The Economic Impacts and Occupational Analysis of the North Carolina Motorsports Industry for 2005

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Section 1: Introduction

Background: This study is a follow-up of an earlier study on the economic impact of the motorsports industry in North Carolina. That study was released in September of 2004 and was based on data that was collected in the 2003 calendar year. This study is based on data collected for the motorsports industry in North Carolina for the 2005 calendar year and provides an update on the economic impact and a two-year growth analysis. In addition to the two-year follow-up of the original study, this study also adds occupational breakdowns of the various sectors within the motorsports industry and also provides educational requirements within the occupations by motorsports sector. The 2004 study contains a complete analysis of the unique character of the motorsports industry and the problems associated with estimating a diverse industry. The 2004 study is available at the following website:

http://www.belkcollege.uncc.edu/news/motorsports.htm.

In general, the economic principles that drive the decisions and choices of motorsports related manufacturing and service industries are the same as for other industries. The tendency of firms within any industry is to cluster in a particular region. This tendency is known as industrial agglomeration or clustering. These agglomerations have been widely studied by various researchers and although the origins of cluster theory are not precisely known, Michael Porter's The Competitive Advantage of Nations (New York: Basic Books, 1990) has widely publicized the use of the term *industrial cluster*.

An industry cluster is a group of companies that are related through at least one of the following types of relationships:

- 1. Buyer-Supplier Relationships
- 2. Competitor and Collaborator Relationships
- 3. Shared Resources Relationships

In addition to these relationships, geographic proximity plays a key role in the formation of industrial clusters. These industrial clusters can be observed worldwide and are found in a variety of industries. The reasons for such clustering of firms are widely debated, but not material to this study. In the specific case of motorsports, the example of the British motorsports industry is well known and has been studied by several interest groups. Virtually the entire

British motorsports industry is clustered within a fifty-mile radius around Oxford in Southern England. The region has been named "Silicon Valley of Motor Sport" or simply "Motor Sport Valley". Approximately three quarters of the world's single seat racing cars are designed and assembled in the region. The production of equipment is focused on Formula One, Championship Auto Racing, Indy Racing League, as well as Rally cars.

A similar regional concentration of motorsports related industries can be found in North Carolina with the main difference being that most of the economic activity is tied to NASCAR. The Southeastern part of the United States has traditionally been viewed as the cradle of stock car racing, a sport that has seen a tremendous gain in popularity with a continuously expanding audience. NASCAR has expanded out of its traditional geographic region and grown to be the second most popular sport watched on television in the U.S. Traditionally, North Carolina has been the home of most NASCAR teams and together with its race tracks and events, the state has experienced the development of a sizable industrial cluster. The rapid growth of the motorsports cluster in North Carolina has been the result of the increased popularity of the sport itself as well as the historical advantage of a specialized labor pool, a well developed supplier chain, infrastructure in the form of race tracks and testing facilities, and a culture of stock car racing. **Previous Studies:** For those interested in previous economic impact studies related to the motorsports industry, the following is a selection of previous research: The Economic Impact of the European Grand Prix, which is an economic impact study approximating the effects of the European Grand Prix on the European Union. The study was conduced in 1999 by William Lilley II and Laurence J. DeFranco. The Economic Impact of the 2002 FIA Foster's British Grand Prix, which was a report done by the Motorsport Industry Association in 2003. The National Survey of Motorsport Engineering and Services, which is a full overview of the UK motor sport industry. The research was carried out by various universities within the UK. The Economic Impact of the Network Q Rally of Great Britain, which is an economic impact study of the event conducted by William Lilley III and Laurence J. DeFranco conducted in 1998. An Impact Analysis of the Dragons Ridge Motorsports Park on the Economy of New Kent County, Virginia, conducted by Chmura Economics & Analytics in 2003. Hampton Motorsports Complex Impact Study, which was conducted in 2003 by Frost Motorsports, LLC. USA Motorsport Market Research Report, conducted by Motorsports Research Associates in 2002. Economic Impact Analysis Proposed Autoracing Complex in Immokalee, Florida, which was prepared by Bernhard Weinstein and Terry Clower in 2000. The Economic Impact of Lowe's Motor Speedway on the

Cabarrus, Iredell and Mecklenburg County Economies, prepared by John Connaughton in 2000. The Economic Impact of Sports on the North Carolina Economy, prepared by John Connaughton in 1997. The Economic Impacts of the Motorsports Industry On the North Carolina Economy, prepared by John E. Connaughton, Ronald A. Madsen, John M. Gandar, Joseph D. Arthur, and Alain A. Krapl in 2004. Motorsports Industry in the Indianapolis Region, prepared by the Center for Urban Policy and the Environment at Indiana University-Purdue University Indianapolis in 2004.

Section 2: Study Methodology

Data Collection: Most industries in the U.S. economy have their own unique industry classification. U.S. industries are currently classified using the North American Industrial Classification System (NAICS). This system recently replaced the Standard Industrial Classification (SIC) system. These industrial classification systems assign firms a code based on the product or service the firm produces. This allows both the U.S. Bureau of Economic Analysis (BEA), which collects and publishes output and income data, and the U.S. Bureau of Labor Statistics (BLS), which collects and publishes employment and wage data, to compute total output, income, employment, and wages by a common industry code. The objective is for NAICS to provide aggregate industry specific data for homogeneous firm groupings.

However, some industry concepts, such as the motorsports industry, are not comprised of homogeneous firms within a unique NAICS code. The motorsports industry is comprised of firms that are classified in over forty different NAICS codes, based on the product or service they provide. An additional complication is that not all of the firms within each of these industry codes produce goods or services related to motorsports. As a result, there is no secondary motorsports data source for output, income, employment, or wages. This requires collection of primary data in order to estimate the size and impact of the motorsports industry.

In this study, the primary data collection consisted of several different techniques. First, firms located in North Carolina that were known to produce motorsports goods and services were identified using several different approaches, including the membership list for the North Carolina Motorsports Association, North Carolina Department of Commerce list, Charlotte Regional Partnership list, Dunn & Bradstreet data, Reference USA data, NASCAR teams, interviews, and referrals. Surveys were sent to these firms to gather employment, output, wage, occupational categories, educational levels, and other economic information. Because of the variety of products and services provided by firms in the motorsports industry, fifteen different

industries, based on type of product or service, were identified. This required eleven different surveys which appear in Appendix B.

In addition to the direct survey approach, a second technique of data collection involved the use of proprietary databases. Firm and industry databases such as Reference USA and Dunn & Bradstreet were analyzed based on key SIC/NAICS codes and key words. This process produced a lengthy list of firms that were subsequently vetted to ensure involvement in motorsports. The output and employment estimates supplied by the proprietary databases were used for these firms.

Finally, despite all the different techniques of collecting primary data, output and employment data for a number of firms were incomplete. In order to estimate the missing data for these firms, the fifteen industry categories were each further divided based on firm size (small, medium, and large). This produced forty-five different groupings. For each class size in each category, employment and output averages were calculated based on direct survey data, proprietary data, and a combination of direct survey and proprietary data. Missing data were then estimated using the three different techniques described above. The averaging technique that produced the most conservative estimate of employment and output was used to estimate the missing data.

Impact Methodology: The economic impact of an industry or event is typically measured in terms of total output and/or jobs. To accurately assess the total economic impact, the most important piece of information is direct output. The term direct refers to the dollar output or employment associated with the firm or industry being evaluated. For the motorsports impact study, the term direct is most closely associated with the total annual sales/revenue generated by the different organizations that comprise the motorsports industry in North Carolina.

Once the estimates of direct output and employment are established, the multiplier concept can then capture the total effect of the economic activity on output, employment, value added, and employee compensation. For instance, a job multiplier value of 2.1 would mean that for each direct job in an industry, 1.1 additional jobs are generated in other parts of the economy (the total benefit to the economy being 2.1 jobs). Thus, an event or firm that creates 100 new jobs in a particular industry would, through the multiplier effect, translate into a subsequent employment gain of 110 jobs in other sectors, for a total employment gain of 210 jobs (100 x 2.1).

The basic multiplier methodology used in the motorsports study is provided by the Minnesota IMPLAN Group. IMPLAN is a multiplier methodology originally developed by the United States Government and currently maintained by the Minnesota IMPLAN Group. Table 2.1 presents the IMPLAN sectors used in this study.

IMPLAN code 4XB, Off-site fan expenditures, represents a blended multiplier. Off-site fan expenditures occur when motorsports fans spend money on non-motorsports activities while attending motorsports events. Examples of this type of spending are hotel and motel expenses, food and entertainment spending, gasoline purchases, and other retail purchases including souvenirs. The blended multiplier is a weighted average multiplier based on all expenditure categories associated with the off-site expenditures. The weights were determined using survey data collected from a Lowe's Motor Speedway fan expenditure survey conducted in 2000.

In this study, the state was divided into seven regions. These seven regions correspond to North Carolina's seven economic development regions as defined by the North Carolina Department of Commerce. Figure 2.1 presents a map showing the seven regions. For each region, an IMPLAN multi-county multiplier model was constructed. The number of industries included in the model varies by region. Table 2.2 presents the 2005 population and number of industries included in each region. (Appendix A provides the list of counties in each region and their respective 2005 populations.) The Input/Output (I/O) matrix for each region provides multipliers based on the new North American Industrial Classification System (NAICS) definitions of industries. The IMPLAN data used to estimate the region specific industry multipliers were the latest available and were based on 2002 data and adjusted for inflation to reflect the estimated effects in 2005.

Table 2.1
IMPLAN and NAICS Codes

| Sector | IMPLAN Code | IMPLAN Industry | NAICS Code(s) |
|---------------------|-------------|--|--------------------------|
| NASCAR Teams | 350 | Motor vehicle parts manufacturing | 3363 |
| Suppliers | 139 | Commercial printing | 32311 |
| Suppliers | 145 | Petroleum lubricating oil and grease manufacturing | 324191 |
| Suppliers | 180 | Rubber and plastics hose and belting manufacturing | 32622 |
| Suppliers | 205 | Iron, steel pipe and tube from purchased steel | 33121 |
| Suppliers | 247 | Electroplating, anodizing, and coloring metal | 33281 |
| Suppliers | 286 | Other engine equipment manufacturing | 333618 |
| Suppliers | 347 | Truck trailer manufacturing | 33621 |
| Suppliers | 350 | Motor vehicle parts manufacturing | 3363 |
| Suppliers | 358 | Boat Building | 336612 |
| Suppliers | 359 | Motorcycle, bicycle, and parts manufacturing | 336991 |
| Suppliers | 391 | Air transportation | 481 |
| Suppliers | 440 | Specialized design services | 5414 |
| Suppliers | 446 | Scientific research and development services | 5417 |
| Suppliers | 450 | All other miscellaneous professional and technical | 54191, 54193, 54199 |
| NASCAR Testing | 446 | Scientific research and development services | 5417 |
| Marketing | 450 | All other miscellaneous professional and technical | 54191, 54193, 54199 |
| Retail | 139 | Commercial printing | 32311 |
| Retail | 350 | Motor vehicle parts manufacturing | 3363 |
| Retail | 402 | Furniture and home furnishings stores | 442 |
| Retail | 408 | Clothing and clothing accessories stores | 448 |
| Retail | 411 | Miscellaneous store retailers | 453 |
| Major Track | 472 | Spectator sports | 7112 |
| Drag Tracks | 472 | Spectator sports | 7112 |
| Short-Tracks | 472 | Spectator sports | 7112 |
| Drag Racers | 350 | Motor vehicle parts manufacturing | 3363 |
| Museums | 475 | Museums, historical sites, zoos, and parks | 712 |
| Sanctioning Org | 474 | Promoters of performing arts and sports and agents | 7113, 7114 |
| Miscellaneous Firms | 393 | Water transportation | 483 |
| | 446 | Scientific research and development services | 5417 |
| | 447 | Advertising and related services | 5418 |
| | 456 | Travel arrangement and reservation services | 5615 |
| | 462 | Colleges, universities, and junior colleges | 6112, 6113 |
| | 463 | Other educational services | 6114, 6115, 6116, 6117 |
| | 474 | Promoters of performing arts and sports and agents | 7113, 7114 |
| | 493 | Civic, social, professional organizations | 8134, 8139 |
| Non-NASCAR Teams | 350 | Motor vehicle parts manufacturing | 3363 |
| Short-Track Racers | 350 | Motor vehicle parts manufacturing | 3363 |
| Drag Racers | 350 | Motor vehicle parts manufacturing | 3363 |
| Travel & Tourism | 4XB | Off-Site event expenditures | 452, 453 ,721, 722, 8111 |

Figure 2.1

North Carolina Economic Development Planning Regions

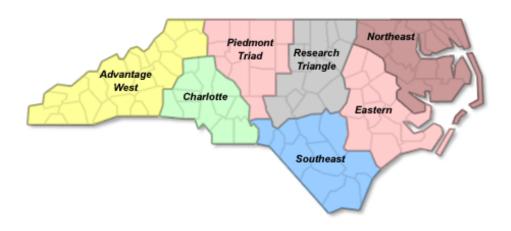


Table 2.2 Planning Region 2005 Population and Industry Count

| Planning Region | Population | Number of Industries | Number of Counties |
|--|------------|----------------------|--------------------|
| Advantage West | 1,045,801 | 372 | 23 |
| Carolinas Partnership | 1,997,922 | 434 | 12 |
| Piedmont Triad Partnership | 1,532,232 | 423 | 12 |
| Research Triangle Regional Partnership | 1,756,023 | 391 | 13 |
| North Carolina's Southeast | 1,026,592 | 347 | 11 |
| North Carolina's Eastern Region | 951.770 | 345 | 13 |
| North Carolina's Northeast Partnership | 353,334 | 255 | 16 |
| North Carolina | 8,663,674 | 481 | 100 |

In addition, the IMPLAN multiplier model provides a comprehensive set of disaggregated multipliers that can be used to estimate the indirect impacts and the induced impacts separately from the total impact at the regional level. The indirect impact is the additional regional economic activity of the supplier chain network caused by the economic activity of the direct industry. The induced impact is the additional regional economic activity of all other unrelated firms and households caused by the economic activity of the direct industry, as well as, the indirect impact.

This study encountered one additional complication. As part of the primary data collection process firms were grouped into industries. Some industry groups (suppliers, marketing, etc.) may represent part of the supplier chain (indirect) for other industry groups (NASCAR teams, short track teams, etc). Using the primary data directly with the multiplier

approach could result in double counting when estimating total impacts. Firms identified as part of a supplier chain received surveys that included questions asking the percent of their total business originating from within North Carolina. Based on the survey information, an adjustment was made to reduce the direct output and employment estimates of firms within a supplier chain industry. The resulting direct output and employment estimates reflect their rest of world (outside of North Carolina) business and only the portion of their in-state business not being counted as direct in another industry sector.

Using the regional models and multipliers, output, employment, employee compensation, and value added impacts were estimated for each industry within each region. In regions with either small industries or a small number of firms within an industry the reporting table suppresses the results. This is to minimize the dissemination of proprietary information. However, the, data are carried to the regional totals. State level results for output and employment by industry are the simple sum of the regional results.

Section 3: State Impacts

At the state level four different types of economic impacts generated by the motorsports industry were estimated based on the 2005 information. These impacts include: (1) output impacts; (2) employment impacts; (3) employee compensation impacts; and (4) value added impacts. These impacts were estimated for each of the seven regional economic development areas and the state results are the sum of these regional estimates.

Output Impacts: Table 3.1 contains the estimated annual output impact on the state economy of the North Carolina motorsports industry. This table is again organized by motorsports sector. In North Carolina the total direct spending by all motorsports related firms in 2005 was almost 3.8 billion dollars (\$3,765,722,321). Of these direct expenditures, the largest reported total was for NASCAR Teams with 1.37 billion dollars of direct expenditures. The results show some ND (not disclosed) entries that reflect motorsports sectors and IMPLAN Industry Codes where the number of firms is sufficiently small that confidentiality requires non-disclosure. In addition to direct output impacts, there were just over 1.1 billion dollars (\$1,171,546,055) of indirect (supplier chain) output impacts and another 964.9 Million (\$964,991,961) of induced economic impacts. The total economic impact of the motorsports industry on the North Carolina economy in 2005 was just over 5.9 billion dollars (\$5,902,260,336) which is the sum of the direct, indirect, and induced impacts. This large

economic impact is an indication of how important the motorsports industry has become to the economic performance of the state economy.

Table 3.1 State Output Impacts by Industry

| Industry | Direct | Indirect | Induced | Total |
|---------------------------|-----------------|-----------------|---------------|-----------------|
| NASCAR Teams | \$1,367,595,454 | \$560,619,456 | \$296,784,079 | \$2,224,998,990 |
| Suppliers | \$637,291,776 | \$228,400,567 | \$127,608,421 | \$993,300,721 |
| NASCAR Testing | ND | ND | ND | ND |
| Marketing | \$392,379,338 | \$42,090,203 | \$70,927,741 | \$505,397,306 |
| Retail | \$252,486,522 | \$72,623,103 | \$82,412,353 | \$407,521,980 |
| Major Track | ND | ND | ND | ND |
| Drag Track | ND | ND | ND | ND |
| Short Track | \$51,569,383 | \$4,316,828 | \$27,956,164 | \$83,842,378 |
| Museums | ND | ND | ND | ND |
| Sanctioning Organizations | ND | ND | ND | ND |
| Miscellaneous Firms | \$335,862,388 | \$67,504,304 | \$113,383,762 | \$516,750,455 |
| Non-NASCAR Teams | \$110,489,482 | \$36,775,457 | \$21,813,680 | \$169,078,626 |
| Short Track Teams | \$136,426,000 | \$45,638,157 | \$27,337,587 | \$209,401,761 |
| Drag Track Teams | \$108,558,000 | \$33,983,389 | \$20,786,553 | \$163,327,947 |
| Tourism | \$149,699,946 | \$52,269,249 | \$49,928,930 | \$251,898,111 |
| Totals | \$3,765,722,321 | \$1,171,546,055 | \$964,991,961 | \$5,902,260,336 |

Table 3.2 shows how this output impact was distributed among the North Carolina's regional economic development areas. (The breakdown of output impacts by motorsports sector and IMPLAN Industry Code for each region is presented in the regional results section.) In Table 3.2 it can be seen that the largest regional economic impact of the motorsports industry is on the Charlotte Regional Partnership.

Table 3.2 Output Impacts by Planning Region

| Region | Direct Impact | Indirect Impact | Induced Impact | Total Impact |
|--|-----------------|-----------------|----------------|-----------------|
| Advantage West | \$122,030,014 | \$33,868,391 | \$32,752,765 | \$188,651,222 |
| Charlotte Regional Partnership | \$2,879,532,187 | \$913,731,578 | \$760,593,561 | \$4,553,857,317 |
| Piedmont Triad Partnership | \$402,009,008 | \$144,517,846 | \$96,053,496 | \$642,580,379 |
| Research Triangle Regional Partnership | \$73,102,287 | \$24,309,818 | \$15,248,297 | \$112,660,406 |
| North Carolina's Southeast | \$79,924,833 | \$19,164,017 | \$17,485,938 | \$116,574,788 |
| North Carolina's Eastern Region | \$94,832,071 | \$19,598,050 | \$20,712,631 | \$135,142,754 |
| North Carolina's Northeast Partnership | \$114,291,921 | \$16,356,355 | \$22,145,273 | \$152,793,470 |
| Total | \$3,765,722,321 | \$1,171,546,055 | \$964,991,961 | \$5,902,260,336 |

This region had over 2.8 billion dollars in direct output expenditures in 2005 and the total output impact on the region was just under 4.6 billion dollars. Even in the economic development region with the smallest direct motorsports output impact, Research Triangle Partnership, the motorsports total 2005 output impact exceeded 73 million dollars. The table shows the largest output impact of the motorsports industry is in the Charlotte Regional Partnership with a total output impact that accounts for 77.15% of the total state output impact.

Employment Impacts: In addition to the output impacts, there are employment impacts for the motorsports industry in North Carolina. Table 3.3 presents the 2005 impact of the motorsports industry on total state employment by motorsports sector. The state level impacts are the sum of the regional employment impacts which are detailed in the next section of the study.

Again the results show some ND (not disclosed) entries that reflect motorsports sectors and IMPLAN Industry Codes where employment levels or the number of firms is sufficiently small that confidentiality requires non-disclosure. NASCAR Teams had the largest estimated direct employment impact with 4,445 jobs. In the Suppliers sector, there were another 2,050 direct jobs and in the Marketing sector there were 1,768 direct jobs supported. Overall the motorsports industry generated a total of 27,252 jobs in 2005 for the state economy. This employment impact consisted of 14,298 direct jobs, 6,877 indirect (supplier chain) jobs, and 6,077 induced jobs.

Table 3.4 presents the direct, indirect, and induced employment impacts by regional economic development area. The table shows the largest employment impact of the motorsports industry is in the Charlotte Regional Partnership, with a direct employment impact of 10,476 jobs accompanied by 4,971 indirect (supplier chain) jobs and 4,352 induced jobs for a total employment impact of 19,799 jobs. In the Piedmont Triad Partnership area the motorsports industry supported over 3,500 total jobs in 2005. The regional employment estimates indicate that the presence of the motorsports industry supported 375 or more total jobs in each of the seven regional economic development areas.

