

Connecting all points of the Triangle

FY 2016 Annual Bus Performance Report

November 14, 2016

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Transit Service Planner

Regional Services Development

Introduction

In September 2003, GoTriangle's Board of Trustees adopted the Regional Bus Service Standards to establish performance expectations for the agency's fixed-route services. The intent was to drive improvements in productivity by routinely and systematically evaluating bus service performance against quantifiable indicators. The Board of Trustees amended the Regional Bus Service Standards in 2004 and 2007. In addition, staff includes on-time performance as an unofficial measure.

The GoTriangle performance indicators presented in this report are:

- Customer boardings per revenue hour
- On-time performance

Several indicators are included in the report for informational purposes. These indicators are total revenue hours and total customer boardings.

This report provides a summary of Triangle Transit's regional bus service performance during Fiscal Year 2016, with comparisons to Fiscal Year 2015 and prior years in order to illustrate changes and trends in performance.

Summary of Key Findings

Subsequent sections include information on system and route level performance for FY 2016, but several key finds are highlighted:

- Ridership on the GoTriangle system decreased to 1,784,681 boardings in FY 2016 from 1,837,127 in FY 2015, a 3% drop.
- GoTriangle met the agency goal for on-time performance with 87% of trips arriving on-time to end of line timepoints.
- Including all services, productivity fell from 14.3 boardings per hour to 13.0 boardings per hour, a 9% drop. On average, the most significant decrease in productivity was for trips traveling to Raleigh in the morning and from Raleigh in the evening.
- Sunday ridership increased by 9% and Express ridership increased by 1% from FY 2015.
- Gas prices have dropped 16% as compared to FY 2015 and 33% compared to FY 2014. Studies have shown that for every 10% decrease in fuel costs, transit ridership decreases by 1.8%.

System and Service Category Performance

Table 1 below summarizes the system averages for total customer boardings and customer boardings per revenue hour for all of FY 2016 compared to all of FY 2015. Service days, on-time performance, and revenue hours are also provided. Customer boardings per revenue hour is a productivity measure and shows how much service is consumed given the amount of service provided.

| Performance Measure | FY 2016 | FY 2015 | % change * |
|---|-----------|-----------|------------------------|
| Service consumption Customer boardings | 1,784,681 | 1,837,127 | -3% |
| Service effectiveness Boardings per revenue hour | 13.0 | 14.3 | -9% |
| Service reliability On-time arrivals to end of line (weekday) | 87% | 88% | Goal: More than 85% |
| Weekdays | 251 | 252 | |
| Saturdays | 54 | 54 | |
| Sundays | 53 | 48 | |
| Revenue hours | 136,991 | 128,583 | |

Table 1. GoTriangle Performance Measure Summary

* **BOLD** values show measures that have improved since the previous fiscal year; Values in *ITALICS* show measures that have decreased.

Ridership

Ridership on the GoTriangle system decreased to 1,784,681 boardings in FY 2016 from 1,837,127 in FY 2015, a 3% drop. New trips were added on the Chapel Hill – Raleigh Express (CRX) and the Durham – Raleigh Express (DRX). Midday services on Route 805 serving Chapel Hill – Woodcroft – Regional Transit Center and the Fortify funded South Cary – Raleigh Express (CTX) were discontinued due to low performance. When Fortify services are excluded, ridership decreased to 1,747,900 in FY 2016 from 1,815,710 in FY 2015, which represents a 4% drop. Routes 300 and 301 were also restructured to provide an improved service pattern while an express fare was no longer charged on Route 300.

Continued declines in gas prices are the likely cause of much of the ridership loss, with other possible variables impacting ridership including the increased cost of NCSU's GoPass, parking prices, and decreased reliability due to construction projects.

The chart below illustrates the change in total passenger trips since FY 2011 among several peer agencies. Each line represents a transit agency and shows their percent change in the number of passenger trips they provided over previous years. Due in part to added services, GoTriangle has shown the most dramatic growth; although, like many other agencies, recent years have shown a dip in total passengers. Peer agencies were selected based on the nature of their services and/or the location of their services.

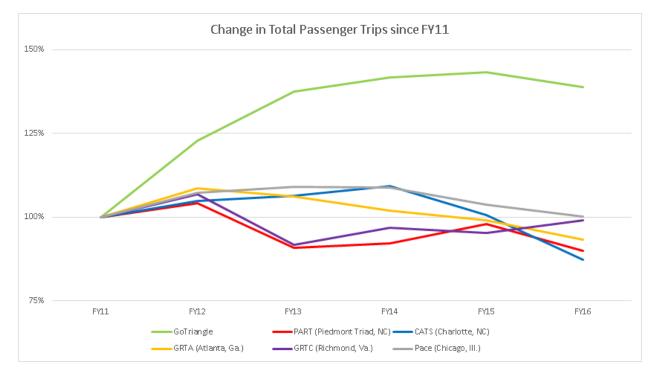


Chart 1. Change in Total Passenger Trips across Peers

Customers per Revenue Hour

Boardings per hour declined from 14.3 in FY 2015 to 13.0 in FY 2016, a 9% decrease in productivity.

Similar to the above chart, Chart 2 below represents the percent change in productivity since FY 2011 for various agencies. With the exception of Richmond, the agencies have been experiencing a downward trend in productivity since FY 14, which tracks well with the decrease in gas prices. It is also worth noting that PART's upward spike in productivity in FY 2012 and FY 2013 was caused by their elimination of several low-performing services.

