,522	0.53%	66.29%
ALAMANCE COUNTY, NC	\$ 22,483,966	0.53%	66.82%
IREDELL COUNTY, NC	\$ 16,159,164	0.38%	67.20%
CHATHAM COUNTY, NC	\$ 13,815,596	0.32%	67.52%
CABARRUS COUNTY, NC	\$ 13,234,143	0.31%	67.83%
RANDOLPH COUNTY, NC	\$ 10,578,570	0.25%	68.08%
JOHNSTON COUNTY, NC	\$ 9,985,190	0.23%	68.32%
PASQUOTANK COUNTY, NC	\$ 9,947,439	0.23%	68.55%
LEE COUNTY, NC	\$ 9,167,346	0.22%	68.77%
BRUNSWICK COUNTY, NC	\$ 7,981,652	0.19%	68.95%
NEW HANOVER COUNTY, NC	\$ 7,981,472	0.19%	69.14%
HENDERSON COUNTY, NC	\$ 7,921,522	0.19%	69.33%
MOORE COUNTY, NC	\$ 5,927,042	0.14%	69.47%
CUMBERLAND COUNTY, NC	\$ 5,526,327	0.13%	69.60%
CATAWBA COUNTY, NC	\$ 5,412,193	0.13%	69.72%
UNION COUNTY, NC	\$ 5,127,933	0.12%	69.84%
WAYNE COUNTY, NC	\$ 4,259,689	0.10%	69.94%
ROWAN COUNTY, NC	\$ 3,640,595	0.09%	70.03%
WATAUGA COUNTY, NC	\$ 3,304,122	0.08%	70.11%
VANCE COUNTY, NC	\$ 3,225,873	0.08%	70.18%
LENOIR COUNTY, NC	\$ 3,044,755	0.07%	70.25%

Table A-4 (cont.)

FRANKLIN COUNTY, NC	\$ 2,219,631	0.05%	70.31%
BLADEN COUNTY, NC	\$ 2,168,259	0.05%	70.36%
HARNETT COUNTY, NC	\$ 2,049,443	0.05%	70.41%
HAYWOOD COUNTY, NC	\$ 2,019,375	0.05%	70.45%
CALDWELL COUNTY, NC	\$ 1,854,309	0.04%	70.50%
PERSON COUNTY, NC	\$ 1,813,611	0.04%	70.54%
DAVIDSON COUNTY, NC	\$ 1,730,806	0.04%	70.58%
WILKES COUNTY, NC	\$ 1,374,328	0.03%	70.61%
SAMPSON COUNTY, NC	\$ 1,293,188	0.03%	70.64%
CRAVEN COUNTY, NC	\$ 1,103,190	0.03%	70.67%
MACON COUNTY, NC	\$ 1,031,743	0.02%	70.69%
JACKSON COUNTY, NC	\$ 1,027,511	0.02%	70.72%
RICHMOND COUNTY, NC	\$ 987,499	0.02%	70.74%
POLK COUNTY, NC	\$ 967,561	0.02%	70.76%
EDGECOMBE COUNTY, NC	\$ 966,859	0.02%	70.79%
ONSLOW COUNTY, NC	\$ 891,046	0.02%	70.81%
NASH COUNTY, NC	\$ 858,288	0.02%	70.83%
CARTERET COUNTY, NC	\$ 848,319	0.02%	70.85%
WILSON COUNTY, NC	\$ 791,433	0.02%	70.87%
STANLY COUNTY, NC	\$ 756,092	0.02%	70.88%
BEAUFORT COUNTY, NC	\$ 754,324	0.02%	70.90%
WARREN COUNTY, NC	\$ 638,985	0.02%	70.92%
RUTHERFORD COUNTY, NC	\$ 637,390	0.01%	70.93%
COLUMBUS COUNTY, NC	\$ 620,432	0.01%	70.95%
MONTGOMERY COUNTY, NC	\$ 582,384	0.01%	70.96%
CLEVELAND COUNTY, NC	\$ 559,582	0.01%	70.97%
MARTIN COUNTY, NC	\$ 542,055	0.01%	70.98%
ASHE COUNTY, NC	\$ 528,662	0.01%	71.00%
YADKIN COUNTY, NC	\$ 439,118	0.01%	71.01%
GASTON COUNTY, NC	\$ 414,875	0.01%	71.02%
ANSON COUNTY, NC	\$ 380,533	0.01%	71.03%
CHEROKEE COUNTY, NC	\$ 326,209	0.01%	71.03%
GRANVILLE COUNTY, NC	\$ 318,703	0.01%	71.04%
SURRY COUNTY, NC	\$ 313,208	0.01%	71.05%
ROCKINGHAM COUNTY, NC	\$ 310,687	0.01%	71.06%
HALIFAX COUNTY, NC	\$ 296,319	0.01%	71.06%
BURKE COUNTY, NC	\$ 277,496	0.01%	71.07%
PENDER COUNTY, NC	\$ 247,436	0.01%	71.08%

Table A-4 (cont.)

DUPLIN COUNTY, NC	\$	247,372	0.01%	71.08%
AVERY COUNTY, NC	\$	218,298	0.01%	71.09%
TRANSYLVANIA COUNTY, NC	\$	199,344	0.00%	71.09%
CHOWAN COUNTY, NC	\$	174,799	0.00%	71.10%
STOKES COUNTY, NC	\$	163,350	0.00%	71.10%
HERTFORD COUNTY, NC	\$	162,904	0.00%	71.10%
DARE COUNTY, NC	\$	161,854	0.00%	71.11%
SCOTLAND COUNTY, NC	\$	140,285	0.00%	71.11%
PERQUIMANS COUNTY, NC	\$	126,640	0.00%	71.11%
WASHINGTON COUNTY, NC	\$	99,991	0.00%	71.12%
SWAIN COUNTY, NC	\$	85,008	0.00%	71.12%
TYRRELL COUNTY, NC	\$	80,000	0.00%	71.12%
DAVIE COUNTY, NC	\$	73,160	0.00%	71.12%
HOKE COUNTY, NC	\$	72,535	0.00%	71.12%
MADISON COUNTY, NC	\$	57,219	0.00%	71.12%
BERTIE COUNTY, NC	\$	17,936	0.00%	71.12%
CASWELL COUNTY, NC	\$	16,200	0.00%	71.12%
GREENE COUNTY, NC	\$	15,500	0.00%	71.13%
PAMLICO COUNTY, NC	\$	14,702	0.00%	71.13%
MITCHELL COUNTY, NC	\$	13,059	0.00%	71.13%
MCDOWELL COUNTY, NC	\$	9,348	0.00%	71.13%
CURRITUCK COUNTY, NC	\$	5,770	0.00%	71.13%
GATES COUNTY, NC	\$	5,161	0.00%	71.13%
KINGS COUNTY, NY	\$	186,533,595	4.38%	75.51%

Table A-5
North Carolina Disparity Study
NC-CC/Univ Prime Good by Counties
(Using Payment Dollars, FY 2014-2018)

County, State	Amount	Percent	Cumulative Percent
PITT COUNTY, NC	\$ 418,502,139	14.99%	14.99%
MECKLENBURG COUNTY, NC	\$ 409,920,710	14.68%	29.67%
WAKE COUNTY, NC	\$ 269,093,636	9.64%	39.31%
DURHAM COUNTY, NC	\$ 209,842,144	7.52%	46.83%
GUILFORD COUNTY, NC	\$ 193,575,664	6.93%	53.76%
ROBESON COUNTY, NC	\$ 76,755,992	2.75%	56.51%
ALAMANCE COUNTY, NC	\$ 75,998,677	2.72%	59.23%
WATAUGA COUNTY, NC	\$ 58,819,086	2.11%	61.34%
ORANGE COUNTY, NC	\$ 48,260,841	1.73%	63.07%
FORSYTH COUNTY, NC	\$ 44,008,843	1.58%	64.64%
CABARRUS COUNTY, NC	\$ 30,778,720	1.10%	65.75%
LENOIR COUNTY, NC	\$ 27,464,900	0.98%	66.73%
NEW HANOVER COUNTY, NC	\$ 21,361,511	0.77%	67.50%
MOORE COUNTY, NC	\$ 20,363,244	0.73%	68.23%
PERSON COUNTY, NC	\$ 12,601,060	0.45%	68.68%
NASH COUNTY, NC	\$ 11,959,021	0.43%	69.10%
BUNCOMBE COUNTY, NC	\$ 9,897,241	0.35%	69.46%
CATAWBA COUNTY, NC	\$ 9,042,389	0.32%	69.78%
STANLY COUNTY, NC	\$ 8,222,572	0.29%	70.08%
SURRY COUNTY, NC	\$ 7,449,184	0.27%	70.34%
HARNETT COUNTY, NC	\$ 6,863,701	0.25%	70.59%
CUMBERLAND COUNTY, NC	\$ 4,318,223	0.15%	70.75%
UNION COUNTY, NC	\$ 4,155,872	0.15%	70.89%
DAVIDSON COUNTY, NC	\$ 3,956,670	0.14%	71.04%
MONTGOMERY COUNTY, NC	\$ 2,501,922	0.09%	71.13%
STOKES COUNTY, NC	\$ 2,386,617	0.09%	71.21%
WILSON COUNTY, NC	\$ 2,223,476	0.08%	71.29%
ASHE COUNTY, NC	\$ 2,108,214	0.08%	71.37%
SAMPSON COUNTY, NC	\$ 2,047,345	0.07%	71.44%
RANDOLPH COUNTY, NC	\$ 2,027,069	0.07%	71.51%

Table A-5 (cont.)

CRAVEN COUNTY, NC	\$ 1,800,290	0.06%	71.58%
ROWAN COUNTY, NC	\$ 1,680,277	0.06%	71.64%
JOHNSTON COUNTY, NC	\$ 1,377,786	0.05%	71.69%
WAYNE COUNTY, NC	\$ 1,249,448	0.04%	71.73%
CHATHAM COUNTY, NC	\$ 1,230,540	0.04%	71.77%
IREDELL COUNTY, NC	\$ 1,173,278	0.04%	71.82%
PASQUOTANK COUNTY, NC	\$ 1,078,117	0.04%	71.86%
LINCOLN COUNTY, NC	\$ 1,041,961	0.04%	71.89%
LEE COUNTY, NC	\$ 941,893	0.03%	71.93%
ROCKINGHAM COUNTY, NC	\$ 861,912	0.03%	71.96%
CLEVELAND COUNTY, NC	\$ 743,087	0.03%	71.98%
GASTON COUNTY, NC	\$ 707,904	0.03%	72.01%
DARE COUNTY, NC	\$ 650,206	0.02%	72.03%
BRUNSWICK COUNTY, NC	\$ 611,271	0.02%	72.05%
HENDERSON COUNTY, NC	\$ 587,445	0.02%	72.08%
ONCLOW COUNTY, NC	\$ 580,429	0.02%	72.10%
JACKSON COUNTY, NC	\$ 451,805	0.02%	72.11%
WILKES COUNTY, NC	\$ 367,452	0.01%	72.13%
SWAIN COUNTY, NC	\$ 349,868	0.01%	72.14%
COLUMBUS COUNTY, NC	\$ 335,545	0.01%	72.15%
HAYWOOD COUNTY, NC	\$ 321,806	0.01%	72.16%
CALDWELL COUNTY, NC	\$ 293,414	0.01%	72.17%
BEAUFORT COUNTY, NC	\$ 226,867	0.01%	72.18%
MCDOWELL COUNTY, NC	\$ 209,502	0.01%	72.19%
EDGECOMBE COUNTY, NC	\$ 206,075	0.01%	72.20%
BURKE COUNTY, NC	\$ 202,487	0.01%	72.20%
CHEROKEE COUNTY, NC	\$ 193,708	0.01%	72.21%
RUTHERFORD COUNTY, NC	\$ 181,159	0.01%	72.22%
BLADEN COUNTY, NC	\$ 177,076	0.01%	72.22%
YADKIN COUNTY, NC	\$ 175,547	0.01%	72.23%
FRANKLIN COUNTY, NC	\$ 168,648	0.01%	72.23%
PERQUIMANS COUNTY, NC	\$ 164,439	0.01%	72.24%
MARTIN COUNTY, NC	\$ 160,809	0.01%	72.25%
NORTHAMPTON COUNTY, NC	\$ 156,241	0.01%	72.25%
MACON COUNTY, NC	\$ 153,097	0.01%	72.26%
VANCE COUNTY, NC	\$ 150,054	0.01%	72.26%
CARTERET COUNTY, NC	\$ 119,520	0.00%	72.27%
GRANVILLE COUNTY, NC	\$ 118,130	0.00%	72.27%

Table A-5 (cont.)

AVERY COUNTY, NC	\$ 116,172	0.00%	72.28%
HALIFAX COUNTY, NC	\$ 105,814	0.00%	72.28%
DUPLIN COUNTY, NC	\$ 99,218	0.00%	72.28%
CURRITUCK COUNTY, NC	\$ 93,346	0.00%	72.29%
HERTFORD COUNTY, NC	\$ 79,456	0.00%	72.29%
WASHINGTON COUNTY, NC	\$ 71,618	0.00%	72.29%
PENDER COUNTY, NC	\$ 60,493	0.00%	72.29%
BERTIE COUNTY, NC	\$ 50,536	0.00%	72.30%
RICHMOND COUNTY, NC	\$ 44,194	0.00%	72.30%
YANCEY COUNTY, NC	\$ 37,370	0.00%	72.30%
DAVIE COUNTY, NC	\$ 36,060	0.00%	72.30%
TRANSYLVANIA COUNTY, NC	\$ 30,842	0.00%	72.30%
ALEXANDER COUNTY, NC	\$ 23,925	0.00%	72.30%
MITCHELL COUNTY, NC	\$ 20,000	0.00%	72.30%
CHOWAN COUNTY, NC	\$ 17,471	0.00%	72.30%
TYRRELL COUNTY, NC	\$ 15,600	0.00%	72.30%
WARREN COUNTY, NC	\$ 14,861	0.00%	72.30%
MADISON COUNTY, NC	\$ 9,592	0.00%	72.30%
GREENE COUNTY, NC	\$ 8,025	0.00%	72.30%
SCOTLAND COUNTY, NC	\$ 6,186	0.00%	72.31%
POLK COUNTY, NC	\$ 5,330	0.00%	72.31%
GRAHAM COUNTY, NC	\$ 5,328	0.00%	72.31%

APPENDIX B
DETAILED AVAILABILITY ANALYSIS

Appendix B – NC-CC/Univ Detailed Availability

The tables in Appendix B (Tables B-1 through B-5) present detailed MWBE availability corresponding to the availability percentages in Figures 1-5 in the NC-CC/Univ Quantitative Analysis chapter. The availability methodology for creating the Master Vendor table for these availability tables is contained in the Quantitative Analysis chapter.

Table B-1

Availability of Firms by Business Ownership in Market Area

Construction

North Carolina Colleges & Universities Disparity Study

Business Ownership Classification	Number of Firms	Percent of Firms
Black American	522	14.65%
Asian American	40	1.12%
Hispanic American	156	4.38%
American Indian	85	2.39%
TOTAL MBE	803	22.54%
Nonminority Female	486	13.64%
TOTAL M/WBE	1,289	36.19%
NON-M/WBE	2,273	63.81%
TOTAL FIRMS	3,562	100.00%

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Table B-2

Availability of Firms by Business Ownership in Market Area

Architecture & Engineering

North Carolina Colleges & Universities Disparity Study

Business Ownership Classification	Number of Firms	Percent of Firms
Black American	53	6.41%
Asian American	20	2.42%
Hispanic American	20	2.42%
American Indian	10	1.21%
TOTAL MBE	103	12.45%
Nonminority Female	87	10.52%
TOTAL M/WBE	190	22.97%
NON-M/WDBE	637	77.03%
TOTAL FIRMS	827	100.00%

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Table B-3

Availability of Firms by Business Ownership in Market Area

Professional Services

North Carolina Colleges & Universities Disparity Study

Business Ownership Classification	Number of Firms	Percent of Firms
Black American	322	18.42%
Asian American	50	2.86%
Hispanic American	35	2.00%
American Indian	26	1.49%
TOTAL MBE	433	24.77%
Nonminority Female	167	9.55%
TOTAL M/WBE	600	34.32%
NON-M/WDBE	1,148	65.68%
TOTAL FIRMS	1,748	100.00%

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Table B-4

Availability of Firms by Business Ownership in Market Area

Prime Data, Other Services

North Carolina Colleges & Universities Disparity Study

Business Ownership Classification	Number of Firms	Percent of Firms
Black American	878	15.86%
Asian American	72	1.30%
Hispanic American	95	1.72%
American Indian	38	0.69%
TOTAL MBE	1,083	19.57%
Nonminority Female	501	9.05%
TOTAL M/WBE	1,584	28.62%
NON-M/WDBE	3,951	71.38%
TOTAL FIRMS	5,535	100.00%

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Table B-5

Availability of Firms by Business Ownership in Market Area

Prime Data, Goods

North Carolina Colleges & Universities Disparity Study

Business Ownership Classification	Number of Firms	Percent of Firms
Black American	254	8.18%
Asian American	34	1.09%
Hispanic American	53	1.71%
American Indian	21	0.68%
TOTAL MBE	362	11.65%
Nonminority Female	288	9.27%
TOTAL M/WBE	650	20.93%
NON-M/WDBE	2,456	79.07%
TOTAL FIRMS	3,106	100.00%

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APPENDIX C
DETAILED DISPARITY INDICES BY YEAR

Appendix C – NC CC/Univ Detailed Disparity Indices

The tables in Appendix C (Tables C-1 through C-10) presents disparity ratios on North Carolina projects by year over the Study Period. The only overutilization was for Asian Americans in Prime Goods (Table C-5) and in Total Utilization (prime plus subcontractor) for Goods (Table C-10).