Table 3.3
State Employment Impacts by Industry

| Industry | Direct | Indirect | Induced | Total |
|---------------------------|--------|----------|---------|--------|
| NASCAR Teams | 4,445 | 3,156 | 2,507 | 10,108 |
| Suppliers | 2,050 | 1,285 | 1,097 | 4,431 |
| NASCAR Testing | ND | ND | ND | ND |
| Marketing | 1,768 | 315 | 517 | 2,600 |
| Retail | 1,033 | 224 | 234 | 1,490 |
| Major Track | ND | ND | ND | ND |
| Drag Track | ND | ND | ND | ND |
| Short Track | 451 | 110 | 88 | 648 |
| Museums | ND | ND | ND | ND |
| Sanctioning Organizations | ND | ND | ND | ND |
| Miscellaneous Firms | 843 | 284 | 266 | 1,394 |
| Non-NASCAR Teams | 531 | 353 | 298 | 1,183 |
| Short Track Teams | 523 | 347 | 303 | 1,173 |
| Drag Track Teams | 417 | 269 | 236 | 923 |
| Tourism | 1,394 | 442 | 298 | 2,133 |
| Totals | 14,298 | 6,877 | 6,077 | 27,252 |

Table 3.4 Employment Impacts by Planning Region

| Region | Direct Impact | Indirect Impact | Induced Impact | Total Impact |
|--|---------------|-----------------|-----------------------|---------------------|
| Advantage West | 598 | 191 | 190 | 979 |
| Charlotte Regional Partnership | 10,476 | 4,971 | 4,352 | 19,799 |
| Piedmont Triad Partnership | 1,550 | 1,088 | 914 | 3,553 |
| Research Triangle Regional Partnership | 191 | 93 | 91 | 375 |
| North Carolina's Southeast | 339 | 152 | 139 | 630 |
| North Carolina's Eastern Region | 425 | 235 | 169 | 829 |
| North Carolina's Northeast Partnership | 719 | 147 | 221 | 1,087 |
| Total | 14,298 | 6,877 | 6,077 | 27,252 |

For each economic development region, Table 3.5 provides a summary of the total output impacts and total employment impacts as a percentage of the corresponding state total impact. The Charlotte Regional Partnership economic development region provides 77.15 percent of the total state output impact and 72.65 percent of the total state employment impact. The Piedmont Triad Partnership economic development region provides 10.89 percent of the total state output impact and 13.04 percent of the total state employment impact. While the percentages of impacts in the other planning regions are smaller both in dollar value as well as total employment impacts, they are large in absolute terms as shown in Tables 3.2 and 3.4. The estimated output and employment impacts indicate the importance of the motorsports industry to each regional economic development area and the state as a whole.

Table 3.5
Percent of Total Output Impact and Total Employment Impact by Region

| Planning Region | Percent of State Output | Percent of State Employment |
|--|-------------------------|-----------------------------|
| Advantage West | 3.20% | 3.59% |
| Charlotte Regional Partnership | 77.15% | 72.65% |
| Piedmont Triad Partnership | 10.89% | 13.04% |
| Research Triangle Regional Partnership | 1.91% | 1.38% |
| North Carolina's Southeast | 1.98% | 2.31% |
| North Carolina's Eastern Region | 2.29% | 3.04% |
| North Carolina's Northeast Partnership | 2.59% | 3.99% |

Compensation Impacts: In addition to the output and employment impacts, estimates of employee compensation impacts on a state level were made and these impacts were reported in Table 3.6. Compensation consists of all wage benefits and non-wage benefits for the 27,252 North Carolina jobs estimated earlier.

Table 3.6 shows that just under 1.7 billion dollars (\$1,680,446,205) of employee compensation in 2005 resulted from direct, indirect, and induced economic activity related to the motorsports industry. The largest impact on compensation is in the sector NASCAR Teams with a direct 2005 compensation impact of 277.1 million dollars and a total compensation impact of 537.5 million dollars. The second largest sector impact was from Suppliers with a total compensation impact of 249.3 million dollars.

Table 3.6 State Employee Compensation Impacts by Industry

| Industry | Direct | Indirect | Induced | Total |
|---------------------------|-----------------|---------------|---------------|-----------------|
| NASCAR Teams | \$277,062,458 | \$172,447,092 | \$88,020,175 | \$537,529,725 |
| Suppliers | \$141,177,903 | \$68,793,049 | \$39,371,205 | \$249,342,122 |
| NASCAR Testing | ND | ND | ND | ND |
| Marketing | \$77,045,253 | \$14,500,894 | \$21,023,746 | \$112,569,860 |
| Retail | \$96,647,639 | \$24,099,907 | \$24,307,319 | \$145,054,733 |
| Major Track | ND | ND | ND | ND |
| Drag Track | ND | ND | ND | ND |
| Short Track | \$33,762,475 | \$1,908,366 | \$8,097,237 | \$43,768,057 |
| Museums | ND | ND | ND | ND |
| Sanctioning Organizations | ND | ND | ND | ND |
| Miscellaneous Firms | \$129,364,829 | \$21,855,649 | \$33,499,952 | \$184,720,454 |
| Non-NASCAR Teams | \$31,084,431 | \$11,302,830 | \$6,361,457 | \$40,616,821 |
| Short Track Teams | \$28,234,837 | \$13,943,720 | \$7,947,316 | \$50,125,861 |
| Drag Track Teams | \$22,352,678 | \$10,368,681 | \$5,982,801 | \$38,704,179 |
| Tourism | \$51,260,688 | \$16,295,953 | \$14,768,340 | \$82,324,967 |
| Totals | \$1,034,295,670 | \$367,638,008 | \$286,644,670 | \$1,680,446,205 |

Table 3.7 provides the average compensation per job by motorsports sector for the state. This table shows that the average compensation per employee for the direct motorsports generated jobs (14,298) was \$72,337 per year in 2005. Assuming non-wage benefits are 25 percent of this total, the average annual wage of these direct jobs was \$54,253 in 2005. Table 3.7 also indicates the overall average compensation per employee for the state for all 27,252 direct, indirect, and induced jobs was \$61,663 per year. Again assuming non-wage benefits are 25 percent of this total, the average annual wage of these jobs was \$46,247 in 2005. These results show the motorsports industry supports jobs with annual average wages substantially above the overall average state wage of \$34,580.

Table 3.7
State Average Employee Compensation Impacts by Industry

| Industry | Direct | Indirect | Induced | Total |
|---------------------------|-----------|-----------|-----------|-----------|
| NASCAR Teams | \$62,331 | \$54,644 | \$35,109 | \$53,179 |
| Suppliers | \$68,879 | \$53,544 | \$35,906 | \$56,273 |
| NASCAR Testing | ND | ND | ND | ND |
| Marketing | \$43,578 | \$46,024 | \$40,696 | \$43,301 |
| Retail | \$93,560 | \$107,772 | \$104,062 | \$97,339 |
| Major Track | ND | ND | ND | ND |
| Drag Track | ND | ND | ND | ND |
| Short Track | \$74,861 | \$17,371 | \$92,426 | \$67,494 |
| Museums | ND | ND | ND | ND |
| Sanctioning Organizations | ND | ND | ND | ND |
| Miscellaneous Firms | \$153,458 | \$76,957 | \$125,940 | \$132,511 |
| Non-NASCAR Teams | \$58,539 | \$32,000 | \$21,326 | \$34,348 |
| Short Track Teams | \$54,011 | \$40,205 | \$26,221 | \$42,745 |
| Drag Track Teams | \$53,637 | \$38,479 | \$25,310 | \$41,952 |
| Tourism | \$36,777 | \$36,890 | \$49,598 | \$38,590 |
| Totals | \$72,337 | \$53,459 | \$47,171 | \$61,663 |

Value Added Impacts. The output impacts reported earlier estimate the total spending in North Carolina generated by the motorsports industry measured by the final selling prices of goods and services. Value added impacts measure the value of North Carolina inputs included in the final selling price of a good or service. These value added impacts would be interpreted as the impact of the North Carolina motorsports industry on Gross State Product (GSP). GSP is a state measure analogous to Gross Domestic Product (GDP) for the national economy. Table 3.8 presents the estimated value added impacts by motorsports sector for the state. The largest value added comes from the NASCAR Teams sector with a direct value added estimate of just under

388.3 million dollars (\$338,331,028). Table 3.8 shows the NASCAR Teams sector activity also generated an indirect value added impact of 285.5 million dollars and an induced value added impact of 175.9 million dollars for the North Carolina economy. Overall the motorsports industry in 2005 was estimated to have a direct value added impact of 1.58 billion dollars (\$1,586,547,682) and a total value added impact on the state economy of just under 2.8 billion dollars (\$2,790,016,329).

Table 3.8
State Value Added Impacts by Industry

| Industry | Direct | Indirect | Induced | Total |
|---------------------|-----------------|---------------|---------------|-----------------|
| NASCAR Teams | \$338,331,028 | \$285,528,948 | \$175,993,200 | \$799,853,176 |
| Suppliers | \$174,747,589 | \$115,962,566 | \$76,002,422 | \$366,712,682 |
| | ND | ND | ND | ND |
| Marketing | \$326,474,136 | \$28,262,472 | \$42,161,977 | \$396,898,609 |
| Retail | \$142,684,192 | \$44,538,181 | \$48,742,565 | \$235,965,069 |
| | ND | ND | ND | ND |
| | ND | ND | ND | ND |
| Short Track | \$43,141,450 | \$3,010,382 | \$16,322,332 | \$62,474,174 |
| | ND | ND | ND | ND |
| | ND | ND | ND | ND |
| Miscellaneous Firms | \$213,331,207 | \$44,369,707 | \$67,317,670 | \$325,018,598 |
| Non-NASCAR Teams | \$28,028,208 | \$18,613,004 | \$12,787,405 | \$59,428,634 |
| Short Track Teams | \$34,478,580 | \$22,729,919 | \$15,934,714 | \$73,143,234 |
| Drag Track Teams | \$27,295,657 | \$16,895,971 | \$12,107,922 | \$56,299,564 |
| Tourism | \$74,472,743 | \$31,946,693 | \$29,742,089 | \$136,161,561 |
| Totals | \$1,586,547,682 | \$631,359,748 | \$572,108,519 | \$2,790,016,329 |

Summary of State Impacts: The economic impacts of the motorsports industry on the North Carolina economy in 2005 were estimated to have direct impacts that: (1) increased output by almost 3.8 billion dollars (\$,3,765,722,321); (2) increased employment by 14,298 jobs; (3) increased employee compensation by 1.03 billion dollars (\$1,034,295,670) with an average direct compensation per job of \$72,337 per year; and (4) increased value added by just under 1.6 billion dollars (\$1,586,547,682).

Adding the indirect and induced impacts to these direct impacts the economic impacts of the motorsports industry on the North Carolina economy in 2005 were estimated to have: (1) increased total output by just over 5.9 billion dollars (\$5,902,260,336), (2) increased total employment by 27,252 jobs, (3) increased total employee compensation by just under 1.7 billion

dollars (\$1,680,446,205), and (4) increased total value added by just under 2.8 billion dollars (\$2,790,016,329).

Section 4: Regional Impacts

In this section the economic impacts generated by the motorsports industry are estimated for each of the seven state regional economic development areas. The reported regional results provide output impacts and employment impacts for each region by motorsports sector. The state results reported in the previous section are the sum of these regional estimates.

Advantage West Results: The Advantage West economic development region is made up of the twenty-three counties located in the western corner of the state (Figure 4.1). This region has 12 percent of the NC population and the region's labor force is 11 percent of the NC labor force. The largest employment sectors in this region are manufacturing and wholesale/retail trade. The fastest growing sectors in the region are construction and services.

ALLEGHANY **★**Spart WILKES Wilkesboro CALDWELL MADISON BURKE Morganton BUNCOMBE HAYWOOD. SWAIN Bryson City GRAHAM Rutherfordtor HENDERSON Robbinsv MACON CHEROKEE Columbus CLAY

Figure 4.1: Advantage West Region

Table 4.1 and Table 4.2 present the output and employment multipliers for the Advantage West economic development region by motorsports sector and IMPLAN Industry Code. These tables only present multipliers for the motorsports sectors and IMPLAN Industry Codes with firms in the Advantage West region. Table 4.1 shows that for each dollar of direct expenditure by a NASCAR Race Team (IMPLAN Industry Code 350) there are 31.42 cents spent in indirect (supplier chain) industries within the region and 19.91 cents in induced spending within the

region, so that the total regional output impact of \$1 spent by a NASCAR Race Team increases regional output by \$1.51. Each of the output multipliers in this table can be interpreted in a similar manner. Table 4.2 shows that in this region, for each direct job in the NASCAR Teams (IMPLAN Industry Code 350) there are 0.68 indirect (supplier chain) jobs, as well as 0.64

Table 4.1
Advantage West Output Multipliers by Industry and by IMPLAN Sector

| Industry | IMPLAN Code | IMPLAN Sector | Direct Effects | Indirect Effects | Induced Effects | Total Effects |
|---------------------------|----------------|--|---------------------|---------------------|--|------------------|
| NASCAR Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.314199 | 0.199095 | 1.513295 |
| Suppliers | 139 | Commercial printing | 1 | 0.252371 | 0.232791 | 1.485162 |
| | 145 | Petroleum lubricating oil and grease manufacturing | | | | |
| | 180 | Rubber and plastics hose and belting manufacturing | 1 | 0.203850 | 0.213807 | 1.417657 |
| | 205 | Iron, steel pipe and tube from purchased steel | | | | |
| | 247 | Electroplating, anodizing, and coloring metal | 1 | 0.149100 | 0.403509 | 1.552608 |
| | 286 | Other engine equipment manufacturing | 1 | 0.336827 | 0.147215 | 1.484043 |
| | 347 | Truck trailer manufacturing | | | | |
| | 350 | Motor vehicle parts manufacturing | 1 | 0.314199 | 0.199095 | 1.513295 |
| | 358 | Boat building | 1 | 0.317687 | 0.206302 | 1.523989 |
| | 359 | Motorcycle, bicycle, and parts manufacturing | | | | |
| | 391 | Air transportation | 1 | 0.317530 | 0.280609 | 1.598138 |
| | 440 | Specialized design services | 1 | 0.188451 | 0.289318 | 1.477769 |
| | 446 | Scientific research and development services | 1 | 0.145448 | 0.429729 | 1.575177 |
| NASCAR Testing | 446 | Scientific research and development services | 1 | 0.145448 | 0.429729 | 1.575177 |
| Marketing | 350 | All other miscellaneous professional and technical | 1 | 0.084009 | 0.176917 | 1.260926 |
| Retail | 139 | Commercial printing | 1 | 0.252371 | Effects 4199 0.199095 4371 0.232791 4850 0.213807 49100 0.403509 4927 0.147215 499 0.199095 494 0.280609 495 0.289318 494 0.429729 4009 0.176917 4371 0.232791 4199 0.199095 4207 0.330304 4311 0.330050 4445 0.306107 0.567 0.556205 0.567 0.556205 0.567 0.556205 0.567 0.556205 0.567 0.301743 4711 0.320042 4448 0.429729 3052 0.304455 4732 0.401803 228 0.326266 3225 0.139161 4711 0.320042 4199 0.199095 4199 0.199095 | 1.485162 |
| | 350 | Motor vehicle parts manufacturing | 1 | 0.314199 | | 1.513295 |
| | 402 | Furniture and home furnishings stores | 1 0.229207 0.330304 | 0.330304 | 1.559511 | |
| | 408 | Clothing and clothing accessories stores | 1 | 0.214311 | 0.330050 | 1.544361 |
| | 411 | Miscellaneous store retailers | 1 | 0.331445 | 0.306107 | 1.637552 |
| Major Track | 472 | Spectator sports | 1 | 0.070567 | 0.556205 | 1.626772 |
| Drag Track | 472 | Spectator sports | 1 | 0.070567 | 0.556205 | 1.626772 |
| Short Track | 472 | Spectator sports | 1 | 0.070567 | 0.556205 | 1.626772 |
| Museums | 475 | Museums, historical sites, zoos, and parks | 1 | 0.453653 | 0.301743 | 1.755396 |
| Sanctioning Organizations | 474 | Promoters of performing arts and sports and agents | 1 | 0.224711 | 0.320042 | 1.544753 |
| Miscellaneous Firms | 393 | Water transportation | | | | |
| | 446 | Scientific research and development services | 1 | 0.145448 | 0.429729 | 1.575177 |
| | 447 | Advertising and related services | | | | |
| | 456 | Travel arrangement and reservation services | 1 | 0.303052 | 0.304455 | 1.607507 |
| | 462 | Colleges, universities, and junior colleges | 1 | 0.284732 | 0.401803 | 1.686535 |
| | 463 | Other educational services | 1 | 0.191228 | 0.326266 | 1.517494 |
| | 493 | Water transportation | 1 | 0.448225 | 0.139161 | 1.587387 |
| | 474 | Promoters of performing arts and sports and agents | 1 | 0.224711 | 0.320042 | 1.544753 |
| Non-NASCAR Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.314199 | | 1.513295 |
| Short Track Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.314199 | | 1.513295 |
| Drag Track Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.314199 | | 1.513295 |
| Tourism | 4XB | Blended Tourism | | | | |

induced jobs, which (added to the direct job) adds up to 2.32 total jobs. Each of the employment multipliers in Table 4.2 can be interpreted in a similar manner.

Table 4.2 Advantage West Employment Multipliers by Industry and by IMPLAN Sector

| Industry | IMPLAN Code | IMPLAN Sector | Direct Effects | Indirect Effects | Induced Effects | Total Effects |
|---------------------------|----------------|--|-------------------|---------------------|--------------------|------------------|
| NASCAR Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.678608 | 0.641769 | 2.320377 |
| Suppliers | 139 | Commercial printing | 1 | 0.279548 | 0.341989 | 1.621537 |
| | 145 | Petroleum lubricating oil and grease manufacturing | | | | |
| | 180 | Rubber and plastics hose and belting manufacturing | 1 | 0.243173 | 0.328182 | 1.571355 |
| | 205 | Iron, steel pipe and tube from purchased steel | | | | |
| | 247 | Electroplating, anodizing, and coloring metal | 1 | 0.089344 | 0.304764 | 1.394108 |
| | 286 | Other engine equipment manufacturing | 1 | 0.997888 | 0.709073 | 2.706961 |
| | 347 | Truck trailer manufacturing | | | | |
| | 350 | Motor vehicle parts manufacturing | 1 | 0.678608 | 0.641769 | 2.320377 |
| | 358 | Boat building | 1 | 0.275306 | 0.316258 | 1.591564 |
| | 359 | Motorcycle, bicycle, and parts manufacturing | | | | |
| | 391 | Air transportation | 1 | 0.926466 | 0.702181 | 2.628647 |
| | 440 | Specialized design services | 1 | 0.244710 | 0.333109 | 1.577819 |
| | 446 | Scientific research and development services | 1 | 0.038406 | 0.102373 | 1.140779 |
| NASCAR Testing | 446 | Scientific research and development services | 1 | 0.038406 | 0.102373 | 1.140779 |
| Marketing | 350 | All other miscellaneous professional and technical | 1 | 0.138615 | 0.231579 | 1.370194 |
| Retail | 139 | Commercial printing | 1 | 0.279548 | 0.341989 | 1.621537 |
| | 350 | Motor vehicle parts manufacturing | 1 | 0.678608 | 0.641769 | 2.320377 |
| | 402 | Furniture and home furnishings stores | 1 | 0.177239 0.244652 | 1.421891 | |
| | 408 | Clothing and clothing accessories stores | 1 | 0.107041 | 0.157904 | 1.264945 |
| | 411 | Miscellaneous store retailers | 1 | 0.207609 | 0.183659 | 1.391268 |
| Major Track | 472 | Spectator sports | 1 | 0.033013 | 0.108283 | 1.141296 |
| Drag Track | 472 | Spectator sports | 1 | 0.033013 | 0.108283 | 1.141296 |
| Short Track | 472 | Spectator sports | 1 | 0.033013 | 0.108283 | 1.141296 |
| Museums | 475 | Museums, historical sites, zoos, and parks | 1 | 0.606453 | 0.251673 | 1.858126 |
| Sanctioning Organizations | 474 | Promoters of performing arts and sports and agents | 1 | 0.135732 | 0.129144 | 1.264876 |
| Miscellaneous Firms | 393 | Water transportation | 1 | 2.907427 | 0.921966 | 4.829393 |
| | 446 | Scientific research and development services | 1 | 0.038406 | 0.102373 | 1.140779 |
| | 447 | Advertising and related services | 1 | 0.165647 | 0.352723 | 1.518370 |
| | 456 | Travel arrangement and reservation services | 1 | 0.266611 | 0.244619 | 1.511230 |
| | 462 | Colleges, universities, and junior colleges | 1 | 0.165851 | 0.175477 | 1.341328 |
| | 463 | Other educational services | 1 | 0.151926 | 0.177868 | 1.329794 |
| | 493 | Civic, social, professional and similar organization | 1 | 0.150938 | 0.111413 | 1.262351 |
| | 474 | Promoters of performing arts and sports and agents | 1 | 0.135732 | 0.129144 | 1.264876 |
| Non-NASCAR Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.678608 | 0.641769 | 2.320377 |
| Short Track Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.678608 | 0.641769 | 2.320377 |
| Drag Track Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.678608 | 0.641769 | 2.320377 |
| Tourism | 4XB | Blended Tourism | | | | |

Table 4.3 contains the estimated annual output impact on the Advantage West economy by the motorsports industry, organized by motorsports sector. In 2005, total direct spending by

all motorsports related firms in the region was \$122,030,014. In addition to the direct output impacts there was \$33,868,391 of indirect (supplier chain) output impacts and \$32,752,765 of induced economic impacts. The total output impact of the motorsports industry on the Advantage West economy in 2005 was \$188,651,222.