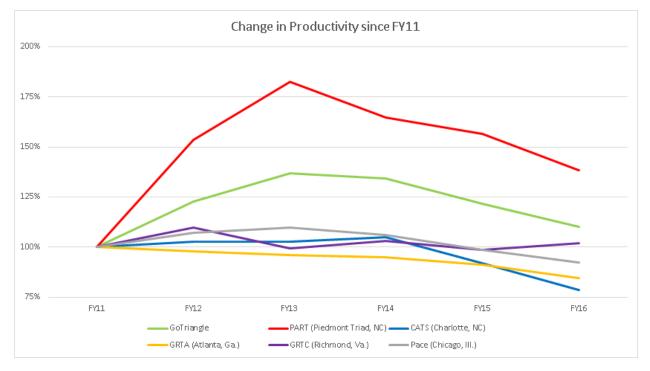


Chart 2. Change in Productivity Since FY 2011 Across Peers

External Factors Influencing Bus Service Performance

Falling Gas Prices

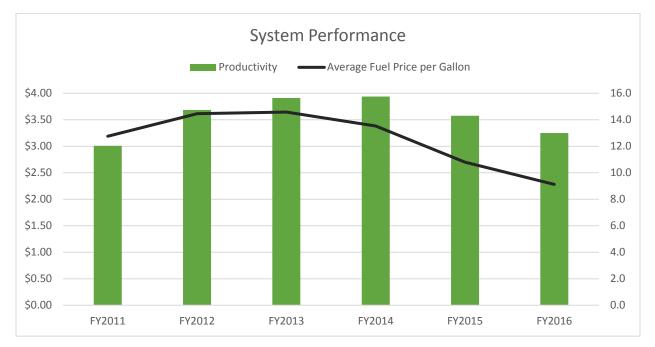
Chart 3 below includes the system-level performance data as well as the average price per gallon of fuel for FY2016 and the previous four years. As shown in the table below, gas prices have continued to significantly drop. In FY 2014, the average price of a gallon of fuel was \$3.38 compared to an average of \$2.70 for FY 2015 and \$2.28 for FY 2016. FY 2016 fuel costs represent a 16% drop in price from the previous year and when compared to FY 2014, a 33% drop. Recent APTA studies have shown that for every 10% decrease in fuel costs, it amounts to a loss of 1.8% decrease in transit ridership¹. Regional systems are also more susceptible to price fluctuations than local systems.² Based on APTA's study, our loss of productivity

¹ Morath, E. (2016, April 4). Low Gas Prices Drove Down Transit Use. Retrieved from

http://blogs.wsj.com/economics/2016/04/06/low-gas-prices-drove-down-transit-use-so-why-cant-you-find-a-seat-on-the-train/

² Wallis, Ian, and Natalie Schmidt. (2003, October 1-3). Australasian Travel Demand Elasticities – An Update of the Evidence. 26th Australian Transport Research Forum. Wellington, New Zealand.

is on par with the national trends and less severe when the regional nature of the system is taken into account.





Source: Weekly Retail Gasoline and Diesel Prices. Retrieved from https://www.eia.gov/dnav/pet/pet_pri_gnd_dcus_r1z_w.htm

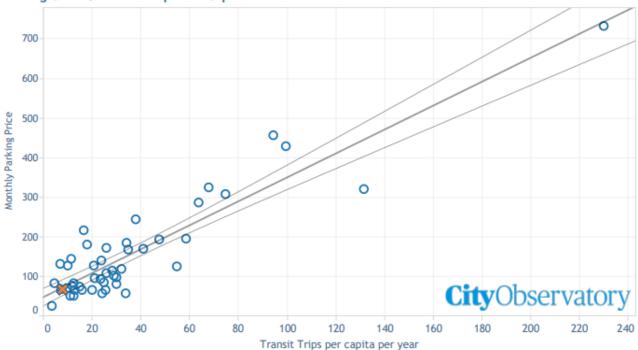
Parking rates and availability affect elasticity of response to fuel price changes.

As shown in Attachment E, there is a notable 17% decrease in boardings per hour when heading toward Raleigh compared to the previous year. Comparatively, trips toward Chapel Hill and Durham experienced a 2% drop compared to FY 2015. One possible contributing factor is the parking prices in those markets. The price of parking for key markets in Raleigh is significantly lower than markets in Chapel Hill and Durham. The table below shows the minimum and maximum parking rates for similar parking places for Duke University, NC State, UNC, and the State Government Complex in downtown Raleigh.

| Location | Annual Minimum | Annual Maximum |
|--------------------------|------------------------------|----------------|
| Duke | \$675 (\$190 satellite lots) | \$1,950 |
| NCSU | \$350 | \$1,115 |
| UNC | \$580 (\$230 satellite lots) | \$2,290 |
| State Government Complex | \$120 | \$180 |

The chart below illustrates the strength of the relationships between parking prices and transit usage. The chart plots the number of transit trips per capita in each of the largest cities against the typical parking price for the city center. The cities with the higher transit rides per capita generally have more expensive parking while those with lower parking price points generally have less transit usage. Raleigh is marked by the red 'x.'

Chart 4. Parking Cost v. Transit Trips Per Capita



Parking Cost v. Transit Trips Per Capita

Source: Cortwright, J. (2016, October 19). Cities and the price of parking. Retrieved from http://cityobservatory.org/cities_and_the-price-of-parking/

On-Time Performance

Arriving "on-time" is defined as arriving at the end-of-line timepoint no more than five minutes after the scheduled time. GoTriangle has a goal of more than 85% of trips arriving on-time. In FY2016, GoTriangle met the goal with 87% of trips arriving on-time to the EOL timepoints. From a system standpoint, this is a decrease of 1% from the previous fiscal year.

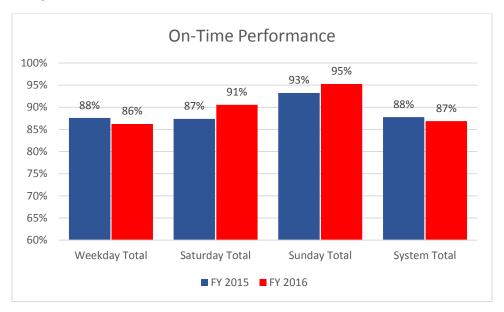


Chart 5. GoTriangle On-Time Performance

Despite the system wide on-time performance being more than 85%, some routes do not meet the standard for on-time performance. These routes include:

Weekdays: 102 (Raleigh - Garner), 305 (Raleigh – Cary - Lake Pine), 800 (Chapel Hill - RTC), CRX (Chapel Hill - Raleigh), DRX (Durham - Raleigh), FRX (Fuquay-Varina – Raleigh), KRX (Knightdale – Raleigh), RSX (Robertson Scholars), WRX (Wake Forest – Raleigh), Shuttle 46 (Northeast RTP Shuttle)

Saturdays: 300 (Raleigh – Cary – RTC), 800 (Chapel Hill - RTC)

Sundays: RSX

What is being done to improve the on-time performance?