Table C-1
Disparity Results, Relevant Market Area
Business Ownership Classification by Fiscal Year, Prime Construction
Using Payment Dollars, FY 2014-2018
North Carolina Colleges & Universities Disparity Study

Fiscal Year	Business Ownership	Percent of Dollars	Percent of Available Firms	Disparity Index	Disparate Impact of Utilization	Less than 80%	Statistical Significance
2014	Black American	0.81%	14.65%	5.56	Underutilization	*	
	Asian American	0.01%	1.12%	1.00	Underutilization	*	
	Hispanic American	0.22%	4.38%	4.94	Underutilization	*	
	American Indian	1.79%	2.39%	74.89	Underutilization	*	
	TOTAL MBE	2.83%	22.54%	12.55	Underutilization	*	
	Nonminority Female	3.17%	13.64%	23.23	Underutilization	*	
	TOTAL M/WBE	6.00%	36.19%	16.58	Underutilization	*	
	Non-M/WBE	94.00%	63.81%	147.31	Overutilization		
2015	Black American	1.48%	14.65%	10.11	Underutilization	*	
	Asian American	0.02%	1.12%	1.87	Underutilization	*	
	Hispanic American	0.04%	4.38%	0.97	Underutilization	*	
	American Indian	0.95%	2.39%	39.61	Underutilization	*	
	TOTAL MBE	2.49%	22.54%	11.05	Underutilization	*	
	Nonminority Female	3.01%	13.64%	22.09	Underutilization	*	
	TOTAL M/WBE	5.50%	36.19%	15.21	Underutilization	*	
	Non-M/WBE	94.50%	63.81%	148.08	Overutilization		
2016	Black American	1.66%	14.65%	11.35	Underutilization	*	
	Asian American	0.01%	1.12%	1.18	Underutilization	*	
	Hispanic American	0.22%	4.38%	5.10	Underutilization	*	
	American Indian	0.69%	2.39%	28.97	Underutilization	*	
	TOTAL MBE	2.59%	22.54%	11.50	Underutilization	*	
	Nonminority Female	12.94%	13.64%	94.82	Underutilization		
	TOTAL M/WBE	15.53%	36.19%	42.91	Underutilization	*	
	Non-M/WBE	84.47%	63.81%	132.37	Overutilization		
2017	Black American	0.56%	14.65%	3.81	Underutilization	*	
	Asian American	0.01%	1.12%	1.32	Underutilization	*	
	Hispanic American	0.10%	4.38%	2.22	Underutilization	*	
	American Indian	0.24%	2.39%	10.13	Underutilization	*	
	TOTAL MBE	0.91%	22.54%	4.05	Underutilization	*	
	Nonminority Female	13.01%	13.64%	95.36	Underutilization		
	TOTAL M/WBE	13.92%	36.19%	38.48	Underutilization	*	
	Non-M/WBE	86.08%	63.81%	134.89	Overutilization		
2018	Black American	1.25%	14.65%	8.56	Underutilization	*	
	Asian American	0.01%	1.12%	0.71	Underutilization	*	
	Hispanic American	0.08%	4.38%	1.83	Underutilization	*	
	American Indian	0.15%	2.39%	6.38	Underutilization	*	
	TOTAL MBE	1.50%	22.54%	6.63	Underutilization	*	
	Nonminority Female	4.85%	13.64%	35.54	Underutilization	*	
	TOTAL M/WBE	6.34%	36.19%	17.53	Underutilization	*	
	Non-M/WBE	93.66%	63.81%	146.77	Overutilization		
Total	Black American	1.11%	14.65%	7.57	Underutilization	*	p <.05
	Asian American	0.01%	1.12%	1.25	Underutilization	*	p <.05
	Hispanic American	0.13%	4.38%	2.97	Underutilization	*	p <.05
	American Indian	0.74%	2.39%	31.02	Underutilization	*	p <.05
	TOTAL MBE	1.99%	22.54%	8.84	Underutilization	*	p <.05
	Nonminority Female	7.97%	13.64%	58.44	Underutilization	*	p <.05
	TOTAL M/WBE	9.97%	36.19%	27.54	Underutilization	*	p <.05
	Non-M/WBE	90.03%	63.81%	141.09	Overutilization		

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Table C-2
Disparity Results, Relevant Market Area
Business Ownership Classification by Fiscal Year, Prime Architecture & Engineering
Using Payment Dollars, FY 2014-2018
North Carolina Colleges & Universities Disparity Study

Fiscal Year	Business Ownership	Percent of Dollars	Percent of Available Firms	Disparity Index	Disparate Impact of Utilization	Less than 80%	Statistical Significance
2014	Black American	3.63%	6.41%	56.71	Underutilization	*	
	Asian American	0.42%	2.42%	17.51	Underutilization	*	
	Hispanic American	0.15%	2.42%	6.34	Underutilization	*	
	American Indian	0.01%	1.21%	0.72	Underutilization	*	
	TOTAL MBE	4.22%	12.45%	33.88	Underutilization	*	
	Nonminority Female	3.15%	10.52%	29.95	Underutilization	*	
	TOTAL M/WBE	7.37%	22.97%	32.08	Underutilization	*	
	Non-M/WBE	92.63%	77.03%	120.26	Overutilization		
2015	Black American	2.34%	6.41%	36.51	Underutilization	*	
	Asian American	0.53%	2.42%	21.94	Underutilization	*	
	Hispanic American	0.46%	2.42%	19.15	Underutilization	*	
	American Indian	0.00%	1.21%	0.00	Underutilization	*	
	TOTAL MBE	3.33%	12.45%	26.76	Underutilization	*	
	Nonminority Female	4.48%	10.52%	42.54	Underutilization	*	
	TOTAL M/WBE	7.81%	22.97%	33.99	Underutilization	*	
	Non-M/WBE	92.19%	77.03%	119.69	Overutilization		
2016	Black American	1.22%	6.41%	19.08	Underutilization	*	
	Asian American	0.23%	2.42%	9.68	Underutilization	*	
	Hispanic American	0.36%	2.42%	15.00	Underutilization	*	
	American Indian	0.01%	1.21%	0.45	Underutilization	*	
	TOTAL MBE	1.83%	12.45%	14.65	Underutilization	*	
	Nonminority Female	2.07%	10.52%	19.63	Underutilization	*	
	TOTAL M/WBE	3.89%	22.97%	16.93	Underutilization	*	
	Non-M/WBE	96.11%	77.03%	124.78	Overutilization		
2017	Black American	1.06%	6.41%	16.56	Underutilization	*	
	Asian American	0.65%	2.42%	26.83	Underutilization	*	
	Hispanic American	0.33%	2.42%	13.63	Underutilization	*	
	American Indian	0.02%	1.21%	1.42	Underutilization	*	
	TOTAL MBE	2.06%	12.45%	16.52	Underutilization	*	
	Nonminority Female	3.49%	10.52%	33.20	Underutilization	*	
	TOTAL M/WBE	5.55%	22.97%	24.16	Underutilization	*	
	Non-M/WBE	94.45%	77.03%	122.62	Overutilization		
2018	Black American	0.77%	6.41%	11.96	Underutilization	*	
	Asian American	0.23%	2.42%	9.67	Underutilization	*	
	Hispanic American	0.14%	2.42%	5.62	Underutilization	*	
	American Indian	0.01%	1.21%	0.58	Underutilization	*	
	TOTAL MBE	1.14%	12.45%	9.18	Underutilization	*	
	Nonminority Female	2.40%	10.52%	22.78	Underutilization	*	
	TOTAL M/WBE	3.54%	22.97%	15.40	Underutilization	*	
	Non-M/WBE	96.46%	77.03%	125.23	Overutilization		
Total	Black American	1.70%	6.41%	26.59	Underutilization	*	p < .05
	Asian American	0.41%	2.42%	16.88	Underutilization	*	p < .05
	Hispanic American	0.29%	2.42%	12.19	Underutilization	*	p < .05
	American Indian	0.01%	1.21%	0.66	Underutilization	*	p < .05
	TOTAL MBE	2.41%	12.45%	19.39	Underutilization	*	p < .05
	Nonminority Female	3.04%	10.52%	28.91	Underutilization	*	p < .05
	TOTAL M/WBE	5.46%	22.97%	23.75	Underutilization	*	p < .05
	Non-M/WBE	94.54%	77.03%	122.74	Overutilization		

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Table C-3
Disparity Results, Relevant Market Area
Business Ownership Classification by Fiscal Year, Prime Professional Services
Using Payment Dollars, FY 2014-2018
North Carolina Colleges & Universities Disparity Study

Fiscal Year	Business Ownership	Percent of Dollars	Percent of Available Firms	Disparity Index	Disparate Impact of Utilization	Less than 80%	Statistical Significance
2014	Black American	0.33%	18.42%	1.77	Underutilization	*	
	Asian American	0.01%	2.86%	0.20	Underutilization	*	
	Hispanic American	0.00%	2.00%	0.00	Underutilization	*	
	American Indian	0.00%	1.49%	0.00	Underutilization	*	
	TOTAL MBE	0.33%	24.77%	1.34	Underutilization	*	
	Nonminority Female	0.15%	9.55%	1.62	Underutilization	*	
	TOTAL M/WBE	0.49%	34.32%	1.41	Underutilization	*	
	Non-M/WBE	99.51%	65.68%	151.53	Overutilization		
2015	Black American	0.15%	18.42%	0.82	Underutilization	*	
	Asian American	0.07%	2.86%	2.55	Underutilization	*	
	Hispanic American	0.00%	2.00%	0.00	Underutilization	*	
	American Indian	0.00%	1.49%	0.00	Underutilization	*	
	TOTAL MBE	0.22%	24.77%	0.91	Underutilization	*	
	Nonminority Female	0.20%	9.55%	2.08	Underutilization	*	
	TOTAL M/WBE	0.42%	34.32%	1.23	Underutilization	*	
	Non-M/WBE	99.58%	65.68%	151.62	Overutilization		
2016	Black American	0.26%	18.42%	1.41	Underutilization	*	
	Asian American	0.02%	2.86%	0.68	Underutilization	*	
	Hispanic American	0.00%	2.00%	0.00	Underutilization	*	
	American Indian	0.00%	1.49%	0.00	Underutilization	*	
	TOTAL MBE	0.28%	24.77%	1.13	Underutilization	*	
	Nonminority Female	0.31%	9.55%	3.27	Underutilization	*	
	TOTAL M/WBE	0.59%	34.32%	1.73	Underutilization	*	
	Non-M/WBE	99.41%	65.68%	151.36	Overutilization		
2017	Black American	0.44%	18.42%	2.38	Underutilization	*	
	Asian American	0.00%	2.86%	0.00	Underutilization	*	
	Hispanic American	0.00%	2.00%	0.00	Underutilization	*	
	American Indian	0.00%	1.49%	0.00	Underutilization	*	
	TOTAL MBE	0.44%	24.77%	1.77	Underutilization	*	
	Nonminority Female	0.17%	9.55%	1.73	Underutilization	*	
	TOTAL M/WBE	0.60%	34.32%	1.76	Underutilization	*	
	Non-M/WBE	99.40%	65.68%	151.35	Overutilization		
2018	Black American	0.33%	18.42%	1.78	Underutilization	*	
	Asian American	0.05%	2.86%	1.65	Underutilization	*	
	Hispanic American	0.00%	2.00%	0.00	Underutilization	*	
	American Indian	0.00%	1.49%	0.00	Underutilization	*	
	TOTAL MBE	0.37%	24.77%	1.51	Underutilization	*	
	Nonminority Female	0.55%	9.55%	5.77	Underutilization	*	
	TOTAL M/WBE	0.93%	34.32%	2.70	Underutilization	*	
	Non-M/WBE	99.07%	65.68%	150.86	Overutilization		
Total	Black American	0.28%	18.42%	1.54	Underutilization	*	p < .05
	Asian American	0.03%	2.86%	1.10	Underutilization	*	p < .05
	Hispanic American	0.00%	2.00%	0.00	Underutilization	*	p < .05
	American Indian	0.00%	1.49%	0.00	Underutilization	*	p < .05
	TOTAL MBE	0.32%	24.77%	1.27	Underutilization	*	p < .05
	Nonminority Female	0.25%	9.55%	2.66	Underutilization	*	p < .05
	TOTAL M/WBE	0.57%	34.32%	1.66	Underutilization	*	p < .05
	Non-M/WBE	99.43%	65.68%	151.40	Overutilization		

Griffin & Strong, P.C. 2020

Table C-4
Disparity Results, Relevant Market Area
Business Ownership Classification by Fiscal Year, Prime Other Services
Using Payment Dollars, FY 2014-2018
North Carolina Colleges & Universities Disparity Study

Fiscal Year	Business Ownership	Percent of Dollars	Percent of Available Firms	Disparity Index	Disparate Impact of Utilization	Less than 80%	Statistical Significance
2014	Black American	0.09%	15.86%	0.55	Underutilization	*	
	Asian American	0.14%	1.30%	10.70	Underutilization	*	
	Hispanic American	0.00%	1.72%	0.12	Underutilization	*	
	American Indian	0.12%	0.69%	17.14	Underutilization	*	
	TOTAL MBE	0.35%	19.57%	1.77	Underutilization	*	
	Nonminority Female	2.62%	9.05%	28.93	Underutilization	*	
	TOTAL M/WBE	2.96%	28.62%	10.36	Underutilization	*	
	Non-M/WBE	97.04%	71.38%	135.94	Overutilization		
2015	Black American	0.09%	15.86%	0.55	Underutilization	*	
	Asian American	0.13%	1.30%	10.30	Underutilization	*	
	Hispanic American	0.01%	1.72%	0.75	Underutilization	*	
	American Indian	0.06%	0.69%	8.92	Underutilization	*	
	TOTAL MBE	0.30%	19.57%	1.51	Underutilization	*	
	Nonminority Female	0.77%	9.05%	8.51	Underutilization	*	
	TOTAL M/WBE	1.07%	28.62%	3.72	Underutilization	*	
	Non-M/WBE	98.93%	71.38%	138.60	Overutilization		
2016	Black American	0.03%	15.86%	0.20	Underutilization	*	
	Asian American	0.02%	1.30%	1.39	Underutilization	*	
	Hispanic American	0.01%	1.72%	0.65	Underutilization	*	
	American Indian	0.05%	0.69%	7.50	Underutilization	*	
	TOTAL MBE	0.11%	19.57%	0.57	Underutilization	*	
	Nonminority Female	0.90%	9.05%	9.95	Underutilization	*	
	TOTAL M/WBE	1.01%	28.62%	3.54	Underutilization	*	
	Non-M/WBE	98.99%	71.38%	138.67	Overutilization		
2017	Black American	0.11%	15.86%	0.72	Underutilization	*	
	Asian American	0.10%	1.30%	7.71	Underutilization	*	
	Hispanic American	0.02%	1.72%	1.35	Underutilization	*	
	American Indian	0.06%	0.69%	8.46	Underutilization	*	
	TOTAL MBE	0.30%	19.57%	1.51	Underutilization	*	
	Nonminority Female	0.93%	9.05%	10.24	Underutilization	*	
	TOTAL M/WBE	1.22%	28.62%	4.27	Underutilization	*	
	Non-M/WBE	98.78%	71.38%	138.38	Overutilization		
2018	Black American	0.27%	15.86%	1.68	Underutilization	*	
	Asian American	0.03%	1.30%	2.66	Underutilization	*	
	Hispanic American	0.01%	1.72%	0.52	Underutilization	*	
	American Indian	0.08%	0.69%	11.35	Underutilization	*	
	TOTAL MBE	0.39%	19.57%	1.98	Underutilization	*	
	Nonminority Female	1.79%	9.05%	19.77	Underutilization	*	
	TOTAL M/WBE	2.18%	28.62%	7.61	Underutilization	*	
	Non-M/WBE	97.82%	71.38%	137.04	Overutilization		
Total	Black American	0.10%	15.86%	0.62	Underutilization	*	p < .05
	Asian American	0.09%	1.30%	6.67	Underutilization	*	p < .05
	Hispanic American	0.01%	1.72%	0.70	Underutilization	*	p < .05
	American Indian	0.07%	0.69%	10.32	Underutilization	*	p < .05
	TOTAL MBE	0.27%	19.57%	1.37	Underutilization	*	p < .05
	Nonminority Female	1.31%	9.05%	14.45	Underutilization	*	p < .05
	TOTAL M/WBE	1.58%	28.62%	5.51	Underutilization	*	p < .05
	Non-M/WBE	98.42%	71.38%	137.88	Overutilization		