Table 4.3
Advantage West Output Impacts by Industry

| Industry | Direct | Indirect | Induced | Total |
|---------------------------|---------------|--------------|--------------|---------------|
| NASCAR Teams | ND | ND | ND | ND |
| Suppliers | \$20,050,892 | \$6,448,439 | \$3,651,634 | \$30,150,985 |
| NASCAR Testing | ND | ND | ND | ND |
| Marketing | \$7,146,761 | \$600,392 | \$1,264,384 | \$9,011,537 |
| Retail | \$37,030,114 | \$12,273,446 | \$11,335,177 | \$60,638,737 |
| Major Track | ND | ND | ND | ND |
| Drag Track | ND | ND | ND | ND |
| Short Track | \$4,307,412 | \$303,961 | \$2,395,804 | \$7,007,177 |
| Museums | ND | ND | ND | ND |
| Sanctioning Organizations | ND | ND | ND | ND |
| Miscellaneous Firms | \$20,154,270 | \$4,193,847 | \$6,850,148 | \$31,198,265 |
| Non-NASCAR Teams | \$7,859,416 | \$2,469,421 | \$1,564,770 | \$11,893,615 |
| Short Track Teams | \$16,704,000 | \$5,248,380 | \$3,325,683 | \$25,278,080 |
| Drag Track Teams | \$5,550,000 | \$1,743,804 | \$1,104,977 | \$8,398,787 |
| Tourism | ND | ND | ND | ND |
| Totals | \$122,030,014 | \$33,868,391 | \$32,752,765 | \$188,651,222 |

Table 4.4 Advantage West Employment Impacts by Industry

| Industry | Direct | Indirect | Induced | Total |
|---------------------------|--------|----------|---------|-------|
| NASCAR Teams | ND | ND | ND | ND |
| Suppliers | 60 | 47 | 40 | 148 |
| NASCAR Testing | ND | ND | ND | ND |
| Marketing | 33 | 5 | 8 | 45 |
| Retail | 129 | 26 | 25 | 180 |
| Major Track | ND | ND | ND | ND |
| Drag Track | ND | ND | ND | ND |
| Short Track | 37 | 1 | 4 | 42 |
| Museums | ND | ND | ND | ND |
| Sanctioning Organizations | ND | ND | ND | ND |
| Miscellaneous Firms | 200 | 31 | 36 | 266 |
| Non-NASCAR Teams | 30 | 20 | 19 | 70 |
| Short Track Teams | 63 | 43 | 41 | 147 |
| Drag Track Teams | 21 | 14 | 13 | 49 |
| Tourism | ND | ND | ND | ND |
| Totals | 598 | 191 | 190 | 979 |

Table 4.4 presents the 2005 impact of the motorsports industry on Advantage West employment. Overall the motorsports industry generated a total of 979 jobs in 2005 for the region, consisting of 598 direct jobs, 191 indirect (supplier chain) jobs, and 190 induced jobs.

Carolinas Partnership Results: The Carolinas Partnership economic development region is made up of the 12 counties located in the south central portion of the state (Figure 4.2). This region has almost twenty-five percent of North Carolina's population and labor force. The largest employment sectors in this region are services. Manufacturing and wholesale/retail trade and the fastest growing sectors in the region are construction and services. This is the region with the largest concentration of motorsports activity and the largest number of motorsports related firms.



Figure 4.2: Charlotte Regional Partnership Region

Table 4.5 and Table 4.6 present the output and employment multipliers for the Charlotte Regional Partnership region by motorsports sector and IMPLAN Industry Code. These tables only present multipliers for the motorsports sectors and IMPLAN Industry Codes for firms in the Charlotte Regional Partnership region. Table 4.5 shows that for each dollar of direct expenditure by a NASCAR Race Team (IMPLAN Industry Code 350) there are 41.46 cents spent in indirect (supplier chain) industries within the region and 21.45 cents in induced spending within the

region, so that the total regional output impact of \$1 spent by a NASCAR Race Team is \$1.63. Each of the output multipliers in this table can be interpreted in a similar manner. Table 4.6 shows that in this region, for each direct job in a NASCAR Race Team, IMPLAN Industry Code

Table 4.5

Charlotte Regional Partnership Output Multipliers by Industry and by IMPLAN Sector

| Industry | IMPLAN Code | IMPLAN Sector | Direct Effects | Indirect Effects | Induced Effects | Total Effects |
|---------------------------|----------------|--|-------------------|---|--------------------|------------------|
| NASCAR Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.414679 | 0.214517 | 1.629196 |
| Suppliers | 139 | Commercial printing | 1 | 0.307854 | 0.277385 | 1.585239 |
| | 145 | Petroleum lubricating oil and grease manufacturing | 1 | 0.364018 | 0.157491 | 1.521509 |
| | 180 | Rubber and plastics hose and belting manufacturing | 1 | 0.245731 | 0.254426 | 1.500157 |
| | 205 | Iron, steel pipe and tube from purchased steel | 1 | 0.320033 | 0.188388 | 1.508422 |
| | 247 | Electroplating, anodizing, and coloring metal | 1 | 0.198613 | 0.422215 | 1.620828 |
| | 286 | Other engine equipment manufacturing | 1 | 0.384240 | 0.172558 | 1.556798 |
| | 347 | Truck trailer manufacturing | 1 | 0.275521 | 0.240461 | 1.515982 |
| | 350 | Motor vehicle parts manufacturing | 1 | 0.414679 | 0.214517 | 1.629196 |
| | 358 | Boat building | 1 | 0.301411 | 0.151385 | 1.452795 |
| | 359 | Motorcycle, bicycle, and parts manufacturing | 1 | 0.278143 | 0.224069 | 1.502211 |
| | 391 | Air transportation | 1 | 0.296563 | 0.309483 | 1.606046 |
| | 440 | Specialized design services | 1 | 0.241666 | 0.300887 | 1.542553 |
| | 446 | Scientific research and development services | 1 | 0.076564 | 0.602992 | 1.679556 |
| NASCAR Testing | 446 | Scientific research and development services | 1 | 0.076564 | 0.602992 | 1.679556 |
| Marketing | 450 | All other miscellaneous professional and technical | 1 | 0.108524 | 0.180009 | 1.288533 |
| Retail | 139 | Commercial printing | 1 | 0.307854 | 0.277385 | 1.585239 |
| | 350 | Motor vehicle parts manufacturing | 1 | 0.414679 | 0.214517 | 1.629196 |
| | 402 | Furniture and home furnishings stores | 1 | 0.265732 | 0.348943 | 1.614675 |
| | 408 | Clothing and clothing accessories stores | 1 | 0.250669 | 0.345914 | 1.596583 |
| | 411 | Miscellaneous store retailers | 1 | 0.390105 | 0.336446 | 1.726551 |
| Major Track | 472 | Spectator sports | 1 | 0.128698 | 0.575320 | 1.704018 |
| Drag Track | 472 | Spectator sports | 1 | 0.128698 | 0.575320 | 1.704018 |
| Short Track | 472 | Spectator sports | 1 | 0.128698 | 0.575320 | 1.704018 |
| Museums | 475 | Museums, historical sites, zoos, and parks | 1 | 0.435805 | 0.411066 | 1.846871 |
| Sanctioning Organizations | 474 | Promoters of performing arts and sports and agents | 1 | 0.189106 | 0.333104 | 1.522210 |
| Miscellaneous Firms | 393 | Water transportation | 1 | Effects Effects 0.414679 0.214517 0.307854 0.277385 0.364018 0.157491 0.245731 0.254426 0.320033 0.188388 0.198613 0.422215 0.384240 0.172558 0.275521 0.240461 0.414679 0.214517 0.301411 0.151385 0.278143 0.224069 0.296563 0.309483 0.241666 0.300887 0.076564 0.602992 0.108524 0.180009 0.307854 0.277385 0.414679 0.214517 0.265732 0.348943 0.250669 0.345914 0.390105 0.336446 0.128698 0.575320 0.128698 0.575320 0.435805 0.411066 | 1.675247 | |
| | 446 | Scientific research and development services | 1 | 0.076564 | 0.602992 | 1.679556 |
| | 447 | Advertising and related services | 1 | 0.179962 | 0.382626 | 1.562588 |
| | 456 | Travel arrangement and reservation services | 1 | 0.321342 | 0.351780 | 1.673122 |
| | 462 | Colleges, universities, and junior colleges | 1 | 0.331145 | 0.448270 | 1.779416 |
| | 463 | Other educational services | 1 | 0.232605 | 0.342577 | 1.575182 |
| | 474 | Promoters of performing arts and sports and agents | 1 | 0.189106 | 0.333104 | 1.522210 |
| | 493 | Water transportation | 1 | 0.460738 | 0.331490 | 1.792228 |
| Non-NASCAR Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.414679 | 0.214517 | 1.629196 |
| Short Track Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.414679 | 0.214517 | 1.629196 |
| Drag Track Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.414679 | 0.214517 | 1.629196 |
| Tourism | 4XB | Blended Tourism | 1 | 0.353035 | 0.337490 | 1.690526 |

350, there are 0.70 indirect (supplier chain) jobs, as well as 0.55 induced jobs, which (added to the direct job) sums to 2.25 total jobs. Each of the employment multipliers in Table 4.6 can be interpreted in a similar manner.

 ${\bf Table~4.6}$ Charlotte Regional Partnership Employment Multipliers by Industry and by IMPLAN Sector

| Industry | IMPLAN Code | IMPLAN Sector | Direct Effects | Indirect Effects | Induced Effects | Total Effect |
|---------------------------|----------------|--|-------------------|---------------------|--|-----------------|
| NASCAR Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.700471 | 0.548276 | 2.248747 |
| Suppliers | 139 | Commercial printing | 1 | 0.292531 | 0.372911 | 1.665442 |
| | 145 | Petroleum lubricating oil and grease manufacturing | 1 | 1.149751 | 0.548276 0.372911 0.708086 0.377707 0.350153 0.298397 0.667077 0.379553 0.548276 0.141706 0.428504 0.693283 0.299033 0.384608 0.291911 0.372911 0.548276 0.250710 0.162151 0.177786 0.336435 0.336435 0.336435 0.336435 0.376886 0.167656 1.559842 0.384608 0.251214 0.287824 0.180620 0.206033 1.559842 0.167656 0.548276 0.548276 | 2.857837 |
| | 180 | Rubber and plastics hose and belting manufacturing | 1 | 0.262111 | 0.377707 | 1.639818 |
| | 205 | Iron, steel pipe and tube from purchased steel | 1 | 0.510963 | 0.350153 | 1.961116 |
| | 247 | Electroplating, anodizing, and coloring metal | 1 | 0.093083 | 0.298397 | 1.391480 |
| | 286 | Other engine equipment manufacturing | 1 | 0.986578 | 0.667077 | 2.653655 |
| | 347 | Truck trailer manufacturing | 1 | 0.285229 | 0.379553 | 1.664782 |
| | 350 | Motor vehicle parts manufacturing | 1 | 0.700471 | 0.548276 | 2.248747 |
| | 358 | Boat building | 1 | 0.192338 | 0.141706 | 1.334044 |
| | 359 | Motorcycle, bicycle, and parts manufacturing | 1 | 0.394844 | 0.428504 | 1.823348 |
| | 391 | Air transportation | 1 | 0.679814 | 0.693283 | 2.373097 |
| | 440 | Specialized design services | 1 | 0.238381 | 0.299033 | 1.537414 |
| | 446 | Scientific research and development services | 1 | 0.046656 | 0.384608 | 1.431264 |
| NASCAR Testing | 446 | Scientific research and development services | 1 | 0.046656 | 0.384608 | 1.431264 |
| Marketing | 450 | All other miscellaneous professional and technical | 1 | 0.178888 | 0.291911 | 1.470799 |
| Retail | 139 | Commercial printing | 1 | 0.292531 | 656 0.384608 888 0.291911 531 0.372911 471 0.548276 577 0.250710 827 0.162151 | 1.665442 |
| etail | 350 | Motor vehicle parts manufacturing | 1 | 0.700471 | 0.548276 | 2.248747 |
| | 402 | Furniture and home furnishings stores | 1 | 0.173577 | 0.250710 | 1.424287 |
| | 408 | Clothing and clothing accessories stores | 1 | 0.106827 | 0.162151 | 1.268978 |
| | 411 | Miscellaneous store retailers | 1 | 0.187409 | 11 0.377707 163 0.350153 183 0.298397 178 0.667077 129 0.379553 171 0.548276 183 0.141706 184 0.428504 184 0.693283 181 0.299033 185 0.384608 188 0.291911 191 0.548276 191 0.548276 192 0.162151 193 0.177786 193 0.336435 194 0.336435 195 0.336435 196 0.384608 197 0.162151 199 0.177786 199 0.177786 199 0.336435 199 | 1.365195 |
| Major Track | 472 | Spectator sports | 1 | 0.102982 | 0.336435 | 1.439417 |
| Drag Track | 472 | Spectator sports | 1 | 0.102982 | 0.336435 | 1.439417 |
| Short Track | 472 | Spectator sports | 1 | 0.102982 | 0.336435 | 1.439417 |
| Museums | 475 | Museums, historical sites, zoos, and parks | 1 | 0.549803 | 0.376886 | 1.926689 |
| Sanctioning Organizations | 474 | Promoters of performing arts and sports and agents | 1 | 0.113036 | 0.167656 | 1.280692 |
| Miscellaneous Firms | 393 | Water transportation | 1 | 2.375076 | 1.559842 | 4.934918 |
| | 446 | Scientific research and development services | 1 | 0.046656 | 0.384608 | 1.431264 |
| | 447 | Advertising and related services | 1 | 0.120279 | 0.251214 | 1.371493 |
| | 456 | Travel arrangement and reservation services | 1 | 0.248904 | | 1.536728 |
| | 462 | Colleges, universities, and junior colleges | 1 | 0.152386 | 0.180620 | 1.333006 |
| | 463 | Other educational services | 1 | 0.171765 | 0.206033 | 1.377798 |
| | 493 | Civic, social, professional and similar organization | 1 | 2.375076 | 1.559842 | 4.934918 |
| | 474 | Promoters of performing arts and sports and agents | 1 | 0.113036 | 0.167656 | 1.280692 |
| Non-NASCAR Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.700471 | | 2.248747 |
| Short Track Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.700471 | | 2.248747 |
| Drag Track Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.700471 | | 2.248747 |
| Tourism | 4XB | Blended Tourism | 1 | 0.327604 | 0.217953 | 1.545557 |

Table 4.7 contains the estimated annual output impact on the Charlotte Regional Partnership economy by the motorsports industry, organized by motorsports sector and IMPLAN Industry Code. In 2005, total direct spending by all motorsports related firms in the region was 2.88 billion dollars (\$2,879,532,187). In addition to the direct output impacts there was 914 million dollars (\$913,731,578) of indirect (supplier chain) output impacts and 761 million dollars (\$760,593,561) of induced economic impacts. The total output impact of the motorsports industry on the Charlotte Regional Partnership economy in 2005 was just under 4.6 billion dollars (\$4,553,857,317).

| Table 4.7 Charlotte Regional Partnership Output Impacts by Industry | | | | | | | | | | |
|--|-----------------|---------------|---------------|-----------------|--|--|--|--|--|--|
| | | | | | | | | | | |
| NASCAR Teams | \$1,136,388,607 | \$471,236,491 | \$243,774,675 | \$1,851,399,773 | | | | | | |
| Suppliers | \$423,289,249 | \$171,330,118 | \$88,897,985 | \$683,517,358 | | | | | | |
| NASCAR Testing | ND | ND | ND | ND | | | | | | |
| Marketing | \$358,544,467 | \$38,910,680 | \$64,541,231 | \$461,996,378 | | | | | | |
| Retail | \$207,829,738 | \$57,813,883 | \$68,720,804 | \$334,364,425 | | | | | | |
| Major Track | ND | ND | ND | ND | | | | | | |
| Drag Track | ND | ND | ND | ND | | | | | | |
| Short Track | \$14,757,745 | \$1,899,292 | \$8,490,426 | \$25,147,463 | | | | | | |
| Museums | ND | ND | ND | ND | | | | | | |
| Sanctioning Organizations | ND | ND | ND | ND | | | | | | |
| Miscellaneous Firms | \$303,963,622 | \$60,007,038 | \$102,513,730 | \$466,484,391 | | | | | | |
| Non-NASCAR Teams | \$40,221,366 | \$16,678,956 | \$8,628,167 | \$65,528,489 | | | | | | |
| Short Track Teams | \$32,016,000 | \$13,276,363 | \$6,867,976 | \$52,160,339 | | | | | | |
| Drag Track Teams | \$16,650,000 | \$6,904,405 | \$3,571,708 | \$27,126,113 | | | | | | |
| Tourism | \$142,699,946 | \$50,378,147 | \$48,159,826 | \$241,237,903 | | | | | | |
| Totals | \$2,879,532,187 | \$913,731,578 | \$760,593,561 | \$4,553,857,317 | | | | | | |

Table 4.8 presents the 2005 impact of the motorsports industry on Charlotte Regional Partnership employment. Overall, the motorsports industry generated a total of 19,799 jobs in 2005 for the region, consisting of 10,476 direct jobs, 4,971 indirect (supplier chain) jobs, and 4,352 induced jobs. This impact is again the largest of all the economic development regions and it represents 72.65 percent of the total motorsports industry employment impact on the state as a whole.

Table 4.8 Charlotte Regional Partnership Employment Impacts by Industry

| Industry | Direct | Indirect | Induced | Total |
|---------------------------|--------|----------|---------|--------|
| NASCAR Teams | 3,667 | 2,569 | 2,011 | 8,246 |
| Suppliers | 1,237 | 899 | 692 | 2,827 |
| NASCAR Testing | ND | ND | ND | ND |
| Marketing | 1,616 | 289 | 472 | 2,377 |
| Retail | 861 | 189 | 201 | 1,250 |
| Major Track | ND | ND | ND | ND |
| Drag Track | ND | ND | ND | ND |
| Short Track | 136 | 14 | 46 | 196 |
| Museums | ND | ND | ND | ND |
| Sanctioning Organizations | ND | ND | ND | ND |
| Miscellaneous Firms | 567 | 173 | 177 | 916 |
| Non-NASCAR Teams | 297 | 208 | 163 | 668 |
| Short Track Teams | 124 | 87 | 68 | 278 |
| Drag Track Teams | 64 | 45 | 35 | 145 |
| Tourism | 1,302 | 427 | 284 | 2,013 |
| Totals | 10,476 | 4,971 | 4,352 | 19,799 |

Piedmont Triad Partnership Results: The Piedmont Triad Partnership economic development region is made up of the 12 counties located in the west central portion of the state (Figure 4.3). This region has almost twenty percent of the North Carolina's population and labor force.

SURRY STOKES ROCKINGHAN * Dobson Wentworth Danbury Yanceyville YADKIN Winston-**GUILFORD** Salem Yadkinville FORSYTH ALAMANCE Graham Greensboro DAVIE Mocksville Lexington DAVIDSON Asheboro RANDOLPH MONTGOMERY ★ Troy

Figure 4.3: Piedmont Triad Partnership Region

The largest employment sectors in this region are manufacturing and wholesale/retail trade while the fastest growing sectors in the region are agriculture, construction, and services.