In August 2016, Routes 100, 105, 300, 301, 305, 400, 405, 700, CRX, and DRX received scheduled adjustments and added time to accurately reflect trip times. While this provides customers more realistic

expectations about their arrival time, lengthening trips without adding vehicles results in greater spacing between trips.

Wake County services will be evaluated comprehensively as part of the upcoming Wake County Transit Plan and the associated GoTriangle Short Range Plan.

Freeway Travel Time

The following chart shows freeway travel speed data pulled from the I-95 Corridor Coalition's "Vehicle Probe Project Suite." The chart illustrates the probability that a personal auto round trip to and from one of our highest demand markets will take a given amount of time. For example, a commuter traveling from Raleigh to Durham in the morning and back in the afternoon will spend 1 hour 23 minutes or less on the freeway 75% of the time. By contrast, a commuter traveling from Durham to Raleigh in the morning and back in the afternoon will spend 1 hour or less on the freeway 75% of the time.

The "Raleigh to Chapel Hill" commute measures travel time from the I-440/Wade Ave interchange in Raleigh to the NC 54/US 15-501 interchange in Chapel Hill, or vice versa. The "Raleigh to Durham" commute measures travel time from the I-440/Wade Ave interchange in Raleigh to the NC 147/Trent Dr interchange in Durham, or vice versa.

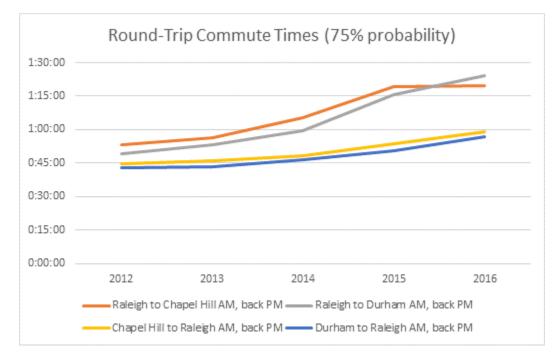


Chart 6. Round-Trip Commute Times

Route Performance

Staff also looked at the performance of routes within the system compared to the average for routes within their service category. Service categories include Weekday Peak, Weekday Express Peak, Shuttles, Weekday Midday, Weekday Nights, Saturdays and Sundays. GoTriangle's Regional Bus Service Standards determine that a route is a "high performer" if it's number of customer boardings per hour is above 125% of the average for its service category.

The following routes showed high performance compared to the service categories averages in FY 2016:

Weekday Peak - Routes 405 (Durham – Chapel Hill), 700 (Durham – RTC), and 800 (Chapel Hill – Southpoint – RTC)

Weekday Express Peak – Express Routes CRX, DRX, and RSX

Shuttles - Shuttle 49 (SW RTP Shuttle)

Weekday Midday - Routes 400 and 700

Weekday Nights – Route 700

Saturday Core Routes - Route 700

Sunday Core Routes - Route 700

Opportunities for Improvement

Several routes performed below 75% of their service category average in the customers per revenue hour performance measure during FY 2014.

Weekday Peak – Routes 100, 102, 201 (North Raleigh – Regional Transit Center), 300, 301 (Raleigh – Cary), and 311 (Apex – RTC)

Weekday Express Peak - Routes CLX (Fortify Clayton – Raleigh Express), CTX (Fortify South Cary – Raleigh Express), FRX (Fortify Fuquay-Varina – Raleigh Express), and JCX (Fortify Johnson County – Raleigh Express)

Shuttles – Shuttles 42 (IBM Shuttle) and 46 (Northeast RTP Shuttle)

Weekday Midday – Route 805 – This midday service was eliminated due to low productivity in early FY 2016.

Weeknights – Route 800

Saturday - Route RSX

Sunday – Route RSX

Table 3 highlights GoTriangle peak services. Staff will continue to evaluate routes and adjust the pattern and/or add time to the schedules where appropriate.

Table 3. Productivity with High and Low Performers

(red is low performers, blue is high performers)

| Route | 16 Performance Measures by Route | Boardings per Hour FY 16 |
|-------|---|-----------------------------|
| | | |
| | n Total | 13.0 |
| | day System Total | 13.2 |
| | lay Peak Services | 12.6 |
| | day Peak - Regional Routes | 14.5 |
| 100 | Raleigh-Airport-RTC | 10.5 |
| 102 | Raleigh-Garner | 8.6 |
| 105 | Raleigh-RTC | 13.4 |
| 201 | North Raleigh-RTC | 9.5 |
| 300's | Raleigh-Cary-RTC (300 & 301) | 9.5 |
| 300 | Raleigh-Cary-RTC (FY 15: Raleigh-Cary) | 9.8 |
| 301 | Raleigh-Cary (FY 15: Raleigh-Cary-RTC) | 9.2 |
| 305 | Raleigh-Cary-Lake Pine | 10.9 |
| 311 | Apex-Lake Pine-RTC-EPA | 5.9 |
| 400 | Durham-Patterson Place-Chapel Hill | 16.5 |
| 405 | Durham-Chapel Hill | 20.9 |
| 420 | Hillsborough-Chapel Hill | 12.9 |
| 700 | Durham-RTC | 24.7 |
| 800 | Chapel Hill-Southpoint-RTC | 20.4 |
| 805 | Chapel Hill-Woodcroft-RTC | 17.6 |
| Week | day Peak - Express Routes | 9.6 |
| CLX | Clayton-Raleigh Express (Fortify) | 2.8 |
| CRX | Chapel Hill-Raleigh Express | 14.7 |
| СТХ | South Cary-Raleigh Express (Fortify) | 0.8 |
| DRX | Durham-Raleigh Express | 17.5 |
| FRX | Fuquay-Varina-Raleigh Express (Fortify) | 4.4 |
| JCX | Johnston County Express (Fortify) | 3.1 |
| KRX | Knightdale-Raleigh Express | 6.0 |
| ODX | Orange-Durham Express | 7.5 |
| RSX | Robertson Scholars Express | 12.9 |
| WRX | Wake Forest-Raleigh Express | 6.0 |
| ZWX | Zebulon-Wendell-Raleigh Express | 9.9 |
| Week | lay Peak - RTP Shuttles | 8.4 |
| 42 | Davis Dr/IBM Shuttle | 5,3 |
| 46 | Miami/TW Alexander Shuttle | 5.9 |
| 47 | TW Alexander/Cornwallis Shuttle | 9.3 |
| 49 | Kit Creek Shuttle | 13.1 |

Looking Ahead

Fall FY 2017 Changes

Route 105 (Raleigh – RTC) – Service to the District Dr Park and Ride was removed. Few customers utilized the park and ride and removing it significantly improved the speed of trips between Raleigh and the RTC.