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Table C-5
Disparity Results, Relevant Market Area
Business Ownership Classification by Fiscal Year, Prime Goods
Using Payment Dollars, FY 2014-2018
North Carolina Colleges & Universities Disparity Study

Fiscal Year	Business Ownership	Percent of Dollars	Percent of Available Firms	Disparity Index	Disparate Impact of Utilization	Less than 80%	Statistical Significance
2014	Black American	1.25%	8.18%	15.28	Underutilization	*	
	Asian American	2.31%	1.09%	211.22	Overutilization		
	Hispanic American	0.20%	1.71%	11.72	Underutilization	*	
	American Indian	0.00%	0.68%	0.00	Underutilization	*	
	TOTAL MBE	3.76%	11.65%	32.27	Underutilization	*	
	Nonminority Female	3.77%	9.27%	40.62	Underutilization	*	
	TOTAL M/WBE	7.53%	20.93%	35.97	Underutilization	*	
Non-M/WBE	92.47%	79.07%	116.95	Overutilization			
2015	Black American	6.99%	8.18%	85.49	Underutilization		
	Asian American	2.99%	1.09%	273.28	Overutilization		
	Hispanic American	0.16%	1.71%	9.47	Underutilization	*	
	American Indian	0.00%	0.68%	0.00	Underutilization	*	
	TOTAL MBE	10.14%	11.65%	87.04	Underutilization		
	Nonminority Female	3.79%	9.27%	40.88	Underutilization	*	
	TOTAL M/WBE	13.94%	20.93%	66.59	Underutilization	*	
Non-M/WBE	86.06%	79.07%	108.84	Overutilization			
2016	Black American	2.80%	8.18%	34.22	Underutilization	*	
	Asian American	2.91%	1.09%	266.13	Overutilization		
	Hispanic American	0.17%	1.71%	9.95	Underutilization	*	
	American Indian	0.00%	0.68%	0.45	Underutilization	*	
	TOTAL MBE	5.88%	11.65%	50.49	Underutilization	*	
	Nonminority Female	2.02%	9.27%	21.82	Underutilization	*	
	TOTAL M/WBE	7.91%	20.93%	37.79	Underutilization	*	
Non-M/WBE	92.09%	79.07%	116.46	Overutilization			
2017	Black American	3.52%	8.18%	43.07	Underutilization	*	
	Asian American	2.93%	1.09%	267.60	Overutilization		
	Hispanic American	0.30%	1.71%	17.30	Underutilization	*	
	American Indian	0.00%	0.68%	0.00	Underutilization	*	
	TOTAL MBE	6.75%	11.65%	57.89	Underutilization	*	
	Nonminority Female	3.73%	9.27%	40.23	Underutilization	*	
	TOTAL M/WBE	10.48%	20.93%	50.07	Underutilization	*	
Non-M/WBE	89.52%	79.07%	113.22	Overutilization			
2018	Black American	0.05%	8.18%	0.65	Underutilization	*	
	Asian American	0.41%	1.09%	37.08	Underutilization	*	
	Hispanic American	0.40%	1.71%	23.36	Underutilization	*	
	American Indian	0.00%	0.68%	0.00	Underutilization	*	
	TOTAL MBE	0.86%	11.65%	7.36	Underutilization	*	
	Nonminority Female	3.07%	9.27%	33.15	Underutilization	*	
	TOTAL M/WBE	3.93%	20.93%	18.79	Underutilization	*	
Non-M/WBE	96.07%	79.07%	121.49	Overutilization			
Total	Black American	3.14%	8.18%	38.43	Underutilization	*	p < .05
	Asian American	2.41%	1.09%	220.45	Overutilization		
	Hispanic American	0.23%	1.71%	13.75	Underutilization	*	p < .05
	American Indian	0.00%	0.68%	0.11	Underutilization	*	p < .05
	TOTAL MBE	5.79%	11.65%	49.69	Underutilization	*	p < .05
	Nonminority Female	3.23%	9.27%	34.87	Underutilization	*	p < .05
	TOTAL M/WBE	9.03%	20.93%	43.13	Underutilization	*	p < .05
Non-M/WBE	90.97%	79.07%	115.05	Overutilization			

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Table C-6
Disparity Results, Relevant Market Area
Business Ownership Classification by Fiscal Year, Total Utilization Construction
Using Payment Dollars, FY 2014-2018
North Carolina Colleges & Universities Disparity Study

Fiscal Year	Business Ownership	Percent of Dollars	Percent of Available Firms	Disparity Index	Disparate Impact of Utilization	Less than 80%	Statistical Significance
2014	Black American	0.95%	14.65%	6.49	Underutilization	*	
	Asian American	0.01%	1.12%	1.00	Underutilization	*	
	Hispanic American	0.41%	4.38%	9.31	Underutilization	*	
	Native American	1.79%	2.39%	75.07	Underutilization	*	
	TOTAL MBE	3.16%	22.54%	14.03	Underutilization	*	
	Nonminority Female	3.29%	13.64%	24.08	Underutilization	*	
	TOTAL M/WBE	6.45%	36.19%	17.82	Underutilization	*	
	Non-M/WBE	93.55%	63.81%	146.61	Overutilization		
2015	Black American	1.48%	14.65%	10.11	Underutilization	*	
	Asian American	0.02%	1.12%	1.87	Underutilization	*	
	Hispanic American	0.04%	4.38%	0.97	Underutilization	*	
	Native American	0.95%	2.39%	39.61	Underutilization	*	
	TOTAL MBE	2.49%	22.54%	11.05	Underutilization	*	
	Nonminority Female	3.01%	13.64%	22.09	Underutilization	*	
	TOTAL M/WBE	5.50%	36.19%	15.21	Underutilization	*	
	Non-M/WBE	94.50%	63.81%	148.08	Overutilization		
2016	Black American	2.05%	14.65%	13.97	Underutilization	*	
	Asian American	0.07%	1.12%	5.83	Underutilization	*	
	Hispanic American	0.43%	4.38%	9.78	Underutilization	*	
	Native American	0.77%	2.39%	32.15	Underutilization	*	
	TOTAL MBE	3.31%	22.54%	14.68	Underutilization	*	
	Nonminority Female	14.98%	13.64%	109.82	Overutilization		
	TOTAL M/WBE	18.29%	36.19%	50.55	Underutilization	*	
	Non-M/WBE	81.71%	63.81%	128.04	Overutilization		
2017	Black American	1.01%	14.65%	6.87	Underutilization	*	
	Asian American	0.02%	1.12%	1.46	Underutilization	*	
	Hispanic American	0.34%	4.38%	7.78	Underutilization	*	
	Native American	0.37%	2.39%	15.68	Underutilization	*	
	TOTAL MBE	1.74%	22.54%	7.71	Underutilization	*	
	Nonminority Female	14.92%	13.64%	109.38	Overutilization		
	TOTAL M/WBE	16.66%	36.19%	46.04	Underutilization	*	
	Non-M/WBE	83.34%	63.81%	130.60	Overutilization		
2018	Black American	2.64%	14.65%	18.03	Underutilization	*	
	Asian American	0.23%	1.12%	20.66	Underutilization	*	
	Hispanic American	1.37%	4.38%	31.23	Underutilization	*	
	Native American	0.23%	2.39%	9.65	Underutilization	*	
	TOTAL MBE	4.47%	22.54%	19.84	Underutilization	*	
	Nonminority Female	9.81%	13.64%	71.94	Underutilization	*	
	TOTAL M/WBE	14.29%	36.19%	39.48	Underutilization	*	
	Non-M/WBE	85.71%	63.81%	134.32	Overutilization		
Total	Black American	1.54%	14.65%	10.49	Underutilization	*	p <.05
	Asian American	0.06%	1.12%	5.16	Underutilization	*	p <.05
	Hispanic American	0.46%	4.38%	10.57	Underutilization	*	p <.05
	Native American	0.80%	2.39%	33.68	Underutilization	*	p <.05
	TOTAL MBE	2.86%	22.54%	12.69	Underutilization	*	p <.05
	Nonminority Female	9.65%	13.64%	70.75	Underutilization	*	p <.05
	TOTAL M/WBE	12.51%	36.19%	34.58	Underutilization	*	p <.05
	Non-M/WBE	87.49%	63.81%	137.10	Overutilization		

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Table C-7
Disparity Results, Relevant Market Area
Business Ownership Classification by Fiscal Year, Total Utilization A&E
Using Payment Dollars, FY 2014-2018
North Carolina Colleges & Universities Disparity Study

Fiscal Year	Business Ownership	Percent of Dollars	Percent of Available Firms	Disparity Index	Disparate Impact of Utilization	Less than 80%	Statistical Significance
2014	Black American	3.63%	6.41%	56.71	Underutilization	*	
	Asian American	0.42%	2.42%	17.51	Underutilization	*	
	Hispanic American	0.15%	2.42%	6.34	Underutilization	*	
	Native American	0.01%	1.21%	0.72	Underutilization	*	
	TOTAL MBE	4.22%	12.45%	33.88	Underutilization	*	
	Nonminority Female	3.15%	10.52%	29.95	Underutilization	*	
	TOTAL M/WBE	7.37%	22.97%	32.08	Underutilization	*	
	Non-M/WBE	92.63%	77.03%	120.26	Overutilization		
2015	Black American	2.34%	6.41%	36.51	Underutilization	*	
	Asian American	0.53%	2.42%	21.94	Underutilization	*	
	Hispanic American	0.46%	2.42%	19.15	Underutilization	*	
	Native American	0.00%	1.21%	0.00	Underutilization	*	
	TOTAL MBE	3.33%	12.45%	26.76	Underutilization	*	
	Nonminority Female	4.48%	10.52%	42.54	Underutilization	*	
	TOTAL M/WBE	7.81%	22.97%	33.99	Underutilization	*	
	Non-M/WBE	92.19%	77.03%	119.69	Overutilization		
2016	Black American	1.22%	6.41%	19.08	Underutilization	*	
	Asian American	0.23%	2.42%	9.68	Underutilization	*	
	Hispanic American	0.36%	2.42%	15.00	Underutilization	*	
	Native American	0.01%	1.21%	0.45	Underutilization	*	
	TOTAL MBE	1.83%	12.45%	14.65	Underutilization	*	
	Nonminority Female	2.07%	10.52%	19.63	Underutilization	*	
	TOTAL M/WBE	3.89%	22.97%	16.93	Underutilization	*	
	Non-M/WBE	96.11%	77.03%	124.78	Overutilization		
2017	Black American	1.44%	6.41%	22.41	Underutilization	*	
	Asian American	0.81%	2.42%	33.65	Underutilization	*	
	Hispanic American	2.06%	2.42%	85.00	Underutilization	*	
	Native American	0.08%	1.21%	6.39	Underutilization	*	
	TOTAL MBE	4.38%	12.45%	35.19	Underutilization	*	
	Nonminority Female	4.82%	10.52%	45.85	Underutilization	*	
	TOTAL M/WBE	9.21%	22.97%	40.07	Underutilization	*	
	Non-M/WBE	90.79%	77.03%	117.88	Overutilization		
2018	Black American	0.77%	6.41%	11.96	Underutilization	*	
	Asian American	0.23%	2.42%	9.67	Underutilization	*	
	Hispanic American	0.14%	2.42%	5.62	Underutilization	*	
	Native American	0.01%	1.21%	0.58	Underutilization	*	
	TOTAL MBE	1.14%	12.45%	9.18	Underutilization	*	
	Nonminority Female	2.40%	10.52%	22.78	Underutilization	*	
	TOTAL M/WBE	3.54%	22.97%	15.40	Underutilization	*	
	Non-M/WBE	96.46%	77.03%	125.23	Overutilization		
Total	Black American	1.79%	6.41%	27.87	Underutilization	*	p < .05
	Asian American	0.44%	2.42%	18.37	Underutilization	*	p < .05
	Hispanic American	0.67%	2.42%	27.83	Underutilization	*	p < .05
	Native American	0.02%	1.21%	1.74	Underutilization	*	p < .05
	TOTAL MBE	2.92%	12.45%	23.48	Underutilization	*	p < .05
	Nonminority Female	3.33%	10.52%	31.68	Underutilization	*	p < .05
	TOTAL M/WBE	6.26%	22.97%	27.24	Underutilization	*	p < .05
	Non-M/WBE	93.74%	77.03%	121.70	Overutilization		

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Table C-8
Disparity Results, Relevant Market Area
Business Ownership Classification by Fiscal Year, Total Utilization Professional Services
Using Payment Dollars, FY 2014-2018
North Carolina Colleges & Universities Disparity Study

Fiscal Year	Business Ownership	Percent of Dollars	Percent of Available Firms	Disparity Index	Disparate Impact of Utilization	Less than 80%	Statistical Significance
2014	Black American	0.33%	18.42%	1.77	Underutilization	*	
	Asian American	0.01%	2.86%	0.20	Underutilization	*	
	Hispanic American	0.00%	2.00%	0.00	Underutilization	*	
	Native American	0.00%	1.49%	0.00	Underutilization	*	
	TOTAL MBE	0.33%	24.77%	1.34	Underutilization	*	
	Nonminority Female	0.15%	9.55%	1.62	Underutilization	*	
	TOTAL M/WBE	0.49%	34.32%	1.41	Underutilization	*	
	Non-M/WBE	99.51%	65.68%	151.53	Overutilization		
2015	Black American	0.15%	18.42%	0.82	Underutilization	*	
	Asian American	0.07%	2.86%	2.55	Underutilization	*	
	Hispanic American	0.00%	2.00%	0.00	Underutilization	*	
	Native American	0.00%	1.49%	0.00	Underutilization	*	
	TOTAL MBE	0.22%	24.77%	0.91	Underutilization	*	
	Nonminority Female	0.20%	9.55%	2.08	Underutilization	*	
	TOTAL M/WBE	0.42%	34.32%	1.23	Underutilization	*	
	Non-M/WBE	99.58%	65.68%	151.62	Overutilization		
2016	Black American	0.26%	18.42%	1.41	Underutilization	*	
	Asian American	0.02%	2.86%	0.68	Underutilization	*	
	Hispanic American	0.00%	2.00%	0.00	Underutilization	*	
	Native American	0.00%	1.49%	0.00	Underutilization	*	
	TOTAL MBE	0.28%	24.77%	1.13	Underutilization	*	
	Nonminority Female	0.31%	9.55%	3.27	Underutilization	*	
	TOTAL M/WBE	0.59%	34.32%	1.73	Underutilization	*	
	Non-M/WBE	99.41%	65.68%	151.36	Overutilization		
2017	Black American	0.44%	18.42%	2.38	Underutilization	*	
	Asian American	0.00%	2.86%	0.00	Underutilization	*	
	Hispanic American	0.00%	2.00%	0.00	Underutilization	*	
	Native American	0.00%	1.49%	0.00	Underutilization	*	
	TOTAL MBE	0.44%	24.77%	1.77	Underutilization	*	
	Nonminority Female	0.17%	9.55%	1.73	Underutilization	*	
	TOTAL M/WBE	0.60%	34.32%	1.76	Underutilization	*	
	Non-M/WBE	99.40%	65.68%	151.35	Overutilization		
2018	Black American	0.33%	18.42%	1.78	Underutilization	*	
	Asian American	0.05%	2.86%	1.65	Underutilization	*	
	Hispanic American	0.00%	2.00%	0.00	Underutilization	*	
	Native American	0.00%	1.49%	0.00	Underutilization	*	
	TOTAL MBE	0.37%	24.77%	1.51	Underutilization	*	
	Nonminority Female	0.55%	9.55%	5.77	Underutilization	*	
	TOTAL M/WBE	0.93%	34.32%	2.70	Underutilization	*	
	Non-M/WBE	99.07%	65.68%	150.86	Overutilization		
Total	Black American	0.28%	18.42%	1.54	Underutilization	*	p < .05
	Asian American	0.03%	2.86%	1.10	Underutilization	*	p < .05
	Hispanic American	0.00%	2.00%	0.00	Underutilization	*	p < .05
	Native American	0.00%	1.49%	0.00	Underutilization	*	p < .05
	TOTAL MBE	0.32%	24.77%	1.27	Underutilization	*	p < .05
	Nonminority Female	0.25%	9.55%	2.66	Underutilization	*	p < .05
	TOTAL M/WBE	0.57%	34.32%	1.66	Underutilization	*	p < .05
	Non-M/WBE	99.43%	65.68%	151.40	Overutilization		