Table 4.9
Piedmont Triad Partnership Output Multipliers by Industry and by IMPLAN Sector

| Industry | IMPLAN Code | IMPLAN Sector | Direct Effects | Indirect Effects | Induced Effects | Total Effects |
|---------------------------|----------------|---|-------------------|---------------------|--------------------|------------------|
| NASCAR Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.386889 | 0.229396 | 1.616285 |
| Suppliers | 137 | Commercial printing | 1 | 0.325741 | 0.227431 | 1.553172 |
| | 145 | Petroleum lubricating oil and grease manufacturing | 1 | 0.383444 | 0.121002 | 1.504446 |
| | 180 | Rubber and plastics hose and belting manufacturing | 1 | 0.269161 | 0.249915 | 1.519076 |
| | 205 | Iron, steel pipe and tube from purchased steel | | | | |
| | 247 | Electroplating, anodizing, and coloring metal | 1 | 0.183083 | 0.456087 | 1.639169 |
| | 286 | Other engine equipment manufacturing | 1 | 0.378152 | 0.145681 | 1.523833 |
| | 347 | Truck trailer manufacturing | 1 | 0.313996 | 0.260706 | 1.574701 |
| | 350 | Motor vehicle parts manufacturing | 1 | 0.386889 | 0.229396 | 1.616285 |
| | 358 | Boat building | 1 | 0.244021 | 0.209031 | 1.453052 |
| | 359 | Motorcycle, bicycle, and parts manufacturing | | | | |
| | 391 | Air transportation | 1 | 0.318635 | 0.289492 | 1.608126 |
| | 440 | Specialized design services | 1 | 0.219506 | 0.324192 | 1.543698 |
| | 446 | Scientific research and development services | 1 | 0.070896 | 0.651928 | 1.722824 |
| NASCAR Testing | 446 | Scientific research and development services | 1 | 0.070896 | 0.651928 | 1.722824 |
| Marketing | 450 | All other miscellaneous professional and technical | 1 | 0.096788 | 0.193488 | 1.290277 |
| Retail | 139 | Commercial printing | 1 | 0.291710 | 0.295745 | 1.587456 |
| | 350 | Motor vehicle parts manufacturing | 1 | 0.386889 | 0.229396 | 1.616285 |
| | 402 | Furniture and home furnishings stores | 1 | 0.247177 | 0.374330 | 1.621507 |
| | 408 | Clothing and clothing accessories stores | 1 | 0.245749 | 0.365904 | 1.611652 |
| | 411 | Miscellaneous store retailers | 1 | 0.364815 | 0.356529 | 1.721344 |
| Major Track | 472 | Spectator sports | 1 | 0.093101 | 0.610352 | 1.703453 |
| Drag Track | 472 | Spectator sports | 1 | 0.093101 | 0.610352 | 1.703453 |
| Short Track | 472 | Spectator sports | 1 | 0.093101 | 0.610352 | 1.703453 |
| Museums | 475 | Museums, historical sites, zoos, and parks | 1 | 0.501677 | 0.368007 | 1.869684 |
| Sanctioning Organizations | 474 | Promoters of performing arts and sports and agents | 1 | 0.259353 | 0.309820 | 1.569173 |
| Miscellaneous Firms | 393 | Water transportation | 1 | 0.452228 | 0.226612 | 1.678840 |
| | 446 | Scientific research and development services | 1 | 0.070896 | 0.651928 | 1.722824 |
| | 447 | Advertising and related services | 1 | 0.173757 | 0.412779 | 1.586536 |
| | 456 | Travel arrangement and reservation services | 1 | 0.340294 | 0.345545 | 1.685839 |
| | 462 | Colleges, universities, and junior colleges | 1 | 0.191767 | 0.569194 | 1.760961 |
| | 463 | Other educational services | 1 | 0.209019 | 0.366416 | 1.575436 |
| | 493 | Civic, social, professional and similar organizations | 1 | 0.426386 | 0.359546 | 1.785932 |
| | 474 | Promoters of performing arts and sports and agents | 1 | 0.259353 | 0.309820 | 1.569173 |
| Non-NASCAR Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.386889 | 0.229396 | 1.616285 |
| Short Track Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.386889 | 0.229396 | 1.616285 |
| Drag Track Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.386889 | 0.229396 | 1.616285 |
| Tourism | 4XB | Blended Tourism | | | | |

 ${\bf Table~4.10}$ Piedmont Triad Partnership Employment Multipliers by Industry and by IMPLAN Sector

| Industry | IMPLAN Code | IMPLAN Sector | Direct Effects | Indirect Effects | Induced Effects | Total Effects |
|---------------------------|----------------|--|-------------------|---------------------|---|------------------|
| NASCAR Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.755127 | 0.63822 | 2.393347 |
| Suppliers | 137 | Commercial printing | 1 | 0.369667 | 0.340672 | 1.710339 |
| | 145 | Petroleum lubricating oil and grease manufacturing | 1 | 1.259358 | 0.545184 | 2.804542 |
| | 180 | Rubber and plastics hose and belting manufacturing | 1 | 0.274183 | 0.63822 0.340672 0.545184 0.345173 0.348616 0.543782 0.437204 0.63822 0.264806 0.601773 0.435091 0.443214 0.43214 0.315048 0.426712 0.63822 0.289157 0.160365 0.201934 0.129511 0.129511 0.129511 0.129511 0.285543 0.072056 1.72374 0.443214 0.327270 0.250246 0.399839 0.236716 1.723740 0.072056 0.63822 | 1.619356 |
| | 205 | Iron, steel pipe and tube from purchased steel | | | | |
| | 247 | Electroplating, anodizing, and coloring metal | 1 | 0.101576 | 0.348616 | 1.450192 |
| | 286 | Other engine equipment manufacturing | 1 | 0.987529 | 0.543782 | 2.531311 |
| | 347 | Truck trailer manufacturing | 1 | 0.349392 | 0.437204 | 1.786596 |
| | 350 | Motor vehicle parts manufacturing | 1 | 0.755127 | 0.63822 | 2.393347 |
| | 358 | Boat building | 1 | 0.228344 | 0.264806 | 1.493150 |
| | 359 | Motorcycle, bicycle, and parts manufacturing | | | | |
| | 391 | Air transportation | 1 | 0.738966 | 0.601773 | 2.340739 |
| | 440 | Specialized design services | 1 | 0.305590 | 0.435091 | 1.740681 |
| | 446 | Scientific research and development services | 1 | 0.048893 | 0.443214 | 1.492107 |
| NASCAR Testing | 446 | Scientific research and development services | 1 | 0.048893 | 0.443214 | 1.492107 |
| Marketing | 450 | All other miscellaneous professional and technical | 1 | 0.178280 | 0.315048 | 1.493328 |
| Retail | 139 | Commercial printing | 1 | 0.316921 | 0.426712 | 1.743633 |
| | 350 | Motor vehicle parts manufacturing | 1 | 0.755127 | 0.63822 | 2.393347 |
| | 402 | Furniture and home furnishings stores | 1 | 0.189845 | 0.289157 | 1.479002 |
| | 408 | Clothing and clothing accessories stores | 1 | 0.107090 | 0.160365 | 1.267455 |
| | 411 | Miscellaneous store retailers | 1 | 0.205447 | 0.201934 | 1.407381 |
| Major Track | 472 | Spectator sports | 1 | 0.056916 | 0.129511 | 1.186427 |
| Drag Track | 472 | Spectator sports | 1 | 0.056916 | 0.129511 | 1.186427 |
| Short Track | 472 | Spectator sports | 1 | 0.056916 | 0.129511 | 1.186427 |
| Museums | 475 | Museums, historical sites, zoos, and parks | 1 | 0.526284 | 0.285543 | 1.811827 |
| Sanctioning Organizations | 474 | Promoters of performing arts and sports and agents | 1 | 0.081219 | 0.072056 | 1.153275 |
| Miscellaneous Firms | 393 | Water transportation | 1 | 3.027538 | 1.72374 | 5.751278 |
| | 446 | Scientific research and development services | 1 | 0.048893 | 0.443214 | 1.492107 |
| | 447 | Advertising and related services | 1 | 0.147600 | 0.327270 | 1.474880 |
| | 456 | Travel arrangement and reservation services | 1 | 0.255992 | 0.250246 | 1.506238 |
| | 462 | Colleges, universities, and junior colleges | 1 | 0.150227 | 0.399839 | 1.550066 |
| | 463 | Other educational services | 1 | 0.170303 | 0.236716 | 1.407019 |
| | 493 | Water transportation | 1 | 3.027538 | 1.723740 | 5.751278 |
| | 474 | Promoters of performing arts and sports and agents | 1 | 0.081219 | 0.072056 | 1.153275 |
| Non-NASCAR Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.755127 | 0.63822 | 2.393347 |
| Short Track Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.755127 | 0.63822 | 2.393347 |
| Drag Track Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.755127 | 0.63822 | 2.393347 |
| Tourism | 4XB | Blended Tourism | | | | |

Table 4.9 and Table 4.10 present the output and employment multipliers for the Piedmont Triad Partnership region by motorsports sector and IMPLAN Industry Code. These tables only present multipliers for the motorsports sectors and IMPLAN Industry Codes for firms in the Piedmont Triad Partnership region. Table 4.9 shows that for each dollar of direct expenditure by the NASCAR Teams (IMPLAN Industry Code 350) there are 38.69 cents spent in indirect

(supplier chain) industries within the region and 22.94 cents in induced spending within the region, so that the total regional output impact of \$1 spent by a NASCAR Race Team increases regional output by \$1.62. Each of the output multipliers in this table can be interpreted in a similar manner. Table 4.10 shows that in this region, for each direct job at a NASCAR Team (IMPLAN Industry Code 350) there are 0.76 indirect (supplier chain) jobs, as well as 0.64 induced jobs, which (added to the direct job) sums to 2.39 total jobs. Each of the employment multipliers in Table 4.10 can be interpreted in a similar manner.

Table 4.11 contains the estimated annual output impact on the Piedmont Triad Partnership economy by the motorsports industry, organized by motorsports sector and IMPLAN Industry Code. In 2005, total direct spending by all motorsports related firms in the region was 402 million dollars (\$402,009,008). In addition to the direct output impacts, there were 144,517,846 million dollars of indirect (supplier chain) output impacts and 96 million (\$96,053,496) dollars of induced economic impacts. The total output impact of the motorsports industry on the Piedmont Triad Partnership economy in 2005 was just under 643 million dollars (\$642,580,379).

Table 4.12 presents the 2005 impact of the motorsports industry on Piedmont Triad Partnership employment. Overall the motorsports industry generated a total of 3,553 jobs in 2005 for the region, consisting of 1,550 direct jobs, 1,088 indirect (supplier chain) jobs, and 914 induced jobs.

Table 4.11
Piedmont Triad Partnership Output Impacts by Industry

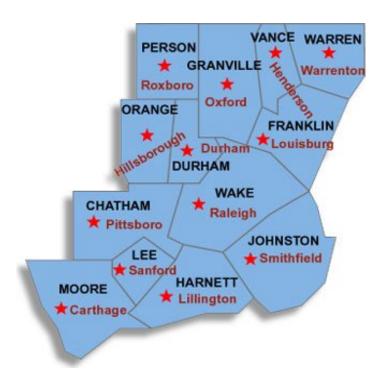
| Industry | Direct | Indirect | Induced | Total |
|---------------------------|---------------|---------------|--------------|---------------|
| NASCAR Teams | \$230,265,578 | \$89,087,219 | \$52,822,002 | \$372,174,799 |
| Suppliers | \$55,860,715 | \$21,529,769 | \$12,170,542 | \$89,561,026 |
| NASCAR Testing | ND | ND | ND | ND |
| Marketing | \$24,866,685 | \$2,406,797 | \$4,811,405 | \$32,084,912 |
| Retail | \$4,703,420 | \$1,503,874 | \$1,500,632 | \$7,707,929 |
| Major Track | ND | ND | ND | ND |
| Drag Track | ND | ND | ND | ND |
| Short Track | \$7,442,762 | \$692,929 | \$4,542,705 | \$12,678,395 |
| Museums | ND | ND | ND | ND |
| Sanctioning Organizations | ND | ND | ND | ND |
| Miscellaneous Firms | \$4,518,960 | \$1,543,812 | \$1,783,076 | \$7,845,849 |
| Non-NASCAR Teams | \$10,991,468 | \$4,252,478 | \$2,521,399 | \$17,765,345 |
| Short Track Teams | \$33,408,000 | \$12,925,188 | \$7,663,662 | \$53,996,849 |
| Drag Track Teams | \$25,012,000 | \$9,676,868 | \$5,737,653 | \$40,426,520 |
| Tourism | ND | ND | ND | ND |
| Totals | \$402,009,008 | \$144,517,846 | \$96,053,496 | \$642,580,379 |

Table 4.12
Piedmont Triad Partnership Employment Impacts by Industry

| Industry | Direct | Indirect | Induced | Total |
|---------------------------|--------|----------|---------|-------|
| NASCAR Teams | 774 | 584 | 494 | 1,852 |
| Suppliers | 216 | 175 | 132 | 523 |
| NASCAR Testing | ND | ND | ND | ND |
| Marketing | 105 | 19 | 33 | 157 |
| Retail | 26 | 5 | 5 | 37 |
| Major Track | ND | ND | ND | ND |
| Drag Track | ND | ND | ND | ND |
| Short Track | 42 | 2 | 5 | 50 |
| Museums | ND | ND | ND | ND |
| Sanctioning Organizations | ND | ND | ND | ND |
| Miscellaneous Firms | 51 | 79 | 49 | 179 |
| Non-NASCAR Teams | 56 | 42 | 36 | 134 |
| Short Track Teams | 129 | 97 | 82 | 308 |
| Drag Track Teams | 96 | 73 | 61 | 230 |
| Tourism | ND | ND | ND | ND |
| Totals | 1,550 | 1,088 | 914 | 3,553 |

Research Triangle Regional Partnership Results: The Research Triangle Regional Partnership economic development region is comprised of the 13 counties located in the north central part of the state (Figure 4.4). This region has one fifth of the NC population and the

Figure 4.4: Research Triangle Regional Partnership Region



region's labor force is about 20 percent of the NC labor force. The largest employment sectors in this region are services, wholesale/retail trade, government, and manufacturing. The fastest growing sectors in the region are construction, agriculture, and services.

Table 4.13 and Table 4.14 present the output and employment multipliers for the Research Triangle Regional Partnership region by motorsports sector and IMPLAN Industry Code. These tables only present multipliers for the motorsports sectors and IMPLAN Industry Codes for firms in the Research Triangle Regional Partnership region. Table 4.13 shows that for each dollar of direct expenditure by NASCAR Teams (IMPLAN Industry Code 350) there are 32.81 cents spent in indirect (supplier chain) industries within the region and 21.80 cents in induced spending within the region, so that the total regional output impact of \$1 spent by the NASCAR Race Team is \$1.55. Each of the output multipliers in this table can be interpreted in a similar manner. Table 4.14 shows that in this region, for each direct job at a NASCAR Team (IMPLAN Industry Code 350) there are 0.62 indirect (supplier chain) jobs, as well as 0.61 induced jobs, which (added to the direct job) sums to 2.22 total jobs. Each of the employment multipliers in Table 4.14 can be interpreted in a similar manner.

Table 4.15 contains the estimated annual output impact on the Research Triangle Regional Partnership economy by the motorsports industry, organized by motorsports sector and IMPLAN Industry Code. In 2005 total direct spending by all motorsports related firms in the region was \$73,102,287. In addition to the direct output impacts, there was \$24,309,818 of indirect (supplier chain) output impact and \$15,248,297 of induced economic impact. The total output impact of the motorsports industry on the Research Triangle Regional Partnership economy in 2005 was \$112,660,406.

Table 4.13
Research Triad Regional Partnership Output Multipliers by Industry and by IMPLAN Sector

| Industry | IMPLAN Code | IMPLAN Sector | Direct Effects | Indirect Effects | Induced Effects | Total Effects |
|---------------------------|----------------|---|-------------------|---------------------|--|------------------|
| NASCAR Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.328091 | 0.217960 | 1.546051 |
| Suppliers | 139 | Commercial printing | 1 | 0.241302 | s Effects 091 0.217960 302 0.275096 444 0.121002 630 0.223762 288 0.422255 240 0.172558 551 0.254646 091 0.217960 541 0.242509 090 0.150272 896 0.261111 183 0.305443 224 0.617730 027 0.183315 302 0.275096 091 0.217960 604 0.355927 644 0.345278 306 0.338935 224 0.584543 224 0.584543 224 0.584543 224 0.617730 113 0.390473 232 0.352321 567 0.513188 623 0.372744 790 0.217960 091 0.217960 091 0.217960 < | 1.516398 |
| | 145 | Petroleum lubricating oil and grease manufacturing | 1 | 0.383444 | | 1.504446 |
| | 180 | Rubber and plastics hose and belting manufacturing | 1 | 0.231630 | | 1.455392 |
| | 205 | Iron, steel pipe and tube from purchased steel | | | | |
| | 247 | Electroplating, anodizing, and coloring metal | 1 | 0.194288 | 0.422255 | 1.616543 |
| | 286 | Other engine equipment manufacturing | 1 | 0.384240 | 0.172558 | 1.556798 |
| | 347 | Truck trailer manufacturing | 1 | 0.322551 | 0.254646 | 1.577196 |
| | 350 | Motor vehicle parts manufacturing | 1 | 0.328091 | 0.217960 | 1.546051 |
| | 358 | Boat building | 1 | 0.172541 | 0.242509 | 1.415050 |
| | 359 | Motorcycle, bicycle, and parts manufacturing | 1 | 0.279090 | 0.150272 | 1.429362 |
| | 391 | Air transportation | 1 | 0.406896 | 0.261111 | 1.668007 |
| | 440 | Specialized design services | 1 | 0.222183 | 0.305443 | 1.527626 |
| | 446 | Scientific research and development services | 1 | 0.070224 | 0.617730 | 1.687954 |
| NASCAR Testing | 446 | Scientific research and development services | 1 | 0.070224 | 0.617730 | 1.687954 |
| Marketing | 450 | All other miscellaneous professional and technical | 1 | 0.101027 | 0.183315 | 1.284342 |
| Retail | 139 | Commercial printing | 1 | 0.241302 | | 1.516398 |
| | 350 | Motor vehicle parts manufacturing | 1 | 0.328091 | 0.217960 | 1.546051 |
| | 402 | Furniture and home furnishings stores | 1 | 0.245604 | 0.355927 | 1.601531 |
| | 408 | Clothing and clothing accessories stores | 1 | 0.250644 | 0.345278 | 1.595922 |
| | 411 | Miscellaneous store retailers | 1 | 0.367306 | 91 0.217960 04 0.355927 44 0.345278 | 1.706241 |
| Major Track | 472 | Spectator sports | 1 | 0.114224 | 0.584543 | 1.698768 |
| Drag Track | 472 | Spectator sports | 1 | 0.114224 | 0.584543 | 1.698768 |
| Short Track | 472 | Spectator sports | 1 | 0.114224 | 0.584543 | 1.698768 |
| Museums | 475 | Museums, historical sites, zoos, and parks | 1 | 0.536955 | 0.391927 | 1.928882 |
| Sanctioning Organizations | 474 | Promoters of performing arts and sports and agents | 1 | 0.212790 | 0.317189 | 1.529978 |
| Miscellaneous Firms | 393 | Water transportation | | | | |
| | 446 | Scientific research and development services | 1 | 0.070224 | 0.217960 0.275096 0.121002 0.223762 0.422255 0.172558 0.254646 0.217960 0.242509 0.150272 0.261111 0.305443 0.617730 0.183315 0.275096 0.217960 0.355927 0.345278 0.338935 0.584543 0.584543 0.584543 0.584543 0.584543 0.391927 0.317189 0.617730 0.390473 0.352321 0.513188 0.355168 0.372744 0.317189 | 1.687954 |
| | 447 | Advertising and related services | 1 | 0.178113 | | 1.568585 |
| | 456 | Travel arrangement and reservation services | 1 | 0.316232 | 0.352321 | 1.668552 |
| | 462 | Colleges, universities, and junior colleges | 1 | 0.247567 | 0.513188 | 1.760755 |
| | 463 | Other educational services | 1 | 0.224623 | 0.355168 | 1.579792 |
| | 493 | Civic, social, professional and similar organizations | 1 | 0.400265 | 0.372744 | 1.773008 |
| | 474 | Promoters of performing arts and sports and agents | 1 | 0.212790 | 0.317189 | 1.529978 |
| Non-NASCAR Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.328091 | 0.217960 | 1.546051 |
| Short Track Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.328091 | 0.217960 | 1.546051 |
| Drag Track Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.328091 | 0.217960 | 1.546051 |
| Tourism | 4XB | Blended Tourism | | | | |

29

Table 4.14

Research Triad Regional Partnership Employment Multipliers by Industry and by IMPLAN Sector

| Industry | IMPLAN Code | IMPLAN Sector | Direct Effects | Indirect Effects | Induced Effects | Total Effect |
|---------------------------|----------------|---|-------------------|---------------------|---|-----------------|
| NASCAR Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.615187 | 0.605205 | 2.220392 |
| Suppliers | 139 | Commercial printing | 1 | 0.259221 | 0.392886 | 1.652107 |
| | 145 | Petroleum lubricating oil and grease manufacturing | 1 | 1.149751 | Sects Effects 5187 0.605205 59221 0.392886 69751 0.708086 8715 0.289642 87289 0.282479 36578 0.667077 39202 0.420416 5187 0.605205 4035 0.255327 97269 0.473750 42870 0.306001 44413 0.426460 44413 0.426460 427517 0.391014 439221 0.392886 5187 0.605205 32073 0.279074 99074 0.144353 92394 0.187769 73017 0.124630 73017 0.124630 73017 0.124630 73017 0.124630 73017 0.124630 73017 0.124630 73017 0.124630 73017 0.124630 73017 0.124630 73017 0.124630 | 2.857837 |
| | 180 | Rubber and plastics hose and belting manufacturing | 1 | 0.218715 | | 1.508357 |
| | 205 | Iron, steel pipe and tube from purchased steel | | | | |
| | 247 | Electroplating, anodizing, and coloring metal | 1 | 0.087289 | 0.282479 | 1.369768 |
| | 286 | Other engine equipment manufacturing | 1 | 0.986578 | 0.667077 | 2.653655 |
| | 347 | Truck trailer manufacturing | 1 | 0.339202 | 0.420416 | 1.759618 |
| | 350 | Motor vehicle parts manufacturing | 1 | 0.615187 | 0.605205 | 2.220392 |
| | 358 | Boat building | 1 | 0.211088 | 0.414232 | 1.625320 |
| | 359 | Motorcycle, bicycle, and parts manufacturing | 1 | 0.371035 | 0.255327 | 1.626362 |
| | 391 | Air transportation | 1 | 0.797269 | 0.473750 | 2.271019 |
| | 440 | Specialized design services | 1 | 0.222870 | 0.306001 | 1.528871 |
| | 446 | Scientific research and development services | 1 | 0.044413 | 0.426460 | 1.470873 |
| NASCAR Testing | 446 | Scientific research and development services | 1 | 0.044413 | 0.426460 | 1.470873 |
| Marketing | 450 | All other miscellaneous professional and technical | 1 | 0.227517 | 0.391014 | 1.618531 |
| Retail | 139 | Commercial printing | 1 | 0.259221 | 0.392886 | 1.652107 |
| | 350 | Motor vehicle parts manufacturing | 1 | 0.615187 | 0.605205 | 2.220392 |
| | 402 | Furniture and home furnishings stores | 1 | 0.182073 | 0.279074 | 1.461147 |
| | 408 | Clothing and clothing accessories stores | 1 | 0.099074 | 0.144353 | 1.243427 |
| | 411 | Miscellaneous store retailers | 1 | 0.192394 | 0.187769 | 1.380163 |
| Major Track | 472 | Spectator sports | 1 | 0.073017 | 0.124630 | 1.197647 |
| Drag Track | 472 | Spectator sports | 1 | 0.073017 | 0.124630 | 1.197647 |
| Short Track | 472 | Spectator sports | 1 | 0.073017 | 0.124630 | 1.197647 |
| Museums | 475 | Museums, historical sites, zoos, and parks | 1 | 0.506403 | 0.318493 | 1.824896 |
| Sanctioning Organizations | 474 | Promoters of performing arts and sports and agents | 1 | 0.091405 | 0.103698 | 1.195103 |
| Miscellaneous Firms | 393 | Water transportation | | | | |
| | 446 | Scientific research and development services | 1 | 0.044413 | ects Effects 5187 0.605205 9221 0.392886 9751 0.708086 8715 0.289642 7289 0.282479 6578 0.667077 9202 0.420416 5187 0.605205 1088 0.414232 1035 0.255327 7269 0.473750 2870 0.306001 4413 0.426460 4413 0.426460 4517 0.391014 9221 0.392886 5187 0.605205 2073 0.279074 9074 0.144353 2394 0.187769 3017 0.124630 3017 0.124630 3017 0.124630 3017 0.124630 3018493 0.103698 4413 0.426460 6529 0.289193 1405 0.13698 5187 0.605205 5187 | 1.470873 |
| | 447 | Advertising and related services | 1 | 0.166529 | | 1.517552 |
| | 456 | Travel arrangement and reservation services | 1 | 0.253219 | 0.292086 | 1.545305 |
| | 462 | Colleges, universities, and junior colleges | 1 | 0.142295 | 0.289193 | 1.431488 |
| | 463 | Other educational services | 1 | 0.181937 | 0.262253 | 1.444190 |
| | 493 | Civic, social, professional and similar organizations | 1 | 0.131377 | 0.123644 | 1.255021 |
| | 474 | Promoters of performing arts and sports and agents | 1 | 0.091405 | 0.103698 | 1.195103 |
| Non-NASCAR Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.615187 | | 2.220392 |
| Short Track Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.615187 | | 2.220392 |
| Drag Track Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.615187 | | 2.220392 |
| Tourism | 4XB | Blended Tourism | | | | |