Route 400 (Durham – Chapel Hill) – During off-peak hours, Route 400's pattern was improved in order to provide significantly faster off-peak trip between Durham and Chapel Hill. Accordingly, its frequency was increased to every 30 minutes, weekdays and Saturdays until 7:00 PM.

Route 405 (Durham – Chapel Hill – Carrboro) - Route 405 was rerouted to provide service from Carrboro to Durham in the morning peak and back in the afternoon peak.

Route 700 – A long-term detour was implemented due to the upcoming closures of the interchanges between Alston Avenue and NC-147. Due to limitations within the schedule, serving Alston Ave and Lawson St while maintaining a 30 minute headway was not possible. A necessary detour removed service to RTP as well as Alston Ave and Lawson St, which may negatively impact ridership, in order to maintain existing frequencies. The detour creates a more direct service between the Regional Transit Center and Durham Station.

Wake County Transit Plan and GoTriangle Short Range Plan

A multi-party effort was undertaken to develop a redesign of the regional and local transit networks. The resulting Wake County Transit Plan calls for major improvements in four key areas: (1) connecting regionally; (2) connecting all Wake County communities; (3) providing frequent, reliable urban mobility; and (4) enhanced access to transit.

GoTriangle will be the project manager for the Wake County multi-year bus service implementation plan starting January 2017. This effort will determine a detailed, prioritized list of bus operating and capital improvements over the life of the Wake County Transit Plan. Recent service improvements have been focused on Durham and Orange Counties due to their use of transit tax revenues. A shift toward Wake County service improvements is expected with the implementation of the Wake County Transit Plan.

One of the sub-tasks of this planning effort will be a GoTriangle short-range transit plan, which will encompass all three counties (Durham, Orange, and Wake). This short range plan will develop a vision of what GoTriangle bus service will look like over the next 5-10 years and how that vision can be implemented using identified resources.

RTP Shuttles On-Demand Services Pilot Program

A partnership between the Research Triangle Foundation, GoTriangle, and IBM is being developed to address a trial pilot program for last-mile connections between RTP IBM offices and the Regional Transit Center. During the demonstration project, Shuttles 42 and 46 would be replaced by private on-demand services to provide connections between the Regional Transit Center or other designated stops and destinations served by Shuttles 42 and 46. These efforts will be grant funded.

Completion of Fortify project and end of several associated Commuter Express routes

State funding for the Fortify routes is expected to end during the summer of 2017. Fortify routes include Routes FRX, JCX, CTX, CLX, and hours from Route 300. Route FRX between Fuquay-Varina and Raleigh will continue with reduced frequency and hours from Route 300 between Raleigh and Cary would continue.

Route JCX between Johnson County and Raleigh and Route CLX between Clayton and Raleigh are planned for elimination. Route CTX between South Cary and Raleigh was eliminated in fall of 2015.

With the removal of most Fortify services next summer, an increase in productivity is expected.

Marketing

To help remedy rider decline in FY16 marketing is focused on building an awareness and education program during FY17 that will focus around one main concept - GoTogether. This is a campaign built to inspire those in our community to seek viable travel options to work, school, doctor's appointments and other important places, without driving alone in a car. This education and awareness campaign will be told by sharing real commuter stories highlighting how they "GoTogether" using biking, bus, vanpool and walking. Video stories told so far include a father and son who bike to school and work together, siblings who travel by bus to college each day and high schooler who travels home with friends. Upcoming stories will continue to explore a variety of modes traveled around the Triangle area.

In addition to our annual GoTogether campaign, upcoming events/activities include:

Try Transit Month – September

During the month of September transit agencies across the Triangle promoted transit services at park and ride lots, hosted events with employers, passed out free passes to first time riders and participated in community events. Social media was a big part of this campaign as it allowed new and existing riders to share their stories and encourage others to consider alternative commute options.

Community Outreach – October

GoTriangle partnered with WRAL, RDU and the United Way of the Triangle to fill a bus and bring to those affected by Hurricane Matthew. We received a tremendous outpouring of donations and in the end filled 3 buses and 2 vans. This was a 2 day event with massive online, digital and TV coverage for GoTriangle. Items were supplied to the United Way of Tar River Region in Rocky Mount, the United Way Food Drive in Wilson, and the Partnership for Children and Boys and Girls Clubs of Johnston County.

Rider Appreciation – December

Riders will receive a full color calendar with photos of the Triangle along with monthly tips regarding tracking their trips for prizes, downloading TransLoc to track bus in real time, rules of the road, etc. Calendars will be handed out at events during the month.

New Year, New Commute – January

Campaign to encourage existing riders of transit/smart commuting to track their trips via sharetheridenc.org to earn points towards prizes. Campaign includes digital, print and social mediums.

Go Love – February

Encouraging riders to share their love of transit on social media. Either through Twitter, Facebook or Instagram, we ask riders to share a picture and a quote about their commute. Campaign includes social promotion as well as events.

Transit Drive Appreciation | Safety Awareness - March A time to celebrate our drivers and tell their stories. Share on social media and in print ads.