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Table C-9
Disparity Results, Relevant Market Area
Business Ownership Classification by Fiscal Year, Total Utilization Other Services
Using Payment Dollars, FY 2014-2018
North Carolina Colleges & Universities Disparity Study

Fiscal Year	Business Ownership	Percent of Dollars	Percent of Available Firms	Disparity Index	Disparate Impact of Utilization	Less than 80%	Statistical Significance
2014	Black American	0.09%	15.86%	0.55	Underutilization	*	
	Asian American	0.14%	1.30%	10.70	Underutilization	*	
	Hispanic American	0.00%	1.72%	0.12	Underutilization	*	
	Native American	0.12%	0.69%	17.14	Underutilization	*	
	TOTAL MBE	0.35%	19.57%	1.77	Underutilization	*	
	Nonminority Female	2.62%	9.05%	28.93	Underutilization	*	
	TOTAL M/WBE	2.96%	28.62%	10.36	Underutilization	*	
	Non-M/WBE	97.04%	71.38%	135.94	Overutilization		
2015	Black American	0.09%	15.86%	0.55	Underutilization	*	
	Asian American	0.13%	1.30%	10.30	Underutilization	*	
	Hispanic American	0.01%	1.72%	0.75	Underutilization	*	
	Native American	0.06%	0.69%	8.92	Underutilization	*	
	TOTAL MBE	0.30%	19.57%	1.51	Underutilization	*	
	Nonminority Female	0.77%	9.05%	8.51	Underutilization	*	
	TOTAL M/WBE	1.07%	28.62%	3.72	Underutilization	*	
	Non-M/WBE	98.93%	71.38%	138.60	Overutilization		
2016	Black American	0.03%	15.86%	0.20	Underutilization	*	
	Asian American	0.02%	1.30%	1.39	Underutilization	*	
	Hispanic American	0.01%	1.72%	0.65	Underutilization	*	
	Native American	0.06%	0.69%	8.66	Underutilization	*	
	TOTAL MBE	0.12%	19.57%	0.61	Underutilization	*	
	Nonminority Female	0.90%	9.05%	10.00	Underutilization	*	
	TOTAL M/WBE	1.02%	28.62%	3.58	Underutilization	*	
	Non-M/WBE	98.98%	71.38%	138.66	Overutilization		
2017	Black American	0.11%	15.86%	0.72	Underutilization	*	
	Asian American	0.10%	1.30%	7.71	Underutilization	*	
	Hispanic American	0.02%	1.72%	1.35	Underutilization	*	
	Native American	0.06%	0.69%	8.46	Underutilization	*	
	TOTAL MBE	0.30%	19.57%	1.51	Underutilization	*	
	Nonminority Female	0.93%	9.05%	10.24	Underutilization	*	
	TOTAL M/WBE	1.22%	28.62%	4.27	Underutilization	*	
	Non-M/WBE	98.78%	71.38%	138.38	Overutilization		
2018	Black American	0.40%	15.86%	2.51	Underutilization	*	
	Asian American	0.03%	1.30%	2.66	Underutilization	*	
	Hispanic American	0.01%	1.72%	0.52	Underutilization	*	
	Native American	0.08%	0.69%	11.35	Underutilization	*	
	TOTAL MBE	0.52%	19.57%	2.65	Underutilization	*	
	Nonminority Female	1.80%	9.05%	19.93	Underutilization	*	
	TOTAL M/WBE	2.32%	28.62%	8.12	Underutilization	*	
	Non-M/WBE	97.68%	71.38%	136.84	Overutilization		
Total	Black American	0.11%	15.86%	0.72	Underutilization	*	p < .05
	Asian American	0.09%	1.30%	6.67	Underutilization	*	p < .05
	Hispanic American	0.01%	1.72%	0.70	Underutilization	*	p < .05
	Native American	0.07%	0.69%	10.62	Underutilization	*	p < .05
	TOTAL MBE	0.29%	19.57%	1.46	Underutilization	*	p < .05
	Nonminority Female	1.31%	9.05%	14.48	Underutilization	*	p < .05
	TOTAL M/WBE	1.60%	28.62%	5.58	Underutilization	*	p < .05
	Non-M/WBE	98.40%	71.38%	137.85	Overutilization		

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Table C-10
Disparity Results, Relevant Market Area
Business Ownership Classification by Fiscal Year, Total Utilization Goods
Using Payment Dollars, FY 2014-2018
North Carolina Colleges & Universities Disparity Study

Fiscal Year	Business Ownership	Percent of Dollars	Percent of Available Firms	Disparity Index	Disparate Impact of Utilization	Less than 80%	Statistical Significance
2014	Black American	1.25%	8.18%	15.28	Underutilization	*	
	Asian American	2.31%	1.09%	211.22	Overutilization		
	Hispanic American	0.20%	1.71%	11.72	Underutilization	*	
	Native American	0.00%	0.68%	0.00	Underutilization	*	
	TOTAL MBE	3.76%	11.65%	32.27	Underutilization	*	
	Nonminority Female	3.77%	9.27%	40.62	Underutilization	*	
	TOTAL M/WBE	7.53%	20.93%	35.97	Underutilization	*	
	Non-M/WBE	92.47%	79.07%	116.95	Overutilization		
2015	Black American	6.99%	8.18%	85.49	Underutilization		
	Asian American	2.99%	1.09%	273.28	Overutilization		
	Hispanic American	0.16%	1.71%	9.47	Underutilization	*	
	Native American	0.00%	0.68%	0.00	Underutilization	*	
	TOTAL MBE	10.14%	11.65%	87.04	Underutilization		
	Nonminority Female	3.79%	9.27%	40.88	Underutilization	*	
	TOTAL M/WBE	13.94%	20.93%	66.59	Underutilization	*	
	Non-M/WBE	86.06%	79.07%	108.84	Overutilization		
2016	Black American	2.80%	8.18%	34.22	Underutilization	*	
	Asian American	2.91%	1.09%	266.13	Overutilization		
	Hispanic American	0.17%	1.71%	9.95	Underutilization	*	
	Native American	0.00%	0.68%	0.45	Underutilization	*	
	TOTAL MBE	5.88%	11.65%	50.49	Underutilization	*	
	Nonminority Female	2.02%	9.27%	21.82	Underutilization	*	
	TOTAL M/WBE	7.91%	20.93%	37.79	Underutilization	*	
	Non-M/WBE	92.09%	79.07%	116.46	Overutilization		
2017	Black American	5.02%	8.18%	61.40	Underutilization	*	
	Asian American	2.96%	1.09%	270.62	Overutilization		
	Hispanic American	0.50%	1.71%	29.26	Underutilization	*	
	Native American	0.05%	0.68%	7.25	Underutilization	*	
	TOTAL MBE	8.53%	11.65%	73.20	Underutilization	*	
	Nonminority Female	4.75%	9.27%	51.21	Underutilization	*	
	TOTAL M/WBE	13.28%	20.93%	63.46	Underutilization	*	
	Non-M/WBE	86.72%	79.07%	109.67	Overutilization		
2018	Black American	0.05%	8.18%	0.65	Underutilization	*	
	Asian American	0.41%	1.09%	37.08	Underutilization	*	
	Hispanic American	0.55%	1.71%	32.28	Underutilization	*	
	Native American	0.00%	0.68%	0.00	Underutilization	*	
	TOTAL MBE	1.01%	11.65%	8.66	Underutilization	*	
	Nonminority Female	3.07%	9.27%	33.15	Underutilization	*	
	TOTAL M/WBE	4.08%	20.93%	19.51	Underutilization	*	
	Non-M/WBE	95.92%	79.07%	121.30	Overutilization		
Total	Black American	3.43%	8.18%	41.90	Underutilization	*	p < .05
	Asian American	2.42%	1.09%	221.03	Overutilization		
	Hispanic American	0.30%	1.71%	17.48	Underutilization	*	p < .05
	Native American	0.01%	0.68%	1.48	Underutilization	*	p < .05
	TOTAL MBE	6.15%	11.65%	52.81	Underutilization	*	p < .05
	Nonminority Female	3.43%	9.27%	36.95	Underutilization	*	p < .05
	TOTAL M/WBE	9.58%	20.93%	45.78	Underutilization	*	p < .05
	Non-M/WBE	90.42%	79.07%	114.35	Overutilization		

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APPENDIX D
UTILIZATION BY COMMUNITY COLLEGE
AND UNIVERSITY

Appendix D – Utilization by Colleges and Universities

Table D-1 shows utilization by North Carolina Colleges and Universities.

The highest MBE utilization in percentage terms for a college or university was Guilford Technical Community College, with 53.4%. The highest WBE utilization in percentage terms was Alamance Community College, with 53.10%. The highest M/WBE percentage utilization was Guilford Technical Community College, with 55.61%

The highest spending in absolute dollars terms with MBEs Guilford Technical Community College, with \$62,136,698. The highest spending with WBEs (\$75,199,074) and M/WBEs (\$88,519,938) was North Carolina State.

Table C-1
Prime Utilization by Colleges and Universities, Relevant Market Area
Business Ownership Classification by Fiscal Year
Using Payment Dollars, FY 2014-2018
North Carolina Colleges & Universities Disparity Study

College/University	Firm Ownership	Amount	Percent of Total
Alamance CC	African-American Firms	\$ 63,816	0.22%
	Asian-American Firms	\$ 40,342	0.14%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 104,158	0.35%
	Nonminority-Female Firms	\$ 15,723,034	53.10%
	Total M/WBE Firms	\$ 15,827,192	53.45%
	Non-M/WBE Firms	\$ 13,783,435	46.55%
	Total Prime Procurement	\$ 29,610,628	100.00%
Albemarle-College	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ 377,782	3.63%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 377,782	3.63%
	Nonminority-Female Firms	\$ 31,782	0.31%
	Total M/WBE Firms	\$ 409,564	3.94%
	Non-M/WBE Firms	\$ 9,993,017	96.06%
	Total Prime Procurement	\$ 10,402,582	100.00%
Appalachian State University	African-American Firms	\$ 383,918	0.16%
	Asian-American Firms	\$ 45,686	0.02%
	Hispanic-American Firms	\$ 75,195	0.03%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 504,799	0.21%
	Nonminority-Female Firms	\$ 57,914,664	24.41%
	Total M/WBE Firms	\$ 58,419,463	24.62%
	Non-M/WBE Firms	\$ 178,824,335	75.38%
	Total Prime Procurement	\$ 237,243,798	100.00%

Appalachian State University PO	African-American Firms	\$ 69,631	0.10%
	Asian-American Firms	\$ 425,397	0.63%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 495,028	0.74%
	Nonminority-Female Firms	\$ 1,238,797	1.84%
	Total M/WBE Firms	\$ 1,733,824	2.57%
	Non-M/WBE Firms	\$ 65,614,874	97.43%
	Total Prime Procurement	\$ 67,348,698	100.00%
Asheville Buncombe Technical Community College	African-American Firms	\$ 34,722	0.08%
	Asian-American Firms	\$ 206,472	0.50%
	Hispanic-American Firms	\$ 22,831	0.06%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 264,025	0.64%
	Nonminority-Female Firms	\$ 1,614,427	3.89%
	Total M/WBE Firms	\$ 1,878,451	4.53%
	Non-M/WBE Firms	\$ 39,605,156	95.47%
	Total Prime Procurement	\$ 41,483,608	100.00%
Beaufort County CC	African-American Firms	\$ 7,365	0.08%
	Asian-American Firms	\$ 78,948	0.87%
	Hispanic-American Firms	\$ 49,721	0.55%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 136,034	1.50%
	Nonminority-Female Firms	\$ 340,794	3.75%
	Total M/WBE Firms	\$ 476,828	5.24%
	Non-M/WBE Firms	\$ 8,620,277	94.76%
	Total Prime Procurement	\$ 9,097,105	100.00%
Bladen Community College	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ 24,193	0.29%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ 14,675	0.17%
	Total MBE Firms	\$ 38,868	0.46%
	Nonminority-Female Firms	\$ 202,721	2.41%
	Total M/WBE Firms	\$ 241,589	2.87%
	Non-M/WBE Firms	\$ 8,168,948	97.13%
	Total Prime Procurement	\$ 8,410,537	100.00%
Blue Ridge Community College	African-American Firms	\$ 13,174	0.11%
	Asian-American Firms	\$ 74,706	0.61%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 87,880	0.72%
	Nonminority-Female Firms	\$ 648,493	5.29%

	Total M/WBE Firms	\$ 736,373	6.01%
	Non-M/WBE Firms	\$ 11,524,864	93.99%
	Total Prime Procurement	\$ 12,261,237	100.00%
Brunswick CC	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ 295,985	3.00%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 295,985	3.00%
	Nonminority-Female Firms	\$ 41,926	0.42%
	Total M/WBE Firms	\$ 337,912	3.42%
	Non-M/WBE Firms	\$ 9,539,056	96.58%
	Total Prime Procurement	\$ 9,876,968	100.00%

Caldwell Community College	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ 54,296	0.25%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 54,296	0.25%
	Nonminority-Female Firms	\$ 532,416	2.41%
	Total M/WBE Firms	\$ 586,712	2.66%
	Non-M/WBE Firms	\$ 21,486,833	97.34%
	Total Prime Procurement	\$ 22,073,546	100.00%

Cape Fear	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ -	0.00%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ -	0.00%
	Nonminority-Female Firms	\$ 12,600	15.12%
	Total M/WBE Firms	\$ 12,600	15.12%
	Non-M/WBE Firms	\$ 70,717	84.88%
	Total Prime Procurement	\$ 83,317	100.00%

Carteret CC	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ 95,053	2.19%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 95,053	2.19%
	Nonminority-Female Firms	\$ 195,962	4.52%
	Total M/WBE Firms	\$ 291,015	6.72%
	Non-M/WBE Firms	\$ 4,042,147	93.28%
	Total Prime Procurement	\$ 4,333,162	100.00%

Catawba CC	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ -	0.00%

	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ -	0.00%
	Nonminority-Female Firms	\$ 8,800	0.03%
	Total M/WBE Firms	\$ 8,800	0.03%
	Non-M/WBE Firms	\$ 32,387,550	99.97%
	Total Prime Procurement	\$ 32,396,350	100.00%

Central Carolina CC	African-American Firms	\$ 6,516	0.02%
	Asian-American Firms	\$ 197,422	0.62%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 203,939	0.64%
	Nonminority-Female Firms	\$ 1,556,108	4.89%
	Total M/WBE Firms	\$ 1,760,047	5.53%
	Non-M/WBE Firms	\$ 30,077,233	94.47%
	Total Prime Procurement	\$ 31,837,280	100.00%

Central Piedmont CC	African-American Firms	\$ 886,798	0.98%
	Asian-American Firms	\$ 1,121,872	1.25%
	Hispanic-American Firms	\$ 27,000	0.03%
	American Indian Firms	\$ 559,877	0.62%
	Total MBE Firms	\$ 2,595,547	2.88%
	Nonminority-Female Firms	\$ 14,375,341	15.96%
	Total M/WBE Firms	\$ 16,970,888	18.84%
	Non-M/WBE Firms	\$ 73,125,172	81.16%
	Total Prime Procurement	\$ 90,096,060	100.00%

Cleveland CC	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ -	0.00%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ -	0.00%
	Nonminority-Female Firms	\$ -	0.00%
	Total M/WBE Firms	\$ -	0.00%
	Non-M/WBE Firms	\$ 361,195	100.00%
	Total Prime Procurement	\$ 361,195	100.00%

Coastal Carolina Community College	African-American Firms	\$ 104,660	0.30%
	Asian-American Firms	\$ 125,290	0.36%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 229,950	0.66%
	Nonminority-Female Firms	\$ 1,295,804	3.74%
	Total M/WBE Firms	\$ 1,525,753	4.40%
	Non-M/WBE Firms	\$ 33,119,275	95.60%

	Total Prime Procurement	\$ 34,645,029	100.00%
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Craven Community College	African-American Firms	\$ 327,134	2.40%
	Asian-American Firms	\$ 309,148	2.27%
	Hispanic-American Firms	\$ 83,552	0.61%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 719,833	5.29%
	Nonminority-Female Firms	\$ 236,685	1.74%
	Total M/WBE Firms	\$ 956,518	7.03%
	Non-M/WBE Firms	\$ 12,656,666	92.97%
	Total Prime Procurement	\$ 13,613,184	100.00%