30

Table 4.15
Research Triangle Regional Partnership Output Impacts by Industry

| Industry | Direct | Indirect | Induced | Total |
|---------------------------|--------------|--------------|--------------|---------------|
| NASCAR Teams | ND | ND | ND | ND |
| Suppliers | \$34,361,578 | \$12,782,393 | \$4,871,239 | \$52,015,210 |
| NASCAR Testing | ND | ND | ND | ND |
| Marketing | ND | ND | ND | ND |
| Retail | ND | ND | ND | ND |
| Major Track | ND | ND | ND | ND |
| Drag Track | ND | ND | ND | ND |
| Short Track | \$4,060,650 | \$463,824 | \$2,373,625 | \$6,898,102 |
| Museums | ND | ND | ND | ND |
| Sanctioning Organizations | ND | ND | ND | ND |
| Miscellaneous Firms | ND | ND | ND | ND |
| Non-NASCAR Teams | \$13,984,544 | \$4,588,203 | \$3,048,071 | \$21,620,818 |
| Short Track Teams | \$12,528,000 | \$4,110,324 | \$2,730,603 | \$19,368,927 |
| Drag Track Teams | \$5,624,000 | \$1,845,184 | \$1,225,807 | \$8,694,991 |
| Tourism | ND | ND | ND | ND |
| Totals | \$73,102,287 | \$24,309,818 | \$15,248,297 | \$112,660,406 |

Table 4.16 presents the 2005 impact of the motorsports industry on Research Triangle Regional Partnership employment. Overall the motorsports industry generated a total of 375 jobs in 2005 for the region, consisting of 191 direct jobs, 93 indirect (supplier chain) jobs, and 91 induced jobs.

Table 4.16
Research Triangle Regional Partnership Employment Impacts by Industry

| Industry | Direct | Indirect | Induced | Total |
|---------------------------|--------|----------|---------|-------|
| NASCAR Teams | ND | ND | ND | ND |
| Suppliers | 36 | 25 | 22 | 84 |
| NASCAR Testing | ND | ND | ND | ND |
| Marketing | ND | ND | ND | ND |
| Retail | ND | ND | ND | ND |
| Major Track | ND | ND | ND | ND |
| Drag Track | ND | ND | ND | ND |
| Short Track | 32 | 2 | 4 | 38 |
| Museums | ND | ND | ND | ND |
| Sanctioning Organizations | ND | ND | ND | ND |
| Miscellaneous Firms | ND | ND | ND | ND |
| Non-NASCAR Teams | 31 | 19 | 19 | 69 |
| Short Track Teams | 47 | 29 | 28 | 104 |
| Drag Track Teams | 21 | 13 | 13 | 47 |
| Tourism | ND | ND | ND | ND |
| Totals | 191 | 93 | 91 | 375 |

31

North Carolina's Southeast Results: The North Carolina's Southeast economic development region is made up of the 11 counties located in the southeast corner of the state (Figure 4.5). This region has 12 percent of the NC population and the region's labor force is about 11 percent of the NC labor force. The largest employment sectors in this region are manufacturing and wholesale/retail trade and, the fastest growing sectors in the region are agriculture, construction, and services.

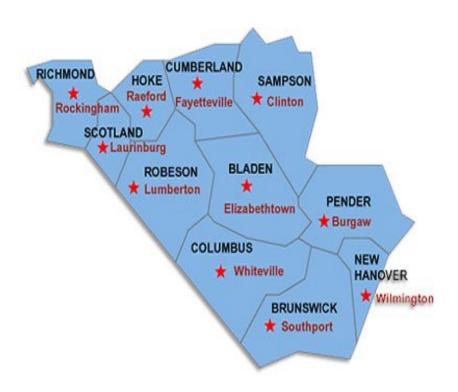


Figure 4.5: North Carolina's Southeast Region

Table 4.17 and Table 4.18 present the output and employment multipliers for the North Carolina's Southeast region by motorsports sector and IMPLAN Industry Code. These tables only present multipliers for the motorsports sectors and IMPLAN Industry Codes for firms in the North Carolina's Southeast region. Table 4.17 shows that for each dollar of direct expenditure by a NASCAR Team (IMPLAN Industry Code 350) there are 26.78 cents spent in indirect (supplier chain) industries within the region and 17.18 cents in induced spending within the region, so that the total regional output impact of \$1 spent by a NASCAR Race Team amounts to \$1.44. Each of the output multipliers in this table can be interpreted in a similar manner. Table 4.18 shows that in this region, for each direct job at a NASCAR Race Team (IMPLAN Industry Code 350) there are 0.62 indirect (supplier chain) jobs, as well as 0.54 induced jobs, which

(added to the direct job) sums to 2.16 total jobs. Each of the employment multipliers in Table 4.18 can be interpreted in a similar manner.

Table 4.17 North Carolina's Northeast Partnership Output Multipliers by Industry and by IMPLAN Sector

| Industry | IMPLAN Code | IMPLAN Sector | Direct Effects | Indirect Effects | Induced Effects | Total Effects |
|---------------------------|-------------|---|-------------------|---------------------|--------------------|------------------|
| NASCAR Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.267760 | 0.171795 | 1.439555 |
| Suppliers | 139 | Commercial printing | 1 | 0.227103 | 0.195051 | 1.422154 |
| | 145 | Petroleum lubricating oil and grease manufacturing | 1 | 0.329147 | 0.113623 | 1.442769 |
| | 180 | Rubber and plastics hose and belting manufacturing | | | | |
| | 205 | Iron, steel pipe and tube from purchased steel | | | | |
| | 247 | Electroplating, anodizing, and coloring metal | 1 | 0.176432 | 0.351216 | 1.527647 |
| | 286 | Other engine equipment manufacturing | 1 | 0.232661 | 0.130318 | 1.362980 |
| | 347 | Truck trailer manufacturing | 1 | 0.249788 | 0.210891 | 1.460679 |
| | 350 | Motor vehicle parts manufacturing | 1 | 0.267760 | 0.171795 | 1.439555 |
| | 358 | Boat building | 1 | 0.193643 | 0.164782 | 1.358425 |
| | 359 | Motorcycle, bicycle, and parts manufacturing | | | | |
| | 391 | Air transportation | 1 | 0.398903 | 0.245709 | 1.644613 |
| | 440 | Specialized design services | 1 | 0.197798 | 0.257698 | 1.455496 |
| | 446 | Scientific research and development services | 1 | 0.070141 | 0.541796 | 1.611937 |
| NASCAR Testing | 446 | Scientific research and development services | 1 | 0.070141 | 0.541796 | 1.611937 |
| Marketing | 450 | All other miscellaneous professional and technical | 1 | 0.090739 | 0.162902 | 1.253640 |
| Retail | 139 | Commercial printing | 1 | 0.227103 | 0.195051 | 1.422154 |
| | 350 | Motor vehicle parts manufacturing | 1 | 0.267760 | 0.171795 | 1.439555 |
| | 402 | Furniture and home furnishings stores | 1 | 0.249248 | 0.302220 | 1.551468 |
| | 408 | Clothing and clothing accessories stores | 1 | 0.232557 | 0.302244 | 1.534801 |
| | 411 | Miscellaneous store retailers | 1 | 0.356635 | 0.281988 | 1.638623 |
| Major Track | 472 | Spectator sports | 1 | 0.054018 | 0.502069 | 1.556087 |
| Drag Track | 472 | Spectator sports | 1 | 0.054018 | 0.502069 | 1.556087 |
| Short Track | 472 | Spectator sports | 1 | 0.054018 | 0.502069 | 1.556087 |
| Museums | 475 | Museums, historical sites, zoos, and parks | 1 | 0.400400 | 0.293422 | 1.693823 |
| Sanctioning Organizations | 474 | Promoters of performing arts and sports and agents | 1 | 0.172877 | 0.252017 | 1.424894 |
| Miscellaneous Firms | 393 | Water transportation | 1 | 0.272982 | 0.233697 | 1.506680 |
| | 446 | Scientific research and development services | 1 | 0.070141 | 0.541796 | 1.611937 |
| | 447 | Advertising and related services | 1 | 0.154409 | 0.346438 | 1.500847 |
| | 456 | Travel arrangement and reservation services | 1 | 0.301759 | 0.289479 | 1.591239 |
| | 462 | Colleges, universities, and junior colleges | 1 | 0.276732 | 0.388881 | 1.665613 |
| | 463 | Other educational services | 1 | 0.197060 | 0.292302 | 1.489361 |
| | 474 | Promoters of performing arts and sports and agents | 1 | 0.172877 | 0.252017 | 1.424894 |
| | 493 | Civic, social, professional and similar organizations | 1 | 0.325872 | 0.319903 | 1.645775 |
| Non-NASCAR Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.267760 | 0.171795 | 1.439555 |
| Short Track Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.267760 | 0.171795 | 1.439555 |
| Drag Track Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.267760 | 0.171795 | 1.439555 |
| Tourism | 4XB | Blended Tourism | 1 | 0.317411 | 0.286379 | 1.603789 |

Table 4.18
North Carolina's Northeast Partnership Employment Multipliers by Industry and by IMPLAN Sector

| Industry | IMPLAN Code | IMPLAN Sector | Direct Effects | Indirect Effects | Induced Effects | Total Effects |
|---------------------------|-------------|---|-------------------|---------------------|--------------------|------------------|
| NASCAR Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.617758 | 0.543571 | 2.161329 |
| Suppliers | 139 | Commercial printing | 1 | 0.259247 | 0.268111 | 1.527358 |
| | 145 | Petroleum lubricating oil and grease manufacturing | 1 | 1.180694 | 0.613317 | 2.794011 |
| | 180 | Rubber and plastics hose and belting manufacturing | | | | |
| | 205 | Iron, steel pipe and tube from purchased steel | | | | |
| | 247 | Electroplating, anodizing, and coloring metal | 1 | 0.082573 | 0.215378 | 1.297951 |
| | 286 | Other engine equipment manufacturing | 1 | 0.790993 | 0.693717 | 2.48471 |
| | 347 | Truck trailer manufacturing | 1 | 0.312057 | 0.403085 | 1.715142 |
| | 350 | Motor vehicle parts manufacturing | 1 | 0.617758 | 0.543571 | 2.161329 |
| | 358 | Boat building | 1 | 0.204593 | 0.233319 | 1.437912 |
| | 359 | Motorcycle, bicycle, and parts manufacturing | | | | |
| | 391 | Air transportation | 1 | 0.925877 | 0.520971 | 2.446848 |
| | 440 | Specialized design services | 1 | 0.155311 | 0.169628 | 1.324939 |
| | 446 | Scientific research and development services | 1 | 0.047996 | 0.359479 | 1.407475 |
| NASCAR Testing | 446 | Scientific research and development services | 1 | 0.047996 | 0.359479 | 1.407475 |
| Marketing | 450 | All other miscellaneous professional and technical | 1 | 0.178771 | 0.259294 | 1.438065 |
| Retail | 139 | Commercial printing | 1 | 0.259247 | 0.268111 | 1.527358 |
| | 350 | Motor vehicle parts manufacturing | 1 | 0.617758 | 0.543571 | 2.161329 |
| | 402 | Furniture and home furnishings stores | 1 | 0.185623 | 0.220676 | 1.406299 |
| | 408 | Clothing and clothing accessories stores | 1 | 0.112202 | 0.142976 | 1.255178 |
| | 411 | Miscellaneous store retailers | 1 | 0.219132 | 0.169874 | 1.389006 |
| Major Track | 472 | Spectator sports | 1 | 0.018723 | 0.074659 | 1.093382 |
| Drag Track | 472 | Spectator sports | 1 | 0.018723 | 0.074659 | 1.093382 |
| Short Track | 472 | Spectator sports | 1 | 0.018723 | 0.074659 | 1.093382 |
| Museums | 475 | Museums, historical sites, zoos, and parks | 1 | 0.639127 | 0.266517 | 1.905644 |
| Sanctioning Organizations | 474 | Promoters of performing arts and sports and agents | 1 | 0.057098 | 0.067434 | 1.124532 |
| Miscellaneous Firms | 393 | Water transportation | 1 | 4.483822 | 4.30166 | 9.785482 |
| | 446 | Scientific research and development services | 1 | 0.047996 | 0.359479 | 1.407475 |
| | 447 | Advertising and related services | 1 | 0.113740 | 0.226185 | 1.339925 |
| | 456 | Travel arrangement and reservation services | 1 | 0.280092 | 0.249942 | 1.530034 |
| | 462 | Colleges, universities, and junior colleges | 1 | 0.172472 | 0.185763 | 1.358235 |
| | 463 | Other educational services | 1 | 0.139669 | 0.134003 | 1.273672 |
| | 474 | Promoters of performing arts and sports and agents | 1 | 0.057098 | 0.067434 | 1.124532 |
| | 493 | Civic, social, professional and similar organizations | 1 | 0.154221 | 0.126406 | 1.280627 |
| Non-NASCAR Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.617758 | 0.543571 | 2.161329 |
| Short Track Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.617758 | 0.543571 | 2.161329 |
| Drag Track Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.617758 | 0.543571 | 2.161329 |
| Tourism | 4XB | Blended Tourism | 1 | 0.174355 | 0.160986 | 1.335341 |

Table 4.19 contains the estimated annual output impact on the North Carolina's Southeast economy by the motorsports industry, organized by motorsports sector and IMPLAN Industry Code. In 2005, total direct spending by all motorsports related firms in the region was \$79,924,833. In addition to the direct output impacts there was \$19,164,017 of indirect (supplier chain) output impacts and \$17,485,938 of induced economic impacts. The total output impact of the motorsports industry on the North Carolina's Southeast economy in 2005 was \$116,574,788.

Table 4.19
North Carolina's Northeast Partnership Output Impacts by Sector

| Industry | Direct | Indirect | Induced | Total |
|---------------------------|--------------|--------------|--------------|---------------|
| NASCAR Teams | ND | ND | ND | ND |
| Suppliers | \$15,796,285 | \$4,158,283 | \$2,629,431 | \$22,584,001 |
| NASCAR Testing | ND | ND | ND | ND |
| Marketing | ND | ND | ND | ND |
| Retail | ND | ND | ND | ND |
| Major Track | ND | ND | ND | ND |
| Drag Track | \$5,427,154 | \$293,164 | \$2,724,806 | \$8,445,124 |
| Short Track | \$4,024,590 | \$217,400 | \$2,020,622 | \$6,262,612 |
| Museums | ND | ND | ND | ND |
| Sanctioning Organizations | ND | ND | ND | ND |
| Miscellaneous Firms | \$1,144,234 | \$191,754 | \$400,765 | \$1,736,752 |
| Non-NASCAR Teams | ND | ND | ND | ND |
| Short Track Teams | \$16,704,000 | \$4,472,663 | \$2,869,664 | \$24,046,327 |
| Drag Track Teams | \$30,636,000 | \$8,203,095 | \$5,263,112 | \$44,102,207 |
| Tourism | \$2,000,000 | \$634,821 | \$572,758 | \$3,207,579 |
| Totals | \$79,924,833 | \$19,164,017 | \$17,485,938 | \$116,574,788 |

Table 4.20 presents the 2005 impact of the motorsports industry on North Carolina's Southeast employment. Overall the motorsports industry generated a total of 630 jobs in 2005 for the region, consisting of 339 direct jobs, 152 indirect (supplier chain) jobs, and 139 induced jobs.

Table 4.20 North Carolina's Northeast Partnership Employment Impacts by Sector

| Industry | Direct | Indirect | Induced | Total |
|---------------------------|--------|----------|---------|-------|
| NASCAR Teams | ND | ND | ND | ND |
| Suppliers | 41 | 27 | 24 | 92 |
| NASCAR Testing | ND | ND | ND | ND |
| Marketing | ND | ND | ND | ND |
| Retail | ND | ND | ND | ND |
| Major Track | ND | ND | ND | ND |
| Drag Track | 25 | 0 | 2 | 27 |
| Short Track | 27 | 1 | 2 | 30 |
| Museums | ND | ND | ND | ND |
| Sanctioning Organizations | ND | ND | ND | ND |
| Miscellaneous Firms | 13 | 2 | 2 | 17 |
| Non-NASCAR Teams | ND | ND | ND | ND |
| Short Track Teams | 64 | 40 | 35 | 139 |
| Drag Track Teams | 118 | 73 | 64 | 255 |
| Tourism | 26 | 5 | 4 | 35 |
| Totals | 339 | 152 | 139 | 630 |

North Carolina's Eastern Region Results: The North Carolina's Eastern Region economic development area is comprised of the 13 counties located in the southeast corner of the state (Figure 4.6). This region has 11 percent of the NC population and the region's labor force is about 10 percent of the NC labor force. The largest employment sectors in this region are wholesale/retail trade, government, and manufacturing and the fastest growing sectors in the region are agriculture and services.

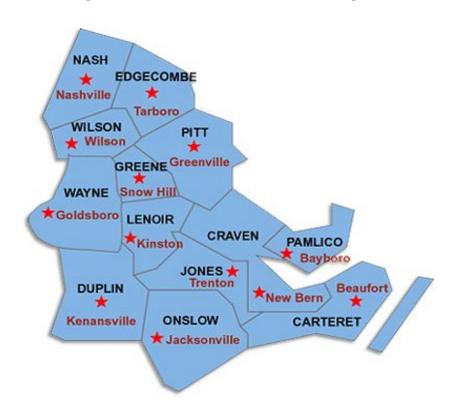


Figure 4.6: North Carolina's Eastern Region

Table 4.21 and Table 4.22 present the output and employment multipliers for the North Carolina's Eastern Region by motorsports sector and IMPLAN Industry Code. These tables only present multipliers for the motorsports sectors and IMPLAN Industry Codes for firms in the North Carolina's Eastern Region. Table 4.21 shows that for each dollar of direct expenditure by a NASCAR Team (IMPLAN Industry Code 350) there are 23.96 cents spent in indirect (supplier chain) industries within the region and 16.48 cents in induced spending within the region, so that the total regional output impact of \$1 spent by the NASCAR Teams are \$1.40. Each of the output multipliers in this table can be interpreted in a similar manner. Table 4.22 shows that in this region, for each direct job at a NASCAR Team (IMPLAN Industry Code 350) there are 0.54

indirect (supplier chain) jobs, as well as 0.54 induced jobs, which (added to the direct job) adds up to 2.08 total jobs. Each of the employment multipliers in Table 4.22 can be interpreted in a similar manner.