Bike Month – April | May

Promoting all things bike. Includes high number of in-person events, promotional items, tips around bike commuting, video interviews/stories.

| | Daily Boardings | | | Daily | Revenue H | lours | Boardings per Hour | | | |
|-----------------|-----------------|---------|------|---------|-----------|-------|--------------------|---------|------|--|
| GO Triangle | FY 2015 | FY 2016 | Δ | FY 2015 | FY 2016 | Δ | FY 2015 | FY 2016 | Δ | |
| System | | | | | | | 14.3 | 13.0 | -9% | |
| Weekday | 7,022 | 6,711 | -4% | 514.9 | 509.2 | -1% | 14.6 | 13.2 | -10% | |
| Regional Peak | 3,983 | 3,805 | -4% | 260.9 | 261.9 | 0% | 15.6 | 14.5 | -7% | |
| Express | 1,343 | 1,361 | 1% | 142.7 | 138.9 | -3% | 11.1 | 9.6 | -14% | |
| Shuttles | 178 | 158 | -11% | 18.8 | 18.8 | 0% | 9.5 | 8.4 | -11% | |
| Regional Midday | 1,187 | 1,086 | -8% | 61.1 | 58.3 | -5% | 20.7 | 19.4 | -6% | |
| Regional Night | 330 | 300 | -9% | 31.4 | 31.3 | 0% | 11.2 | 10.0 | -11% | |
| Saturday | 1,641 | 1,601 | -2% | 135.7 | 135.8 | 0% | 12.6 | 12.0 | -5% | |
| Sunday | 761 | 831 | 9% | 93.8 | 93.9 | 0% | 8.8 | 9.1 | 3% | |

| | Annual Boardings | | | | |
|-----------------|------------------|-----------|--|--|--|
| | FY 2015 FY 20 | | | | |
| System | 1,837,127 | 1,784,681 | | | |
| Weekday | 1,715,445 | 1,657,964 | | | |
| Regional Peak | 983,376 | 955,027 | | | |
| Express | 324,475 | 329,391 | | | |
| Shuttles | 44,240 | 39,671 | | | |
| Regional Midday | 284,027 | 260,922 | | | |
| Regional Night | 79,327 | 72,953 | | | |
| Saturday | 87,619 | 84,019 | | | |
| Sunday | 35,526 | 42,698 | | | |

| Attachment C. FY2016 Route Summary | |
|------------------------------------|--|
| Accounter C. 112010 Nouce Summary | |