Davidson County CC	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ 785,522	2.44%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 785,522	2.44%
	Nonminority-Female Firms	\$ 589,360	1.83%
	Total M/WBE Firms	\$ 1,374,883	4.26%
	Non-M/WBE Firms	\$ 30,877,348	95.74%
	Total Prime Procurement	\$ 32,252,230	100.00%

Durham_Tech_CC	African-American Firms	\$ 728,278	2.46%
	Asian-American Firms	\$ 157,866	0.53%
	Hispanic-American Firms	\$ 64,658	0.22%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 950,802	3.22%
	Nonminority-Female Firms	\$ 1,285,287	4.35%
	Total M/WBE Firms	\$ 2,236,089	7.57%
	Non-M/WBE Firms	\$ 27,313,532	92.43%
	Total Prime Procurement	\$ 29,549,622	100.00%

East Carolina University	African-American Firms	\$ 1,556,101	0.53%
	Asian-American Firms	\$ 445,627	0.15%
	Hispanic-American Firms	\$ 800,135	0.27%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 2,801,863	0.95%
	Nonminority-Female Firms	\$ 6,967,416	2.37%
	Total M/WBE Firms	\$ 9,769,278	3.33%
	Non-M/WBE Firms	\$ 283,867,395	96.67%
	Total Prime Procurement	\$ 293,636,674	100.00%

Edgecombe	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ 66,824	0.59%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%

	Total MBE Firms	\$ 66,824	0.59%
	Nonminority-Female Firms	\$ 990,840	8.80%
	Total M/WBE Firms	\$ 1,057,664	9.39%
	Non-M/WBE Firms	\$ 10,205,596	90.61%
	Total Prime Procurement	\$ 11,263,259	100.00%

Elizabeth_City_State_Univ	African-American Firms	\$ 315,335	0.74%
	Asian-American Firms	\$ 170,873	0.40%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 486,207	1.14%
	Nonminority-Female Firms	\$ 553,349	1.29%
	Total M/WBE Firms	\$ 1,039,557	2.43%
	Non-M/WBE Firms	\$ 41,747,974	97.57%
	Total Prime Procurement	\$ 42,787,530	100.00%

Fayetteville State University	African-American Firms	\$ 1,522,443	7.11%
	Asian-American Firms	\$ 116,899	0.55%
	Hispanic-American Firms	\$ 14,400	0.07%
	American Indian Firms	\$ 4,270,552	19.96%
	Total MBE Firms	\$ 5,924,295	27.69%
	Nonminority-Female Firms	\$ 425,666	1.99%
	Total M/WBE Firms	\$ 6,349,961	29.67%
	Non-M/WBE Firms	\$ 15,048,565	70.33%
	Total Prime Procurement	\$ 21,398,525	100.00%

Fayetteville Tech CC	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ 2,882,434	2.87%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ 144,294	0.14%
	Total MBE Firms	\$ 3,026,728	3.01%
	Nonminority-Female Firms	\$ 4,217,105	4.20%
	Total M/WBE Firms	\$ 7,243,834	7.21%
	Non-M/WBE Firms	\$ 93,254,091	92.79%
	Total Prime Procurement	\$ 100,497,925	100.00%

Forsyth Technical Community College	African-American Firms	\$ 1,648,340	0.83%
	Asian-American Firms	\$ 222,291	0.11%
	Hispanic-American Firms	\$ 11,182	0.01%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 1,881,813	0.94%
	Nonminority-Female Firms	\$ 2,070,812	1.04%
	Total M/WBE Firms	\$ 3,952,625	1.98%
	Non-M/WBE Firms	\$ 195,468,528	98.02%
	Total Prime Procurement	\$ 199,421,153	100.00%

Gaston College	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ 50,813	0.15%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 50,813	0.15%
	Nonminority-Female Firms	\$ 544,352	1.59%
	Total M/WBE Firms	\$ 595,165	1.74%
	Non-M/WBE Firms	\$ 33,635,518	98.26%
	Total Prime Procurement	\$ 34,230,683	100.00%

Guilford TCC	African-American Firms	\$ 60,102,087	51.65%
	Asian-American Firms	\$ 2,006,090	1.72%
	Hispanic-American Firms	\$ 28,521	0.02%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 62,136,698	53.40%
	Nonminority-Female Firms	\$ 2,570,293	2.21%
	Total M/WBE Firms	\$ 64,706,991	55.61%
	Non-M/WBE Firms	\$ 51,649,729	44.39%
	Total Prime Procurement	\$ 116,356,720	100.00%

Halifax	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ 54,953	0.53%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 54,953	0.53%
	Nonminority-Female Firms	\$ 17,812	0.17%
	Total M/WBE Firms	\$ 72,765	0.70%
	Non-M/WBE Firms	\$ 10,385,273	99.30%
	Total Prime Procurement	\$ 10,458,037	100.00%

Haywood CC	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ 69,563	0.96%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 69,563	0.96%
	Nonminority-Female Firms	\$ 218,383	3.02%
	Total M/WBE Firms	\$ 287,946	3.98%
	Non-M/WBE Firms	\$ 6,943,500	96.02%
	Total Prime Procurement	\$ 7,231,446	100.00%

Isothermal CC	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ 94,894	0.63%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 94,894	0.63%
	Nonminority-Female Firms	\$ 18,974	0.13%

	Total M/WBE Firms	\$ 113,868	0.76%
	Non-M/WBE Firms	\$ 14,939,409	99.24%
	Total Prime Procurement	\$ 15,053,277	100.00%

James Sprunt CC	African-American Firms	\$ 21,595	0.53%
	Asian-American Firms	\$ 41,686	1.01%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 63,281	1.54%
	Nonminority-Female Firms	\$ -	0.00%
	Total M/WBE Firms	\$ 63,281	1.54%
	Non-M/WBE Firms	\$ 4,048,100	98.46%
	Total Prime Procurement	\$ 4,111,382	100.00%

Johnston CC	African-American Firms	\$ 12,556	0.04%
	Asian-American Firms	\$ 275,945	0.77%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 288,500	0.81%
	Nonminority-Female Firms	\$ 4,136,272	11.60%
	Total M/WBE Firms	\$ 4,424,773	12.41%
	Non-M/WBE Firms	\$ 31,239,770	87.59%
	Total Prime Procurement	\$ 35,664,542	100.00%

Lenoir CC	African-American Firms	\$ 7,989	0.06%
	Asian-American Firms	\$ 81,321	0.65%
	Hispanic-American Firms	\$ 31,500	0.25%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 120,811	0.96%
	Nonminority-Female Firms	\$ 112,954	0.90%
	Total M/WBE Firms	\$ 233,765	1.86%
	Non-M/WBE Firms	\$ 12,318,262	98.14%
	Total Prime Procurement	\$ 12,552,027	100.00%

Martin CC	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ 261,219	2.89%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 261,219	2.89%
	Nonminority-Female Firms	\$ 264,731	2.93%
	Total M/WBE Firms	\$ 525,951	5.83%
	Non-M/WBE Firms	\$ 8,499,477	94.17%
	Total Prime Procurement	\$ 9,025,428	100.00%

Mayland Community College	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ 31,933	0.34%

	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 31,933	0.34%
	Nonminority-Female Firms	\$ 574,977	6.07%
	Total M/WBE Firms	\$ 606,911	6.41%
	Non-M/WBE Firms	\$ 8,863,176	93.59%
	Total Prime Procurement	\$ 9,470,087	100.00%

Mcdowell CC	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ -	0.00%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ -	0.00%
	Nonminority-Female Firms	\$ -	0.00%
	Total M/WBE Firms	\$ -	0.00%
	Non-M/WBE Firms	\$ 4,977,720	100.00%
	Total Prime Procurement	\$ 4,977,720	100.00%

Mitchell CC	African-American Firms	\$ 52,900	0.45%
	Asian-American Firms	\$ 110,733	0.94%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 163,633	1.39%
	Nonminority-Female Firms	\$ 743,588	6.31%
	Total M/WBE Firms	\$ 907,221	7.70%
	Non-M/WBE Firms	\$ 10,881,357	92.30%
	Total Prime Procurement	\$ 11,788,578	100.00%

Montgomery_CC	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ 14,138	0.47%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 14,138	0.47%
	Nonminority-Female Firms	\$ 85,335	2.83%
	Total M/WBE Firms	\$ 99,473	3.30%
	Non-M/WBE Firms	\$ 2,916,797	96.70%
	Total Prime Procurement	\$ 3,016,270	100.00%

Nash CC	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ 53,701	0.21%
	Hispanic-American Firms	\$ 120,340	0.48%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 174,041	0.69%
	Nonminority-Female Firms	\$ 236,514	0.94%
	Total M/WBE Firms	\$ 410,555	1.63%
	Non-M/WBE Firms	\$ 24,740,400	98.37%

	Total Prime Procurement	\$ 25,150,955	100.00%
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NC A&T University	African-American Firms	\$ 5,957,428	22.18%
	Asian-American Firms	\$ 389,346	1.45%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 6,346,774	23.63%
	Nonminority-Female Firms	\$ 631,831	2.35%
	Total M/WBE Firms	\$ 6,978,605	25.98%
	Non-M/WBE Firms	\$ 19,884,044	74.02%
	Total Prime Procurement	\$ 26,862,649	100.00%

NC School of Arts	African-American Firms	\$ 517,426	1.24%
	Asian-American Firms	\$ 281,529	0.68%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 798,955	1.92%
	Nonminority-Female Firms	\$ 2,563,101	6.16%
	Total M/WBE Firms	\$ 3,362,056	8.08%
	Non-M/WBE Firms	\$ 38,240,950	91.92%
	Total Prime Procurement	\$ 41,603,006	100.00%

NC State University	African-American Firms	\$ 5,515,752	0.27%
	Asian-American Firms	\$ 1,697,641	0.08%
	Hispanic-American Firms	\$ 5,550,104	0.27%
	American Indian Firms	\$ 557,368	0.03%
	Total MBE Firms	\$ 13,320,864	0.65%
	Nonminority-Female Firms	\$ 75,199,074	3.67%
	Total M/WBE Firms	\$ 88,519,938	4.32%
	Non-M/WBE Firms	\$ 1,961,921,645	95.68%
	Total Prime Procurement	\$ 2,050,441,584	100.00%

North Carolina Central University	African-American Firms	\$ 1,686,870	1.48%
	Asian-American Firms	\$ 696,388	0.61%
	Hispanic-American Firms	\$ 507,034	0.44%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 2,890,292	2.53%
	Nonminority-Female Firms	\$ 1,241,847	1.09%
	Total M/WBE Firms	\$ 4,132,139	3.62%
	Non-M/WBE Firms	\$ 109,952,177	96.38%
	Total Prime Procurement	\$ 114,084,316	100.00%

Pamlico Community College	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ -	0.00%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total Prime Procurement	\$ -	0.00%

	Total MBE Firms	\$ -	0.00%
	Nonminority-Female Firms	\$ -	0.00%
	Total M/WBE Firms	\$ -	0.00%
	Non-M/WBE Firms	\$ 2,299,255	100.00%
	Total Prime Procurement	\$ 2,299,255	100.00%

Piedmont Community College	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ 89,468	0.46%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 89,468	0.46%
	Nonminority-Female Firms	\$ 252,820	1.30%
	Total M/WBE Firms	\$ 342,288	1.76%
	Non-M/WBE Firms	\$ 19,070,976	98.24%
	Total Prime Procurement	\$ 19,413,264	100.00%

Pitt CC	African-American Firms	\$ 400,963	0.07%
	Asian-American Firms	\$ 341,722	0.06%
	Hispanic-American Firms	\$ 57,134	0.01%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 799,820	0.13%
	Nonminority-Female Firms	\$ 358,315	0.06%
	Total M/WBE Firms	\$ 1,158,135	0.19%
	Non-M/WBE Firms	\$ 596,354,756	99.81%
	Total Prime Procurement	\$ 597,512,891	100.00%

Randolph Community College	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ 243,489	1.33%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 243,489	1.33%
	Nonminority-Female Firms	\$ 396,793	2.16%
	Total M/WBE Firms	\$ 640,282	3.49%
	Non-M/WBE Firms	\$ 17,705,513	96.51%
	Total Prime Procurement	\$ 18,345,795	100.00%

Richmond Community College	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ 89,695	0.58%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ 2,018,290	13.08%
	Total MBE Firms	\$ 2,107,984	13.66%
	Nonminority-Female Firms	\$ 133,361	0.86%
	Total M/WBE Firms	\$ 2,241,346	14.52%
	Non-M/WBE Firms	\$ 13,192,974	85.48%
	Total Prime Procurement	\$ 15,434,320	100.00%

Roanoke-Chowan Community College	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ -	0.00%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ -	0.00%
	Nonminority-Female Firms	\$ 5,919	0.28%
	Total M/WBE Firms	\$ 5,919	0.28%
	Non-M/WBE Firms	\$ 2,141,454	99.72%
	Total Prime Procurement	\$ 2,147,373	100.00%

Robeson CC	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ 866,625	7.56%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ 758,355	6.62%
	Total MBE Firms	\$ 1,624,980	14.18%
	Nonminority-Female Firms	\$ 69,062	0.60%
	Total M/WBE Firms	\$ 1,694,041	14.78%
	Non-M/WBE Firms	\$ 9,764,875	85.22%
	Total Prime Procurement	\$ 11,458,917	100.00%

Rockingham CC	African-American Firms	\$ 160,812	1.48%
	Asian-American Firms	\$ 34,414	0.32%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 195,225	1.80%
	Nonminority-Female Firms	\$ 712,495	6.56%
	Total M/WBE Firms	\$ 907,720	8.36%
	Non-M/WBE Firms	\$ 9,955,381	91.64%
	Total Prime Procurement	\$ 10,863,101	100.00%

Rowan-Cabarrus Community College	African-American Firms	\$ 87,179	0.18%
	Asian-American Firms	\$ 468,645	0.94%
	Hispanic-American Firms	\$ 772,466	1.56%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 1,328,290	2.67%
	Nonminority-Female Firms	\$ 307,619	0.62%
	Total M/WBE Firms	\$ 1,635,909	3.29%
	Non-M/WBE Firms	\$ 48,040,042	96.71%
	Total Prime Procurement	\$ 49,675,952	100.00%

Sampson Community College	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ 74,200	0.69%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 74,200	0.69%

	Nonminority-Female Firms	\$ 485,584	4.51%
	Total M/WBE Firms	\$ 559,784	5.19%
	Non-M/WBE Firms	\$ 10,218,810	94.81%
	Total Prime Procurement	\$ 10,778,594	100.00%

Sandhills CC	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ 608,636	3.06%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 608,636	3.06%
	Nonminority-Female Firms	\$ 319,667	1.61%
	Total M/WBE Firms	\$ 928,303	4.67%
	Non-M/WBE Firms	\$ 18,964,726	95.33%
	Total Prime Procurement	\$ 19,893,029	100.00%

South Piedmont CC	African-American Firms	\$ 5,359	0.05%
	Asian-American Firms	\$ 1,144,700	11.44%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 1,150,059	11.50%
	Nonminority-Female Firms	\$ 193,223	1.93%
	Total M/WBE Firms	\$ 1,343,282	13.43%
	Non-M/WBE Firms	\$ 8,660,629	86.57%
	Total Prime Procurement	\$ 10,003,911	100.00%

Southeastern CC	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ 892,861	6.60%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 892,861	6.60%
	Nonminority-Female Firms	\$ 342,362	2.53%
	Total M/WBE Firms	\$ 1,235,223	9.12%
	Non-M/WBE Firms	\$ 12,301,893	90.88%
	Total Prime Procurement	\$ 13,537,116	100.00%

Southwestern CC	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ 154,483	0.82%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 154,483	0.82%
	Nonminority-Female Firms	\$ 64,360	0.34%
	Total M/WBE Firms	\$ 218,843	1.16%
	Non-M/WBE Firms	\$ 18,698,208	98.84%
	Total Prime Procurement	\$ 18,917,051	100.00%

Stanly Community College	African-American Firms	\$ -	0.00%
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	Asian-American Firms	\$ 184,623	1.27%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 184,623	1.27%
	Nonminority-Female Firms	\$ 537,621	3.70%
	Total M/WBE Firms	\$ 722,244	4.97%
	Non-M/WBE Firms	\$ 13,811,285	95.03%
	Total Prime Procurement	\$ 14,533,529	100.00%

Surry CC	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ 180,803	1.15%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 180,803	1.15%
	Nonminority-Female Firms	\$ 553,477	3.52%
	Total M/WBE Firms	\$ 734,280	4.66%
	Non-M/WBE Firms	\$ 15,008,627	95.34%
	Total Prime Procurement	\$ 15,742,907	100.00%