Table 4.21
North Carolina's Eastern Partnership Output Multipliers by Industry and by IMPLAN Sector

| Industry | IMPLAN Code | IMPLAN Sector | Direct Effects | Indirect Effects | Induced Effects | Total Effects |
|---------------------------|----------------|---|-------------------|---------------------|--------------------|------------------|
| NASCAR Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.239640 | 0.164814 | 1.404454 |
| Suppliers | 139 | Commercial printing | 1 | 0.214449 | 0.195055 | 1.409504 |
| | 145 | Petroleum lubricating oil and grease manufacturing | | | | |
| | 180 | Rubber and plastics hose and belting manufacturing | | | | |
| | 205 | Iron, steel pipe and tube from purchased steel | | | | |
| | 247 | Electroplating, anodizing, and coloring metal | 1 | 0.160286 | 0.359658 | 1.519944 |
| | 286 | Other engine equipment manufacturing | 1 | 0.232661 | 0.130318 | 1.362980 |
| | 347 | Truck trailer manufacturing | | | | |
| | 350 | Motor vehicle parts manufacturing | 1 | 0.239640 | 0.164814 | 1.404454 |
| | 358 | Boat building | | | | |
| | 359 | Motorcycle, bicycle, and parts manufacturing | | | | |
| | 391 | Air transportation | 1 | 0.394821 | 0.193949 | 1.588770 |
| | 440 | Specialized design services | | | | |
| | 446 | Scientific research and development services | 1 | 0.058411 | 0.513249 | 1.571660 |
| NASCAR Testing | 446 | Scientific research and development services | 1 | 0.058411 | 0.513249 | 1.571660 |
| Marketing | 450 | All other miscellaneous professional and technical | 1 | 0.082605 | 0.156695 | 1.239300 |
| Retail | 139 | Commercial printing | 1 | 0.214449 | 0.195055 | 1.409504 |
| | 350 | Motor vehicle parts manufacturing | 1 | 0.239640 | 0.164814 | 1.404454 |
| | 402 | Furniture and home furnishings stores | 1 | 0.216730 | 0.289507 | 1.506237 |
| | 408 | Clothing and clothing accessories stores | 1 | 0.208193 | 0.286814 | 1.495007 |
| | 411 | Miscellaneous store retailers | 1 | 0.319238 | 0.261723 | 1.580961 |
| Major Track | 472 | Spectator sports | 1 | 0.043641 | 0.483899 | 1.527540 |
| Drag Track | 472 | Spectator sports | 1 | 0.043641 | 0.483899 | 1.527540 |
| Short Track | 472 | Spectator sports | 1 | 0.043641 | 0.483899 | 1.527540 |
| Museums | 475 | Museums, historical sites, zoos, and parks | 1 | 0.482348 | 0.224788 | 1.707136 |
| Sanctioning Organizations | 474 | Promoters of performing arts and sports and agents | 1 | 0.136667 | 0.234340 | 1.371006 |
| Miscellaneous Firms | 393 | Water transportation | | | | |
| | 446 | Scientific research and development services | 1 | 0.058411 | 0.513249 | 1.571660 |
| | 447 | Advertising and related services | | | | |
| | 456 | Travel arrangement and reservation services | | | | |
| | 462 | Colleges, universities, and junior colleges | 1 | 0.206146 | 0.410357 | 1.616502 |
| | 463 | Other educational services | 1 | 0.182322 | 0.286385 | 1.468707 |
| | 474 | Promoters of performing arts and sports and agents | 1 | 0.136667 | 0.234340 | 1.371006 |
| | 493 | Civic, social, professional and similar organizations | | | | |
| Non-NASCAR Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.239640 | 0.164814 | 1.404454 |
| Short Track Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.239640 | 0.164814 | 1.404454 |
| Drag Track Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.239640 | 0.164814 | 1.404454 |
| Tourism | 4XB | Blended Tourism | | | | |

Table 4.22

North Carolina's Eastern Partnership Employment Multipliers by Industry and by IMPLAN Sector

| Industry | IMPLAN Code | IMPLAN Sector | Direct Effects | Indirect Effects | Induced Effects | Total Effects |
|---------------------------|----------------|---|-------------------|---------------------|--------------------|------------------|
| NASCAR Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.543818 | 0.53689 | 2.080708 |
| Suppliers | 139 | Commercial printing | 1 | 0.243255 | 0.280202 | 1.523457 |
| | 145 | Petroleum lubricating oil and grease manufacturing | | | | |
| | 180 | Rubber and plastics hose and belting manufacturing | | | | |
| | 205 | Iron, steel pipe and tube from purchased steel | | | | |
| | 247 | Electroplating, anodizing, and coloring metal | 1 | 0.088732 | 0.272444 | 1.361176 |
| | 286 | Other engine equipment manufacturing | 1 | 0.790993 | 0.693717 | 2.484710 |
| | 347 | Truck trailer manufacturing | | | | |
| | 350 | Motor vehicle parts manufacturing | 1 | 0.543818 | 0.536890 | 2.080708 |
| | 358 | Boat building | 1 | 0.245641 | 0.330227 | 1.575868 |
| | 359 | Motorcycle, bicycle, and parts manufacturing | | | | |
| | 391 | Air transportation | 1 | 0.949068 | 0.391951 | 2.341019 |
| | 440 | Specialized design services | 1 | 0.202039 | 0.244982 | 1.447021 |
| | 446 | Scientific research and development services | 1 | 0.041421 | 0.308242 | 1.349663 |
| NASCAR Testing | 450 | Scientific research and development services | 1 | 0.132132 | 0.204245 | 1.336377 |
| Marketing | 139 | All other miscellaneous professional and technical | 1 | 0.243255 | 0.280202 | 1.523457 |
| Retail | 350 | Motor vehicle parts manufacturing | 1 | 0.543818 | 0.536890 | 2.080708 |
| | 402 | Furniture and home furnishings stores | 1 | 0.167683 | 0.214469 | 1.382152 |
| | 408 | Clothing and clothing accessories stores | 1 | 0.097266 | 0.128302 | 1.225568 |
| | 411 | Miscellaneous store retailers | 1 | 0.196988 | 0.154636 | 1.351624 |
| | 472 | Spectator sports | 1 | 0.008972 | 0.040217 | 1.049189 |
| Major Track | 472 | Spectator sports | 1 | 0.008972 | 0.040217 | 1.049189 |
| Drag Track | 472 | Spectator sports | 1 | 0.008972 | 0.040217 | 1.049189 |
| Short Track | 475 | Museums, historical sites, zoos, and parks | 1 | 0.609789 | 0.168972 | 1.778761 |
| Museums | 474 | Promoters of performing arts and sports and agents | 1 | 0.050140 | 0.065576 | 1.115716 |
| Sanctioning Organizations | 393 | Water transportation | 1 | 3.700486 | 1.413293 | 6.113779 |
| Miscellaneous Firms | 446 | Scientific research and development services | 1 | 0.041421 | 0.308242 | 1.349663 |
| | 446 | Scientific research and development services | 1 | 0.041421 | 0.308242 | 1.349663 |
| | 447 | Advertising and related services | 1 | 0.217216 | 0.452600 | 1.669816 |
| | 456 | Travel arrangement and reservation services | 1 | 0.247442 | 0.195201 | 1.442643 |
| | 462 | Colleges, universities, and junior colleges | 1 | 0.160643 | 0.237262 | 1.397905 |
| | 463 | Other educational services | 1 | 0.140433 | 0.147471 | 1.287904 |
| | 474 | Promoters of performing arts and sports and agents | 1 | 0.050140 | 0.065576 | 1.115716 |
| | 493 | Civic, social, professional and similar organizations | 1 | 0.148479 | 0.115551 | 1.264030 |
| Non-NASCAR Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.543818 | 0.536890 | 2.080708 |
| Short Track Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.543818 | 0.536890 | 2.080708 |
| Drag Track Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.543818 | 0.536890 | 2.080708 |
| Tourism | 4XB | Blended Tourism | | | | |

Table 4.23 contains the estimated annual output impact on the North Carolina's Eastern Region economy by the motorsports industry, organized by motorsports sector and IMPLAN Industry Code. In 2005, total direct spending by all motorsports related firms in the region was \$94,832,071. In addition to the direct output impacts there was \$19,598,050 of indirect (supplier chain) output impacts and \$20,712,631 of induced economic impacts. The total output impact of

the motorsports industry on the North Carolina's Eastern Region economy in 2005 was \$135,142,754.

Table 4.23 North Carolina's Eastern Region Output Impacts by Sector

| Industry | Direct | Indirect | Induced | Total |
|---------------------|--------------|--------------|--------------|---------------|
| NASCAR Teams | ND | ND | ND | ND |
| Suppliers | \$12,067,039 | \$2,879,716 | \$1,929,358 | \$16,876,115 |
| NASCAR Testing | ND | ND | ND | ND |
| Marketing | ND | ND | ND | ND |
| Retail | ND | ND | ND | ND |
| Major Track | ND | ND | ND | ND |
| Drag Track | ND | ND | ND | ND |
| Short Track | \$15,126,840 | \$660,150 | \$7,319,863 | \$23,106,853 |
| Museums | ND | ND | ND | ND |
| Sanctioning | | | | |
| Organizations | ND | ND | ND | ND |
| Miscellaneous Firms | ND | ND | ND | ND |
| Non-NASCAR Teams | \$33,143,728 | \$7,942,563 | \$5,462,550 | \$46,548,841 |
| Short Track Teams | \$16,704,000 | \$4,002,947 | \$2,753,053 | \$23,460,000 |
| Drag Track Teams | \$16,724,000 | \$4,007,739 | \$2,756,349 | \$23,488,089 |
| Tourism | ND | ND | ND | ND |
| Totals | \$94,832,071 | \$19,598,050 | \$20,712,631 | \$135,142,754 |

Table 4.24 North Carolina's Eastern Region Employment Impacts by Sector

| Industry | Direct | Indirect | Induced | Total |
|---------------------------|--------|----------|---------|-------|
| NASCAR Teams | ND | ND | ND | ND |
| Suppliers | 37 | 22 | 21 | 81 |
| NASCAR Testing | ND | ND | ND | ND |
| Marketing | ND | ND | ND | ND |
| Retail | ND | ND | ND | ND |
| Major Track | ND | ND | ND | ND |
| Drag Track | ND | ND | ND | ND |
| Short Track | 146 | 89 | 25 | 260 |
| Museums | ND | ND | ND | ND |
| Sanctioning Organizations | ND | ND | ND | ND |
| Miscellaneous Firms | ND | ND | ND | ND |
| Non-NASCAR Teams | 99 | 54 | 53 | 206 |
| Short Track Teams | 64 | 35 | 34 | 133 |
| Drag Track Teams | 64 | 35 | 34 | 133 |
| Tourism | ND | ND | ND | ND |
| Totals | 425 | 235 | 169 | 829 |

Table 4.24 presents the 2005 impact of the motorsports industry on North Carolina's Eastern Region employment. Overall the motorsports industry generated a total of 829 jobs in

2005 for the region, consisting of 425 direct jobs, 235 indirect (supplier chain) jobs, and 169 induced jobs.

North Carolina's Northeast Partnership Results: The North Carolina's Northeast Partnership economic development region is comprised of the 16 counties located in the southeast corner of the state (Figure 4.7). This region has 4 percent of the NC population and the region's labor force is about 4 percent of the NC labor force. The largest employment sectors in this region are wholesale/retail trade and manufacturing and the fastest growing sectors in the region are agriculture, construction, and services.

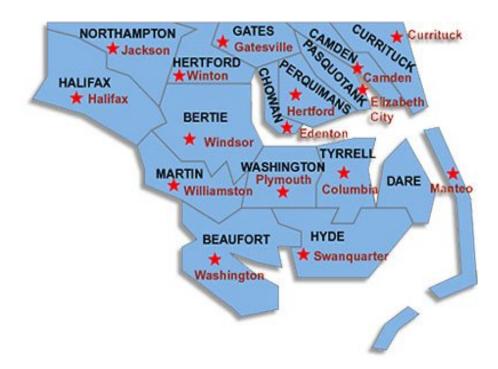


Figure 4.7: North Carolina's Northeast Partnership Region

Table 4.25 and Table 4.26 present the output and employment multipliers for the North Carolina's Northeast Partnership region by motorsports sector and IMPLAN Industry Code. These tables only present multipliers for the motorsports sectors and IMPLAN Industry Codes for firms in the North Carolina's Northeast Partnership region. Table 4.25 shows that for each dollar of direct expenditure by NASCAR Team (IMPLAN Industry Code 350) there are 19.16 cents spent in indirect (supplier chain) industries within the region and 13.48 cents in induced spending within the region, so that the total regional output impact of \$1 spent by a NASCAR Team increases regional output by \$1.33. Each of the output multipliers in this table can be interpreted in a similar manner. Table 4.26 shows that in this region, for each direct job at a

NASCAR Team (IMPLAN Industry Code 350) there are 0.52 indirect (supplier chain) jobs, as well as 0.47 induced jobs, which (added to the direct job) sums to 1.99 total jobs. Each of the employment multipliers in Table 4.26 can be interpreted in a similar manner.

Table 4.25
North Carolina's Northeast Partnership Output Multipliers by Industry and by IMPLAN Sector

| Industry | IMPLAN Code | IMPLAN Sector | Direct Effects | Indirect Effects | Induced Effects | Total Effects |
|---------------------------|----------------|---|-------------------|---------------------|--------------------|------------------|
| NASCAR Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.191616 | 0.134770 | 1.326386 |
| Suppliers | 139 | Commercial printing | 1 | 0.164775 | 0.182203 | 1.346978 |
| | 145 | Petroleum lubricating oil and grease manufacturing | | | | |
| | 180 | Rubber and plastics hose and belting manufacturing | | | | |
| | 205 | Iron, steel pipe and tube from purchased steel | | | | |
| | 247 | Electroplating, anodizing, and coloring metal | | | | |
| | 286 | Other engine equipment manufacturing | 1 | 0.232661 | 0.130318 | 1.362980 |
| | 347 | Truck trailer manufacturing | | | | |
| | 350 | Motor vehicle parts manufacturing | 1 | 0.191616 | 0.134770 | 1.326386 |
| | 358 | Boat building | 1 | 0.120104 | 0.178576 | 1.298679 |
| | 359 | Motorcycle, bicycle, and parts manufacturing | | | | |
| | 391 | Air transportation | 1 | 0.109015 | 0.356016 | 1.465031 |
| | 440 | Specialized design services | 1 | 0.152204 | 0.216410 | 1.368614 |
| | 446 | Scientific research and development services | 1 | 0.097597 | 0.395118 | 1.492715 |
| NASCAR Testing | 446 | Scientific research and development services | 1 | 0.097597 | 0.395118 | 1.492715 |
| Marketing | 450 | All other miscellaneous professional and technical | 1 | 0.069867 | 0.138152 | 1.208019 |
| Retail | 139 | Commercial printing | 1 | 0.164775 | 0.182203 | 1.346978 |
| | 350 | Motor vehicle parts manufacturing | 1 | 0.191616 | 0.134770 | 1.326386 |
| | 402 | Furniture and home furnishings stores | 1 | 0.188916 | 0.258787 | 1.447704 |
| | 408 | Clothing and clothing accessories stores | 1 | 0.181623 | 0.256156 | 1.437780 |
| | 411 | Miscellaneous store retailers | 1 | 0.284608 | 0.229372 | 1.513980 |
| Major Track | 472 | Spectator sports | 1 | 0.042864 | 0.439671 | 1.482534 |
| Drag Track | 472 | Spectator sports | 1 | 0.042864 | 0.439671 | 1.482534 |
| Short Track | 472 | Spectator sports | 1 | 0.042864 | 0.439671 | 1.482534 |
| Museums | 475 | Museums, historical sites, zoos, and parks | 1 | 0.333456 | 0.161626 | 1.495082 |
| Sanctioning Organizations | 474 | Promoters of performing arts and sports and agents | 1 | 0.202423 | 0.224594 | 1.427017 |
| Miscellaneous Firms | 393 | Water transportation | 1 | 0.335929 | 0.159026 | 1.494955 |
| | 446 | Scientific research and development services | 1 | 0.097597 | 0.395118 | 1.492715 |
| | 447 | Advertising and related services | 1 | 0.127594 | 0.298053 | 1.425647 |
| | 456 | Travel arrangement and reservation services | 1 | 0.267493 | 0.222645 | 1.490139 |
| | 462 | Colleges, universities, and junior colleges | 1 | 0.262821 | 0.293256 | 1.556077 |
| | 463 | Other educational services | 1 | 0.212800 | 0.196398 | 1.409198 |
| | 474 | Promoters of performing arts and sports and agents | 1 | 0.202423 | 0.224594 | 1.427017 |
| | 493 | Civic, social, professional and similar organizations | 1 | 0.288172 | 0.250892 | 1.539063 |
| Non-NASCAR Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.191616 | 0.134770 | 1.326386 |
| Short Track Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.191616 | 0.134770 | 1.326386 |
| Drag Track Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.191616 | 0.134770 | 1.326386 |
| Tourism | 4XB | Blended Tourism | 1 | 0.251256 | 0.239269 | 1.490526 |

Table 4.26
North Carolina's Norheast Partnership Employment Multipliers by Industry and by IMPLAN Sector

| Industry | IMPLAN Code | IMPLAN Sector | Direct Effects | Indirect Effects | Induced Effects | Total Effects |
|---------------------------|----------------|---|-------------------|---------------------|--------------------|------------------|
| NASCAR Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.524303 | 0.466823 | 1.991126 |
| Suppliers | 139 | Commercial printing | 1 | 0.238588 | 0.307136 | 1.545724 |
| | 145 | Petroleum lubricating oil and grease manufacturing | | | | |
| | 180 | Rubber and plastics hose and belting manufacturing | | | | |
| | 205 | Iron, steel pipe and tube from purchased steel | | | | |
| | 247 | Electroplating, anodizing, and coloring metal | | | | |
| | 286 | Other engine equipment manufacturing | 1 | 0.790993 | 0.693717 | 2.484710 |
| | 347 | Truck trailer manufacturing | | | | |
| | 350 | Motor vehicle parts manufacturing | 1 | 0.524303 | 0.466823 | 1.991126 |
| | 358 | Boat building | 1 | 0.203650 | 0.386421 | 1.590071 |
| | 391 | Air transportation | 1 | 1.158821 | 3.463841 | 5.622662 |
| | 359 | Motorcycle, bicycle, and parts manufacturing | | | | |
| | 440 | Specialized design services | 1 | 0.130761 | 0.169779 | 1.300540 |
| | 446 | Scientific research and development services | 1 | 0.033028 | 0.140138 | 1.173166 |
| NASCAR Testing | 446 | Scientific research and development services | 1 | 0.033028 | 0.140138 | 1.173166 |
| Marketing | 450 | All other miscellaneous professional and technical | 1 | 0.115246 | 0.200426 | 1.315672 |
| Retail | 139 | Commercial printing | 1 | 0.238588 | 0.307136 | 1.545724 |
| | 350 | Motor vehicle parts manufacturing | 1 | 0.524303 | 0.466823 | 1.991126 |
| | 402 | Furniture and home furnishings stores | 1 | 0.184562 | 0.234139 | 1.418701 |
| | 408 | Clothing and clothing accessories stores | 1 | 0.108705 | 0.141986 | 1.250691 |
| | 411 | Miscellaneous store retailers | 1 | 0.204766 | 0.152830 | 1.357596 |
| Major Track | 472 | Spectator sports | 1 | 0.012042 | 0.055910 | 1.067952 |
| Drag Track | 472 | Spectator sports | 1 | 0.012042 | 0.055910 | 1.067952 |
| Short Track | 472 | Spectator sports | 1 | 0.012042 | 0.055910 | 1.067952 |
| Museums | 475 | Museums, historical sites, zoos, and parks | 1 | 0.871005 | 0.132906 | 2.003911 |
| Sanctioning Organizations | 474 | Promoters of performing arts and sports and agents | 1 | 0.079250 | 0.071050 | 1.150300 |
| Miscellaneous Firms | 393 | Water transportation | 1 | 3.323106 | 1.786167 | 6.109273 |
| | 446 | Scientific research and development services | 1 | 0.033028 | 0.140138 | 1.173166 |
| | 447 | Advertising and related services | 1 | 0.073931 | 0.162297 | 1.236228 |
| | 456 | Travel arrangement and reservation services | 1 | 0.238557 | 0.187512 | 1.426069 |
| | 462 | Colleges, universities, and junior colleges | 1 | 0.211011 | 0.132100 | 1.343111 |
| | 463 | Other educational services | 1 | 0.092998 | 0.037955 | 1.130953 |
| | 474 | Promoters of performing arts and sports and agents | 1 | 0.079250 | 0.071050 | 1.150300 |
| | 493 | Civic, social, professional and similar organizations | 1 | 0.167161 | 0.102170 | 1.269331 |
| Non-NASCAR Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.524303 | 0.466823 | 1.991126 |
| Short Track Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.524303 | 0.466823 | 1.991126 |
| Drag Track Teams | 350 | Motor vehicle parts manufacturing | 1 | 0.524303 | 0.466823 | 1.991126 |
| Tourism | 4XB | Blended Tourism | 1 | 0.161775 | 0.148660 | 1.310435 |

Table 4.27 contains the estimated annual output impact on the North Carolina's Northeast Partnership economy by the motorsports industry, organized by motorsports sector and IMPLAN Industry Code. In 2005, total direct spending by all motorsports related firms in the region was \$114,291,921. In addition to the direct output impacts, there was \$16,356,355 of indirect (supplier chain) output impacts and \$22,145,273 of induced economic impacts. The total output

impact of the motorsports industry on the North Carolina's Northeast Partnership economy in 2005 was \$152,793,470.

Table 4.27
North Carolina's Southeast Output Impacts by Sector

| Industry | Direct | Indirect | Induced | Total |
|---------------------|---------------|--------------|--------------|---------------|
| NASCAR Teams | ND | ND | ND | ND |
| Suppliers | \$75,866,017 | \$9,271,850 | \$13,458,233 | \$98,596,026 |
| NASCAR Testing | ND | ND | ND | ND |
| Marketing | ND | ND | ND | ND |
| Retail | ND | ND | ND | ND |
| Major Track | \$4,000,000 | \$171,456 | \$1,758,684 | \$5,930,136 |
| Drag Track | ND | ND | ND | ND |
| Short Track | \$1,849,384 | \$79,272 | \$813,121 | \$2,741,775 |
| Museums | ND | ND | ND | ND |
| Sanctioning | | | | |
| Organizations | ND | ND | ND | ND |
| Miscellaneous Firms | ND | ND | ND | ND |
| Non-NASCAR Teams | \$4,000,000 | \$766,464 | \$539,080 | \$5,305,544 |
| Short Track Teams | \$8,362,000 | \$1,602,293 | \$1,126,947 | \$11,091,240 |
| Drag Track Teams | \$8,362,000 | \$1,602,293 | \$1,126,947 | \$11,091,240 |
| Tourism | \$5,000,000 | \$1,256,281 | \$1,196,346 | \$7,452,629 |
| Totals | \$114,291,921 | \$16,356,355 | \$22,145,273 | \$152,793,470 |

Table 4.28
North Carolina's Southeast Employment Impacts by Sector

| Industry | Direct | Indirect | Induced | Total |
|---------------------------|--------|----------|---------|-------|
| NASCAR Teams | ND | ND | ND | ND |
| Suppliers | 423 | 90 | 165 | 677 |
| NASCAR Testing | ND | ND | ND | ND |
| Marketing | ND | ND | ND | ND |
| Retail | ND | ND | ND | ND |
| Major Track | 100 | 1 | 6 | 107 |
| Drag Track | ND | ND | ND | ND |
| Short Track | 31 | 0 | 2 | 33 |
| Museums | ND | ND | ND | ND |
| Sanctioning Organizations | ND | ND | ND | ND |
| Miscellaneous Firms | ND | ND | ND | ND |
| Non-NASCAR Teams | 16 | 8 | 7 | 32 |
| Short Track Teams | 32 | 17 | 15 | 65 |
| Drag Track Teams | 32 | 17 | 15 | 65 |
| Tourism | 65 | 11 | 10 | 86 |
| Totals | 719 | 147 | 221 | 1,087 |

43

Table 4.28 presents the 2005 impact of the motorsports industry on North Carolina's Eastern Region employment. Overall the motorsports industry generated a total of 1,087 jobs in 2005 for the region, consisting of 719 direct jobs, 147 indirect (supplier chain) jobs, and 221 induced jobs.