| EV 20 | 16 Performance Measures by Route | Boordings | | | | | Daily | Bouoni | | Beer | dinge nor | Hour |
|------------|--|----------------|----------|-----------|----------|------------|----------|--------------|-----------|-------------|-----------|---------------------|
| | 16 Performance Measures by Route | Boardings | - | | ily Boar | | · · | | le Hours | | dings per | |
| Route | | FY 201 | | FT 15 | FY 16 | Δ | FT 15 | FY 16 | Δ | FY 15 | | Δ |
| - | n Total | 1,784,681 | 357 | | | | <u> </u> | | | 14.3 | 13.0 📡 | <mark>1</mark> -9% |
| | day System Total | 1,657,964 | 251 | | | -4% | | | | 14.6 | 13.2 📡 | <mark>1</mark> -10% |
| | day Peak Services | 1,324,089 | 251 | | 5,324 | -3% | | | | 14.0 | | <mark>1</mark> -10% |
| Weeko | lay Peak - Regional Routes | 955,027 | 251 | | - | -4% | - | | | 15.6 | 14.5 ≽ | <mark>1</mark> -7% |
| 100 | Raleigh-Airport-RTC | 61,593 | 251 | 267 | 245 | | | 23.4 | | 11.3 | 10.5 ≽ | <mark>1</mark> -7% |
| 102 | Raleigh-Garner | 12,918 | 251 | 73 | | | 6.0 | 6.0 | | 12.2 | 8.6 | -30% |
| 105 | Raleigh-RTC | 62,840 | 251 | 302 | 250 | 👆 -17% | 17.8 | 18.8 | | 17.0 | 13.4 🦊 | -21% |
| 201 | North Raleigh-RTC | 18,612 | 251 | 80 | 74 | + -7% | 7.3 | 7.8 | | 10.9 | 9.5 🦊 | -12% |
| 300's | Raleigh-Cary-RTC (300 & 301) | 103,344 | 251 | 447 | 412 | + -8% | 43.3 | 43.1 | | 11.9 | 9.5 🦊 | -20% |
| 300 | Raleigh-Cary-RTC (FY 15: Raleigh-Cary) | 59,936 | 251 | | 239 | | | 26.0 | | | 9.8 | |
| 301 | Raleigh-Cary (FY 15: Raleigh-Cary-RTC) | 43,408 | 251 | | 173 | | | 17.1 | | | 9.2 | |
| 305 | Raleigh-Cary-Lake Pine | 32,171 | 251 | 134 | 128 | -4% | 11.7 | 11.7 | | 11.4 | 10.9 🕥 | |
| 311 | Apex-Lake Pine-RTC-EPA | 21,788 | 251 | 104 | 87 | 👆 -17% | 14.8 | 14.8 | | 6.7 | 5.9 🔶 | -13% |
| 400 | Durham-Patterson Place-Chapel Hill | 122,984 | 251 | 463 | 490 | 6% | 29.9 | 29.7 | | 15.8 | 16.5 | 4% |
| 405 | Durham-Chapel Hill | 117,146 | 251 | 481 | 467 | -3% | - | 22.3 | | 21.6 | | <u> </u> |
| 420 | Hillsborough-Chapel Hill | 44,227 | 251 | 177 | 176 | 0% | | 13.7 | | 12.8 | 12.9 | 1% |
| 700 | Durham-RTC | 84,947 | 251 | 364 | | _ | - | 13.8 | | 27.3 | 24.7 | |
| 800 | Chapel Hill-Southpoint-RTC | 156,189 | 251 | 602 | | 3% | - | | | 19.6 | | |
| 805 | Chapel Hill-Woodcroft-RTC | 116,268 | 251 | 491 | 463 | | | 26.4 | | 18.7 | 17.6 | <u> </u> |
| | day Peak - Express Routes | 329,391 | 251 | 1,343 | | 1% | | 138.9 | | 11.1 | 9.6 | -14% |
| CLX | Clayton-Raleigh Express (Fortify) | 9,725 | 251 | 12 | | | - | 14.0 | | 1.8 | 2.8 | |
| CRX | Chapel Hill-Raleigh Express | 102,652 | 251 | 435 | | | | 28.1 | | 17.1 | 14.7 | |
| CTX | South Cary-Raleigh Express (Fortify) | 715 | 86 | 435 | | -076 | 10.0 | | d Nov '15 | 0.3 | 0.8 | -14/0 |
| DRX | Durham-Raleigh Express | 109,835 | 251 | 466 | | -6% | | 25.5 | | 21.5 | 17.5 | -19% |
| | | | | | | • | | | | | 4.4 | |
| FRX | Fuquay-Varina-Raleigh Express (Fortify) | 15,303 | 251 | 19 | | | - | 13.8 | | 2.9 | | |
| JCX | Johnston County Express (Fortify) | 11,038 | 251 | 39 | | | - | 14.0 | | 2.8 | | |
| KRX | Knightdale-Raleigh Express | 8,462 | 251 | 46 | | | | 5.6 | | 8.2 | 6.0 | 1 |
| ODX | Orange-Durham Express | 20,483 | 251 | 50 | | | | 10.9 | | 6.7 | 7.5 | |
| RSX | Robertson Scholars Express | 18,759 | 159 | 97 | - | | | 10.0 | | 10.2 | 12.9 | |
| WRX | Wake Forest-Raleigh Express | 14,684 | 251 | 79 | | | | 9.8 | | 8.1 | 6.0 | |
| ZWX | Zebulon-Wendell-Raleigh Express | 17,735 | 251 | 100 | | | | 7.2 | | 10.2 | 9.9 📡 | 1 -3% |
| | day Peak - RTP Shuttles | 39,671 | 251 | 178 | | | | 18.8 | | 9.5 | 8.4 ≽ | <mark>1</mark> -11% |
| 42 | Davis Dr/IBM Shuttle | 6,394 | 251 | 24 | | | | 4.8 | | 5.0 | | |
| 46 | Miami/TW Alexander Shuttle | 6,683 | 251 | 32 | | | - | 4.5 | | 6.9 | 5.9 🔶 | |
| 47 | TW Alexander/Cornwallis Shuttle | 10,939 | 251 | 61 | | | | | | 12.8 | · · · · · | |
| 49 | Kit Creek Shuttle | 15,655 | 251 | 62 | 62 | 1% | | 4.8 | | 13.3 | 13.1 📡 | <mark>1</mark> -2% |
| Weeko | day Midday - Regional Routes | 260,922 | 251 | 1,187 | 1,086 | -8% | 61.1 | 58.3 | | 20.7 | 19.4 🕥 | <mark>1</mark> -6% |
| 100 | Raleigh-Airport-RTC | 58,257 | 251 | 257 | 232 | • | 11.9 | 11.0 | | 21.6 | 20.9 汷 | <mark>1</mark> -3% |
| 300 | Raleigh-Cary | 28,303 | 251 | 103 | 113 | 1 9% | 6.7 | 7.0 | | 16.5 | 16.2 🕥 | <mark>1</mark> -2% |
| 400 | Durham-Patterson Place-Chapel Hill | 57,973 | 251 | 259 | | | 9.7 | 10.3 | | 26.8 | 22.5 🦊 | -16% |
| 700 | Durham-RTC | 42,288 | 251 | 182 | 168 | + -8% | 6.3 | 6.1 | | 29.2 | 27.6 🕥 | <mark>1</mark> -5% |
| 800 | Chapel Hill-Southpoint-RTC | 57,295 | 251 | 254 | 228 | 👆 -10% | 11.8 | | | 21.6 | 19.2 🕥 | 1 -11% |
| 805 | Chapel Hill-Woodcroft | 323 | 32 | 14 | 10 | | 2.8 | ende | d Aug '15 | 4.9 | 3.6 | |
| Weekr | nights - Regional Routes | 72,953 | 251 | 330 | 300 | 4 -9% | 31.4 | 31.3 | | 11.2 | 10.0 〉 | 1 -11% |
| 100 | Raleigh-Airport-RTC | 19,356 | 251 | 81 | 77 | -5% | 6.5 | 6.8 | | 12.5 | 11.4 🕥 | <u> </u> |
| 400 | Durham-Patterson Place-Chapel Hill | 20,103 | 251 | 89 | 80 | J -10% | 7.9 | 7.8 | | 11.2 | 10.3 🕥 | 1 -8% |
| 700 | Durham-RTC | 13,470 | 251 | 59 | 54 | -10% | 4.0 | 4.0 | | 14.8 | 13.4 🕥 | 1 -10% |
| 800 | Chapel Hill-Southpoint-RTC | 15,831 | 251 | 73 | | | | 6.8 | | 11.3 | | -17% |
| Saturd | ay - Regional Routes | 84,019 | 54 | 1,641 | 1,601 | -2% | 135.7 | 135.8 | | 12.6 | 12.0 🕥 | 5% |
| 100 | Raleigh-Airport-RTC | 23,309 | 54 | 410 | | | | 32.1 | | 13.2 | | |
| 300 | Raleigh-Cary | 7,143 | 53 | 129 | | 4% | | | | 10.9 | | |
| 400 | Durham-Patterson Place-Chapel Hill | 20,388 | 54 | | | 0% | | 31.7 | | 12.3 | 11.9 | |
| 700 | Durham-RTC | 13,015 | 54 | | | 1% | -8 | 15.9 | | 15.5 | 15.1 | <u> </u> |
| 800 | Chapel Hill-Southpoint-RTC | 17,704 | 54 | | | | - | 31.2 | | 12.8 | 10.5 | _ |
| RSX | Robertson Scholars Express | 2,460 | 28 | | | | | | | 7.3 | | -6% |
| | y - Regional Routes | 42,698 | 52 | 761 | | 1.1 | | 93.9 | | 8.8 | | |
| 100 | Raleigh-Airport-RTC | 13,386 | 53 | 212 | | | | 24.1 | | 8 .8 | | |
| 400 | Durham-Patterson Place-Chapel Hill | | 53 | | | | | 24.1 | | 0.0 9.5 | | 19% |
| 400 700 | Durham-RTC | 11,375 | 53 | 124 | | | - | | | 9.5 11.6 | | -5% 2% |
| - | | 7,437 | | | 140 | | | | | 11.0 | | 1 |
| 000 | Chanal Hill Southnoint PTC | 0 00 4 | E 2 | 160 | 170 | | 22.2 | 222 | | 0 7 | - 7 o 🍋 | 4 1 0 0/ 1 |
| 800 RSX | Chapel Hill-Southpoint-RTC Robertson Scholars Express | 8,994 1,506 | 53 28 | 169 54 | | | | 23.2 11.0 | | 8.2 4.6 | | 10% -10% |