Tri-County Community College	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ 54,100	2.03%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 54,100	2.03%
	Nonminority-Female Firms	\$ 325,246	12.20%
	Total M/WBE Firms	\$ 379,345	14.23%
	Non-M/WBE Firms	\$ 2,286,506	85.77%
	Total Prime Procurement	\$ 2,665,851	100.00%

UNC Asheville	African-American Firms	\$ 80,081	0.11%
	Asian-American Firms	\$ 867,682	1.18%
	Hispanic-American Firms	\$ 16,000	0.02%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 963,763	1.31%
	Nonminority-Female Firms	\$ 1,699,696	2.31%
	Total M/WBE Firms	\$ 2,663,459	3.62%
	Non-M/WBE Firms	\$ 70,896,676	96.38%
	Total Prime Procurement	\$ 73,560,135	100.00%

UNC Chapel Hill	African-American Firms	\$ 996,236	0.09%
	Asian-American Firms	\$ 237,563	0.02%
	Hispanic-American Firms	\$ 523,224	0.05%
	American Indian Firms	\$ 159,637	0.01%
	Total MBE Firms	\$ 1,916,661	0.17%
	Nonminority-Female Firms	\$ 15,516,983	1.39%
	Total M/WBE Firms	\$ 17,433,643	1.56%

	Non-M/WBE Firms	\$ 1,100,965,087	98.44%
	Total Prime Procurement	\$ 1,118,398,731	100.00%

UNC Charlotte	African-American Firms	\$ 867,289	0.15%
	Asian-American Firms	\$ 867,605	0.15%
	Hispanic-American Firms	\$ 63,402	0.01%
	American Indian Firms	\$ 953,251	0.16%
	Total MBE Firms	\$ 2,751,547	0.46%
	Nonminority-Female Firms	\$ 48,391,024	8.16%
	Total M/WBE Firms	\$ 51,142,572	8.62%
	Non-M/WBE Firms	\$ 541,998,816	91.38%
	Total Prime Procurement	\$ 593,141,388	100.00%

UNC General Admin	African-American Firms	\$ 72,833	0.30%
	Asian-American Firms	\$ -	0.00%
	Hispanic-American Firms	\$ 16,225	0.07%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 89,058	0.37%
	Nonminority-Female Firms	\$ 17,683	0.07%
	Total M/WBE Firms	\$ 106,741	0.44%
	Non-M/WBE Firms	\$ 24,098,697	99.56%
	Total Prime Procurement	\$ 24,205,438	100.00%

UNC Hospitals	African-American Firms	\$ 289,259	0.03%
	Asian-American Firms	\$ 10,407,334	1.11%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ 5,400	0.00%
	Total MBE Firms	\$ 10,701,993	1.14%
	Nonminority-Female Firms	\$ 1,733,220	0.18%
	Total M/WBE Firms	\$ 12,435,213	1.32%
	Non-M/WBE Firms	\$ 926,971,234	98.68%
	Total Prime Procurement	\$ 939,406,447	100.00%

UNC Pembroke	African-American Firms	\$ 561,211	1.17%
	Asian-American Firms	\$ 134,876	0.28%
	Hispanic-American Firms	\$ 7,850	0.02%
	American Indian Firms	\$ 3,885,992	8.12%
	Total MBE Firms	\$ 4,589,929	9.59%
	Nonminority-Female Firms	\$ 944,492	1.97%
	Total M/WBE Firms	\$ 5,534,420	11.57%
	Non-M/WBE Firms	\$ 42,302,344	88.43%
	Total Prime Procurement	\$ 47,836,764	100.00%

UNC TV - Chiller	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ -	0.00%
	Hispanic-American Firms	\$ -	0.00%

	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ -	0.00%
	Nonminority-Female Firms	\$ -	0.00%
	Total M/WBE Firms	\$ -	0.00%
	Non-M/WBE Firms	\$ 227,329	100.00%
	Total Prime Procurement	\$ 227,329	100.00%

UNC TV- Lobby	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ -	0.00%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ -	0.00%
	Nonminority-Female Firms	\$ -	0.00%
	Total M/WBE Firms	\$ -	0.00%
	Non-M/WBE Firms	\$ 219,811	100.00%
	Total Prime Procurement	\$ 219,811	100.00%

UNC Wilmington	African-American Firms	\$ 5,246,745	2.74%
	Asian-American Firms	\$ 1,847,360	0.96%
	Hispanic-American Firms	\$ 6,375	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 7,100,480	3.71%
	Nonminority-Female Firms	\$ 8,906,735	4.65%
	Total M/WBE Firms	\$ 16,007,215	8.35%
	Non-M/WBE Firms	\$ 175,618,556	91.65%
	Total Prime Procurement	\$ 191,625,771	100.00%

Univ of NC at Greensboro	African-American Firms	\$ 2,406,954	2.69%
	Asian-American Firms	\$ -	0.00%
	Hispanic-American Firms	\$ 5,800	0.01%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 2,412,754	2.70%
	Nonminority-Female Firms	\$ 3,241,831	3.62%
	Total M/WBE Firms	\$ 5,654,585	6.32%
	Non-M/WBE Firms	\$ 83,845,054	93.68%
	Total Prime Procurement	\$ 89,499,639	100.00%

Vance-Granville CC	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ 27,512	0.39%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 27,512	0.39%
	Nonminority-Female Firms	\$ 155,908	2.22%
	Total M/WBE Firms	\$ 183,420	2.62%
	Non-M/WBE Firms	\$ 6,826,532	97.38%
	Total Prime Procurement	\$ 7,009,952	100.00%

Wake Tech CC	African-American Firms	\$ 7,288,580	2.49%
	Asian-American Firms	\$ 638,382	0.22%
	Hispanic-American Firms	\$ 520,925	0.18%
	American Indian Firms	\$ 5,689,477	1.94%
	Total MBE Firms	\$ 14,137,365	4.83%
	Nonminority-Female Firms	\$ 7,407,963	2.53%
	Total M/WBE Firms	\$ 21,545,328	7.35%
	Non-M/WBE Firms	\$ 271,413,594	92.65%
	Total Prime Procurement	\$ 292,958,923	100.00%

Wayne CC	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ 1,368,959	6.30%
	Hispanic-American Firms	\$ 14,232	0.07%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 1,383,192	6.36%
	Nonminority-Female Firms	\$ 280,728	1.29%
	Total M/WBE Firms	\$ 1,663,920	7.65%
	Non-M/WBE Firms	\$ 20,072,536	92.35%
	Total Prime Procurement	\$ 21,736,456	100.00%

Western Carolina Univ	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ 16,364,422	11.83%
	Hispanic-American Firms	\$ 8,003	0.01%
	American Indian Firms	\$ 239,407	0.17%
	Total MBE Firms	\$ 16,611,832	12.01%
	Nonminority-Female Firms	\$ 5,650,698	4.09%
	Total M/WBE Firms	\$ 22,262,530	16.10%
	Non-M/WBE Firms	\$ 116,011,264	83.90%
	Total Prime Procurement	\$ 138,273,794	100.00%

Wilkes CC	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ 117,405	2.74%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 117,405	2.74%
	Nonminority-Female Firms	\$ 794,763	18.53%
	Total M/WBE Firms	\$ 912,168	21.27%
	Non-M/WBE Firms	\$ 3,376,741	78.73%
	Total Prime Procurement	\$ 4,288,909	100.00%

Wilson CC	African-American Firms	\$ -	0.00%
	Asian-American Firms	\$ 99,306	1.13%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 99,306	1.13%

	Nonminority-Female Firms	\$ 91,856	1.05%
	Total M/WBE Firms	\$ 191,161	2.17%
	Non-M/WBE Firms	\$ 8,598,797	97.83%
	Total Prime Procurement	\$ 8,789,958	100.00%

Winston-Salem State University	African-American Firms	\$ 1,286,080	1.06%
	Asian-American Firms	\$ 722,075	0.59%
	Hispanic-American Firms	\$ -	0.00%
	American Indian Firms	\$ -	0.00%
	Total MBE Firms	\$ 2,008,155	1.65%
	Nonminority-Female Firms	\$ 1,526,868	1.25%
	Total M/WBE Firms	\$ 3,535,023	2.90%
	Non-M/WBE Firms	\$ 118,193,141	97.10%
	Total Prime Procurement	\$ 121,728,164	100.00%

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APPENDIX E
DISPARITIES ON PROJECTS LESS THAN \$500,000
AND LESS THAN \$1,000,000

Appendix E – NC-CC/Univ Disparity for projects under \$500,000 and under \$1,000,000

The tables in Appendix E present disparity ratios on NC-CC/Univ projects by year over the Study Period for projects under \$500,000 (Tables E-1 through E-5) and under \$1,000,000 (Tables E-6 through E-10). The only overutilization was for Asian Americans in Goods (Tables E-5 and E-10). The tables are based on purchase order data.

Table E-1
Disparity Results (<\$500,000), Relevant Market Area
Business Ownership Classification by Fiscal Year, Prime Construction
Using Purchase Orders, FY 2014-2018
North Carolina Colleges & Universities Disparity Study

Fiscal Year	Business Ownership	Percent of Dollars	Percent of Available Firms	Disparity Index	Disparate Impact of Utilization	Less than 80%	Statistical Significance
2014	Black American	1.39%	14.65%	9.47	Underutilization	*	
	Asian American	0.03%	1.12%	2.75	Underutilization	*	
	Hispanic American	0.22%	4.38%	4.99	Underutilization	*	
	American Indian	0.06%	2.39%	2.46	Underutilization	*	
	TOTAL MBE	1.70%	22.54%	7.52	Underutilization	*	
	Nonminority Female	3.49%	13.64%	25.60	Underutilization	*	
	TOTAL M/WBE	5.19%	36.19%	14.34	Underutilization	*	
	Non-M/WBE	94.81%	63.81%	148.58	Overutilization		
2015	Black American	0.59%	14.65%	4.06	Underutilization	*	
	Asian American	0.17%	1.12%	15.38	Underutilization	*	
	Hispanic American	0.12%	4.38%	2.83	Underutilization	*	
	American Indian	0.14%	2.39%	5.66	Underutilization	*	
	TOTAL MBE	1.03%	22.54%	4.55	Underutilization	*	
	Nonminority Female	5.73%	13.64%	42.03	Underutilization	*	
	TOTAL M/WBE	6.76%	36.19%	18.68	Underutilization	*	
	Non-M/WBE	93.24%	63.81%	146.12	Overutilization		
2016	Black American	1.90%	14.65%	13.00	Underutilization	*	
	Asian American	0.10%	1.12%	9.00	Underutilization	*	
	Hispanic American	0.66%	4.38%	15.14	Underutilization	*	
	American Indian	0.21%	2.39%	8.62	Underutilization	*	
	TOTAL MBE	2.87%	22.54%	12.75	Underutilization	*	
	Nonminority Female	8.25%	13.64%	60.48	Underutilization	*	
	TOTAL M/WBE	11.13%	36.19%	30.75	Underutilization	*	
	Non-M/WBE	88.87%	63.81%	139.27	Overutilization		
2017	Black American	0.56%	14.65%	3.82	Underutilization	*	
	Asian American	0.07%	1.12%	6.48	Underutilization	*	
	Hispanic American	0.56%	4.38%	12.85	Underutilization	*	
	American Indian	0.33%	2.39%	13.78	Underutilization	*	
	TOTAL MBE	1.52%	22.54%	6.76	Underutilization	*	
	Nonminority Female	5.67%	13.64%	41.58	Underutilization	*	
	TOTAL M/WBE	7.20%	36.19%	19.89	Underutilization	*	
	Non-M/WBE	92.80%	63.81%	145.43	Overutilization		
2018	Black American	0.99%	14.65%	6.76	Underutilization	*	
	Asian American	0.01%	1.12%	1.15	Underutilization	*	
	Hispanic American	0.33%	4.38%	7.50	Underutilization	*	
	American Indian	0.94%	2.39%	39.45	Underutilization	*	
	TOTAL MBE	2.27%	22.54%	10.08	Underutilization	*	
	Nonminority Female	7.65%	13.64%	56.08	Underutilization	*	
	TOTAL M/WBE	9.92%	36.19%	27.43	Underutilization	*	
	Non-M/WBE	90.08%	63.81%	141.16	Overutilization		
Total	Black American	1.09%	14.65%	7.46	Underutilization	*	p <.05
	Asian American	0.08%	1.12%	7.14	Underutilization	*	p <.05
	Hispanic American	0.39%	4.38%	8.80	Underutilization	*	p <.05
	American Indian	0.31%	2.39%	13.12	Underutilization	*	p <.05
	TOTAL MBE	1.87%	22.54%	8.30	Underutilization	*	p <.05
	Nonminority Female	6.12%	13.64%	44.87	Underutilization	*	p <.05
	TOTAL M/WBE	7.99%	36.19%	22.09	Underutilization	*	p <.05
	Non-M/WBE	92.01%	63.81%	144.18	Overutilization		

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Table E-2
Disparity Results (<\$500,000), Relevant Market Area
Business Ownership Classification by Fiscal Year, Prime Architecture & Engineering
Using Purchase Orders, FY 2014-2018
North Carolina Colleges & Universities Disparity Study

Fiscal Year	Business Ownership	Percent of Dollars	Percent of Available Firms	Disparity Index	Disparate Impact of Utilization	Less than 80%	Statistical Significance
2014	Black American	1.77%	6.41%	27.63	Underutilization	*	
	Asian American	1.26%	2.42%	52.24	Underutilization	*	
	Hispanic American	0.56%	2.42%	23.24	Underutilization	*	
	American Indian	0.00%	1.21%	0.00	Underutilization	*	
	TOTAL MBE	3.60%	12.45%	28.87	Underutilization	*	
	Nonminority Female	11.96%	10.52%	113.74	Overutilization		
	TOTAL M/WBE	15.56%	22.97%	67.73	Underutilization	*	
	Non-M/WBE	84.44%	77.03%	109.63	Overutilization		
2015	Black American	0.22%	6.41%	3.46	Underutilization	*	
	Asian American	0.25%	2.42%	10.31	Underutilization	*	
	Hispanic American	0.19%	2.42%	7.75	Underutilization	*	
	American Indian	0.00%	1.21%	0.00	Underutilization	*	
	TOTAL MBE	0.66%	12.45%	5.29	Underutilization	*	
	Nonminority Female	6.99%	10.52%	66.46	Underutilization	*	
	TOTAL M/WBE	7.65%	22.97%	33.30	Underutilization	*	
	Non-M/WBE	92.35%	77.03%	119.90	Overutilization		
2016	Black American	2.54%	6.41%	39.63	Underutilization	*	
	Asian American	0.27%	2.42%	11.20	Underutilization	*	
	Hispanic American	1.01%	2.42%	41.72	Underutilization	*	
	American Indian	0.00%	1.21%	0.00	Underutilization	*	
	TOTAL MBE	3.82%	12.45%	30.67	Underutilization	*	
	Nonminority Female	6.93%	10.52%	65.86	Underutilization	*	
	TOTAL M/WBE	10.75%	22.97%	46.78	Underutilization	*	
	Non-M/WBE	89.25%	77.03%	115.87	Overutilization		
2017	Black American	2.90%	6.41%	45.25	Underutilization	*	
	Asian American	0.29%	2.42%	12.14	Underutilization	*	
	Hispanic American	1.18%	2.42%	48.91	Underutilization	*	
	American Indian	0.03%	1.21%	2.63	Underutilization	*	
	TOTAL MBE	4.41%	12.45%	35.39	Underutilization	*	
	Nonminority Female	9.64%	10.52%	91.65	Underutilization		
	TOTAL M/WBE	14.05%	22.97%	61.15	Underutilization	*	
	Non-M/WBE	85.95%	77.03%	111.59	Overutilization		
2018	Black American	0.26%	6.41%	4.02	Underutilization	*	
	Asian American	0.63%	2.42%	25.85	Underutilization	*	
	Hispanic American	0.37%	2.42%	15.34	Underutilization	*	
	American Indian	0.05%	1.21%	4.19	Underutilization	*	
	TOTAL MBE	1.30%	12.45%	10.47	Underutilization	*	
	Nonminority Female	7.05%	10.52%	67.02	Underutilization	*	
	TOTAL M/WBE	8.35%	22.97%	36.36	Underutilization	*	
	Non-M/WBE	91.65%	77.03%	118.98	Overutilization		
Total	Black American	1.64%	6.41%	25.63	Underutilization	*	p < .05
	Asian American	0.45%	2.42%	18.50	Underutilization	*	p < .05
	Hispanic American	0.71%	2.42%	29.33	Underutilization	*	p < .05
	American Indian	0.02%	1.21%	1.33	Underutilization	*	p < .05
	TOTAL MBE	2.82%	12.45%	22.61	Underutilization	*	p < .05
	Nonminority Female	8.24%	10.52%	78.30	Underutilization	*	p < .05
	TOTAL M/WBE	11.05%	22.97%	48.11	Underutilization	*	p < .05
	Non-M/WBE	88.95%	77.03%	115.48	Overutilization		

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Table E-3
Disparity Results (<\$500,000), Relevant Market Area
Business Ownership Classification by Fiscal Year, Prime Professional Services
Using Purchase Orders, FY 2014-2018
North Carolina Colleges & Universities Disparity Study

Fiscal Year	Business Ownership	Percent of Dollars	Percent of Available Firms	Disparity Index	Disparate Impact of Utilization	Less than 80%	Statistical Significance
2014	Black American	0.84%	18.42%	4.58	Underutilization	*	
	Asian American	0.04%	2.86%	1.41	Underutilization	*	
	Hispanic American	0.00%	2.00%	0.00	Underutilization	*	
	American Indian	0.00%	1.49%	0.00	Underutilization	*	
	TOTAL MBE	0.88%	24.77%	3.57	Underutilization	*	
	Nonminority Female	0.11%	9.55%	1.11	Underutilization	*	
	TOTAL M/WBE	0.99%	34.32%	2.89	Underutilization	*	
	Non-M/WBE	99.01%	65.68%	150.76	Overutilization		
2015	Black American	0.23%	18.42%	1.27	Underutilization	*	
	Asian American	0.39%	2.86%	13.67	Underutilization	*	
	Hispanic American	0.00%	2.00%	0.00	Underutilization	*	
	American Indian	0.00%	1.49%	0.00	Underutilization	*	
	TOTAL MBE	0.62%	24.77%	2.52	Underutilization	*	
	Nonminority Female	0.21%	9.55%	2.23	Underutilization	*	
	TOTAL M/WBE	0.84%	34.32%	2.44	Underutilization	*	
	Non-M/WBE	99.16%	65.68%	150.99	Overutilization		
2016	Black American	0.77%	18.42%	4.15	Underutilization	*	
	Asian American	0.00%	2.86%	0.00	Underutilization	*	
	Hispanic American	0.00%	2.00%	0.00	Underutilization	*	
	American Indian	0.00%	1.49%	0.00	Underutilization	*	
	TOTAL MBE	0.77%	24.77%	3.09	Underutilization	*	
	Nonminority Female	0.29%	9.55%	3.03	Underutilization	*	
	TOTAL M/WBE	1.05%	34.32%	3.07	Underutilization	*	
	Non-M/WBE	98.95%	65.68%	150.66	Overutilization		
2017	Black American	0.57%	18.42%	3.09	Underutilization	*	
	Asian American	0.00%	2.86%	0.00	Underutilization	*	
	Hispanic American	0.00%	2.00%	0.00	Underutilization	*	
	American Indian	0.00%	1.49%	0.00	Underutilization	*	
	TOTAL MBE	0.57%	24.77%	2.30	Underutilization	*	
	Nonminority Female	0.45%	9.55%	4.73	Underutilization	*	
	TOTAL M/WBE	1.02%	34.32%	2.97	Underutilization	*	
	Non-M/WBE	98.98%	65.68%	150.71	Overutilization		
2018	Black American	0.07%	18.42%	0.39	Underutilization	*	
	Asian American	0.00%	2.86%	0.00	Underutilization	*	
	Hispanic American	0.00%	2.00%	0.00	Underutilization	*	
	American Indian	0.00%	1.49%	0.00	Underutilization	*	
	TOTAL MBE	0.07%	24.77%	0.29	Underutilization	*	
	Nonminority Female	0.68%	9.55%	7.07	Underutilization	*	
	TOTAL M/WBE	0.75%	34.32%	2.17	Underutilization	*	
	Non-M/WBE	99.25%	65.68%	151.13	Overutilization		
Total	Black American	0.51%	18.42%	2.79	Underutilization	*	p < .05
	Asian American	0.08%	2.86%	2.86	Underutilization	*	p < .05
	Hispanic American	0.00%	2.00%	0.00	Underutilization	*	p < .05
	American Indian	0.00%	1.49%	0.00	Underutilization	*	p < .05
	TOTAL MBE	0.60%	24.77%	2.40	Underutilization	*	p < .05
	Nonminority Female	0.35%	9.55%	3.62	Underutilization	*	p < .05
	TOTAL M/WBE	0.94%	34.32%	2.74	Underutilization	*	p < .05
	Non-M/WBE	99.06%	65.68%	150.83	Overutilization		

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Table E-4
Disparity Results (<\$500,000), Relevant Market Area
Business Ownership Classification by Fiscal Year, Prime Other Services
Using Purchase Orders, FY 2014-2018
North Carolina Colleges & Universities Disparity Study

Fiscal Year	Business Ownership	Percent of Dollars	Percent of Available Firms	Disparity Index	Disparate Impact of Utilization	Less than 80%	Statistical Significance
2014	Black American	0.03%	15.86%	0.18	Underutilization	*	
	Asian American	0.00%	1.30%	0.00	Underutilization	*	
	Hispanic American	0.01%	1.72%	0.79	Underutilization	*	
	American Indian	0.00%	0.69%	0.00	Underutilization	*	
	TOTAL MBE	0.04%	19.57%	0.21	Underutilization	*	
	Nonminority Female	1.41%	9.05%	15.56	Underutilization	*	
	TOTAL M/WBE	1.45%	28.62%	5.07	Underutilization	*	
	Non-M/WBE	98.55%	71.38%	138.06	Overutilization		
2015	Black American	0.02%	15.86%	0.10	Underutilization	*	
	Asian American	0.00%	1.30%	0.00	Underutilization	*	
	Hispanic American	0.05%	1.72%	2.95	Underutilization	*	
	American Indian	0.00%	0.69%	0.00	Underutilization	*	
	TOTAL MBE	0.07%	19.57%	0.34	Underutilization	*	
	Nonminority Female	1.82%	9.05%	20.05	Underutilization	*	
	TOTAL M/WBE	1.88%	28.62%	6.57	Underutilization	*	
	Non-M/WBE	98.12%	71.38%	137.46	Overutilization		
2016	Black American	0.03%	15.86%	0.21	Underutilization	*	
	Asian American	0.05%	1.30%	4.02	Underutilization	*	
	Hispanic American	0.10%	1.72%	5.67	Underutilization	*	
	American Indian	0.00%	0.69%	0.00	Underutilization	*	
	TOTAL MBE	0.18%	19.57%	0.93	Underutilization	*	
	Nonminority Female	1.99%	9.05%	22.03	Underutilization	*	
	TOTAL M/WBE	2.18%	28.62%	7.61	Underutilization	*	
	Non-M/WBE	97.82%	71.38%	137.04	Overutilization		
2017	Black American	0.01%	15.86%	0.08	Underutilization	*	
	Asian American	0.26%	1.30%	20.05	Underutilization	*	
	Hispanic American	0.04%	1.72%	2.51	Underutilization	*	
	American Indian	0.00%	0.69%	0.00	Underutilization	*	
	TOTAL MBE	0.32%	19.57%	1.62	Underutilization	*	
	Nonminority Female	2.67%	9.05%	29.50	Underutilization	*	
	TOTAL M/WBE	2.99%	28.62%	10.44	Underutilization	*	
	Non-M/WBE	97.01%	71.38%	135.91	Overutilization		
2018	Black American	0.14%	15.86%	0.86	Underutilization	*	
	Asian American	0.00%	1.30%	0.00	Underutilization	*	
	Hispanic American	0.04%	1.72%	2.15	Underutilization	*	
	American Indian	0.00%	0.69%	0.00	Underutilization	*	
	TOTAL MBE	0.17%	19.57%	0.89	Underutilization	*	
	Nonminority Female	2.61%	9.05%	28.80	Underutilization	*	
	TOTAL M/WBE	2.78%	28.62%	9.72	Underutilization	*	
	Non-M/WBE	97.22%	71.38%	136.20	Overutilization		
Total	Black American	0.04%	15.86%	0.26	Underutilization	*	p < .05
	Asian American	0.07%	1.30%	5.62	Underutilization	*	p < .05
	Hispanic American	0.05%	1.72%	3.04	Underutilization	*	p < .05
	American Indian	0.00%	0.69%	0.00	Underutilization	*	p < .05
	TOTAL MBE	0.17%	19.57%	0.85	Underutilization	*	p < .05
	Nonminority Female	2.14%	9.05%	23.64	Underutilization	*	p < .05
	TOTAL M/WBE	2.31%	28.62%	8.06	Underutilization	*	p < .05
	Non-M/WBE	97.69%	71.38%	136.86	Overutilization		

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Table E-5
Disparity Results (<\$500,000), Relevant Market Area
Business Ownership Classification by Fiscal Year, Prime Goods
Using Purchase Orders, FY 2014-2018
North Carolina Colleges & Universities Disparity Study

Fiscal Year	Business Ownership	Percent of Dollars	Percent of Available Firms	Disparity Index	Disparate Impact of Utilization	Less than 80%	Statistical Significance
2014	Black American	6.03%	8.18%	73.79	Underutilization	*	
	Asian American	1.34%	1.09%	122.82	Overutilization		
	Hispanic American	0.01%	1.71%	0.74	Underutilization	*	
	American Indian	0.00%	0.68%	0.00	Underutilization	*	
	TOTAL MBE	7.39%	11.65%	63.42	Underutilization	*	
	Nonminority Female	1.70%	9.27%	18.33	Underutilization	*	
	TOTAL M/WBE	9.09%	20.93%	43.44	Underutilization	*	
	Non-M/WBE	90.91%	79.07%	114.97	Overutilization		
2015	Black American	1.42%	8.18%	17.36	Underutilization	*	
	Asian American	1.64%	1.09%	149.52	Overutilization		
	Hispanic American	0.09%	1.71%	5.53	Underutilization	*	
	American Indian	0.00%	0.68%	0.00	Underutilization	*	
	TOTAL MBE	3.15%	11.65%	27.03	Underutilization	*	
	Nonminority Female	2.28%	9.27%	24.58	Underutilization	*	
	TOTAL M/WBE	5.43%	20.93%	25.95	Underutilization	*	
	Non-M/WBE	94.57%	79.07%	119.60	Overutilization		
2016	Black American	13.60%	8.18%	166.31	Overutilization		
	Asian American	4.89%	1.09%	446.36	Overutilization		
	Hispanic American	0.08%	1.71%	4.86	Underutilization	*	
	American Indian	0.02%	0.68%	2.50	Underutilization	*	
	TOTAL MBE	18.59%	11.65%	159.47	Overutilization		
	Nonminority Female	2.00%	9.27%	21.56	Underutilization	*	
	TOTAL M/WBE	20.58%	20.93%	98.36	Underutilization		
	Non-M/WBE	79.42%	79.07%	100.43	Overutilization		
2017	Black American	0.33%	8.18%	4.00	Underutilization	*	
	Asian American	4.02%	1.09%	366.86	Overutilization		
	Hispanic American	0.22%	1.71%	12.67	Underutilization	*	
	American Indian	0.00%	0.68%	0.00	Underutilization	*	
	TOTAL MBE	4.56%	11.65%	39.12	Underutilization	*	
	Nonminority Female	2.77%	9.27%	29.86	Underutilization	*	
	TOTAL M/WBE	7.33%	20.93%	35.02	Underutilization	*	
	Non-M/WBE	92.67%	79.07%	117.20	Overutilization		
2018	Black American	0.06%	8.18%	0.73	Underutilization	*	
	Asian American	1.29%	1.09%	117.91	Overutilization		
	Hispanic American	1.09%	1.71%	64.02	Underutilization	*	
	American Indian	0.00%	0.68%	0.00	Underutilization	*	
	TOTAL MBE	2.44%	11.65%	20.96	Underutilization	*	
	Nonminority Female	2.05%	9.27%	22.13	Underutilization	*	
	TOTAL M/WBE	4.50%	20.93%	21.48	Underutilization	*	
	Non-M/WBE	95.50%	79.07%	120.78	Overutilization		
Total	Black American	4.78%	8.18%	58.47	Underutilization	*	p < .05
	Asian American	2.90%	1.09%	264.76	Overutilization		
	Hispanic American	0.25%	1.71%	14.49	Underutilization	*	p < .05
	American Indian	0.00%	0.68%	0.63	Underutilization	*	p < .05
	TOTAL MBE	7.93%	11.65%	68.05	Underutilization	*	p < .05
	Nonminority Female	2.20%	9.27%	23.68	Underutilization	*	p < .05
	TOTAL M/WBE	10.13%	20.93%	48.39	Underutilization	*	p < .05
	Non-M/WBE	89.87%	79.07%	113.66	Overutilization		

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Table E-6
Disparity Results (<\$1,000,000), Relevant Market Area
Business Ownership Classification by Fiscal Year, Prime Construction
Using Purchase Orders, FY 2014-2018
North Carolina Colleges & Universities Disparity Study

Fiscal Year	Business Ownership	Percent of Dollars	Percent of Available Firms	Disparity Index	Disparate Impact of Utilization	Less than 80%	Statistical Significance
2014	Black American	2.21%	14.65%	15.06	Underutilization	*	
	Asian American	0.03%	1.12%	2.33	Underutilization	*	
	Hispanic American	0.18%	4.38%	4.22	Underutilization	*	
	American Indian	0.05%	2.39%	2.09	Underutilization	*	
	TOTAL MBE	2.47%	22.54%	10.95	Underutilization	*	
	Nonminority Female	3.71%	13.64%	27.17	Underutilization	*	
	TOTAL M/WBE	6.17%	36.19%	17.06	Underutilization	*	
	Non-M/WBE	93.83%	63.81%	147.03	Overutilization		
2015	Black American	1.20%	14.65%	8.21	Underutilization	*	
	Asian American	0.13%	1.12%	11.56	Underutilization	*	
	Hispanic American	0.09%	4.38%	2.13	Underutilization	*	
	American Indian	0.10%	2.39%	4.25	Underutilization	*	
	TOTAL MBE	1.53%	22.54%	6.77	Underutilization	*	
	Nonminority Female	7.65%	13.64%	56.07	Underutilization	*	
	TOTAL M/WBE	9.18%	36.19%	25.36	Underutilization	*	
	Non-M/WBE	90.82%	63.81%	142.33	Overutilization		
2016	Black American	1.56%	14.65%	10.67	Underutilization	*	
	Asian American	0.08%	1.12%	7.39	Underutilization	*	
	Hispanic American	0.54%	4.38%	12.43	Underutilization	*	
	American Indian	0.17%	2.39%	7.08	Underutilization	*	
	TOTAL MBE	2.36%	22.54%	10.47	Underutilization	*	
	Nonminority Female	6.77%	13.64%	49.65	Underutilization	*	
	TOTAL M/WBE	9.13%	36.19%	25.24	Underutilization	*	
	Non-M/WBE	90.87%	63.81%	142.40	Overutilization		
2017	Black American	0.46%	14.65%	3.13	Underutilization	*	
	Asian American	0.06%	1.12%	5.31	Underutilization	*	
	Hispanic American	0.46%	4.38%	10.54	Underutilization	*	
	American Indian	0.27%	2.39%	11.30	Underutilization	*	
	TOTAL MBE	1.25%	22.54%	5.55	Underutilization	*	
	Nonminority Female	5.37%	13.64%	39.38	Underutilization	*	
	TOTAL M/WBE	6.62%	36.19%	18.30	Underutilization	*	
	Non-M/WBE	93.38%	63.81%	146.33	Overutilization		
2018	Black American	0.83%	14.65%	5.63	Underutilization	*	
	Asian American	0.01%	1.12%	0.96	Underutilization	*	
	Hispanic American	0.27%	4.38%	6.25	Underutilization	*	
	American Indian	0.78%	2.39%	32.89	Underutilization	*	
	TOTAL MBE	1.90%	22.54%	8.41	Underutilization	*	
	Nonminority Female	7.63%	13.64%	55.91	Underutilization	*	
	TOTAL M/WBE	9.52%	36.19%	26.32	Underutilization	*	
	Non-M/WBE	90.48%	63.81%	141.78	Overutilization		
Total	Black American	1.25%	14.65%	8.56	Underutilization	*	p <.05
	Asian American	0.07%	1.12%	5.80	Underutilization	*	p <.05
	Hispanic American	0.31%	4.38%	7.15	Underutilization	*	p <.05
	American Indian	0.25%	2.39%	10.66	Underutilization	*	p <.05
	TOTAL MBE	1.89%	22.54%	8.37	Underutilization	*	p <.05
	Nonminority Female	6.21%	13.64%	45.51	Underutilization	*	p <.05
	TOTAL M/WBE	8.10%	36.19%	22.38	Underutilization	*	p <.05
	Non-M/WBE	91.90%	63.81%	144.02	Overutilization		

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Table E-7
Disparity Results (<\$1,000,000), Relevant Market Area
Business Ownership Classification by Fiscal Year, Prime Architecture & Engineering
Using Purchase Orders, FY 2014-2018
North Carolina Colleges & Universities Disparity Study

Fiscal Year	Business Ownership	Percent of Dollars	Percent of Available Firms	Disparity Index	Disparate Impact of Utilization	Less than 80%	Statistical Significance
2014	Black American	1.23%	6.41%	19.15	Underutilization	*	
	Asian American	0.88%	2.42%	36.21	Underutilization	*	
	Hispanic American	0.39%	2.42%	16.11	Underutilization	*	
	American Indian	0.00%	1.21%	0.00	Underutilization	*	
	TOTAL MBE	2.49%	12.45%	20.01	Underutilization	*	
	Nonminority Female	8.29%	10.52%	78.84	Underutilization	*	
	TOTAL M/WBE	10.79%	22.97%	46.95	Underutilization	*	
	Non-M/WBE	89.21%	77.03%	115.82	Overutilization		
2015	Black American	0.17%	6.41%	2.60	Underutilization	*	
	Asian American	0.19%	2.42%	7.75	Underutilization	*	
	Hispanic American	0.14%	2.42%	5.83	Underutilization	*	
	American Indian	0.00%	1.21%	0.00	Underutilization	*	
	TOTAL MBE	0.50%	12.45%	3.98	Underutilization	*	
	Nonminority Female	5.26%	10.52%	49.97	Underutilization	*	
	TOTAL M/WBE	5.75%	22.97%	25.04	Underutilization	*	
	Non-M/WBE	94.25%	77.03%	122.36	Overutilization		
2016	Black American	1.88%	6.41%	29.41	Underutilization	*	
	Asian American	0.20%	2.42%	8.31	Underutilization	*	
	Hispanic American	0.75%	2.42%	30.96	Underutilization	*	
	American Indian	0.00%	1.21%	0.00	Underutilization	*	
	TOTAL MBE	2.83%	12.45%	22.76	Underutilization	*	
	Nonminority Female	5.14%	10.52%	48.88	Underutilization	*	
	TOTAL M/WBE	7.98%	22.97%	34.72	Underutilization	*	
	Non-M/WBE	92.02%	77.03%	119.47	Overutilization		
2017	Black American	2.47%	6.41%	38.52	Underutilization	*	
	Asian American	0.25%	2.42%	10.34	Underutilization	*	
	Hispanic American	1.01%	2.42%	41.64	Underutilization	*	
	American Indian	0.03%	1.21%	2.24	Underutilization	*	
	TOTAL MBE	3.75%	12.45%	30.13	Underutilization	*	
	Nonminority Female	8.21%	10.52%	78.02	Underutilization	*	
	TOTAL M/WBE	11.96%	22.97%	52.06	Underutilization	*	
	Non-M/WBE	88.04%	77.03%	114.30	Overutilization		
2018	Black American	0.15%	6.41%	2.33	Underutilization	*	
	Asian American	0.36%	2.42%	15.03	Underutilization	*	
	Hispanic American	0.22%	2.42%	8.92	Underutilization	*	
	American Indian	0.03%	1.21%	2.44	Underutilization	*	
	TOTAL MBE	0.76%	12.45%	6.09	Underutilization	*	
	Nonminority Female	4.10%	10.52%	38.97	Underutilization	*	
	TOTAL M/WBE	4.86%	22.97%	21.14	Underutilization	*	
	Non-M/WBE	95.14%	77.03%	123.52	Overutilization		
Total	Black American	1.20%	6.41%	18.68	Underutilization	*	p < .05
	Asian American	0.33%	2.42%	13.48	Underutilization	*	p < .05
	Hispanic American	0.52%	2.42%	21.38	Underutilization	*	p < .05
	American Indian	0.01%	1.21%	0.97	Underutilization	*	p < .05
	TOTAL MBE	2.05%	12.45%	16.47	Underutilization	*	p < .05
	Nonminority Female	6.00%	10.52%	57.07	Underutilization	*	p < .05
	TOTAL M/WBE	8.06%	22.97%	35.06	Underutilization	*	p < .05
	Non-M/WBE	91.94%	77.03%	119.37	Overutilization		

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Table E-8
Disparity Results (<\$1,000,000), Relevant Market Area
Business Ownership Classification by Fiscal Year, Prime Professional Services
Using Purchase Orders, FY 2014-2018
North Carolina Colleges & Universities Disparity Study

Fiscal Year	Business Ownership	Percent of Dollars	Percent of Available Firms	Disparity Index	Disparate Impact of Utilization	Less than 80%	Statistical Significance
2014	Black American	0.69%	18.42%	3.72	Underutilization	*	
	Asian American	0.03%	2.86%	1.15	Underutilization	*	
	Hispanic American	0.00%	2.00%	0.00	Underutilization	*	
	American Indian	0.00%	1.49%	0.00	Underutilization	*	
	TOTAL MBE	0.72%	24.77%	2.90	Underutilization	*	
	Nonminority Female	0.09%	9.55%	0.90	Underutilization	*	
	TOTAL M/WBE	0.80%	34.32%	2.34	Underutilization	*	
	Non-M/WBE	99.20%	65.68%	151.04	Overutilization		
2015	Black American	0.17%	18.42%	0.94	Underutilization	*	
	Asian American	0.29%	2.86%	10.14	Underutilization	*	
	Hispanic American	0.00%	2.00%	0.00	Underutilization	*	
	American Indian	0.00%	1.49%	0.00	Underutilization	*	
	TOTAL MBE	0.46%	24.77%	1.87	Underutilization	*	
	Nonminority Female	0.16%	9.55%	1.66	Underutilization	*	
	TOTAL M/WBE	0.62%	34.32%	1.81	Underutilization	*	
	Non-M/WBE	99.38%	65.68%	151.32	Overutilization		
2016	Black American	0.55%	18.42%	2.98	Underutilization	*	
	Asian American	0.00%	2.86%	0.00	Underutilization	*	
	Hispanic American	0.00%	2.00%	0.00	Underutilization	*	
	American Indian	0.00%	1.49%	0.00	Underutilization	*	
	TOTAL MBE	0.55%	24.77%	2.22	Underutilization	*	
	Nonminority Female	0.21%	9.55%	2.18	Underutilization	*	
	TOTAL M/WBE	0.76%	34.32%	2.21	Underutilization	*	
	Non-M/WBE	99.24%	65.68%	151.11	Overutilization		
2017	Black American	0.42%	18.42%	2.31	Underutilization	*	
	Asian American	0.00%	2.86%	0.00	Underutilization	*	
	Hispanic American	0.00%	2.00%	0.00	Underutilization	*	
	American Indian	0.00%	1.49%	0.00	Underutilization	*	
	TOTAL MBE	0.42%	24.77%	1.71	Underutilization	*	
	Nonminority Female	0.34%	9.55%	3.53	Underutilization	*	
	TOTAL M/WBE	0.76%	34.32%	2.22	Underutilization	*	
	Non-M/WBE	99.24%	65.68%	151.11	Overutilization		
2018	Black American	0.04%	18.42%	0.23	Underutilization	*	
	Asian American	0.00%	2.86%	0.00	Underutilization	*	
	Hispanic American	0.00%	2.00%	0.00	Underutilization	*	
	American Indian	0.00%	1.49%	0.00	Underutilization	*	
	TOTAL MBE	0.04%	24.77%	0.17	Underutilization	*	
	Nonminority Female	0.39%	9.55%	4.13	Underutilization	*	
	TOTAL M/WBE	0.44%	34.32%	1.27	Underutilization	*	
	Non-M/WBE	99.56%	65.68%	151.60	Overutilization		
Total	Black American	0.37%	18.42%	1.99	Underutilization	*	p < .05
	Asian American	0.06%	2.86%	2.04	Underutilization	*	p < .05
	Hispanic American	0.00%	2.00%	0.00	Underutilization	*	p < .05
	American Indian	0.00%	1.49%	0.00	Underutilization	*	p < .05
	TOTAL MBE	0.43%	24.77%	1.72	Underutilization	*	p < .05
	Nonminority Female	0.25%	9.55%	2.58	Underutilization	*	p < .05
	TOTAL M/WBE	0.67%	34.32%	1.96	Underutilization	*	p < .05
	Non-M/WBE	99.33%	65.68%	151.24	Overutilization		

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Table E-9
Disparity Results (<\$1,000,000), Relevant Market Area
Business Ownership Classification by Fiscal Year, Prime Other Services
Using Purchase Orders, FY 2014-2018
North Carolina Colleges & Universities Disparity Study

Fiscal Year	Business Ownership	Percent of Dollars	Percent of Available Firms	Disparity Index	Disparate Impact of Utilization	Less than 80%	Statistical Significance
2014	Black American	0.02%	15.86%	0.12	Underutilization	*	
	Asian American	1.01%	1.30%	77.94	Underutilization	*	
	Hispanic American	0.01%	1.72%	0.52	Underutilization	*	
	American Indian	0.00%	0.69%	0.00	Underutilization	*	
	TOTAL MBE	1.04%	19.57%	5.32	Underutilization	*	
	Nonminority Female	2.73%	9.05%	30.17	Underutilization	*	
	TOTAL M/WBE	3.77%	28.62%	13.18	Underutilization	*	
	Non-M/WBE	96.23%	71.38%	134.81	Overutilization		
2015	Black American	0.01%	15.86%	0.07	Underutilization	*	
	Asian American	0.58%	1.30%	44.37	Underutilization	*	
	Hispanic American	0.04%	1.72%	2.15	Underutilization	*	
	American Indian	0.00%	0.69%	0.00	Underutilization	*	
	TOTAL MBE	0.63%	19.57%	3.20	Underutilization	*	
	Nonminority Female	1.32%	9.05%	14.60	Underutilization	*	
	TOTAL M/WBE	1.95%	28.62%	6.80	Underutilization	*	
	Non-M/WBE	98.05%	71.38%	137.36	Overutilization		
2016	Black American	0.02%	15.86%	0.15	Underutilization	*	
	Asian American	0.04%	1.30%	2.85	Underutilization	*	
	Hispanic American	0.07%	1.72%	4.02	Underutilization	*	
	American Indian	0.00%	0.69%	0.00	Underutilization	*	
	TOTAL MBE	0.13%	19.57%	0.66	Underutilization	*	
	Nonminority Female	1.41%	9.05%	15.63	Underutilization	*	
	TOTAL M/WBE	1.54%	28.62%	5.40	Underutilization	*	
	Non-M/WBE	98.46%	71.38%	137.93	Overutilization		
2017	Black American	0.01%	15.86%	0.07	Underutilization	*	
	Asian American	0.21%	1.30%	16.19	Underutilization	*	
	Hispanic American	0.03%	1.72%	2.03	Underutilization	*	
	American Indian	0.00%	0.69%	0.00	Underutilization	*	
	TOTAL MBE	0.26%	19.57%	1.31	Underutilization	*	
	Nonminority Female	2.16%	9.05%	23.82	Underutilization	*	
	TOTAL M/WBE	2.41%	28.62%	8.43	Underutilization	*	
	Non-M/WBE	97.59%	71.38%	136.71	Overutilization		
2018	Black American	0.10%	15.86%	0.62	Underutilization	*	
	Asian American	0.00%	1.30%	0.00	Underutilization	*	
	Hispanic American	0.03%	1.72%	1.54	Underutilization	*	
	American Indian	0.00%	0.69%	0.00	Underutilization	*	
	TOTAL MBE	0.12%	19.57%	0.64	Underutilization	*	
	Nonminority Female	3.48%	9.05%	38.41	Underutilization	*	
	TOTAL M/WBE	3.60%	28.62%	12.58	Underutilization	*	
	Non-M/WBE	96.40%	71.38%	135.05	Overutilization		
Total	Black American	0.03%	15.86%	0.19	Underutilization	*	p < .05
	Asian American	0.34%	1.30%	25.91	Underutilization	*	p < .05
	Hispanic American	0.04%	1.72%	2.21	Underutilization	*	p < .05
	American Indian	0.00%	0.69%	0.00	Underutilization	*	p < .05
	TOTAL MBE	0.41%	19.57%	2.07	Underutilization	*	p < .05
	Nonminority Female	2.11%	9.05%	23.27	Underutilization	*	p < .05
	TOTAL M/WBE	2.51%	28.62%	8.78	Underutilization	*	p < .05
	Non-M/WBE	97.49%	71.38%	136.57	Overutilization		

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Table E-10
Disparity Results (<\$500,000), Relevant Market Area
Business Ownership Classification by Fiscal Year, Prime Goods
Using Purchase Orders, FY 2014-2018
North Carolina Colleges & Universities Disparity Study

Fiscal Year	Business Ownership	Percent of Dollars	Percent of Available Firms	Disparity Index	Disparate Impact of Utilization	Less than 80%	Statistical Significance
2014	Black American	3.90%	8.18%	47.68	Underutilization	*	
	Asian American	0.87%	1.09%	79.36	Underutilization	*	
	Hispanic American	0.87%	1.71%	50.98	Underutilization	*	
	American Indian	0.00%	0.68%	0.00	Underutilization	*	
	TOTAL MBE	5.64%	11.65%	48.37	Underutilization	*	
	Nonminority Female	2.05%	9.27%	22.13	Underutilization	*	
	TOTAL M/WBE	7.69%	20.93%	36.75	Underutilization	*	
	Non-M/WBE	92.31%	79.07%	116.74	Overutilization		
2015	Black American	1.11%	8.18%	13.58	Underutilization	*	
	Asian American	1.28%	1.09%	116.98	Overutilization		
	Hispanic American	0.14%	1.71%	8.17	Underutilization	*	
	American Indian	0.00%	0.68%	0.00	Underutilization	*	
	TOTAL MBE	2.53%	11.65%	21.71	Underutilization	*	
	Nonminority Female	1.90%	9.27%	20.47	Underutilization	*	
	TOTAL M/WBE	4.43%	20.93%	21.16	Underutilization	*	
	Non-M/WBE	95.57%	79.07%	120.86	Overutilization		
2016	Black American	10.88%	8.18%	133.01	Overutilization		
	Asian American	4.42%	1.09%	404.21	Overutilization		
	Hispanic American	0.18%	1.71%	10.61	Underutilization	*	
	American Indian	0.01%	0.68%	1.85	Underutilization	*	
	TOTAL MBE	15.50%	11.65%	132.95	Overutilization		
	Nonminority Female	2.21%	9.27%	23.81	Underutilization	*	
	TOTAL M/WBE	17.70%	20.93%	84.59	Underutilization		
	Non-M/WBE	82.30%	79.07%	104.08	Overutilization		
2017	Black American	0.26%	8.18%	3.19	Underutilization	*	
	Asian American	3.75%	1.09%	342.12	Overutilization		
	Hispanic American	0.47%	1.71%	27.28	Underutilization	*	
	American Indian	0.00%	0.68%	0.00	Underutilization	*	
	TOTAL MBE	4.47%	11.65%	38.37	Underutilization	*	
	Nonminority Female	2.42%	9.27%	26.06	Underutilization	*	
	TOTAL M/WBE	6.89%	20.93%	32.92	Underutilization	*	
	Non-M/WBE	93.11%	79.07%	117.75	Overutilization		
2018	Black American	0.04%	8.18%	0.48	Underutilization	*	
	Asian American	0.85%	1.09%	77.25	Underutilization	*	
	Hispanic American	0.82%	1.71%	47.77	Underutilization	*	
	American Indian	0.00%	0.68%	0.00	Underutilization	*	
	TOTAL MBE	1.70%	11.65%	14.59	Underutilization	*	
	Nonminority Female	1.52%	9.27%	16.37	Underutilization	*	
	TOTAL M/WBE	3.22%	20.93%	15.38	Underutilization	*	
	Non-M/WBE	96.78%	79.07%	122.40	Overutilization		
Total	Black American	3.70%	8.18%	45.20	Underutilization	*	p < .05
	Asian American	2.43%	1.09%	222.02	Overutilization		
	Hispanic American	0.45%	1.71%	26.58	Underutilization	*	p < .05
	American Indian	0.00%	0.68%	0.46	Underutilization	*	p < .05
	TOTAL MBE	6.58%	11.65%	56.49	Underutilization	*	p < .05
	Nonminority Female	2.05%	9.27%	22.10	Underutilization	*	p < .05
	TOTAL M/WBE	8.63%	20.93%	41.25	Underutilization	*	p < .05
	Non-M/WBE	91.37%	79.07%	115.55	Overutilization		

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