Section 5: 2003-2005 Motorsports Industry Growth

The 2005 impact levels show significant growth versus the results reported for 2003 in our earlier study. Table 5.1 presents the 2003 and 2005 motorsports output and employment impacts. This table also shows the changes in output and employment supported by the Motorsports industry over this two year period.

Table 5.1 2003 - 2005 Impact Changes

| Impact | 2003 | 2005 | Change | Percent Change |
|--------------------------|-----------------|-----------------|---------------|----------------|
| Direct Output | \$3,190,279,409 | \$3,765,722,321 | \$575,442,912 | 18.00% |
| Total Output | \$5,075,067,394 | \$5,902,260,336 | \$827,192,942 | 16.30% |
| Direct Employment | 12,942 | 14,298 | 1,356 | 11.70% |
| Total Employment | 24,406 | 27,252 | 2,846 | 11.90% |

The table shows an increase in the total motorsports output impact on the state economy of \$827,192,942. This increase was made up of \$575,442,912 direct impact by the fourteen motorsports related industries, while the remainder was indirect (supplier chain) and induced output impacts. This represents an eighteen percent two-year increase in the direct output impact and a 16.3% two-year increase in the total output impact. If the change in price levels between 2003 and 2005 of 4.6% is subtracted from the total growth of 16.3% the inflation adjusted growth rate in total output is 11.7% or real growth per year of 5.85%. This is significantly larger than the overall real rate of growth for the state economy (3.4%) over the same two-year period.

The table also shows that direct motorsports employment increased by 1,356 jobs (11.7% growth) and total employment increased by 2,846 jobs (11.9% growth) over the same two-year period. This increased motorsports related employment, along with the growth in real output, is consistent with a healthy and expanding North Carolina motorsports industry.

The continued growth in output and employment of the motorsports industry has been driven by a number of related factors. These factors include (1) the creation, in 1995, and growth of the NASCAR Craftsmen Truck Series, (2) the rapid growth and increasing popularity

of the NASCAR Busch Series, (3) the NASCAR television package signed in 2000 which has increased national exposure and built the NASCAR fan base, (4) the open wheel sanctioning split which has shifted many fans to NASCAR sanctioned racing, (5) the construction and promotion of new tracks across the country hosting NASCAR sanctioned races, and (6) the rapid increase in the cost of major sponsorships for companies wishing to identify with NASCAR teams. It should be clear from this list that the growth of the motorsports industry in North Carolina is driven by the significant presence of NASCAR related businesses located in the state.

Section 6: Sector Occupational and Educational Results

This section of the report presents the occupational and educational findings of the study. The survey instruments mailed to the firms in different sectors of the motorsports industry contained a section on the occupational make-up and educational levels of their work force. The occupational breakdown was limited to the U.S. Department of Labor, Bureau of Labor Statistics Major Occupational Groups (MOG) definitions. This limitation on occupational categories was done to maximize survey response and result quality. The nine MOG categories are listed below with some occupation descriptions.

1. Major Occupational Group (MOG) A: Professional And Technical Occupations

BLS sub-groups include: Engineers, Architects, and Surveyors

Mathematical And Computer Scientists

Health Diagnosing Occupations

Lawyers And Judges

Health Technologists And Technicians

Engineering And Related Technologists And Technicians

Science Technicians Miscellaneous Technicians

2. Major Occupational Group (MOG) B:

Executive, Administrative, And Managerial Occupations

- 3. Major Occupational Group (MOG) C: Sales Occupations
- 4. Major Occupational Group (MOG) D:

Administrative Support Occupations, Including Clerical

BLS sub-groups include: Supervisors, Clerical And Administrative Support

Computer Equipment Operators

Secretaries, Stenographers, And Typists

Information Clerks

Records Processing Clerks, Except Financial

Financial Records Processing Clerks

Duplicating, Mail, And Other Office Machine Operators

Communications Equipment Operators

Mail And Message Distributing Occupations

Material Recording, Scheduling, And Distributing Clerks

Adjusters And Investigators

Miscellaneous Administrative Support Occupations

5. Major Occupational Group (MOG) E:

Precision Production, Craft, And Repair Occupations

BLS sub-groups include: Mechanics And Repairers

Precision Production Occupations Precision Metalworking Occupations Precision Woodworking Occupations

Precision Textile, Apparel, And Furnishings Machine Workers

Precision Workers, Assorted Materials Precision Food Production Occupations

Precision Inspectors, Testers, And Related Workers

Plant And System Operators

6. Major Occupational Group (MOG) F:

Machine Operators, Assemblers, And Inspectors

BLS sub-groups include: Metalworking And Plastic Working Machine Operators

Woodworking Machine Operators Printing Machine Operators

Textile, Apparel, And Furnishings Machine Operators

Machine Operators, Assorted Materials

Fabricators, Assemblers, And Hand Working Occupations Production Inspectors, Testers, Samplers, And Weighers

7. Major Occupational Group (MOG) G:

Transportation And Material Moving Occupations

BLS sub-groups include: Motor Vehicle Operators

Material Moving Equipment Operators

8. Major Occupational Group (MOG) H:

Handlers, Equipment Cleaners, Helpers, And Laborers

9. Major Occupational Group (MOG) K:

Service Occupations, Except Private Household

BLS sub-groups include: Protective Service Occupations

Food Service Occupations Health Service Occupations

Cleaning And Building Service Occupations

Personal Service Occupations

The survey results of the occupational study were limited and only the larger industry sectors had sample sizes that were large enough to be judged reliable. As a result, only three sectors; NASCAR Teams, Suppliers, and Marketing have occupational data reported in this

section. However, these three sectors account for three-quarters of the total direct employment and are the critical sectors in the regional cluster.

Table 6.1 presents the number of employees in NASCAR Teams by MOG and by educational level. There are nine MOG categories each with 3 educational levels. This results in 27 total occupational/educational combinations. The two largest groups are MOG 5 with High School or Less employment of 1,812 and MOG 6 with High School or Less employment of 727. Together these two groups account for 57.1 percent of the sector's employment. The category High School or Less includes all employees that do not have at least a two-year college degree. Overall, 3,046 of the 4,445 total jobs in NASCAR Teams are currently filled by employees who have a high school education or less. These are striking results when compared to the average compensation level of \$61,331. These are extremely well paying jobs that require a high level of skill. For the most part, these 3,046 jobs form the basis of the specialized labor core of the regional cluster. Table 6.2 presents similar information to Table 6.1, but in percentage terms.

Table 6.1
NASCAR Teams Major Occupational Groups: Employment and Educational Levels

| Major Occupational Group | College | 2-Year College | High School or Less | Total |
|---|---------|----------------|---------------------|-------|
| MOG 1 Professional and Technical | 399 | 9 | 13 | 422 |
| MOG 2 Executive, Administrative, and Managerial | 161 | 27 | 85 | 274 |
| MOG 3 Sales | 81 | 9 | 22 | 112 |
| MOG 4 Administrative Support | 81 | 58 | 63 | 202 |
| MOG 5 Precision Production, Craft, and Repair | 22 | 211 | 1,812 | 2,045 |
| MOG 6 Machine Operators, and Assemblers | 22 | 157 | 727 | 906 |
| MOG 7 Transportation and Material Moving | 112 | 36 | 229 | 377 |
| MOG 8 Handlers, Equipment Cleaners, and Helpers | 4 | 4 | 85 | 94 |
| MOG 9 Service | 0 | 4 | 9 | 13 |
| MOG Total | 884 | 516 | 3,046 | 4,445 |

Tables 6.3 and 6.4 present the same information for the Suppliers as Tables 6.1 and 6.2 do for NASCAR Teams. Overall, the employment total for Suppliers (4,716) is similar to that of NASCAR Teams (4,445). However, the MOG breakdown is quite different. The major difference is in MOG 2, MOG 3, and MOG 4 as Suppliers require a much larger number of administrators, sales, and support personnel. Over 45 percent of Supplier jobs are in these three

Table 6.2
NASCAR Teams Major Occupational Groups: Employment and Educational Levels

| | MOG Percent of Total | Percent College | Percent 2-Year College | Percent High School or Less |
|---|-------------------------|--------------------|---------------------------|--------------------------------|
| MOG 1 Professional and Technical | 9.49% | 94.68% | 2.13% | 3.19% |
| MOG 2 Executive, Administrative, and Managerial | 6.16% | 59.02% | 9.84% | 31.15% |
| MOG 3 Sales | 2.52% | 72.00% | 8.00% | 20.00% |
| MOG 4 Administrative Support | 4.54% | 40.00% | 28.89% | 31.11% |
| MOG 5 Precision Production, Craft, and Repair | 46.01% | 1.10% | 10.31% | 88.60% |
| MOG 6 Machine Operators, and Assemblers | 20.38% | 2.48% | 17.33% | 80.20% |
| MOG 7 Transportation and Material Moving | 8.48% | 29.76% | 9.52% | 60.71% |
| MOG 8 Handlers, Equipment Cleaners, and Helpers | 2.12% | 4.76% | 4.76% | 90.48% |
| MOG 9 Service | 0.30% | 0.00% | 33.33% | 66.67% |

categories compared to only 13 percent in NASCAR Teams. Again like NASCAR Teams the majority of Suppliers jobs are currently filled by employees who have a high school education or less. Overall, 3,373 of the 4,716 total jobs with Suppliers are currently filled by employees who have a high school education or less. This represents 71.5 percent of total Supplier jobs with a sector average compensation of \$68,879.

Table 6.3
Suppliers Major Occupational Groups: Employment and Educational Levels

| Major Occupational Group | College | 2-Year College | High School of Less | Total |
|---|---------|----------------|---------------------|-------|
| MOG 1 Professional and Technical | 328 | 45 | 149 | 522 |
| MOG 2 Executive, Administrative, and Managerial | 313 | 0 | 358 | 672 |
| MOG 3 Sales | 149 | 134 | 492 | 776 |
| MOG 4 Administrative Support | 119 | 15 | 552 | 687 |
| MOG 5 Precision Production, Craft, and Repair | 45 | 15 | 537 | 597 |
| MOG 6 Machine Operators, and Assemblers | 119 | 45 | 776 | 940 |
| MOG 7 Transportation and Material Moving | 0 | 15 | 254 | 269 |
| MOG 8 Handlers, Equipment Cleaners, and Helpers | 0 | 0 | 194 | 194 |
| MOG 9 Service | 0 | 0 | 60 | 60 |
| MOG Total | 1,075 | 269 | 3,373 | 4,716 |

Tables 6.5 and 6.6 present the same information for the Marketing firms as Tables 6.1 and 6.2 do for NASCAR Teams. Overall, the employment total for Marketing (1,768) is smaller than either NASCAR Teams (4,445) or Suppliers (4,716). Also, the MOG breakdown is quite different from either NASCAR Teams or Suppliers. The major difference is in MOG 1, MOG 2, MOG 3, and MOG 4 as Marketing firms require a much larger number of technical professionals,

Table 6.4
Suppliers Major Occupational Groups: Employment and Educational Levels

| | MOG Percent of Total | Percent College | Percent 2-Year College | Percent High School or Less |
|---|-------------------------|--------------------|---------------------------|--------------------------------|
| MOG 1 Professional and Technical | 11.08% | 62.86% | 8.57% | 28.57% |
| MOG 2 Executive, Administrative, and Managerial | 14.24% | 46.67% | 0.00% | 53.33% |
| MOG 3 Sales | 16.46% | 19.23% | 17.31% | 63.46% |
| MOG 4 Administrative Support | 14.56% | 17.39% | 2.17% | 80.43% |
| MOG 5 Precision Production, Craft, and Repair | 12.66% | 7.50% | 2.50% | 90.00% |
| MOG 6 Machine Operators, and Assemblers | 19.94% | 12.70% | 4.76% | 82.54% |
| MOG 7 Transportation and Material Moving | 5.70% | 0.00% | 5.56% | 94.44% |
| MOG 8 Handlers, Equipment Cleaners, and Helpers | 4.11% | 0.00% | 0.00% | 100.00% |
| MOG 9 Service | 1.27% | 0.00% | 0.00% | 100.00% |

administrators, sales, and support personnel. Over 86 percent of the Marketing jobs are in these four categories compared to only 23 percent in NASCAR Teams and 56 percent in Suppliers. Also quite different from both NASCAR Teams and Suppliers is the percentage of total jobs that are currently filled by employees who have a college degree or more. Over 61 percent of the Marketing jobs are currently filled by employees who have a four-year college degree. Only 20 percent of NASCAR Team jobs and 23 percent of Supplier jobs require a college degree.

Table 6.5

Marketing Major Occupational Groups: Employment and Educational Levels

| Major Occupational Group | College | 2-Year College | High School of Less | Total |
|---|---------|----------------|---------------------|-------|
| MOG 1 Professional and Technical | 203 | 0 | 61 | 264 |
| MOG 2 Executive, Administrative, and Managerial | 234 | 20 | 142 | 396 |
| MOG 3 Sales | 335 | 10 | 0 | 345 |
| MOG 4 Administrative Support | 285 | 102 | 142 | 528 |
| MOG 5 Precision Production, Craft, and Repair | 0 | 20 | 30 | 51 |
| MOG 6 Machine Operators, and Assemblers | 0 | 0 | 0 | 0 |
| MOG 7 Transportation and Material Moving | 30 | 10 | 132 | 173 |
| MOG 8 Handlers, Equipment Cleaners, and Helpers | 0 | 0 | 0 | 0 |
| MOG 9 Service | 0 | 0 | 10 | 10 |
| MOG Total | 1,087 | 163 | 518 | 1,768 |

Tables 6.7, 6.8, and 6.9 present summary information on MOG categories and educational levels. Table 6.7 presents industry employment by educational level. Overall, 6,937 of the 10,929 jobs in these three industries require a high school education or less. As shown in Table 6.8, this is

Table 6.6
Marketing Major Occupational Groups: Employment and Educational Levels

| | MOG | Percent | Percent | Percent |
|---|------------------|---------|----------------|---------------------|
| | Percent of Total | College | 2-Year College | High School or Less |
| MOG 1 Professional and Technical | 14.94% | 76.92% | 0.00% | 23.08% |
| MOG 2 Executive, Administrative, and Managerial | 22.41% | 58.97% | 5.13% | 35.90% |
| MOG 3 Sales | 19.54% | 97.06% | 2.94% | 0.00% |
| MOG 4 Administrative Support | 29.89% | 53.85% | 19.23% | 26.92% |
| MOG 5 Precision Production, Craft, and Repair | 2.87% | 0.00% | 40.00% | 60.00% |
| MOG 6 Machine Operators, and Assemblers | 0.00% | 0.00% | 0.00% | 0.00% |
| MOG 7 Transportation and Material Moving | 9.77% | 17.65% | 5.88% | 76.47% |
| MOG 8 Handlers, Equipment Cleaners, and Helpers | 0.00% | 0.00% | 0.00% | 0.00% |
| MOG 9 Service | 0.57% | 0.00% | 0.00% | 100.00% |

over 63 percent of the total jobs. Of the total of 10,929 jobs, 3,045 are currently filled by employees who have a college degree (27.9 percent of the total) and only 947 (8.7 percent) are currently filled by employees who have a two-year degree. Table 6.9 summarizes the percentage distribution of jobs by major sector and MOG.

Table 6.7 Industry Employment by Educational Level

| Industry | College | 2-Year College | High School or Less | Total |
|-----------|---------|----------------|---------------------|--------|
| NASCAR | 884 | 516 | 3,046 | 4,445 |
| Suppliers | 1,075 | 269 | 3,373 | 4,716 |
| Marketing | 1,087 | 163 | 518 | 1,768 |
| Sub Total | 3,045 | 947 | 6,937 | 10,929 |

Table 6.8 Industry Employment by Educational Level

| Industry | Percent College | Percent 2-Year College | Percent High School or Less | Total |
|-----------|-----------------|------------------------|-----------------------------|---------|
| NASCAR | 19.88% | 11.60% | 68.52% | 100.00% |
| Suppliers | 22.78% | 5.70% | 71.52% | 100.00% |
| Marketing | 61.49% | 9.20% | 29.31% | 100.00% |
| Sub Total | 27.87% | 8.67% | 63.47% | 100.00% |

Table 6.9
Major Occupational Group Percent of Employment by Industry

| | NASCAR Teams | Suppliers | Marketing |
|---|--------------|-----------|-----------|
| Major Occupational Group | | | |
| MOG 1 Professional and Technical | 9.49% | 11.08% | 14.94% |
| MOG 2 Executive, Administrative, and Managerial | 6.16% | 14.24% | 22.41% |
| MOG 3 Sales | 2.52% | 16.46% | 19.54% |
| MOG 4 Administrative Support | 4.54% | 14.56% | 29.89% |
| MOG 5 Precision Production, Craft, and Repair | 46.01% | 12.66% | 2.87% |
| MOG 6 Machine Operators, and Assemblers | 20.38% | 19.94% | 0.00% |
| MOG 7 Transportation and Material Moving | 8.48% | 5.70% | 9.77% |
| MOG 8 Handlers, Equipment Cleaners, and Helpers | 2.12% | 4.11% | 0.00% |
| MOG 9 Service | 0.30% | 1.27% | 0.57% |

Section 7: Summary and Conclusions

This study is a follow-up of an earlier study on the economic impact of the motorsports industry in North Carolina. The former study was released in September of 2004 and was based on data that was collected during the 2003 calendar year. This study is based on data collected for the motorsports industry in North Carolina for the 2005 calendar year and provides an update on the economic impact and a two-year growth analysis. In addition to the two-year follow-up of the original study, this study also adds occupational breakdowns of the various sectors within the motorsports industry and also provides educational requirements within the occupations by motorsports sector.

Summary of State Impacts: At the state level four different types of economic impacts generated by the motorsports industry were estimated based on 2005 information. These impacts include: (1) output impacts; (2) employment impacts; (3) employee compensation impacts; and (4) value added impacts. These impacts were estimated for each of the seven regional economic development areas and the state results are the sum of these regional estimates.

The direct economic impacts of the motorsports industry on the North Carolina economy in 2005 were estimated to have:

- increased output by almost 3.8 billion dollars (\$3,765,722,321);
- increased employment by 14,298 jobs;
- increased employee compensation by over 1.0 billion dollars (\$1,034,295,670) with an average direct compensation per job of \$72,337 per year; and
- increased value added by almost 1.6 billion dollars (\$1,586,547,682).

Adding the indirect and induced impacts to these direct impacts, the economic impacts of the motorsports industry on the North Carolina economy in 2005 were estimated to have:

- increased total output by over 5.9 billion dollars (\$5,902,260,336),
- increased total employment by 27,252 jobs,
- increased total employee compensation by almost 1.7 billion dollars (\$1,680,446,205), and
- increased total value added by almost 2.8 billion dollars (\$2,790,016,329).

Summary of Regional Impacts: The economic output and employment impacts of the motorsports industry on each of the economic development regions are summarized in Table 7.1. The largest regional economic impact of the motorsports industry is on the Charlotte Regional Partnership. This region had just under 2.9 billion dollars in direct output expenditures in 2005 and the total output impact on the region was over 4.5 billion dollars. Even in the economic development region with the smallest direct motorsports output impact, Research Triangle Partnership, the motorsports total 2005 output impact exceeded 73 million dollars.

Table 7.1
Aggregate Motorsports Output and Employment Impacts by Region

| Region | Direct Output | Total Output | Direct Employment | Total Employment |
|--|-----------------|---------------------|----------------------|---------------------|
| Advantage West | \$122,030,014 | \$188,651,222 | 598 | 979 |
| Charlotte Regional Partnership | \$2,879,532,187 | \$4,553,857,317 | 10,476 | 19,799 |
| Piedmont Triad Partnership | \$402,009,008 | \$642,580,379 | 1,550 | 3,553 |
| Research Triangle Regional Partnership | \$73,102,287 | \$112,660,406 | 191 | 375 |
| North Carolina's Southeast | \$79,924,833 | \$116,574,788 | 339 | 630 |
| North Carolina's Eastern Region | \$94,832,071 | \$135,142,754 | 425 | 829 |
| North Carolina's Northeast Partnership | \$114,291,921 | \$152,793,470 | 719 | 1,087 |
| Total | \$3,765,722,321 | \$5,902,260,336 | 14,298 | 27,252 |

The regional employment estimates indicate that in all seven regional economic development areas the motorsports industry employment impacts exceeded 300 total jobs in 2005. The table shows the largest employment impact of the motorsports industry is in the Charlotte Regional Partnership, with a direct employment impact of 10,476 jobs and a total employment impact of 19,799 jobs.