| | me Performance | | | | |
|--------|-------------------------------------|---------------------|---------|---------|----------|
| Percer | nt of trips on time at end of route | | | | |
| Route | Description | Hours of Operation | FY 2015 | FY 2016 | Δ |
| Week | days | | | | |
| 100 | Raleigh-Airport-RTC | 6:40 AM - 11:25 PM | 93% | 89% | 🕨 -4 pt |
| 102 | Raleigh-Garner | Peak only | 88% | 66% | 🕨 -22 pt |
| 105 | Raleigh-RTC | Peak only | 86% | 87% | 1 pt |
| 201 | North Raleigh-RTC | Peak only | 81% | 91% | 🏲 9 pt |
| 300 | Raleigh-Cary-RTC | 6:00 AM - 7:25 PM | 83% | 86% | 3 pt |
| 301 | Raleigh-SW Cary | Peak only | 94% | 89% | -6 pt |
| 305 | Raleigh-Cary-Lake Pine | Peak only | 82% | 80% | -2 pt |
| 311 | Apex-Lake Pine-RTC-EPA | Peak only | 92% | 90% | -1 pt |
| 400 | Durham-Patterson Place-Chapel Hill | 6:15 AM - 10:55 PM | 85% | 90% | 🕨 5 pt |
| 405 | Durham-Chapel Hill | Peak only | 90% | 87% | -3 pt |
| 420 | Hillsborough-Chapel Hill | Peak only | 83% | 86% | 3 pt |
| 700 | Durham-RTC | 6:00 AM - 10:55 PM | 92% | 91% | -1 pt |
| 800 | Chapel Hill-Southpoint-RTC | 6:00 AM - 11:10 PM | 86% | 83% | -3 pt |
| 805 | Chapel Hill-Woodcroft-RTC | Peak only | 82% | 86% | 🕨 5 pt |
| CLX | Clayton-Raleigh Express | Peak only | n/a | 85% | |
| CRX | Chapel Hill-Raleigh Express | Peak only | 79% | 79% | |
| СТХ | South Cary-Raleigh Express | Peak only | 81% | 87% | |
| DRX | Durham-Raleigh Express | Peak only | 87% | 78% | -9 pt |
| FRX | Fuquay-Varina-Raleigh Express | Peak only | 86% | 76% | -10 pt |
| JCX | Johnston County Express | Peak only | 86% | 91% | 🕨 5 pt |
| KRX | Knightdale-Raleigh Express | Peak only | 84% | 84% | |
| ODX | Orange-Durham Express | Peak only | 95% | 94% | -1 pt |
| RSX | Robertson Scholars Express | 7:30 AM - 11:28 PM | 88% | 79% | -9 pt |
| WRX | Wake Forest-Raleigh Express | Peak only | 90% | 84% | |
| ZWX | Zebulon-Wendell-Raleigh Express | Peak only | 90% | 87% | -4 pt |
| 42 | Davis Dr/IBM Shuttle | Peak only | 93% | 94% | 1 pt |
| 46 | Miami/TW Alexander Shuttle | Peak only | 80% | 82% | 2 pt |
| 47 | TW Alexander/Cornwallis Shuttle | Peak only | 92% | 96% | 🕨 4 pt |
| 49 | Kit Creek Shuttle | Peak only | 81% | 90% 🕇 | 🕨 10 pt |
| Saturo | lay | | | | |
| 100 | Raleigh-Airport-RTC | 6:40 AM - 11:12 PM | 91% | 95% | 🕨 4 pt |
| 300 | Raleigh-Cary | 7:00 AM - 6:55 PM | 75% | 78% | 3 pt |
| 400 | Durham-Patterson Place-Chapel Hill | 7:00 AM - 10:55 PM | 86% | 89% | 3 pt |
| 700 | Durham-RTC | 7:00 AM - 10:55 PM | 97% | 97% | |
| 800 | Chapel Hill-Southpoint-RTC | 6:45 AM - 11:20 PM | 83% | 84% | 1 pt |
| RSX | Robertson Scholars Express | 12:00 PM - 12:28 AM | 82% | 90% 🕇 | 🕨 8 pt |
| Sunda | У | | | | |
| 100 | Raleigh-Airport-RTC | 6:40 AM - 7:12 PM | 96% | 98% | 2 pt |
| 400 | Durham-Patterson Place-Chapel Hill | 7:00 AM - 6:55 PM | 91% | 93% | 2 pt |
| 700 | Durham-RTC | 7:00 AM - 6:55 PM | 99% | 99% | |
| 800 | Chapel Hill-Southpoint-RTC | 6:45 AM - 7:20 PM | 90% | 91% | 2 pt |
| RSX | Robertson Scholars Express | 12:00 PM - 10:28 PM | 80% | 93% | 🕨 14 pt |
| Week | day Total | | 88% | 86% | -1 pt |
| Saturo | lay Total | | 87% | 91% | 3 pt |
| | y Total | | 93% | 95% | 2 pt |
| Syster | n Total | | 88% | 87% | -1 pt |

| FY 2016 Peak Commute Markets | Daily Boardings | | | Daily I | Revenu | e Hours | Boardings per Hour | | | |
|-------------------------------------|-----------------|-------|-------------|---------|--------|---------|--------------------|--------|------|--|
| Route Origin | | FY 16 | Δ | FY 15 | FY 16 | Δ | FY 15 | FY 16 | Δ | |
| To Raleigh (GoTriangle funded) | 1,101 | 989 🔻 | -10% | | | | 13.3 | 11.1 🖖 | -16% | |
| 100 * From RTC/Airport | 107 | 100 | -7% | 11.4 | 11.4 | | 9.4 | 8.7 ݢ | -7% | |
| 102 From Garner | 73 | 51 | -30% | 6.0 | 6.0 | | 12.2 | 8.6 🕹 | -30% | |
| 105 From RTC | 126 | 106 | -16% | 8.3 | 8.3 | | 15.3 | 13.0 🔶 | -15% | |
| 301 * From Southeast Cary | 118 | 89 | -25% | 7.8 | 8.7 | 12% | 15.2 | 10.2 🕹 | -33% | |
| 305 * From Cary/Apex | 72 | 71 | -2% | 6.1 | 6.1 | | 11.8 | 11.6 対 | -2% | |
| CRX From Chapel Hill | 200 | 167 | -16% | 12.6 | 12.8 | | 15.9 | 13.2 🕹 | -17% | |
| DRX From Durham | 204 | 182 | -11% | 9.2 | 12.6 | 137% | 22.4 | 14.7 🕹 | -34% | |
| KRX From Knightdale | 37 | 28 | -24% | 3.7 | 3.7 | | 10.0 | 7.6 🕹 | -24% | |
| WRX From Wake Forest | 48 | 37 - | -23% | 6.3 | 6.3 | | 7.7 | 6.0 🦊 | -23% | |
| ZWX From Zebulon/Wendell | 90 | 61 | -32% | 5.5 | 5.5 | | 12.0 | 11.1 対 | -7% | |
| To Raleigh (Fortify funded) | 53 | 121 4 | 127% | | | | 2.6 | 3.8 个 | 48% | |
| 300 From Cary (direct trip, 2015) | 26 | 97 🖌 | 278% | 7.2 | 8.1 | 13% | 3.6 | 12.0 个 | 236% | |
| CLX From Clayton (2015) | 9 | 31 | 236% | 10.8 | 10.8 | | 1.8 | 2.9 个 | 57% | |
| FRX From Fuquay-Varina (2015) | 14 | 54 4 | 279% | 9.7 | 9.7 | | 3.2 | 5.6 个 | 77% | |
| JCX From Johnston County (2014) | 30 | 36 🖌 | 20% | 11.0 | 11.0 | | 2.7 | 3.3 个 | 20% | |
| To Durham | 825 | 847 | 3% | | | | 16.4 | 16.1 🎽 | -2% | |
| 400 * From Chapel Hill | 194 | 198 | 2% | 15.4 | 15.4 | | 12.9 | 12.9 🎽 | 0% | |
| 405 From Chapel Hill | 176 | 182 | 3% | 11.3 | 11.3 | | 15.6 | 16.0 个 | 3% | |
| 700 * From RTC | 153 | 137 | -10% | 7.0 | 7.0 | | 21.8 | 19.7 🎽 | -10% | |
| DRX From Raleigh | 262 | 256 | -2% | 12.6 | 12.9 | | 20.9 | 20.2 対 | -3% | |
| ODX From Hillsborough/Mebane (2014) | 39 | 73 🖌 | 86% | 6.2 | 6.2 | | 9.3 | 11.8 个 | 27% | |
| To Chapel Hill | 1,801 | 1,814 | 1% | | | | 22.3 | 21.9 🎽 | -2% | |
| 400 From Durham/Patterson Place | 269 | 292 🖌 | ^ 9% | 14.5 | 14.3 | | 18.9 | 20.4 个 | 8% | |
| 405 From Durham | 304 | 285 | -6% | 10.9 | 10.9 | | 27.9 | 26.0 얼 | -7% | |
| 420 From Hillsborough | 157 | 158 | 0% | 9.3 | 9.3 | | 16.9 | 16.9 얼 | 0% | |
| 800 * From RTC/Southpoint | 494 | 508 | 3% | 18.4 | 18.4 | | 26.9 | 27.6 个 | 3% | |
| 805 From RTC/Woodcroft | 341 | 330 | -3% | 14.9 | 14.9 | | 22.9 | 22.2 얼 | -3% | |
| CRX From Raleigh | 235 | 242 | 3% | 13.0 | 15.3 | 17% | 18.2 | 16.0 🦊 | -12% | |
| To RTC | 1,032 | 933 🤜 | • | | | | 14.0 | 12.3 🔶 | -12% | |
| 100 * From Raleigh/Airport | 160 | 146 | -9% | 12.2 | 12.0 | | 13.0 | 12.1 얼 | -7% | |
| 105 From Raleigh | 176 | 144 | -18% | 9.6 | 10.6 | | 18.4 | 13.7 🦊 | -25% | |
| 201 From North Raleigh | 80 | 74 | -7% | 7.3 | 7.8 | | 10.9 | 9.5 🦊 | -12% | |
| 300 * From Cary | 91 | 68 | • | 5.6 | 6.8 | 10% | 16.2 | 10.0 🦊 | -38% | |
| 311 From Apex/Lake Pine | 57 | 52 | -8% | 8.7 | 8.7 | | 6.3 | 6.0 얼 | -4% | |
| 700 * From Durham | 211 | 201 | -5% | 6.3 | 6.8 | | 33.3 | 30.0 🦊 | -10% | |
| 800 * From Chapel Hill/Southpoint | 107 | 115 | | 12.3 | 12.1 | | 8.7 | 9.5 个 | 8% | |
| 805 From Woodcroft | 150 | 133 | -11% | 11.3 | 11.5 | | 13.3 | 11.6 🦊 | -12% | |
| RTP Shuttles | 178 | 158 | -11% | | | | 9.5 | 8.4 🔶 | -11% | |
| 42 Davis Dr/IBM Shuttle | 24 | 25 | - | 4.8 | 4.8 | | 5.0 | 5.3 个 | 6% | |
| 46 Miami/TW Alexander Shuttle | 32 | 27 | -16% | 4.6 | 4.5 | | 6.9 | 5.9 🦊 | -15% | |
| 47 TW Alexander/Cornwallis Shuttle | 61 | 44 | -28% | 4.8 | 4.7 | | 12.8 | 9.3 🦊 | -27% | |
| 49 Kit Creek Shuttle | 62 | 62 | 1% | 4.7 | 4.8 | | 13.3 | 13.1 対 | -2% | |

This table shows peak-hour trips from Origin to Destination in the AM, and back in the PM.

*** indicates that passengers commonly do not ride all the way to the final destination.