Summary of Sector Occupational and Educational Results: The survey results of the occupational study were limited and only the larger industry sectors provided sample sizes large

enough to be analyzed. As a result, only three sectors; NASCAR Teams, Suppliers, and Marketing have reported occupational results. However, these three sectors account for three quarters of total direct motorsports employment and are critical to the motorsports industry. The occupational breakdown was limited to the U.S. Department of Labor, Bureau of Labor Statistics Major Occupational Groups (MOG) definitions. This organization of occupational categories was done to maximize survey response and result quality.

Table 7.2 presents the overall results of the occupational employment findings. The most significant finding of the occupational study is the number of jobs classified in MOG 5 and MOG 6. Over 40 percent of the total jobs are classified as Precision Production, Craft, Repair, Machine Operators, Assemblers, and Inspectors. These are the occupations that build the cars and build the parts. Of the 4,539 jobs in these two categories, 3,883 or 85 percent are currently filled with employees with a high school degree or less. The importance of this is two fold. First, these jobs represent high quality, high paying jobs that would be difficult to replace with jobs in any other industry. Second, they represent an important localized skill labor pool that is essential to this industry and that would not be easily reproduced elsewhere.

| Tab | le 7.2 | | | | | |
|---|---------|----------------|---------------------|--------|--|--|
| Major Occupational Group: Employment and Educational Levels | | | | | | |
| Major Occupational Group | College | 2-Year College | High School or Less | Total | | |
| MOG 1 Professional and Technical | 931 | 54 | 224 | 1,208 | | |
| MOG 2 Executive, Administrative, and Managerial | 709 | 47 | 586 | 1,341 | | |
| MOG 3 Sales | 565 | 153 | 515 | 1,234 | | |
| MOG 4 Administrative Support | 485 | 175 | 757 | 1,417 | | |
| MOG 5 Precision Production, Craft, and Repair | 67 | 246 | 2,380 | 2,693 | | |
| MOG 6 Machine Operators, Assemblers, and Inspectors | 142 | 202 | 1,503 | 1,846 | | |
| MOG 7 Transportation and Material Moving | 143 | 61 | 615 | 818 | | |
| MOG 8 Handlers, Equipment Cleaners, Helpers, and Laborers | 4 | 4 | 279 | 288 | | |
| MOG 9 Service | 0 | 4 | 79 | 83 | | |
| MOG Total | 3,045 | 947 | 6,937 | 10,929 | | |

A second significant occupational/educational finding is presented in Table 7.3. There is an important difference in the educational requirements between the three largest sectors of the motorsports industry. Table 7.3 presents educational levels by sector. Both NASCAR Teams and Suppliers have similar educational make-ups. Both sectors have around 70 percent of their jobs that are currently filled by employees who have a high school degree or less and around 20 percent are currently filled by employees who have a college degree. The Marketing sector is

quite different with over 60 percent of jobs that are currently filled by employees who have a college degree and around 30 percent are currently filled by employees who have a high school degree or less.

Table 7.3
Industry Employment by Educational Level

| Industry | Percent College | Percent 2-Year College | Percent High School or Less | Total |
|-----------|-----------------|------------------------|-----------------------------|---------|
| NASCAR | 19.88% | 11.60% | 68.52% | 100.00% |
| Suppliers | 22.78% | 5.70% | 71.52% | 100.00% |
| Marketing | 61.49% | 9.20% | 29.31% | 100.00% |
| Sub Total | 27.87% | 8.67% | 63.47% | 100.00% |

Summary of 2003-2005 Motorsports Industry Growth: The 2005 impact levels show significant growth versus the results reported for 2003 in our earlier study. The results show an increase in the total motorsports output impact on the state economy of \$827,192,942. This increase was made up of \$575,442,912 direct impact by the 14 motorsports related industries and the remainder was indirect (supplier chain) and induced output impacts. This represents an 18.0 percent two-year increase in the direct output impact and a 16.3 percent two-year increase in the total output impact. If the change in price levels between 2003 and 2005 of 4.6 percent is subtracted from the total growth of 16.3 percent the inflation adjusted growth rate in total output is 11.7 percent, which produces a real growth rate of 5.85 percent per year. This is significantly larger than the overall real rate of growth for the state economy (3.4%) over the same two-year period.

The results also show that direct motorsports employment increased by 1,356 jobs (11.7% growth) and total employment increased by 2,846 jobs (11.9% growth) over the same two-year period. This increased motorsports related employment, along with the growth in real output, gives a clear picture of the healthy and expanding impact that the motorsports industry has on the North Carolina economy.

The continued growth in output and employment of the motorsports industry has been driven by a number of related factors. These factors include (1) the creation, in 1995, and growth of the NASCAR Craftsmen Truck Series, (2) the rapid growth and increasing popularity of the NASCAR Busch Series, (3) the NASCAR television package signed in 2000 which has increased national exposure and built the NASCAR fan base, (4) the open wheel sanctioning split which has shifted many fans to NASCAR sanctioned racing, (5) the construction and

promotion of new tracks across the country hosting NASCAR sanctioned races, and (6) the rapid increase in the cost of major sponsorships for companies wishing to identify with NASCAR teams. It should be clear from this list that the growth of the motorsports industry in North Carolina is driven by the significant presence of NASCAR related businesses located in the state.

This growth is expected to continue into the foreseeable future. This expectation is based on interviews, the survey results, and other industry related information. We project that over the next five years the motorsports industry in North Carolina will show an average output growth rate of 5 to 6 percent per year, and an average employment growth rate of 3 to 4 percent per year. The major factors behind these growth rates include (1) the increasing professionalism of the management of race teams and suppliers, (2) the continuing growth of spectator interest in NASCAR sanctioned racing reflected in a new television package, new tracks, and an increase in the geographical footprint of NASCAR racing, (3) the expansion of the demographic base of NASCAR fans, (4) the continuing growth of marketing opportunities for NASCAR team sponsors, and (5) the continuing increase in the number of manufacturers and marketing firms choosing to locate in the state to be closer to the NASCAR teams.

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Appendix A

North Carolina Counties By Regional Planning Area

Advantage West Region Piedmont Triad Partnership Region

Allegany Alamance Ashe Caswell Avery Davidson Buncombe Davie Burke Forsyth Caldwell Guilford Cherokee Montgomery Clay Randolph Rockingham Graham

Haywood Stokes Henderson Surry Jackson Yadkin

Macon

Madison Research Triangle Regional Partnership

Chatham McDowell Durham Mitchell Franklin Polk Rutherford Granville Harnett Swain Transylvania Johnston Watauga Lee Wilkes Moore Orange Yancey

Person Vance

Charlotte Regional Partnership

Alexander Wake Anson Warren

Cabarrus

Catawba North Carolina's Southeast Region

Cleveland Bladen
Gaston Brunswick
Iredell Columbus
Lincoln Cumberland

Mecklenburg Hoke

Rowan New Hanover

Stanly Pender
Union Richmond
Robeson
Sampson

Scotland

North Carolina's Eastern Region

Carteret

Craven

Duplin

Edgecombe

Greene

Jones

Lenoir

Nash

Onslow

Pamlico

Pitt

Wayne

Wilson

North Carolina's Northeast Partnership Region

Beaufort

Bertie

Camden

Camden

Chowan

Currituck

Dare

Gates

Halifax

Hertford

Hyde

Martin

Northampton

Pasquotank

Perquimans

Tyrrell

Washington

Appendix B Survey Questionnaires

REPLACE ALL QUESTIONAIRES

INCLUDE 1 OCCUPATIONAL SURVEY

August 29, 2005

Dear Survey Recipient:

The North Carolina Motorsports Research Project (administered by UNC Charlotte) is conducting an economic impact and occupational study of the North Carolina Motorsports industry. The enclosed survey questionnaire is part of this study.

This study is a follow-up project to the study conducted in 2004 that found that the North Carolina Motorsports industry generated five billion dollars of economic impact on the state's economy in 2003. In addition, the industry supported over 24,000 high quality jobs. The report is available on the Web at http://www.belkcollege.uncc.edu/news/motorsports.htm.

The new study will provide the comparable 2005 economic impacts, the ability to measure the annual growth in these impacts, and a detailed look at the occupational distribution of jobs supported by the Motorsports industry. This information will be vital for state and regional planners and legislators as they make recommendations/decisions about the future support of the motorsports industry in North Carolina.

The information received in this questionnaire will be held in <u>strict confidence</u> and no specific firm information will be released or published. In addition, all questionnaires and firm specific information will be destroyed once the study is completed. The overall results of this study will be released to the public upon completion of the project. If you have any questions please contact John Connaughton at (704) 516-1359. Please return the survey by <u>September 15, 2005</u> in the enclosed stamped envelope.

Sincerely,

John E. Connaughton

Enclosures

NORTH CAROLINA MOTORSPORTS IMPACT QUESTIONNAIRE NASCAR TEAMS

| 1. Team Name | |
|--|-----------------------------|
| 2. County | |
| 3. Contact Person | |
| 4. Telephone # | Fax # |
| 5. Number of Nextel Series teams | |
| 6. Number of Busch Series teams | |
| 7. Number or Craftsman Truck Series teams | |
| 8. Number of other teams | Please specify other series |
| 9. SIC or NAICS Code | |
| 10. Total number of employees in 2005 | |
| 11. Estimated annual employee turnover rate (9 (less than 5%) 5-10% 11-20% | |
| 12. Annual operating budget in 2005 | |
| 13. Annual payroll in 2005 | |
| 14. Total number of employees in 2000 | |
| 15. Annual operating budget in 2000 | |
| 16. Estimated operating budget in 2010 | |
| 17. Estimated number of employees in 2010 | |
| 18. Building size (in square feet) | |

NORTH CAROLINA MOTORSPORTS IMPACT PROJECT SUPPLIERS/MANUFACTURERS SURVEY

| 1. Company Name |
|--|
| 2. County |
| 3. Contact Person |
| 4. Telephone # Fax # |
| 5. NAICS Code SIC Code |
| 6. Please specify primary product |
| 7. Please specify other major products |
| 8. Total number of employees in 2005 |
| 9. Estimated annual employee turnover rate (%) 2005 (less than 5%) 5-10% 11-20% More than 20 % |
| 10. Annual operating budget in 2005 |
| 11. Annual payroll in 2005 |
| 12. Estimated percentage of 2005 revenue received from motorsports teams located in North Carolina |
| 13. Total number of employees in 2000 |
| 14. Annual operating budget in 2000 |
| 15. Estimated operating budget in 2010 |
| 16. Estimated number of employees in 2010 |
| 17. Building size (in square feet) |

NORTH CAROLINA MOTORSPORTS IMPACT PROJECT RETAIL SURVEY

| 1. Company Name |
|---|
| 2. County |
| 3. Contact Person |
| 4. Telephone # Fax # |
| 5. NAICS Code SIC Code |
| 6. Please specify primary nature of business |
| 7. Please specify other types of business activities |
| 8. Total number of employees in 2005 |
| 9. Estimated annual employee turnover rate (%) 2005 (less than 5%) 5-10% 11-20% More than 20 % |
| 10. Annual operating budget in 2005 |
| 11. Annual payroll in 2005 |
| 12. Estimated percentage of revenue paid in royalties to motorsports teams/suppliers/etc. located in North Carolina |
| 13. Total number of employees in 2000 |
| 14. Annual operating budget in 2000 |
| 15. Estimated operating budget in 2010 |
| 16. Estimated number of employees in 2010 |
| 17. Building(s) size (in square feet) |

NORTH CAROLINA MOTORSPORTS IMPACT PROJECT MOTORSPORTS MUSEUMS SURVEY

| 1. Museum Name | |
|--|---|
| 2. County | |
| 3. Contact Person | |
| 4. Telephone # | Fax # |
| 5. NAICS Code | SIC Code |
| 6. Please specify primary focus of muse | um |
| 7. Total number of employees in 2005 | |
| 8. Estimated annual employee turnover (less than 5%) 5-10% 1 | rate (%) 2005 1-20% More than 20 % |
| 9. Annual operating budget in 2005 | |
| 10. Annual payroll in 2005 | |
| 11. Estimated percentage of revenue pa teams/suppliers/etc. located in Nort | id in royalties to motorsports h Carolina |
| 12. Total number of employees in 2000 | |
| 13. Annual operating budget in 2000 _ | |
| 14. Estimated operating budget in 2010 | |
| 15. Estimated number of employees in 2 | 2010 |
| 16. Building(s) size (in square feet) | |

NORTH CAROLINA MOTORSPORTS IMPACT PROJECT NASCAR TEST FACILITY SURVEY

| 1. Sanctioning Organization Na | ame | |
|--|---|-------------|
| 2. County | | |
| 3. Contact Person | | |
| 4. Telephone # | Fax # | |
| 5. NAICS Code | SIC Code | |
| 6. Please list the types of activity | ties performed by this facility | |
| | | |
| 7. Total number of employees i | in 2005 | |
| 8. Estimated annual employee (less than 5%) 5-10% _ | turnover rate (%) 2005 11-20% More tha | an 20 % |
| 9. Annual operating budget in 2 | 2005 | |
| 10. Annual payroll in 2005 _ | | |
| 11. Estimated percentage of reteams/suppliers/etc. located | venue paid by motorsports d in North Carolina | |
| 12. Total number of employees | s in 2000 | |
| 13. Annual operating budget in | 2000 | |
| 14. Estimated operating budget | in 2010 | |
| 15. Estimated number of emplo | oyees in 2010 | |
| 16. Building(s) size (in square f | feet) | |

NORTH CAROLINA MOTORSPORTS IMPACT PROJECT 2005 SURVEY

| 1. Company Name | | |
|--|--|--|
| 2. County | | |
| 3. Contact Person | | |
| 4. Telephone # Fax # | | |
| 5. NAICS Code SIC Code | | |
| 6. Please specify primary product/service | | |
| 7. Please specify other major products/services | | |
| 8. Total number of employees in 2005 | | |
| 9. Estimated annual employee turnover rate (%) 2005 (less than 5%) 5-10% 11-20% More than 20 % | | |
| 10. Annual operating budget in 2005 | | |
| 11. Annual payroll in 2005 | | |
| 12. Estimated percentage of 2005 revenue received from motorsports organizations located in North Carolina | | |
| 13. Total number of employees in 2000 | | |
| 14. Annual operating budget in 2000 | | |
| 15. Estimated operating budget in 2010 | | |
| 16. Estimated number of employees in 2010 | | |
| 17. Building size (in square feet) | | |

NORTH CAROLINA MOTORSPORTS IMPACT PROJECT MAJOR TRACK SURVEY

| 1. Track Name |
|---|
| 2. County |
| 3. Contact Person |
| 4. Telephone # Fax # |
| 5. NAICS Code SIC Code |
| 6. Number of racing events in 2005 (based on admission charge) |
| 7. Total attendance for all racing events in 2005 |
| 8. Total number of participating racing teams (cars) in 2005 |
| 9. Number of other revenue events in 2005 |
| 10. Total annual revenue from all activities in 2005 |
| 11. Total number of full-time employees in 2005 |
| 12. Total number of part-time employees 2005 |
| 13. Estimated annual employee turnover rate (%) 2005 (less than 5%) 5-10% 11-20% More than 20 % |
| 14. Annual payroll in 2005 |
| 15. Total annual revenue from all activities in 2000 |
| 16. Total number of full-time employees in 2000 |
| 17. Estimated annual revenue from all activities in 2010 |
| 18. Estimated number of full-time employees in 2010 |

NORTH CAROLINA MOTORSPORTS IMPACT PROJECT DRAG RACING TRACK SURVEY

| 1. Track Name |
|---|
| 2. County |
| 3. Contact Person |
| 4. Telephone # Fax # |
| 5. NAICS Code SIC Code |
| 6. Number of racing events in 2005 (based on admission charge) |
| 7. Total attendance for all racing events in 2005 |
| 8. Total number of participating racing teams (cars) in 2005 |
| 9. Number of other revenue events in 2005 |
| 10. Total annual revenue from all activities in 2005 |
| 11. Total number of full-time employees in 2005 |
| 12. Total number of part-time employees 2005 |
| 13. Estimated annual employee turnover rate (%) 2005 (less than 5%) 5-10% 11-20% More than 20 % |
| 14. Annual payroll in 2005 |
| 15. Total annual revenue from all activities in 2000 |
| 16. Total number of full-time employees in 2000 |
| 17. Estimated annual revenue from all activities in 2010 |
| 18. Estimated number of full-time employees in 2010 |

NORTH CAROLINA MOTORSPORTS IMPACT PROJECT SHORT-TRACK SURVEY

| 1. Track Name |
|---|
| 2. County |
| 3. Contact Person |
| 4. Telephone # Fax # |
| 5. NAICS Code SIC Code |
| 6. Number of racing events in 2005 (based on admission charge) |
| 7. Total attendance for all racing events in 2005 |
| 8. Total number of participating racing teams (cars) in 2005 |
| 9. Number of other revenue events in 2005 |
| 10. Total annual revenue from all activities in 2005 |
| 11. Total number of full-time employees in 2005 |
| 12. Total number of part-time employees 2005 |
| 13. Estimated annual employee turnover rate (%) 2005 (less than 5%) 5-10% 11-20% More than 20 % |
| 14. Annual payroll in 2005 |
| 15. Total annual revenue from all activities in 2000 |
| 16. Total number of full-time employees in 2000 |
| 17. Estimated annual revenue from all activities in 2010 |
| 18. Estimated number of full-time employees in 2010 |

NORTH CAROLINA MOTORSPORTS IMPACT PROJECT SANCTIONING ORGANIZATION SURVEY

| 1. Sanctioning Organization Name | | |
|--|--|--|
| 2. County | | |
| 3. Contact Person | | |
| 4. Telephone # Fax # | | |
| 5. NAICS Code SIC Code | | |
| 6. Please specify primary type of racing | | |
| 7. Please specify sanctioned tracks in North Carolina | | |
| 8. Total number of employees in 2005 | | |
| 9. Estimated annual employee turnover rate (%) 2005 (less than 5%) 5-10% 11-20% More than 20 % | | |
| 10. Annual operating budget in 2005 | | |
| 11. Annual payroll in 2005 | | |
| 12. Estimated percentage of revenue paid by motorsports teams/suppliers/etc. located in North Carolina | | |
| 13. Total number of employees in 2000 | | |
| 14. Annual operating budget in 2000 | | |
| 15. Estimated operating budget in 2010 | | |
| 16. Estimated number of employees in 2010 | | |
| 17. Building(s) size (in square feet) | | |

Allocation of Total Employment By Major Occupational Group (MOG)

Please allocate your Company's total full-time employment among the following BLS defined major occupational groups (MOG's). Indicate the number of employees in each group (best estimate) and the distribution of educational backgrounds. (Example: a company with 125 total employees reports for MOG C (Sales Occupations): 12 sales employees; 5 with College Degree or more, 3 with Associate or Technical Degree.)

1. Major Occupational Group (MOG) A: Professional And Technical Occupations

| | • |
|--|--|
| BLS sub-groups include: | Engineers, Architects, and Surveyors Mathematical And Computer Scientists Health Diagnosing Occupations Lawyers And Judges Health Technologists And Technicians Engineering And Related Technologists And Technicians Science Technicians Miscellaneous Technicians |
| MOG A Employment | College + 2 year Degree |
| 2. Major Occupational Group Executive, Administrative, An | |
| MOG B Employment | College + 2 year Degree |
| 3. Major Occupational Group | o (MOG) C: Sales Occupations |
| MOG C Employment | College + 2 year Degree |
| 4. Major Occupational Group Administrative Support Occup | |
| BLS sub-groups include: | Supervisors, Clerical And Administrative Support Computer Equipment Operators Secretaries, Stenographers, And Typists Information Clerks Records Processing Clerks, Except Financial Financial Records Processing Clerks Duplicating, Mail, And Other Office Machine Operators Communications Equipment Operators Mail And Message Distributing Occupations Material Recording, Scheduling, And Distributing Clerks Adjusters And Investigators Miscellaneous Administrative Support Occupations |
| MOG D Employment | College + 2 year Degree |

Precision Production, Craft, And Repair Occupations **Mechanics And Repairers** BLS sub-groups include: **Precision Production Occupations Precision Metalworking Occupations Precision Woodworking Occupations** Precision Textile, Apparel, And Furnishings Machine Workers **Precision Workers, Assorted Materials Precision Food Production Occupations** Precision Inspectors, Testers, And Related Workers **Plant And System Operators** MOG E Employment _____ College + ____ 2 year Degree ____ 6. Major Occupational Group (MOG) F: Machine Operators, Assemblers, And Inspectors BLS sub-groups include: **Metalworking And Plastic Working Machine Operators Woodworking Machine Operators Printing Machine Operators Textile, Apparel, And Furnishings Machine Operators Machine Operators, Assorted Materials** Fabricators, Assemblers, And Hand Working Occupations Production Inspectors, Testers, Samplers, And Weighers MOG F Employment _____ College + ____ 2 year Degree ____ 7. Major Occupational Group (MOG) G: **Transportation And Material Moving Occupations** BLS sub-groups include: **Motor Vehicle Operators Material Moving Equipment Operators** MOG G Employment _____ College + ____ 2 year Degree ____ 8. Major Occupational Group (MOG) H: Handlers, Equipment Cleaners, Helpers, And Laborers MOG H Employment College + 2 year Degree 9. Major Occupational Group (MOG) K: Service Occupations, Except Private Household **Protective Service Occupations** BLS sub-groups include: **Food Service Occupations Health Service Occupations Cleaning And Building Service Occupations Personal Service Occupations** MOG K Employment _____ College + ____ 2 year Degree ____

5. Major Occupational Group (MOG) E: