ATTACHMENT A



2018 System Evaluation





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Executive Summary

This report presents Metro Transit's annual assessment of its transit network as required by King County Ordinances 17143 and 18413 and Motion 13736. The report includes information about fixed-route, Dial-A-Ride Transit (DART), Water Taxi, and Community Connections services, all part of Metro's expanding portfolio of mobility solutions.

Our analysis found that service improved where we invested to relieve crowding and improve reliability. Our investments also brought several corridors around the county up to their target service levels. However, despite our investments, we continue to see bus reliability degrade. Sustained improvements in reliability will require additional service hours as well as infrastructure investments to keep buses moving.

Our Findings

Our 2018 data analysis found that an investment of about 479,650 annual service hours is needed to meet target service levels and improve service quality—a slight decrease from last year's number. The analysis reflects recent investments, growth in jobs and population, and increasing congestion on our roadways.

Metro currently operates about 4.1 million annual hours of Metro service. Making the investments identified in this report would reduce crowding, improve reliability, and grow our service network. To achieve our METRO CONNECTS long-range vision and meet the demands of the Puget Sound Regional Council's Transportation 2040 plan, we will need to provide about two million more annual hours of service.

Investment

In fall 2017 and spring 2018, Metro invested about 158,000 annual service hours in our system to meet needs identified in previous reports. These investments include the following:

- » 12,600 hours to relieve crowding (Priority 1)
- » 23,800 hours to improve reliability (Priority 2) and operator access to comfort stations
- » 77,500 hours in service growth on major transit corridors (Priority 3)

- » Metro's Community Connections investments in Vashon Island Community Van, Bothell/Woodinville Community Van, Des Moines Community Shuttle, and Trailhead Direct – Issaquah Alps
- » Other targeted investments in fixed-route service to respond to construction projects and to improve Night Owl service

Seattle Investments

Metro and Seattle work together to plan and implement new service funded by the Seattle Transportation Benefit District (approved by voters in November 2014). In fall 2017 and spring 2018, Seattle invested 38,400 annual service hours. In accordance with the contract between Metro and Seattle, Metro assumes funding for some of Seattle's investments as we expand service. More information about the services funded through the Seattle Transportation Benefit District is available on the City of Seattle website (www.seattle.gov/ council/committees/transportation/seattle-transportationbenefit-district).

Metro's Community Connections

This report includes performance data for pilot services created under Metro's Community Connections program that were in the evaluation stage between September 2017 and March 2018. This program works with local governments and community partners to develop innovative and cost-efficient transportation solutions in areas of King County that do not have the infrastructure, density, or land use to support regular, fixed-route bus service. Over time, this program will grow to include a broad and diverse set of mobility services.

2018 Investment Needs



7,800 bus hours Priority 1

(Reduce Crowding)



19,250 bus hours Priority 2

(Improve Reliability)

452,600 bus hours Priority 3 (Service Growth)



Marine Division

In accordance with King County Ordinance 18413, we include data on the King County Water Taxi service in this report. With two routes that connect Colman Dock in downtown Seattle with Vashon Island and West Seattle, the Water Taxi provides waterborne transit services that complement Metro's transit service. Information about Water Taxi services is included in the Fixed-Route Service Evaluation and in the tables in appendices C, E, F, and G. The Water Taxi will become a division of Metro in 2019.

Our Future

As this report was finalized, we were preparing to add some 87,000 hours of new service in September 2018. Some of these new hours will address the priority investment needs identified in this System Evaluation, while others will respond to major construction projects in the region. Future investments will be included in the county's biennial budget process. The King County Marine Division is exploring opportunities to partner with other agencies to provide more Water Taxi service, but in the near term, the division plans to maintain current service on its two existing routes and evaluate changing needs in West Seattle.

The needs identified in this report are only part of the 2 million service hours needed to nearly double our ridership and achieve the METRO CONNECTS vision. As we move toward achieving this vision, we aim to improve coordination with external agencies and jurisdictions to identify opportunities to deliver the plan efficiently and effectively. More work is underway to align our Service Guidelines with METRO CONNECTS and to incorporate all of our mobility services in a common framework for evaluation.

Introduction

What is the System Evaluation?

This report is a snapshot of the health of our transit system: our fixed-route bus services, the Community Connections program, and the King County Water Taxis. It is based on our Service Guidelines, which established criteria and processes that we use to analyze and plan changes to our transit system. The guidelines were adopted by the King County Council (Ordinances 18301 and 18413 and Motion 13736). The report contains the following:

- » Fixed-route service evaluation
- » Community Connections evaluation
- » METRO CONNECTS progress report
- » Potential changes to the Service Guidelines and Strategic Plan for Public Transportation.

Reducing crowding and improving reliability—our service quality indicators—are Metro's top two investment priorities, as they directly affect the quality of our service. Improvements in these areas help us keep the riders we have and attract new ones. Growing our service is our third investment priority. More service lets us provide better mobility options and helps us meet existing demand, reach climate action goals, and help the region's economy to continue growing without expanding roadways. Highly productive routes are our fourth investment priority. Much of the growth envisioned by METRO CONNECTS is on highly productive routes.



Why produce the report?

Metro analyzes transit system data to inform decision-making and continuous improvement. We publish the report to show the public the basis for our decisions about adding, reducing, or changing service.

How does Metro use the report?

We analyze data to learn where problems exist in our system and where we are not providing enough service. We combine this information with what we hear from customers, operators, and partners to develop proposals to change service. We take these proposals to the public, gather and incorporate feedback, and submit final plans for approval by the King County Council. After we make the approved service changes, the cycle begins again.

Our data analysis and the policies embedded in our Service Guidelines give us guidance on how to add, reduce, and restructure service. Future updates will align the Service Guidelines to the forward-looking goals of METRO CONNECTS.

How can you use the report?

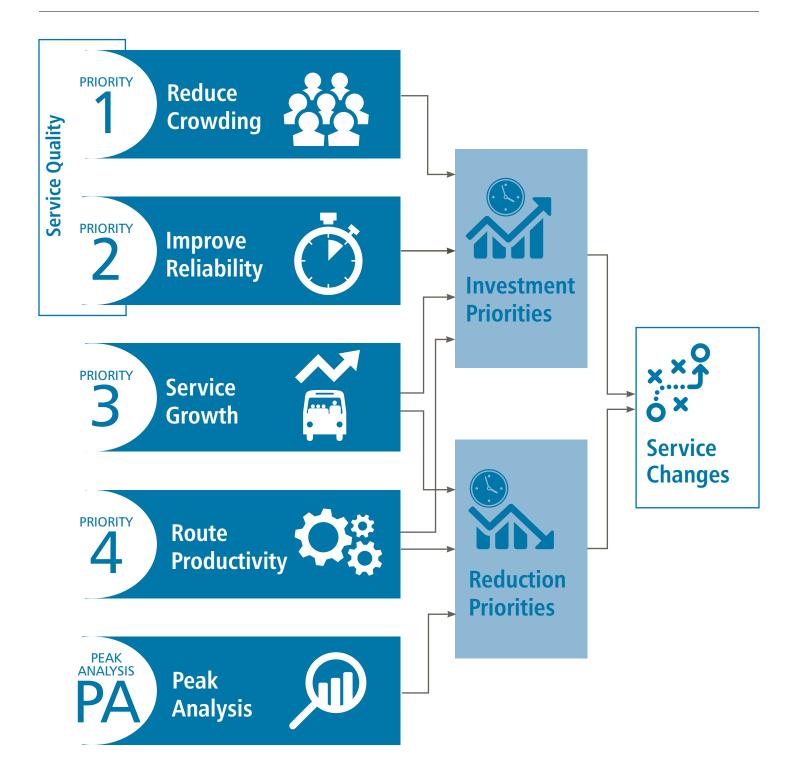
You can find your route(s) on the maps throughout this report and in the appendix tables and see how they compare to other routes in the system. You will be able to tell at a glance if we have identified problems on your route (like crowding), and what we believe we need to do to fix them. Keep in mind that this report provides a snapshot in time; some problems come and go, and we use the latest available data to make investment proposals.



King County Water Taxi Information

We evaluated King County Water Taxi services for crowding, reliability, and productivity and conducted the peak analysis as well. See the Fixed-Route Service Evaluation section and the tables in appendices C, E, F, and G.





Fixed-Route Service Evaluation

Crowding (Priority 1)

What is Crowding?

Reducing crowding is our highest investment priority. A trip is crowded if:

- » Its average maximum load is more than the crowding threshold for its type of bus
- » Its average passenger load is more than the number of seats for 20 consecutive minutes
- Trips must be consistently crowded for several months to be identified for investment.

What We Found

After accounting for planned September 2018 investments, we identified 18 routes with chronically crowded trips, an increase from last year's 13. This change from last year reflects increases in both ridership and traffic congestion, which makes bus trips take more time. Fourteen of these 18 routes are new to the list. Only two meet the first condition listed above; the rest have 20-minute standing passenger loads.

Most crowding happens during peak periods. For the near-term, our ability to add new service during these times will remain constrained. New peak service requires more buses, and our ability to increase the size of our fleet is limited by the space available at our seven bases. We are taking steps to increase available space at these bases and we also plan to build a new base.

What We've Done

Between fall 2017 and spring 2018, approximately 12,600 hours were added to our transit system to reduce crowding. These investments were based on our 2017 System Evaluation and the latest available data.

What's Next?

As we were preparing this report, 2,700 new service hours were slated to be added in September 2018, using Metro funds to address the most pressing crowding problems we have identified. Additional new service hours to reduce crowding were planned to be funded through partnership programs. We have proposed more hours to address crowding in our budget submission for 2019-2020, in accordance with our Service Guidelines. The specific investments we make will be informed by the latest data available at the time and the previously-mentioned constraints on adding service in peak periods.



Of the 10 routes that received investments in March 2018



7 are no longer chronically crowded



3 saw a decrease in crowding (but still need more investment)



King County Water Taxi

The capacity of Water Taxi vessels is capped by maritime regulations. From October 2017 to March 2018, no trips on either the West Seattle or Vashon Island Water Taxi routes were at capacity (278 passengers). The West Seattle schedule was adjusted to accommodate the Seattle terminal move from Pier 50 to Pier 52. This reduced service by one trip per day during commute hours. We expect upcoming transportation changes to affect West Seattle commute routes and increase the demand for waterborne transit in the near future. We've begun planning to analyze and develop future service and facility changes to meet this demand.

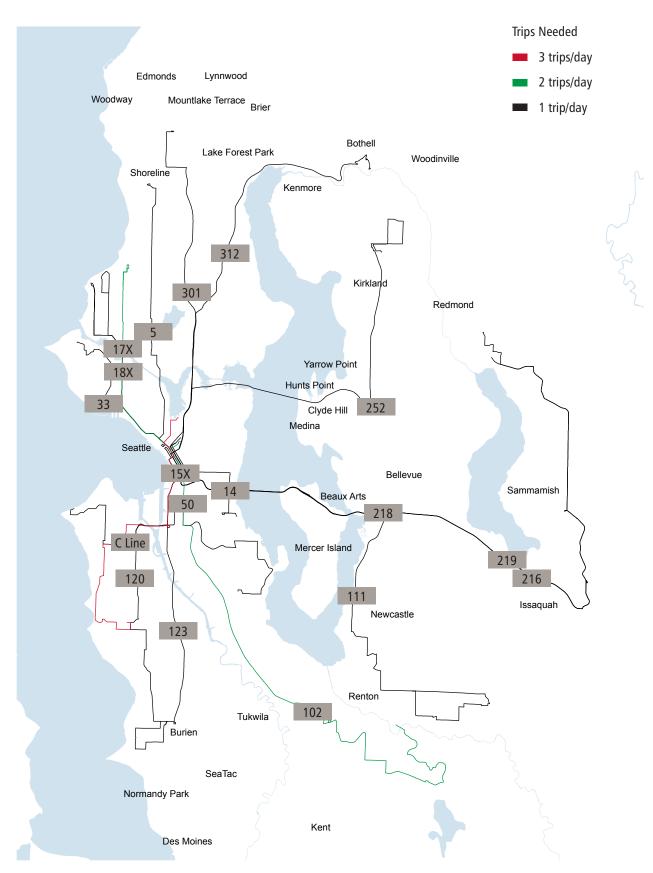


Figure 1. Metro Fixed Routes Needing Investment to Reduce Crowding per the Service Guidelines

Reliability (Priority 2)

What is Reliability?

In a transit context, reliability refers to whether buses arrive when they are supposed to. We consider routes whose buses arrive late more than 20 percent of the time all day, or more than 35 percent of the time during the afternoon peak period, to be candidates for investment. We can invest by adding running time to schedules, but we also partner with cities on infrastructure improvements. These improvements help buses move faster and more reliably, saving money and providing a better customer experience.

What We Found

Despite aggressive recent investments in reliability, new challenges have emerged. These new issues, along with increased traffic congestion and high ridership, have increased our investment need over last year's figure by about 2,250 annual hours. We list 61 routes needing investment—36 of them are new. Ten routes that were on last year's list are now within standards, but the rest have new or outstanding needs. See Appendix F for route-byroute reliability numbers.

» South county routes.

Routes 105, 106, 107, 111, 113, 114, 116, 122, 124, 132, 143, 148, 150, 157, 158, 159, 169, 177, 182, and 192 are new to the list. Most of them slipped just out of standard this year, so their investment needs are relatively small. Routes that travel on I-5 south of Seattle have increasing reliability problems.

» East county routes.

Routes 208, 214, 235, 236, 238, 240, and 244 are new to the list, most of them just out of standard. Other routes that use I-90, including routes 111, 114, 212, 216, 218, and 219, still have reliability problems despite previous investments—likely due to the closure of express lanes on I-90.

» Other routes.

Routes 1, 5X, 17, 18, 21, 24, 27, 33, and 56 are new to the list. One RapidRide line, the E Line, also slipped out of standard on weekdays. » Weekends. The system-wide investment need for Saturday service (2,700 hours of the Priority 2 investment need) nearly doubled over last year, indicating worsening weekend traffic.

What We've Done

In March, we invested about 8,000 hours directly in service schedules to improve reliability. Taken as a whole, the routes we invested in saw weekday lateness decrease by about 19 percent overall, and by about 34 percent in the morning peak period. We invested another 13,700 hours in schedules in the summer to mitigate the impacts of the closure of Convention Place Station at the north end of the Downtown Seattle Transit Tunnel.

We also continued or expanded our partnerships with Seattle, Kent, Bothell, Redmond, Bellevue, Kirkland, Shoreline, and Union Pacific Railroad to implement infrastructure-related spot improvements in 18 places. These improvements helped keep 47,500 daily riders moving on 38 bus routes.

What's Next?

Major construction projects will significantly affect Metro's service over the next year. While preparing this report, we planned to do the following:

» In September, add 3,500 hours for reliability (Priority 2 investments).



- In September, add 25,500 hours to reduce the effects on reliability of major construction projects associated with the expansion of Link light rail and the closure of the Alaskan Way Viaduct.
- » In spring 2019, add about 34,000 hours to reduce the effects on reliability of moving buses out of the Downtown Seattle Transit Tunnel and construction on SR-520 and SR-99.
- » Also in spring 2019, implement off-board fare payment and all-door boarding in the Third Avenue transit corridor in downtown Seattle. These changes will help keep riders moving through the busiest bus corridor in the system.

Our findings continue to reinforce the idea that adding running time to schedules to deal with increased congestion is not always the best way to improve reliability-it just acknowledges that it takes longer than before to make the same trip. We've already implemented other ways to keep buses moving, including simplifying fares, increasing opportunities for offboard fare payment, improving signage, and consolidating stops. As we seek to expand our infrastructure work to improve bus speed and reliability, we highly value partnerships with jurisdictions to help us make these improvements.

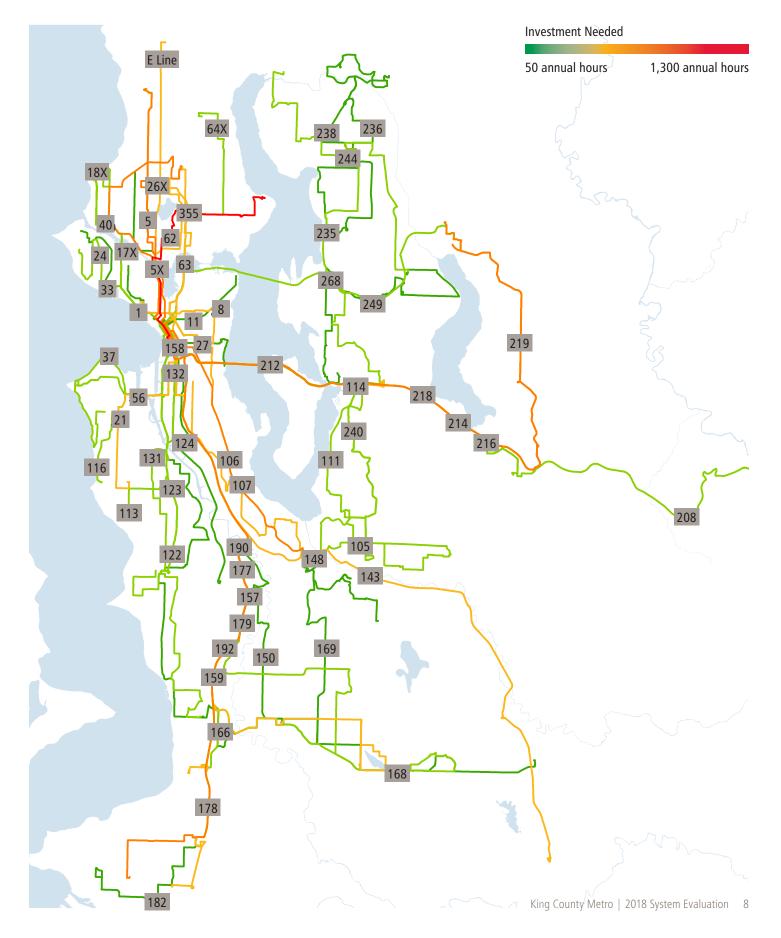


Figure 2. Metro Fixed Routes Needing Investment to Improve Reliability per the Service Guidelines

Service Growth (Priority 3)

What is Service Growth?

Our Service Guidelines set policies that determine how often buses should come throughout the day on major transit corridors in our existing system. This is referred to in the Service Guidelines as target service levels. This analysis is based on a combination of land use productivity, social equity factors, and how well each corridor connects centers in our county. The gap between how much service we currently provide and how much service is needed constitutes the investment needed to meet target service levels. For this year's analysis, we used data from September 2017 through March 2018. A summary of the analysis and the investment need for each corridor are in appendices I and J.



What We Found

Service needs to grow on 54 corridors, fewer than last year's 58. Our total Priority 3 investment need decreased by about 33,000 hours from last year. While we invested about 46,500 new service hours in Priority 3 needs since last year's System Evaluation, growth in jobs, population, and ridership have created higher target service levels for some corridors this year. See the maps on the following pages for depictions of needs by time period.

What We've Done

In March, we invested about 46,500 hours to grow service on corridors identified in last year's report and assumed funding for nearly 22,000 partner-funded hours that were consistent with Priority 3 needs. Before this, in September 2017, we invested about 31,000 hours in corridors. (These investments were accounted for in last year's Priority 3 investment need.) Together, these hours grew service on routes 24, 60, 74, 101, 131, 153, 169, 183, 240, 269, and 930.

What's Next?

As we prepared this report, we planned to make our third and final phase of Priority 3 investments for the current biennium, totaling 27,200 hours, in September 2018. This brings total Priority 3 investments in new service over the last two years to over 100,000 hours. The investments this fall will benefit routes 5, 5X, 31, 32, 75, 150, 180, 240, 331, 345, and the F Line. Some of these routes do not appear in this year's Priority 3 investment list because the planned investments (per the biennial budget) will fulfill their Priority 3 investment needs.

Over the next few years, we expect to continue growing the system, but at a slower rate than over the past two years. As we look at future projects and investments, we will use the analysis of Priority 3 needs to inform service proposals. We also plan to work with public and private partners to expand mobility where possible. Our bus base capacity, which is currently stretched, will limit our ability to expand service, particularly in the peak periods. We are investing in increased bus storage and maintenance capacity to alleviate this constraint.

| | Service Level: Frequ | ency (minutes) and T | | | | | |
|--------------------------|--|----------------------|--------------|-----------------|------------------|--|--|
| Service Level | Peak | Off-peak | Night | Days of Service | Hours of Service | | |
| Very frequent | 15 or better | 15 or better | 30 or better | 7 days | 16–24 hours | | |
| Frequent | 15 or better | 30 | 30 | 7 days | 16–24 hours | | |
| Local | 30 | 30–60 | * | 5–7 days | 12–16 hours | | |
| Hourly | 60 | 60 | | 5 days | 8–12 hours | | |
| Peak-only | 8 trips/day minimum | | | 5 days | Peak | | |
| Community Connections | Determined by demand and community collaboration process | | | | | | |

Table 1: Summary of Typical Service Levels

* Night service on local corridors is determined by ridership and connections made



The Complete Network: Integration with Sound Transit

Metro and Sound Transit continue joint planning to ensure we create an integrated network with the best possible transfer environments when Link light rail is extended to Northgate and Overlake, maximizing the total regional investment in transit service. We have also been working with Sound Transit, the University of Washington, and the Seattle Department of Transportation to review several ideas for improving transfers at the Montlake Triangle / University of Washington Station area as part of the North Eastside Mobility project. The goals of the project are to make transfers better and enable Metro to extend mobility benefits in line with our long-range plan, METRO CONNECTS. The results of this review, together with public feedback, will inform future decision-making about transfer environment improvements and service revisions.

Table 2 lists key corridors in King County where Sound Transit is the primary provider of two-way, all-day transit service. In many of these corridors, Metro operates mainly peak service that complements Sound Transit's all-day service.

| Between | And | Via | Major Route | |
|-------------|---------------------|---|-----------------|--|
| Woodinville | Downtown Seattle | Bothell, Kenmore, Lake Forest Park, Lake City | 522 | |
| UW Bothell | Bellevue | Totem Lake | 535 | |
| Redmond | Downtown Seattle | Overlake | 545 | |
| Bellevue | Downtown Seattle | Mercer Island | 550 | |
| Issaquah | Downtown Seattle | Eastgate, Mercer Island | 554 | |
| Burien | Bellevue | SeaTac, Renton | 560 | |
| Auburn | Overlake | Kent, Renton, Bellevue | 566 | |
| SeaTac | Federal Way | I-5 | 574 | |
| Federal Way | Downtown Seattle | I-5 | 577/578 | |
| Angle Lake | University District | SeaTac, Rainier Valley, downtown Seattle, Capitol Hill | Link light rail | |

Table 2. Corridors Served Primarily by Sound Transit

As Link service continues to expand, Sound Transit will become the backbone provider in more corridors, such as Northgate to downtown Seattle. As services are introduced and modified, Metro and Sound Transit will integrate services to maximize mobility.

As part of the multi-agency One Center City effort (onecentercity.org), we have begun to implement strategies that will help people cope with the confluence of major construction projects scheduled to take place in the coming months in downtown Seattle. These strategies include making major improvements on Third, Fifth, and Sixth Avenues in downtown Seattle.



Figure 3. Metro Corridors Needing Investment per the Service Guidelines (Peak Period, 5–9 a.m. and 3–7 p.m.)

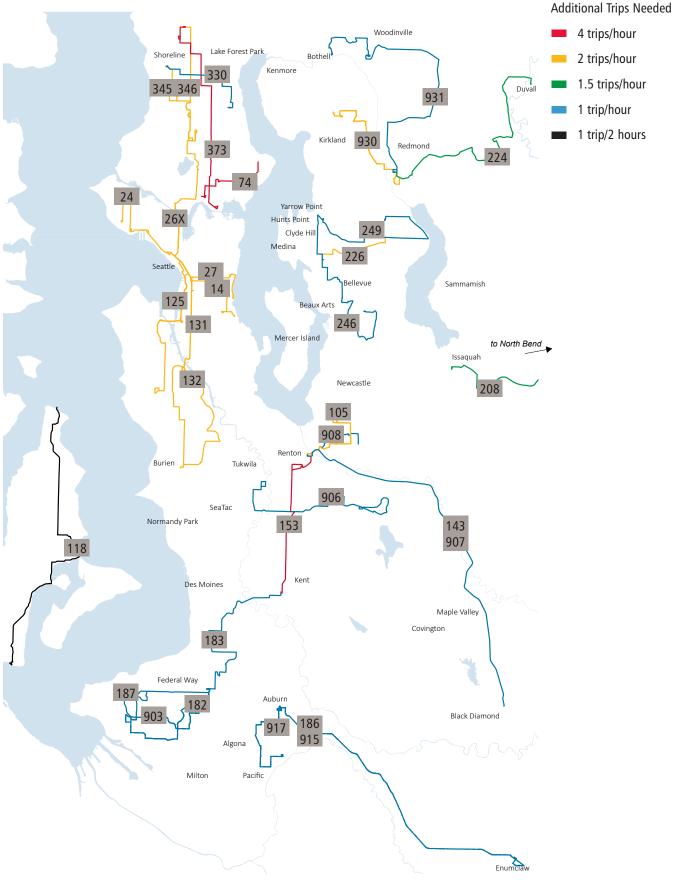


Figure 4. Metro Corridors Needing Investment per the Service Guidelines (Off-Peak Period, 9 a.m.-3 p.m.)

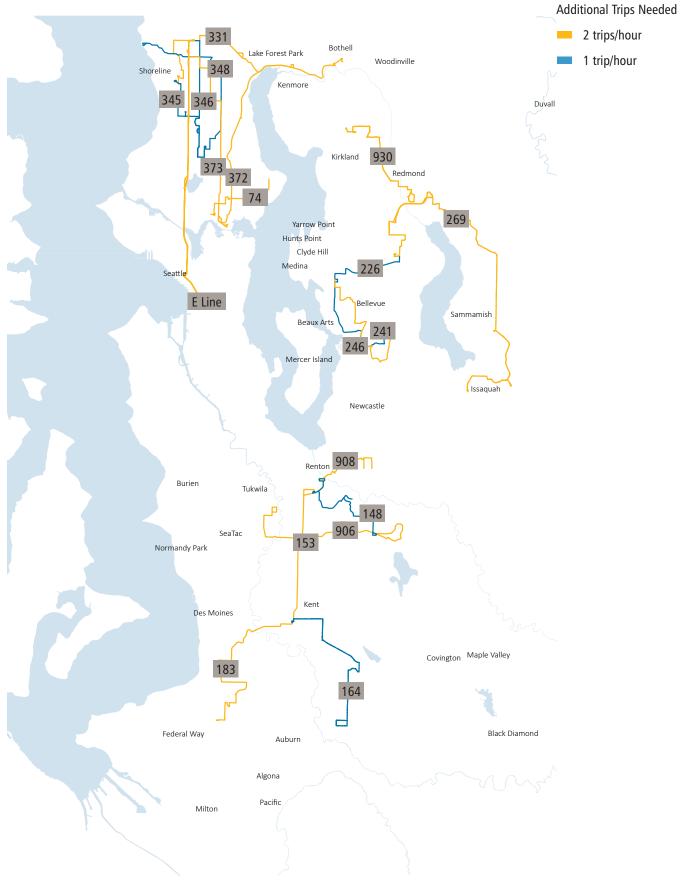


Figure 5. Metro Corridors Needing Investment per the Service Guidelines (Night Period, after 7 p.m.)

Route Productivity (Priority 4)

What is Productivity?

Productivity is a measure of efficiency and an indicator of how much demand there is for service. High productivity indicates high demand for transit, so the region has an interest in meeting that demand and helping it grow even more. Much of the transit service growth envisioned by METRO CONNECTS will happen on routes and in areas that are highly productive. See Appendix A for more about how we measure productivity.

Route productivity statistics (Appendix C) inform our decisions about service investments, restructures, and reductions. Routes in the top 25 percent are eligible for investment, and routes in the bottom 25 percent are eligible for reduction¹ when the budget requires service reductions. The fixed-route system is divided into three service types (Urban, Suburban, and DART/Shuttles), and each route is compared only to other routes of the same service type. (See Appendix A for definitions of these categories.)

From March through June 2018, we generally saw a continuation of the recent trend of decreasing productivity, although this year's results were more mixed than last year's. This is expected in periods of growth, as it can take some time for ridership to build after adding service hours to the system.

- » Suburban routes remained generally flat, though we do see indications of strengthening productivity. Notably, productivity increased at night.
- » Urban routes also saw increases in productivity at night, though not to the same extent as Suburban routes. Metro and Seattle invested in midday service over the past year, so midday productivity declined as expected.

See Appendix C for route-by-route productivity data and Appendix D for changes to the thresholds designating the top and bottom 25 percent of routes by service type.

Peak Analysis

What is Peak Analysis?

Peak-only services are routes, including express variants of local routes, that run only during the morning and afternoon peak periods on weekdays. Peak-only services add to the all-day network and provide more service at times of peak demand, usually in one direction.

In addition to their evaluation for crowding and reliability, peak-only routes undergo an additional analysis called the peak analysis. It compares each route that operates only in the peak period to an underlying local alternative, if one exists. Routes are measured in two metrics:

- » Travel time: Is the peak-only route ≥20 percent faster than the local alternative?
- » Ridership: Does the peak-only route have ≥90 percent of the local alternative's ridership during the peak hours?

Peak-only routes incur additional operating costs, as they require an increase in the size of our fleet and spend a higherthan-average amount of time deadheading (traveling without passengers from the base to the first bus stop, and from the last bus stop back to the base). To justify these additional costs and avoid being assigned top priority for reduction when Metro must reduce service, low-performing peak-only routes must meet at least one of the criteria above. (Note: high-performing peak-only routes are excluded from the top priority for reduction, like all other high-performing routes.) Our Service Guidelines provide more information about how we use peak-only metrics when reducing service.

This year, we found that 56 of the 64 peak-only routes we analyzed met at least one of the criteria, leaving only eight routes that failed both. See Appendix E for the complete results of our peak analysis.







Community Connections Annual Report

Metro's Community Connections program (formerly Alternative Services) was created in response to growing demand for mobility in the face of fluctuating funding. Its purposes are to support growing communities, right-size and complement existing services, and develop innovative alternatives to fixed-route service in communities that lack the land use, density, or topography to support a productive fixed-route transit network.

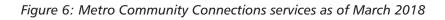
The alternative services concept became a four-year demonstration program with dedicated funding in King County's 2015–2016 biennial budget (Ordinance 17941). Work on the demonstration program has been guided by the priorities established by the funding ordinance: reducing the impact of service reductions, delivering the priorities laid out in the Five-Year Implementation Plan for Alternatives to Transit Service Delivery, and developing complementary services. It will continue as a regular Metro program in 2019–2020. The program will manage pilot projects already underway and manage the conversion of successful pilot services to operational services.

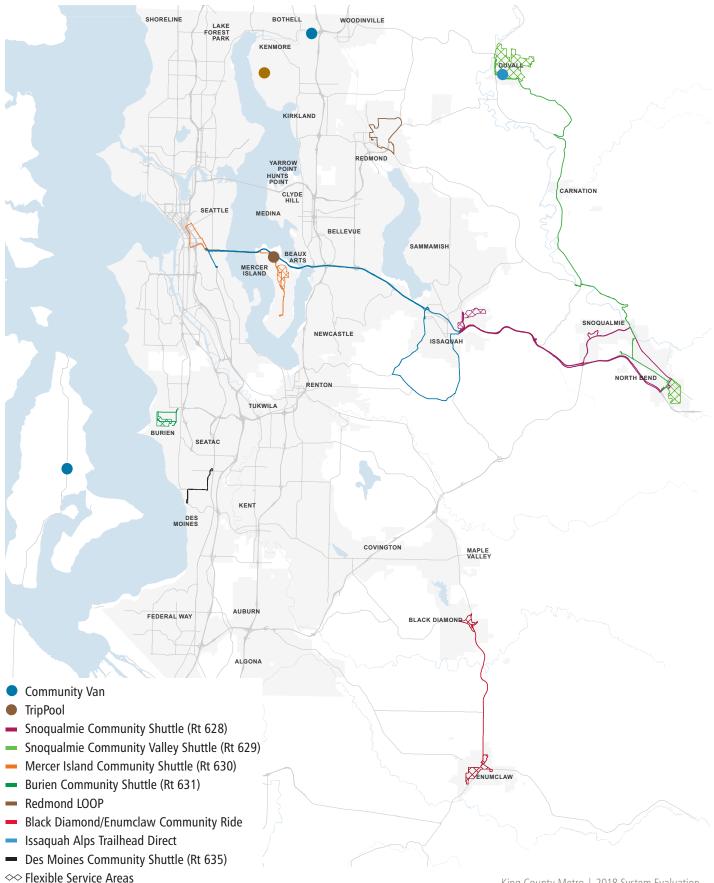
One of the defining features of the Community Connections program is the ability to launch, test, and refine innovative service solutions in partnership with communities. These services leverage Metro's long-standing success in both DART and ridesharing services in combination with emerging mobility technologies. In addition to our current services (described below), we are also considering new ideas that include vehicles that respond to requests in real-time, promotional partnerships with taxi and transportation network companies, and "space-available open door" access to eligibility-based services. As we continue to work with communities on our pilot projects, we expect to develop other ideas for innovative, customized services.

- » Community Ride: Reservation-based services for appointments, errands, and other local trips.
- » Community Shuttle: Metro routes with flexible service areas, provided through community partnerships.
- » Community Van: Metro vans for local group trips scheduled by a community transportation coordinator to meet local needs.
- » Flex VanPool: Through a mobile app, allows VanPool drivers to make temporarily empty seats available to drop-in riders interested in sharing the ride for one-way trips.
- » On-Demand Ride: Users can hail trips to and from a transit center or park-and-ride, on-demand, using a phone or mobile app. Provided through partnership with a private company.
- » Midday Your Way: Provides midday transportation options for workers who commute by transit or VanPool. Users can check out Metro vehicles at their work sites during designated hours.
- » Real-Time Rideshare: Promotes the use of mobile apps for private carpool ridematching in real-time.
- » **TripPool:** Real-time ridesharing between users' home neighborhoods and transit centers.
- » Neighborhood Connections: Designated gathering points for catching shared rides, and pathway improvements that make it safer to reach transportation options.

Pilot Services

The map in Figure 6 shows the 13 pilot services operating during the September 2017 to March 2018 service period.





Product Performance

Metro collects and analyzes ridership data for pilot services deployed through the Community Connections program. Pilot services that were in their performance evaluation phase during September 2017 to March 2018 include the Snoqualmie Community Shuttle (Route 628), Snoqualmie Valley Community Shuttle (Route 629), Mercer Island Community Shuttle (Route 630), Burien Community Shuttle (Route 631), Redmond LOOP, Black Diamond Enumclaw Community Ride, and Mercer Island TripPool. Please see Appendix A for the method we used to develop performance measures.

Operational pilot services shown in Figure 6 that were not in their performance evaluation phase during the September 2017-March 2018 service period include Bothell-Woodinville Community Van, Vashon Community Van, Trailhead Direct-Issaquah Alps, and Des Moines Community Shuttle; these services were in their baseline data collection phase as of March 2018. Note: The 2017 System Evaluation included Redmond Real-Time Rideshare as an operational pilot service; due to a lack of ridership, this pilot was discontinued in November 2017 prior to reaching the performance evaluation phase.

| Route | Daily Ridership | Cost/ Boarding | Vehicle Utilization | Customer Satisfaction |
|---|--------------------|-------------------|------------------------|--------------------------|
| Snoqualmie Community Shuttle (Route 628) | 57.4 | \$20.78 | 37% | 90% |
| Snoqualmie Valley Community Shuttle (Route 629) | 69.1 | \$18.66 | 59% | 100% |
| Mercer Island Community Shuttle (Route 630) | 166.4 | \$4.15 | 76% | 100% |
| Burien Community Shuttle (Route 631) | 79.3 | \$6.38 | 36% | 100% |
| Redmond LOOP | 19.8 | \$19.51 | 44% | 95% |
| Black Diamond Enumclaw Community Ride | 10.8 | \$36.66 | 13% | 100% |

Table 3: Data for Pilot Services in Evaluation Phase, September 2017–March 2018

| Route | Monthly | Cost/ | Vehicle | Customer | |
|-------------------------|-----------------|----------|-------------|--------------|--|
| | Passenger Trips | Boarding | Utilization | Satisfaction | |
| Mercer Island TripPool* | 52 | \$2.67 | 22% | TBD | |

* Discontinued in July 2018 due to poor performance

Projects in Planning

Figure 7 shows pilot services that were in the planning stage at the end of the assessment period (March 2018). This stage includes needs assessment, concept preference analysis, and implementation planning.



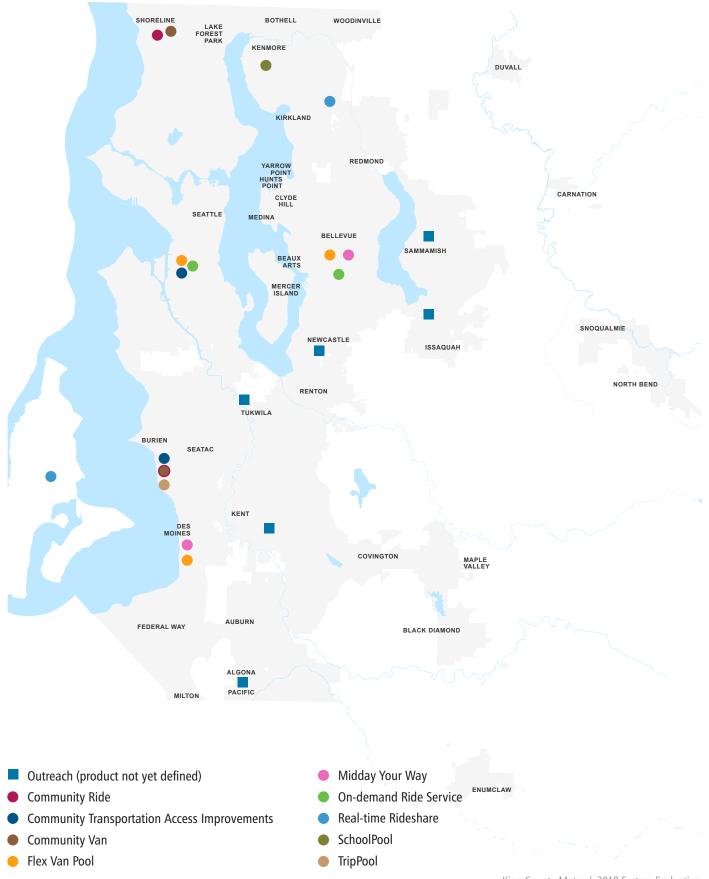


Figure 7: Metro Community Connections Projects in Planning Phases as of March 2018

METRO CONNECTS Progress Report

Overview

This section reports on Metro's progress toward the METRO CONNECTS long-range vision: to bring more and better transit service to King County to meet the growing demand and needs of the region over the next 25 years. This is the second installment of this report and represents Metro's first step in the long-term monitoring of performance metrics associated with METRO CONNECTS.

Measuring Progress

METRO CONNECTS envisions major changes to the King County transit network that would increase access to transit, how much transit is used, and how efficient it is. The plan outlines key performance metrics intended to show progress toward our 2040 vision (see Figure 9 on p. 27 of METRO CONNECTS). Table 4 below compares our current performance on some of these metrics to our goals for 2040. These metrics are intended to measure:

- **»** Transit access. Walkable access to frequent transit service, including for historically disadvantaged populations, and how people are getting to transit
- » Transit use. Use of Metro and Metro-operated transit systems, and transit use during the busiest travel times
- » Transit efficiency. The productivity and cost-efficiency of our system

Annual monitoring of these metrics allows us to track our progress toward our desired 2040 outcomes. As outlined in METRO CONNECTS, full implementation of the vision will require additional resources beyond what our current revenue sources will be able to provide. In future System Evaluations, we intend to include METRO CONNECTS metrics for accessibility and all-day service. Over the coming year, we will adapt and refine the first round of accessibility analysis published in our 2017 Strategic Plan Progress Report to better align with the metrics outlined in METRO CONNECTS.

Table 4. METRO CONNECTS Performance Metrics

| METRO CONNECTS Performance Metrics | 2017 | 2040 | | | | | |
|--|---------|-----------|--|--|--|--|--|
| Transit access (fixed-route) | | | | | | | |
| Proximity of households to transit stops: percentage of households within half a mile of frequent service | 53% | 73% | | | | | |
| Equity of access: percentage of minority households with access to frequent service | 54% | 77% | | | | | |
| Equity of access: percentage of low-income households with access to frequent service | 61% | 87% | | | | | |
| Proximity of jobs to transit stops: percentage of jobs within half a mile of frequent service | 68% | 87% | | | | | |
| Access to transit: percentage of people who bike and walk to transit | 78% | 84% | | | | | |
| Transit use (all transit) | | | | | | | |
| Ridership: daily boardings | 507,000 | 1,026,000 | | | | | |
| Mode share: percentage of all commute trips taken on transit (2016 one-year American Community Survey estimates, Table B08101) | 13.1% | 23% | | | | | |
| Transit efficiency | | | | | | | |
| Cost per boarding (Metro fixed-route bus and DART service only) *2015 dollars | \$4.73 | \$3.95 | | | | | |
| Productivity: boardings per hour (Metro fixed-route bus and DART service only) | 30.7 | 36.7 | | | | | |





Potential Changes to the Service Guidelines and Strategic Plan Integration with METRO CONNECTS

We are developing updates to integrate METRO CONNECTS into our Service Guidelines. A policy report issued to the King County Council last year identified two major areas of the guidelines that should be updated:

- **» Partnerships.** Clarify the definition, process, prioritization, and support needed, including the development of a strategy for smaller cities.
- » Service network. Revise guidance for prioritizing investments in the future network, incorporating speed and reliability, fleet, layover, access, passenger facilities, bases, and other capital projects into the decision-making process.

Metro will collaborate with the King County Council, Regional Transit Committee, and stakeholders in 2019 to develop proposed policy changes to better align the Service Guidelines with METRO CONNECTS.

Appendices

| Appendix A: Methodologies and Process Descriptions |
|---|
| Appendix B: King County Low-Income and Minority Census Tracts |
| Appendix C: Route Productivity Data |
| Appendix D: Changes to Route Productivity Thresholds |
| Appendix E: Peak Route Analysis |
| Appendix F: Route-level Reliability |
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| Appendix H: Service Changes and Corridor Changes |
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Appendix A: Methodologies and Process Descriptions Crowding (Priority 1)

Data is processed for two metrics: crowding and 20-minute standing loads.

Crowding. Data from Automated Passenger Counters (APCs) are collected, validated, cleaned, and compiled for each unique trip in the system (for example, the Route 5 trip that leaves Shoreline Community College at 5:15 a.m. on weekdays). We use several months of data to determine the average maximum load on each trip. We compare this figure to the crowding threshold of the scheduled coach assignment. Each coach type Metro operates has its own crowding threshold. This threshold is determined by adding the number of seats on the coach to the number of standing passengers the coach can accommodate if each passenger has at least 4 square feet of floor space. For example, a coach with 50 seats and 100 square feet of floor space available for passengers to stand would have a crowding threshold of 50 + 100/4 = 75. If a trip's average maximum load is greater than its crowding threshold, we then determine if other trips that arrive within 15 minutes have the capacity to take the excess load without being overcrowded themselves. If excess capacity does not exist, the route is identified as needing investment. This process prevents Metro from adding too much capacity where it already exists. We estimate investment need based on the number of hours it takes to provide a trip on the identified route in the identified time period.

20-minute standing loads. We compile data from APCs for each unique trip in the system. We use several months of data to determine the average departing load from each bus stop served by the trip. We also use the data to determine the average time when buses leave each stop (known as the "passing minute"). We process these data to determine whether the passenger load exceeded the number of seats on the scheduled coach assignment for a period of at least 20 consecutive minutes. Where this happens, we check whether other trips that arrive within 15 minutes have the capacity to take those standing passengers without having standing loads themselves. If we don't find excess capacity, we identify the route as needing investment. Note that this measure does not determine if any individual passengers were standing for more than 20 minutes, as Metro is unable to collect such data. Investment need is estimated as above.

Reliability (Priority 2)

On-time performance is measured by comparing actual arrival times at time stops to scheduled arrival times. Buses that arrive at time stops up to 1.5 minutes before the scheduled time and up to 5.5 minutes after the scheduled time are considered to be on time. This allows for random variations resulting from operating in mixed traffic without prompting an unnecessary allocation of resources. All arrivals at time stops are recorded by systems on the bus. This data is then validated and cleaned. For the System Evaluation, we analyze late arrivals by route and by time period. The four time periods we use are weekdays all day, weekday PM peak, Saturdays all day, and Sundays all day. For each route and each time period, we calculate the percentage of recorded arrivals at time stops that are late (more than 5.5 minutes after the scheduled arrival time). For all-day measures, routes that arrive late more than 20 percent of the time are identified for investment. For the weekday PM peak period, routes that arrive late more than 35 percent of the time are identified for investment. Investment need is estimated based on how much time must be added to schedules to ensure the route meets the 20 percent or 35 percent goal.

Service Growth (Priority 3)

Target service levels are determined for corridors, which are major transit pathways throughout the county. A combination of productivity, geographic value, and social equity factors are used to determine how much service each corridor should have.

Productivity. The productivity measure includes two primary factors:

Housing. We calculate the number of housing units that fall within a quarter-mile network-based walkshed of each stop served by the corridor. Housing unit information is maintained by the King County Assessor. We add the number of park-and-ride stalls within the same walkshed, multiplied by a factor of 1.1 (representing average occupancy), to this figure. Park-and-ride data is maintained by Metro. A graduated scale establishes the points assigned to each corridor (see the Service Guidelines for more information).

Employment. We calculate the number of jobs that fall within the same walkshed. This proprietary information is provided by the Puget Sound Regional Council. To this number we add the number of in-person students at campuses of degree-conferring institutes of higher learning that fall within the same walkshed. This data is collected from each institute of higher learning. A graduated scale establishes the points assigned to each corridor (see the Service Guidelines for more information).

Geographic Value. This measure determines the value of connections made between centers. A primary connection between each distinct pair of Regional Growth Centers, Manufacturing/Industrial Centers, and Transit Activity Centers is determined based on two factors: ridership and travel time. These two factors are designed to determine which corridor a typical rider would choose when traveling between two centers. We evaluate each corridor serving each pair of centers on these factors; the best corridor is determined to be the primary connection and scores points as outlined in the Service Guidelines.

Social Equity. This measure includes two primary factors:

- » Boardings from low-income census tracts
- » Boardings from minority census tracts

First, census tracts in King County are divided into two groups: low-income or not low-income. Low-income tracts are those where a greater percentage of the population than the countywide average has low incomes (less than 200 percent of the federal poverty level depending on household size). This data is from the latest American Community Survey 5-year estimates, or decennial census data when it is the most up-to-date and accurate. Second, we compare each corridor's proportion of inbound boardings that happen in low-income tracts to the systemwide average of boardings in low-income tracts. Corridors above the systemwide average receive the greatest numbers of points, while corridors just below the systemwide average receive fewer. See the Service Guidelines for more details.

We use this same process to measure boardings from minority census tracts.

Initial target and final target. The aggregate score of the three measures above determines each corridor's initial service level. We then conduct an analysis that measures how crowded buses would be, given current ridership, if only that level of service were provided. If the initial level of service is not sufficient to handle current ridership, we adjust final target service levels upward to ensure the target at least matches current demand. We apply additional policy considerations for night service to arrive at target service levels for peak, off-peak, and night time periods. Then we compare the target to current service levels in each time period. We estimate investment need corridor by corridor based on this gap, if one exists, by determining the number of additional trips that are needed to meet the target. We prioritize corridors for investment based on their initial score, ordering first by geographic value, then productivity, then social equity, then corridor number if a tie exists.

Route Productivity (Priority 4)

We calculate two measures of productivity for three time periods (peak, off-peak, and night):

- » Rides per platform hour. Annualized ridership for each route in each time period is determined based on data collected in one service period (between one service change and the next). Annualized platform hours are similarly calculated. We then divide rides by platform hours.
- » Passenger miles per platform mile. Annualized passenger miles (the sum of miles every individual passenger travels) are divided by the number of miles buses traveled on each route in each time period.

Routes are separated into three service types: urban, suburban, and DART/Shuttle:

- » Urban routes primarily serve the densest parts of the county: the PSRC-designated Regional Growth Centers of Seattle Downtown, First Hill/Capitol Hill, South Lake Union, the University Community, and Uptown.
- » Suburban routes primarily serve passengers in suburban and rural areas in Seattle and King County.
- » DART/Shuttle routes are those that provide flexible, community-based service that has different characteristics than the fixed-route system.

For each group of routes, in each time period, for each measure, we calculate quartiles based on the results. Each route's performance in each time period in each measure is classified as being in either the top 25 percent, middle 50 percent, or bottom 25 percent of routes within the same service type. This data helps planners know which routes in each category and in each time period are the most and least productive, which informs investment and reduction decisions in accordance with the Service Guidelines.

Peak Analysis

Routes that operate only the peak period are called peak-only routes. A local alternative for each peak-only route is designated only if the local alternative serves at least 50 percent of the riders of the peak-only route. Each peak-only route is compared to its alternative, if one exists, on two measures: ridership and travel time. Peak-only routes either pass or fail each measure. If the peak-only route's ridership is at least 90 percent of the alternative route's ridership in the peak period, it passes the ridership test. If the peak-only route's scheduled travel time is at least 20 percent faster than the alternative route's travel time, it passes the travel time test. If no local alternative exists, the peak-only route automatically passes both measures. We use the results of this analysis when Metro is forced to reduce service, in accordance with the Service Guidelines.

Community Connections

This section describes the methodology for measuring the performance of Community Shuttle and TripPool services. Conceptually, the performance measures are similar, but due to differences in service design, the computation of those measures are different.

Community Shuttle

Community Shuttle performance measures are based on DART performance measures. The table below shows the performance measures used to evaluate Community Shuttle routes. The description for each measure includes its purpose and how its outcome may inform changes to service.

| Measure | Description |
|----------------------------|---|
| Average daily ridership | Purpose: This metric is designed to measure the level of use of alternative services over time. High ridership may trigger additional trips and/or conditional conversion to fixed-route service. Low ridership may trigger a re-evaluation of the service and potential right-sizing. |
| Cost per boarding | Direct fixed cost per boarding Purpose: This measure compares the direct cost of the service on a per-passenger basis. Direct cost is defined as the fixed cost of operating the service. In the case of this service, the direct cost is determined through a contract with Hopelink. This cost includes service operation, vehicle maintenance and administration conducted by the service provider. Due to the highly variable nature of fuel prices, we excluded this cost from this measure in order to be able to generate numerical targets for a particular route. Including fuel prices in this measure would require Metro to forecast the future price of fuel in order to set realistic performance targets. Example: a shuttle that costs \$1,200 per day to operate and provides an average of 100 boardings per day costs \$12 per boarding to provide the service. An uncharacteristically high cost per boarding may trigger a re-evaluation of the service and potential right-sizing. |
| Vehicle capacity used | Rides per seat provided Purpose: This metric is designed to measure the level of use of alternative services relative to the capacity of the service provided. Example: a shuttle with 16 seats making four one-way trips per weekday will provide 1,280 seats over the course of a month. This measure compares the rides provided in that month to the number of seats. High vehicle capacity use may trigger additional trips and/or conditional conversion to fixed-route service. Low vehicle capacity use may trigger a re-evaluation of the service and potential right-sizing. |
| Customer satisfaction | Measures customer satisfaction with a given service based on intercept surveys of current riders. » Purpose: This metric is designed to determine if a given service is meeting the community-identified transportation need effectively. » High customer satisfaction suggests that a Community Connections solution is meeting the needs of the community effectively. » Low customer satisfaction suggests that the service in its current form is not effectively meeting the needs of the community and may trigger a re-evaluation of the service to better fit customer needs. |

TripPool

The table below shows the performance measures used to evaluate TripPool services. The description for each measure includes its purpose and how its outcome may inform changes to service.

| Measure | Description |
|--------------------------------|--|
| Average daily ridership | Purpose: This metric is designed to measure the level of use of services over time. High ridership may trigger adding additional vehicles to the system. Low ridership may trigger a re-evaluation of the service and potential right-sizing. |
| Vehicle capacity used | Average participants/trip » Purpose: This metric is designed to measure the level of use of service for a trip. » High participation for a trip may trigger additional trips of this type, or provision of a larger vehicle. » Low use may trigger re-evaluation of a trip when resources are constrained or opportunity costs are high. |
| Operating cost per boarding | Operating cost/ boarding » Purpose: This measure compares the actual cost of the service on a per-passenger basis. » An uncharacteristically high cost per rider may trigger a re-evaluation of the service and potential right-sizing. » Low cost per rider may trigger an expansion of the service. |
| Customer satisfaction | Measures customer satisfaction with a given service based on intercept surveys of current riders. Purpose: This metric is designed to determine if a given service is meeting the community-identified transportation need effectively. High customer satisfaction suggests that a Community Connections solution is meeting the needs of the community effectively. Low customer satisfaction suggests that the service in its current form is not effectively meeting the needs of the community and may trigger a re-evaluation of the service to better fit customer needs. |

Census Tracts Low income Minority Low income and minority □ Neither low income nor minority 2011-2015 ACS data

Appendix B: King County Low-Income and Minority Census Tracts

Appendix C: Route Productivity Data

Suburban Routes

| | | Peak | | Off Peak | | Night | |
|--|--|----------------------------|---|----------------------------|---|----------------------------|---|
| Route Description | | Rides/ Platform Hour | Passenger Miles/ Platform Mile | Rides/ Platform Hour | Passenger Miles/ Platform Mile | Rides/ Platform Hour | Passenger Miles/ Platform Mile |
| Spring 2018 Thresholds: Suburban Routes | | Peak | <u>`</u> | Off Peak | ~ | Night | |
| Bottom 25% | | 14.0 | 4.7 | 12.1 | 4.7 | 9.6 | 3.5 |
| Тор 25% | | 23.9 | 8.2 | 25.1 | 8.3 | 16.8 | 5.6 |

| | | [| 1 | | | | |
|-----|---|----------|------|------|---------------|--------------------|-------------------|
| 22 | Arbor Heights - Westwood Village - Alaska Junction | 20.4 | 5.0 | 9.1 | 2.1 | 5.7 | 1.1 |
| 50* | Alki - Columbia City - Othello Station | 24.4 | 6.1 | 19.1 | 5.2 | 8.0 | 2.4 |
| 105 | Renton Highlands - Renton TC | 30.2 | 9.3 | 27.7 | 8.9 | 16.4 | 4.8 |
| 107 | Renton TC - Rainier Beach | 26.3 | 6.7 | 21.6 | 6.4 | 12.7 | 3.7 |
| 118 | Tahlequah - Vashon | 11.7 | 4.8 | 12.6 | 3.9 | 9.1 | 3.4 |
| 119 | Dockton - Vashon | 16.2 | 5.2 | 13.0 | 5.9 | | |
| 128 | Southcenter - Westwood Village - Admiral District | 26.4 | 8.9 | 24.7 | 7.9 | 12.3 | 4.5 |
| 148 | Fairwood - Renton TC | 13.7 | 5.7 | 13.9 | 6.0 | 11.3 | 5.1 |
| 153 | Kent Station - Renton TC | 17.6 | 6.1 | 12.0 | 4.7 | | |
| 154 | Tukwila Station - Boeing Industrial | 16.2 | 5.1 | 26.2 | 8.2 | | |
| 156 | Southcenter - SeaTac Airport - Highline CC | 15.7 | 4.3 | 16.2 | 6.0 | 10.0 | 3.8 |
| 164 | Green River CC - Kent Station | 36.6 | 11.1 | 36.0 | 13.3 | 22.8 | 6.9 |
| 166 | Kent Station - Burien TC | 22.3 | 7.8 | 25.2 | 9.1 | 15.8 | 5.9 |
| 168 | Maple Valley - Kent Station | 20.2 | 6.5 | 22.4 | 8.3 | 17.6 | 4.9 |
| 169 | Kent Station - East Hill - Renton TC | 23.5 | 8.7 | 25.1 | 10.1 | 25.1 | 9.1 |
| 180 | Auburn - SeaTac Airport - Burien TC | 30.3 | 10.3 | 30.8 | 11.6 | 17.2 | 6.9 |
| 181 | Twin Lakes P&R - Green River CC | 21.0 | 6.6 | 25.0 | 9.2 | 16.0 | 4.2 |
| 182 | NE Tacoma - Federal Way TC | 14.5 | 3.8 | 18.7 | 6.1 | | |
| 183 | Federal Way - Kent Station | 19.9 | 7.5 | 17.5 | 8.1 | 9.3 | 3.8 |
| 186 | Enumclaw - Auburn Station | 10.7 | 2.9 | | | | |
| 187 | Federal Way TC - Twin Lakes | 25.1 | 6.6 | 27.3 | 7.8 | 15.8 | 3.6 |
| 200 | Downtown Issaquah - North Issaquah | | | 7.3 | 1.8 | | |
| | | <u> </u> | | | King County M | letro 2018 Syste | l m Evaluation |

| | Description | Peak | | Off Peak | | Night | |
|--|-------------|----------------------------|---|----------------------------|---|----------------------------|---|
| Route | | Rides/ Platform Hour | Passenger Miles/ Platform Mile | Rides/ Platform Hour | Passenger Miles/ Platform Mile | Rides/ Platform Hour | Passenger Miles/ Platform Mile |
| Spring 2018 Thresholds: Suburban Routes | | Peak | | Off Peak | | Night | |
| Bottom 2 | 25% | 14.0 | 4.7 | 12.1 | 4.7 | 9.6 | 3.5 |
| Top 25% | | 23.9 | 8.2 | 25.1 | 8.3 | 16.8 | 5.6 |

| 201 | South Mercer Island - Mercer Island P&R via Mercer Wy | 2.1 | 0.3 | | | | |
|-----|---|------|------|------|------|------|-----|
| 204 | South Mercer Island - Mercer Island P&R via Island Crest | 8.7 | 1.8 | 11.5 | 3.0 | | |
| 208 | Issaquah - North Bend | 6.0 | 3.4 | 7.9 | 5.1 | 3.9 | 1.4 |
| 221 | Education Hill - Overlake - Eastgate | 19.5 | 6.2 | 17.4 | 5.4 | 9.6 | 2.5 |
| 224 | Duvall - Redmond TC | 7.7 | 3.1 | 9.0 | 4.0 | | |
| 226 | Eastgate - Crossroads - Bel- levue | 23.1 | 7.4 | 19.6 | 5.5 | 10.8 | 3.1 |
| 232 | Duvall - Bellevue | 15.6 | 6.3 | | | | |
| 234 | Kenmore - Kirkland TC - Bel- levue | 20.6 | 8.5 | 15.9 | 6.1 | 9.9 | 3.6 |
| 235 | Kingsgate - Kirkland TC - Bellevue | 22.0 | 7.7 | 15.7 | 6.1 | 9.6 | 3.6 |
| 236 | Woodinville - Totem Lake - Kirkland | 6.5 | 1.9 | 7.0 | 2.3 | | |
| 237 | Woodinville - Bellevue | 21.6 | 10.8 | | | | |
| 238 | Bothell - Totem Lake - Kirk- land | 8.7 | 2.6 | 10.4 | 3.4 | | |
| 240 | Bellevue - Newcastle - Rent- on | 21.6 | 9.2 | 18.5 | 8.3 | 11.3 | 5.1 |
| 241 | Eastgate - Factoria - Bellevue | 14.1 | 4.6 | 9.7 | 3.5 | 6.6 | 2.2 |
| 243 | Overlake - Kenmore | 2.3 | 0.8 | | | | |
| 244 | Kenmore - Overlake | 12.4 | 6.5 | | | | |
| 245 | Kirkland - Overlake - Factoria | 23.8 | 7.0 | 20.6 | 6.2 | 15.0 | 4.1 |
| 246 | Eastgate - Factoria - Bellevue | 13.2 | 3.2 | 9.0 | 2.6 | | |
| 248 | Avondale - Redmond TC - Kirkland | 19.3 | 5.6 | 16.6 | 4.7 | 10.9 | 2.8 |
| 249 | Overlake - South Kirkland - South Bellevue | 15.9 | 4.5 | 11.4 | 3.6 | | |
| 269 | Issaquah - Overlake | 12.6 | 5.6 | 7.3 | 3.4 | | |
| 330 | Shoreline CC - Lake City | 24.1 | 7.0 | 33.3 | 10.5 | | |
| 331 | Shoreline CC - Kenmore | 16.4 | 5.8 | 16.5 | 5.3 | | |

| | Description | Peak | | Off Peak | | Night | |
|--|-------------|----------------------------|---|----------------------------|---|----------------------------|---|
| Route | | Rides/ Platform Hour | Passenger Miles/ Platform Mile | Rides/ Platform Hour | Passenger Miles/ Platform Mile | Rides/ Platform Hour | Passenger Miles/ Platform Mile |
| Spring 2018 Thresholds: Suburban Routes | | Peak | | Off Peak | | Night | · |
| Bottom 2 | 25% | 14.0 | 4.7 | 12.1 | 4.7 | 9.6 | 3.5 |
| Top 25% | | 23.9 | 8.2 | 25.1 | 8.3 | 16.8 | 5.6 |

| 342 | Shoreline - Bellevue TC - Renton | 16.6 | 8.8 | | | | |
|--------|---|------|------|------|------|------|------|
| 345 | Shoreline CC - Northgate | 31.4 | 8.2 | 29.7 | 7.9 | 9.4 | 3.6 |
| 346 | Aurora Village - Northgate | 28.2 | 8.2 | 23.1 | 7.4 | 11.0 | 4.5 |
| 347 | Mountlake Terrace - Northgate | 23.4 | 7.4 | 20.9 | 6.3 | 16.7 | 5.5 |
| 348 | Richmond Beach - Northgate | 23.3 | 6.2 | 22.2 | 5.8 | 17.1 | 5.7 |
| A Line | Federal Way - Tukwila | 54.8 | 16.7 | 58.4 | 19.0 | 45.1 | 14.0 |
| B Line | Bellevue - Crossroads - Redmond | 42.5 | 12.7 | 34.1 | 10.8 | 28.5 | 7.8 |
| F Line | Burien - Tukwila Int'l Blvd - Renton | 32.2 | 9.5 | 33.5 | 11.5 | 22.4 | 7.2 |

DART/Shuttle Routes

| | Peak | | Off Peak | | Night | |
|-----------------|----------------------------|--|---|--|---|--|
| Description | Rides/ Platform Hour | Passenger Miles/ Platform Mile | Rides/ Platform Hour | Passenger Miles/ Platform Mile | Rides/ Platform Hour | Passenger Miles/ Platform Mile |
| sholds: Ites | Peak | | Off Peak | | Night | |
| | 8.1 | 2.1 | 7.4 | 2.3 | 13.0 | 4.7 |
| | 11.9 | 3.8 | 13.8 | 4.5 | 13.0 | 4.7 |
| | | | | | | |
| | sholds: | ription Rides/ Platform Hour sholds: tes Peak 8.1 | ription Rides/ Platform Hour Passenger Miles/ Platform Mile sholds: tes Peak 8.1 2.1 | ription $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | ription $\begin{tabular}{ c c c c c } Rides/\ Platform\ Hour \end{tabular}$ $\begin{tabular}{ c c c c } Passenger\ Miles/\ Platform\ Hour \end{tabular}$ $\begin{tabular}{ c c c c } Passenger\ Miles/\ Platform\ Hour \end{tabular}$ $\begin{tabular}{ c c c c } Passenger\ Miles/\ Platform\ Hour \end{tabular}$ $\begin{tabular}{ c c c c c } Passenger\ Miles/\ Platform\ Hour \end{tabular}$ $\begin{tabular}{ c c c c c } Passenger\ Miles/\ Platform\ Hour \end{tabular}$ $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$ | ription $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ |

| 901DART | Mirror Lake - Federal Way TC | 16.7 | 4.7 | 17.6 | 4.6 | 13.0 | 4.7 |
|---------|---------------------------------|------|-----|------|-----|------|-----|
| 903DART | Twin Lakes - Federal Way TC | 8.1 | 1.8 | 11.1 | 2.4 | | |
| 906DART | Fairwood - Southcenter | 13.3 | 4.3 | 13.8 | 5.5 | | |
| 907DART | Enumclaw - Renton TC | | | 6.3 | 2.9 | | |
| 908DART | Renton Highlands - Renton TC | 8.0 | 2.1 | 6.5 | 1.9 | | |

| | | Peak | | Off Peak | | Night | |
|--|-------------|----------------------------|---|----------------------------|---|----------------------------|---|
| Route | Description | Rides/ Platform Hour | Passenger Miles/ Platform Mile | Rides/ Platform Hour | Passenger Miles/ Platform Mile | Rides/ Platform Hour | Passenger Miles/ Platform Mile |
| Spring 2018 Thresholds: DART/Shuttle Routes | | Peak | | Off Peak | | Night | |
| Bottom 25% | 6 | 8.1 | 2.1 | 7.4 | 2.3 | 13.0 | 4.7 |
| Тор 25% | | 11.9 | 3.8 | 13.8 | 4.5 | 13.0 | 4.7 |

| 910DART | North Auburn - SuperMall | | | 11.2 | 2.5 | |
|---------|---------------------------|------|-----|------|-----|--|
| 913DART | Kent Station - Riverview | 9.5 | 2.5 | | | |
| 914DART | Kent - Kent East Hill | | | 13.9 | 4.0 | |
| 915DART | Enumclaw - Auburn Station | | | 19.1 | 6.7 | |
| 916DART | Kent - Kent East Hill | | | 11.0 | 4.5 | |
| 917DART | Pacific - Auburn | 11.5 | 2.9 | 7.8 | 2.2 | |
| 930DART | Kingsgate - Redmond | 9.4 | 3.6 | 10.7 | 3.9 | |
| 931DART | Bothell - Redmond | 5.0 | 2.1 | 3.5 | 1.6 | |

Urban Routes

| | | Peak | | Off Peak | | Night | |
|-----------|------------------------------|----------------------------|---|----------------------------|---|----------------------------|---|
| Route | Description | Rides/ Platform Hour | Passenger Miles/ Platform Mile | Rides/ Platform Hour | Passenger Miles/ Platform Mile | Rides/ Platform Hour | Passenger Miles/ Platform Mile |
| Spring 20 |)18 Thresholds: Urban Routes | Peak | | Off Peak | | Night | |
| Bottom 2 | 25% | 24.7 | 9.8 | 22.4 | 7.5 | 15.7 | 4.4 |
| Top 25% | | 41.6 | 17.5 | 37.2 | 12.1 | 25.9 | 7.9 |

| 1* | Kinnear - Seattle CBD | 47.2 | 12.3 | 36.2 | 8.3 | 19.0 | 4.9 |
|-----|--|------|------|------|------|------|------|
| 2* | West Queen Anne - Seattle CBD - Madrona Park | 51.1 | 12.5 | 43.5 | 9.6 | 22.6 | 5.2 |
| 3* | Seattle Pacific University - North Queen Anne - Seattle CBD - Madrona Park | 51.1 | 12.1 | 40.1 | 8.8 | 19.6 | 3.7 |
| 4* | Seattle Pacific University - East Queen Anne - Seattle CBD - Judkins Park | 36.6 | 8.0 | 27.3 | 6.2 | 15.2 | 3.7 |
| 5* | Shoreline CC - Seattle CBD | 56.2 | 19.9 | 41.7 | 14.3 | 22.8 | 7.9 |
| 5X* | Shoreline CC - Seattle CBD | 43.2 | 16.6 | | | | |
| 7* | Rainier Beach - Seattle CBD | 43.7 | 14.1 | 47.4 | 14.5 | 34.3 | 10.7 |
| 8* | Seattle Center - Capitol Hill - Mt Baker | 53.2 | 11.6 | 41.3 | 9.3 | 27.6 | 6.1 |
| 9 | Rainier Beach - Capitol Hill | 27.9 | 8.0 | 23.1 | 7.4 | | |

| | | Peak | | Off Peak | | Night | |
|-----------|------------------------------|----------------------------|---|----------------------------|---|----------------------------|---|
| Route | Description | Rides/ Platform Hour | Passenger Miles/ Platform Mile | Rides/ Platform Hour | Passenger Miles/ Platform Mile | Rides/ Platform Hour | Passenger Miles/ Platform Mile |
| Spring 20 |)18 Thresholds: Urban Routes | Peak | | Off Peak | | Night | |
| Bottom 2 | 5% | 24.7 | 9.8 | 22.4 | 7.5 | 15.7 | 4.4 |
| Top 25% | | 41.6 | 17.5 | 37.2 | 12.1 | 25.9 | 7.9 |

| | - 1 | | | | T | 1 | 1 |
|------|---|------|------|------|------|------|-----|
| 10* | Capitol Hill - Seattle CBD | 36.2 | 6.9 | 36.8 | 7.5 | 22.0 | 4.5 |
| 11* | Madison Park - Seattle CBD | 56.2 | 14.4 | 44.6 | 10.0 | 25.7 | 4.4 |
| 12* | Interlaken Park - Seattle CBD | 49.3 | 9.5 | 32.4 | 6.3 | 14.7 | 3.5 |
| 13* | Seattle Pacific University - Queen Anne - Seattle CBD | 41.6 | 11.6 | 38.3 | 9.2 | 27.5 | 6.3 |
| 14* | Mount Baker - Seattle CBD | 41.1 | 9.5 | 35.7 | 7.5 | 18.5 | 4.4 |
| 15X | Blue Ridge - Ballard - Seattle CBD | 45.0 | 18.0 | | | | |
| 17X | Sunset Hill - Ballard - Seattle CBD | 43.5 | 17.0 | | | | |
| 18X | North Beach - Ballard - Seattle CBD | 42.0 | 17.1 | | | | |
| 19* | West Magnolia - Seattle CBD | 27.2 | 9.6 | | | | |
| 21* | Arbor Heights - Westwood Village - Seattle CBD | 39.8 | 14.5 | 25.1 | 10.2 | 14.5 | 5.9 |
| 21X* | Arbor Heights - Westwood Village - Seattle CBD | 31.9 | 15.8 | | | | |
| 24* | Magnolia - Seattle CBD | 42.5 | 13.2 | 25.3 | 8.8 | 14.0 | 4.5 |
| 26X | Northgate - East Green Lake - Wallingford - Seattle CBD | 42.3 | 13.9 | 24.1 | 9.9 | 12.2 | 4.5 |
| 27* | Colman Park - Leschi Park - Seattle CBD | 30.1 | 7.2 | 18.4 | 4.8 | 12.9 | 3.0 |
| 28X* | Broadview - Crown Hill - Ballard - Seattle CBD via Leary Way NW | 38.9 | 13.3 | 23.9 | 9.0 | 11.5 | 4.2 |
| 29 | Ballard - Queen Anne - Seattle CBD | 29.1 | 7.0 | 12.6 | 3.8 | | |
| 31* | University District - Fremont - Magnolia | 28.8 | 7.7 | 23.4 | 6.4 | 12.8 | 3.9 |
| 32* | University District - Fremont - Seattle Center | 36.1 | 10.8 | 29.4 | 9.5 | 21.0 | 5.6 |
| 33* | Discovery Park - Seattle CBD | 48.8 | 14.0 | 29.1 | 8.5 | 13.0 | 4.2 |
| 36 | Othello Station - Beacon Hill - Seattle CBD | 43.6 | 12.3 | 41.6 | 11.8 | 24.6 | 6.6 |
| 37 | Alaska Junction - Alki - Seattle CBD | 19.1 | 9.4 | | | | |

| Route | Description | Peak | | Off Peak | | Night | |
|--------------------------------------|-------------|----------------------------|---|----------------------------|---|----------------------------|---|
| | | Rides/ Platform Hour | Passenger Miles/ Platform Mile | Rides/ Platform Hour | Passenger Miles/ Platform Mile | Rides/ Platform Hour | Passenger Miles/ Platform Mile |
| Spring 2018 Thresholds: Urban Routes | | Peak | | Off Peak | | Night | |
| Bottom 25% | | 24.7 | 9.8 | 22.4 | 7.5 | 15.7 | 4.4 |
| Тор 25% | | 41.6 | 17.5 | 37.2 | 12.1 | 25.9 | 7.9 |

| 40* | Northgate TC - Ballard - Se- attle CBD via Leary Av NW | 47.0 | 14.4 | 39.2 | 12.9 | 23.4 | 7.8 |
|-----|---|------|------|------|------|------|------|
| 41* | Lake City - Seattle CBD via Northgate | 53.9 | 27.7 | 40.8 | 21.3 | 27.7 | 15.6 |
| 43 | University District - Capitol Hill - Seattle CBD | 23.7 | 5.6 | 18.1 | 3.9 | 11.7 | 3.4 |
| 44* | Ballard - Wallingford - Mont- lake | 59.1 | 16.5 | 44.5 | 12.5 | 32.5 | 8.4 |
| 45* | Loyal Heights - University District | 36.9 | 8.7 | 36.8 | 9.8 | 26.1 | 5.4 |
| 47* | Summit - Seattle CBD | 24.5 | 5.0 | 17.6 | 3.4 | | |
| 48* | Mt Baker - University District | 35.8 | 10.3 | 25.1 | 6.6 | 14.3 | 3.6 |
| 49* | University District - Capitol Hill - Seattle CBD | 42.5 | 15.4 | 37.4 | 13.6 | 31.4 | 11.6 |
| 55* | Admiral District - Alaska Junction - Seattle CBD | 30.3 | 13.9 | | | | |
| 56 | Alki - Seattle CBD | 37.5 | 15.3 | | | | |
| 57 | Alaska Junction - Seattle CBD | 41.7 | 17.6 | | | | |
| 60* | Westwood Village - George- town - Capitol Hill | 31.0 | 9.3 | 29.9 | 9.1 | 17.7 | 5.3 |
| 62* | Sand Point – Green Lake – Seattle CBD | 40.7 | 11.9 | 27.7 | 9.1 | 16.4 | 5.1 |
| 63 | Northgate - Cherry Hill | 24.8 | 8.7 | 17.2 | 6.6 | | |
| 64X | Jackson Park - Cherry Hill | 26.2 | 8.7 | | | | |
| 65* | Jackson Park – Lake City – University District | 48.2 | 11.5 | 33.4 | 8.4 | 25.2 | 6.6 |
| 67* | Northgate TC - University District | 41.5 | 11.9 | 37.8 | 10.6 | 30.2 | 7.1 |
| 70* | University District - Seattle CBD | 52.6 | 18.0 | 43.1 | 16.2 | 20.3 | 7.7 |
| 71 | Wedgwood - University District | 28.0 | 6.1 | 24.3 | 5.6 | 17.3 | 3.2 |
| 73* | Jackson Park - Cowen Park - University District | 20.2 | 4.1 | 28.3 | 8.6 | 26.7 | 7.2 |

Route Productivity Data continued

| | | Peak | | Off Peak | | Night | |
|------------|--------------------------------------|------|---|----------------------------|---|----------------------------|---|
| Route | Route Description | | Passenger Miles/ Platform Mile | Rides/ Platform Hour | Passenger Miles/ Platform Mile | Rides/ Platform Hour | Passenger Miles/ Platform Mile |
| Spring 20 | Spring 2018 Thresholds: Urban Routes | | | Off Peak | | Night | |
| Bottom 25% | | 24.7 | 9.8 | 22.4 | 7.5 | 15.7 | 4.4 |
| Тор 25% | | 41.6 | 17.5 | 37.2 | 12.1 | 25.9 | 7.9 |

| 74 | Sand Point - Seattle CBD | 37.2 | 13.5 | 12.0 | 3.8 | | |
|------|---|------|------|------|------|------|------|
| 75 | Northgate TC - Lake City - Seattle CBD | 38.0 | 9.6 | 30.2 | 7.3 | 21.3 | 5.1 |
| 76* | Wedgwood - Seattle CBD | 38.7 | 15.2 | 18.9 | 8.8 | | |
| 77 | North City - Seattle CBD | 34.8 | 18.5 | | | | |
| 78 | Children's Hospital - UW Station | 17.9 | 3.6 | 15.4 | 3.2 | | |
| 101 | Renton TC - Seattle CBD | 35.0 | 19.6 | 28.0 | 18.0 | 28.9 | 18.1 |
| 102 | Fairwood - Renton TC - Seattle CBD | 39.9 | 24.0 | | | | |
| 106 | Renton TC - Rainier Beach - Seattle CBD | 36.4 | 9.6 | 31.4 | 9.5 | 20.8 | 7.1 |
| 111 | Lake Kathleen - Seattle CBD | 21.6 | 15.3 | | | | |
| 113 | Shorewood - Seattle CBD | 20.2 | 10.4 | | | | |
| 114 | Renton Highlands - Seattle CBD | 15.4 | 10.6 | | | | |
| 116 | Fauntleroy Ferry - Seattle CBD | 20.7 | 7.6 | | | | |
| 118X | Tahlequah - Vashon | 17.7 | 9.2 | 14.0 | 6.8 | | |
| 119X | Dockton - Vashon | 18.7 | 10.2 | | | | |
| 120* | Burien TC - Westwood Village - Seattle CBD | 39.6 | 17.5 | 39.3 | 17.9 | 29.7 | 13.4 |
| 121 | Highline CC -Burien TC - Seattle CBD via 1st Av S | 18.7 | 8.7 | 16.5 | 6.7 | | |
| 122 | Highline CC -Burien TC - Seattle CBD via Des Moines Memorial Dr S | 17.5 | 9.2 | 22.3 | 12.2 | | |
| 123 | Burien - Seattle CBD | 27.3 | 18.1 | | | | |
| 124* | Tukwila - Georgetown - Seattle CBD | 33.5 | 12.0 | 30.2 | 10.1 | 19.8 | 7.9 |
| 125* | Westwood Village - Seattle CBD | 31.7 | 13.6 | 19.4 | 8.9 | 14.8 | 6.6 |
| 131 | Burien TC - Highland Park - Seattle CBD | 38.3 | 16.4 | 34.3 | 13.2 | 22.8 | 9.4 |

Route Productivity Data continued

| | | Peak | | Off Peak | | Night | |
|------------|--------------------------------------|------|---|----------------------------|---|----------------------------|---|
| Route | ute Description | | Passenger Miles/ Platform Mile | Rides/ Platform Hour | Passenger Miles/ Platform Mile | Rides/ Platform Hour | Passenger Miles/ Platform Mile |
| Spring 20 | Spring 2018 Thresholds: Urban Routes | | | Off Peak | | Night | |
| Bottom 25% | | 24.7 | 9.8 | 22.4 | 7.5 | 15.7 | 4.4 |
| Тор 25% | | 41.6 | 17.5 | 37.2 | 12.1 | 25.9 | 7.9 |

| 132 | Burien TC - South Park - Seattle CBD | 31.5 | 13.3 | 27.6 | 10.2 | 18.2 | 7.3 |
|-----|---|------|------|------|------|------|------|
| 143 | Black Diamond - Renton TC - Seattle CBD | 16.0 | 11.3 | | | | |
| 150 | Kent Station - Southcenter - Seattle CBD | 36.1 | 20.3 | 28.5 | 17.5 | 25.3 | 17.5 |
| 157 | Lake Meridian - Seattle CBD | 12.6 | 9.7 | | | | |
| 158 | Kent East Hill - Seattle CBD | 18.1 | 13.3 | | | | |
| 159 | Timberlane - Seattle CBD | 14.0 | 10.1 | | | | |
| 167 | Renton - Newport Hills - University District | 21.3 | 17.5 | 12.2 | 9.6 | | |
| 177 | Federal Way - Seattle CBD | 14.6 | 10.9 | | | | |
| 178 | South Federal Way - Seattle CBD | 13.8 | 10.9 | | | | |
| 179 | Twin Lakes - Seattle CBD | 18.4 | 15.5 | | | | |
| 190 | Redondo Heights - Seattle CBD | 14.2 | 10.2 | | | | |
| 192 | Star Lake - Seattle CBD | 9.5 | 7.4 | | | | |
| 193 | Federal Way - First Hill | 14.1 | 10.8 | | | | |
| 197 | Twin Lakes - University District | 12.5 | 10.4 | 12.9 | 8.7 | | |
| 212 | Eastgate - Seattle CBD | 37.7 | 20.1 | 22.9 | 11.2 | | |
| 214 | Issaquah - Seattle CBD | 26.1 | 17.6 | | | | |
| 216 | Sammamish - Seattle CBD | 29.8 | 20.7 | | | | |
| 217 | Issaquah - Eastgate - Seattle CBD | 21.1 | 14.8 | | | | |
| 218 | Issaquah Highlands - Seattle CBD | 34.8 | 22.6 | 21.8 | 13.1 | | |
| 219 | Redmond - Sammamish - Seattle CBD | 25.0 | 20.4 | | | | |
| 252 | Kingsgate - Seattle CBD | 26.4 | 17.7 | | | | |
| 255 | Brickyard - Kirkland TC - Seattle CBD | 34.8 | 18.4 | 23.9 | 13.6 | 20.6 | 10.8 |

| | | Peak | | Off Peak | | Night | |
|------------|--------------------------------------|------|---|----------------------------|---|----------------------------|---|
| Route | Route Description | | Passenger Miles/ Platform Mile | Rides/ Platform Hour | Passenger Miles/ Platform Mile | Rides/ Platform Hour | Passenger Miles/ Platform Mile |
| Spring 20 | Spring 2018 Thresholds: Urban Routes | | | Off Peak | | Night | |
| Bottom 25% | | 24.7 | 9.8 | 22.4 | 7.5 | 15.7 | 4.4 |
| Тор 25% | | 41.6 | 17.5 | 37.2 | 12.1 | 25.9 | 7.9 |

| 257 | Brickyard - Seattle CBD | 26.2 | 17.4 | | | | |
|---------|--|-------|------|------|------|------|------|
| 268 | Redmond - Seattle CBD | 28.7 | 18.4 | | | | |
| 271 | Issaquah - Bellevue - University District | 24.6 | 11.0 | 21.7 | 10.3 | 16.1 | 7.8 |
| 277 | Juanita - University District | 11.9 | 5.0 | 10.1 | 4.3 | | |
| 301 | Aurora Village - Seattle CBD | 34.2 | 24.7 | 29.7 | 21.1 | | |
| 303 | Shoreline - First Hill | 28.4 | 14.8 | | | | |
| 304 | Richmond Beach - Seattle CBD | 25.6 | 17.5 | | | | |
| 308 | Horizon View - Seattle CBD | 21.3 | 13.8 | | | | |
| 309 | Kenmore - First Hill | 25.9 | 17.9 | | | | |
| 311 | Woodinville - Seattle CBD | 28.2 | 19.9 | | | | |
| 312 | Bothell - Seattle CBD | 31.9 | 18.4 | 21.1 | 10.7 | | |
| 316* | Meridian Park - Seattle CBD | 38.5 | 16.2 | | | | |
| 355 | Shoreline CC - University District - Seattle CBD | 27.0 | 10.4 | 23.8 | 8.1 | | |
| 372* | Woodinville - Lake City - University District | 34.9 | 10.4 | 36.6 | 10.4 | 24.3 | 6.1 |
| 373 | Aurora Village - University Village | 39.6 | 13.2 | 27.8 | 8.3 | | |
| C Line* | Westwood Village - Alaska Junction - Seattle CBD | 47.9 | 19.3 | 35.6 | 16.2 | 22.4 | 10.4 |
| D Line* | Crown Hill - Ballard - Seattle Center - Seattle CBD | 63.7 | 19.0 | 53.3 | 17.6 | 34.9 | 10.7 |
| E Line* | Aurora Village - Seattle CBD | 58.1 | 21.8 | 56.9 | 23.7 | 44.3 | 17.2 |
| | South Lake Union Streetcar | 56.7 | 7.2 | 40.4 | 5.5 | 15.3 | 2.2 |
| | West Seattle Water Taxi ** | 96.0 | 30.0 | | | | |
| | Vashon Island Water Taxi ** | 158.0 | 79.0 | | | | |

* Designates routes receiving Seattle investments

** Water Taxi is operated by the King County Marine Division

Appendix D: Changes to Route Productivity Thresholds

Top 25%

| | | Peak | | Off Peak | | Night | | |
|--------------|--------|----------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|--------------------------------------|--|
| Service Type | Year | Rides/ Platform Hour | Passenger Miles/ Platform Mile | Rides/ Platform Hour | Passenger Miles/ Platform Mile | Rides/ Platform Hour | Passenger Miles/ Platform Mile | |
| | 2018 | 23.9 | 8.2 | 25.1 | 8.3 | 16.8 | 5.6 | |
| Suburban | 2017 | 25.7 | 8.8 | 26.0 | 9.1 | 16.2 | 5.7 | |
| | Change | -1.7 | -0.6 | -0.9 | -0.8 | 0.6 | -0.1 | |
| | 2018 | 41.6 | 17.5 | 37.2 | 12.1 | 25.9 | 7.9 | |
| Urban | 2017 | 43.2 | 17.2 | 40.5 | 12.8 | 25.4 | 7.8 | |
| | Change | -1.6 | 0.3 | -3.3 | -0.7 | 0.5 | 0.0 | |
| | 2018 | 11.9 | 3.8 | 13.8 | 4.5 | 13.0 | 4.7 | |
| DART/Shuttle | 2017 | 14.0 | 2.7 | 16.5 | 3.2 | 16.8 | 2.9 | |
| | Change | -2.1 | 1.1 | -2.6 | 1.3 | -3.8 | 1.8 | |

Bottom 25%

| | | Peak | | Off Peak | | Night | | |
|--------------|--------|----------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|--------------------------------------|--|
| Service Type | Year | Rides/ Platform Hour | Passenger Miles/ Platform Mile | Rides/ Platform Hour | Passenger Miles/ Platform Mile | Rides/ Platform Hour | Passenger Miles/ Platform Mile | |
| | 2018 | 14.0 | 4.7 | 12.1 | 4.7 | 9.6 | 3.5 | |
| Suburban | 2017 | 14.5 | 4.6 | 12.6 | 4.3 | 10.0 | 2.8 | |
| | Change | -0.5 | 0.1 | -0.5 | 0.4 | -0.4 | 0.7 | |
| | 2018 | 24.7 | 9.8 | 22.4 | 7.5 | 15.7 | 4.4 | |
| Urban | 2017 | 23.6 | 10.7 | 25.6 | 7.6 | 15.4 | 4.4 | |
| | Change | 1.1 | -0.8 | -3.2 | -0.1 | 0.3 | 0.1 | |
| | 2018 | 8.1 | 2.1 | 7.4 | 2.3 | 13.0 | 4.7 | |
| DART/Shuttle | 2017 | 9.1 | 1.3 | 10.0 | 2.0 | 16.8 | 2.9 | |
| | Change | -1.0 | 0.8 | -2.5 | 0.3 | -3.8 | 1.8 | |

Rounding errors may appear in this table.

Appendix E: Peak Route Analysis

| Route | Description | Alternative Route(s)* | Ridership ≥ 90% of alternative | Travel Time ≥ 20% faster than alternative |
|-------|--|--------------------------|--------------------------------------|---|
| 5X | Shoreline CC - Seattle CBD | 5 | No | No |
| 9 | Rainier Beach - Capitol Hill | 7 | No | No |
| 15X | Blue Ridge - Ballard - Seattle CBD | D Line | No | Yes |
| 17X | Sunset Hill - Ballard - Seattle CBD | 29 | Yes | Yes |
| 18X | North Beach - Ballard - Seattle CBD | 40 | No | No |
| 21X | Arbor Heights - Westwood Village - Seattle CBD | 21 | Yes | Yes |
| 29 | Ballard - Queen Anne - Seattle CBD | 2 | Yes | Yes |
| 37 | Alaska Junction - Alki - Seattle CBD | 773 | Yes | Yes |
| 55 | Admiral District - Alaska Junction - Seattle CBD | 50 | Yes | No |
| 56 | Alki - Seattle CBD | 50 | Yes | Yes |
| 57 | Alaska Junction - Seattle CBD | 56 | Yes | No |
| 64X | Lake City - First Hill | 76 | No | Yes |
| 76 | Wedgwood - Seattle CBD | 71 | Yes | No |
| 77 | North City - Seattle CBD | 373 | Yes | Yes |
| 102 | Fairwood - Renton TC - Seattle CBD | 148 | Yes | No |
| 111 | Lake Kathleen - Seattle CBD | None | Yes | Yes |
| 113 | Shorewood - Seattle CBD | None | Yes | Yes |
| 114 | Renton Highlands - Seattle CBD | 240 | Yes | Yes |
| 116 | Fauntleroy Ferry - Seattle CBD | C Line | No | No |
| 118X | Tahlequah - Seattle CBD via ferry | 118 | Yes | No |
| 119X | Dockton - Seattle CBD via ferry | 119 | Yes | No |
| 121 | Highline CC -Burien TC - Seattle CBD via 1st Av S | 166 | Yes | Yes |
| 122 | Highline CC -Burien TC - Seattle CBD via Des Moines Memorial Dr S | 156 | Yes | Yes |
| 123 | Burien - Seattle CBD | 121 | Yes | No |
| 154 | Tukwila Station - Boeing Industrial | 124 | No | No |
| 157 | Lake Meridian - Seattle CBD | None | Yes | Yes |
| 158 | Kent East Hill - Seattle CBD | 164 | Yes | No |
| 159 | Timberlane - Seattle CBD | 164 | Yes | No |
| 167 | Renton - Newport Hills - University District | 560X | Yes | Yes |
| 177 | Federal Way - Seattle CBD | 577X | No | No |
| 178 | South Federal Way - Seattle CBD | 177 | Yes | No |
| 179 | Twin Lakes - Seattle CBD | 181 | Yes | No |
| 190 | Redondo Heights - Seattle CBD | 574X | Yes | Yes |
| 192 | Star Lake - Seattle CBD | 574X | No | Yes |
| 193 | Federal Way - First Hill | None | Yes | Yes |
| 197 | Twin Lakes - University District | 181 | Yes | Yes |

Peak Route Analysis continued

| Route | Description | Alternative Route(s)* | Ridership ≥ 90% of alternative | Travel Time ≥ 20% faster than alternative |
|-------------------------------|--|--------------------------|--------------------------------------|---|
| 201 | South Mercer Island - Mercer Island P&R via Mercer Wy | None | Yes | Yes |
| 212 | Eastgate - Seattle CBD | 554X | Yes | No |
| 214 | Issaquah - Seattle CBD | 554X | No | No |
| 216 | Sammamish - Seattle CBD | 269 | Yes | No |
| 217 | Issaquah - Eastgate - Seattle CBD | 554X | No | Yes |
| 218 | Issaquah Highlands - Seattle CBD | 554X | Yes | Yes |
| 219 | Redmond - Sammamish - Seattle CBD | None | Yes | Yes |
| 232 | Duvall - Bellevue | 248 | Yes | Yes |
| 237 | Woodinville - Bellevue | 311 | No | Yes |
| 243 | Overlake - Kenmore | 930 | Yes | Yes |
| 244 | Kenmore - Overlake | 234 | Yes | Yes |
| 252 | Kingsgate - Seattle CBD | 255 | No | Yes |
| 257 | Brickyard - Seattle CBD | 238 | Yes | Yes |
| 268 | Redmond - Seattle CBD | 545 | No | Yes |
| 277 | Juanita - University District | 235 | No | Yes |
| 301 | Aurora Village - Seattle CBD | E Line | No | Yes |
| 303 | Shoreline - First Hill | None | Yes | Yes |
| 304 | Richmond Beach - Seattle CBD | 348 | Yes | Yes |
| 308 | Horizon View - Seattle CBD | 331 | Yes | No |
| 309 | Kenmore - First Hill | 312 | No | Yes |
| 311 | Woodinville - Seattle CBD | 232 | Yes | Yes |
| 312 | Bothell - Seattle CBD | 522X | Yes | No |
| 316 | Meridian Park - Seattle CBD | 26X | Yes | Yes |
| 342 | Shoreline - Bellevue TC - Renton | None | Yes | Yes |
| 355 | Shoreline CC - University District - Seattle CBD | 5 | No | No |
| 913DART | Kent Station - Riverview | None | Yes | Yes |
| Vashon Water Taxi ** | Vashon - Seattle CBD | 118 | Yes | Yes |
| West Seattle Water Taxi ** | West Seattle - Seattle CBD | 37 | Yes | Yes |

Peak-only routes 27, 143, 153, 183, 373X, 930, and 931 are included in the corridor analysis because they each serve as the only route on one of Metro's corridors during at least one time period. These routes are not analyzed as part of the peak analysis because their target service levels are set by the corridor analysis.

* Alternative routes must serve at least 50% of riders on the peak-only route.

** Water Taxi is operated by the King County Marine Division.

Appendix F: Route-level Reliability

over the lateness threshold

| Route | All-Day % Late | PM % Late | Saturday % Late | Sunday % Late |
|-------|-------------------|--------------|--------------------|------------------|
| 1 | 12% | 15% | 21% | 13% |
| 2 | 10% | 11% | 9% | 18% |
| 3 | 12% | 16% | 16% | 14% |
| 4 | 9% | 12% | 17% | 16% |
| 5X | 23% | 16% | | |
| 5 | 24% | 36% | 27% | 18% |
| 7 | 19% | 27% | 19% | 12% |
| 8 | 21% | 33% | 24% | 22% |
| 9 | 10% | 14% | | |
| 10 | 16% | 18% | 7% | 13% |
| 11 | 17% | 20% | 22% | 28% |
| 12 | 11% | 17% | 7% | 8% |
| 13 | 15% | 16% | 13% | 15% |
| 14 | 14% | 19% | 10% | 9% |
| 15X | 16% | 29% | | |
| 17X | 22% | 24% | | |
| 18X | 25% | 37% | | |
| 19 | 19% | 25% | | |
| 21X | 14% | 17% | | |
| 21 | 21% | 33% | 31% | 13% |
| 22 | 7% | 8% | 6% | 19% |
| 24 | 22% | 30% | 23% | 17% |
| 26X | 21% | 26% | 28% | 14% |
| 27 | 17% | 21% | 28% | 20% |
| 28X | 19% | 22% | 26% | 22% |
| 29 | 19% | 27% | | |
| 31 | 13% | 21% | 20% | |
| 32 | 14% | 21% | 16% | 14% |
| 33 | 18% | 24% | 26% | 20% |
| 36 | 17% | 27% | 11% | 13% |
| 37 | 13% | | | |
| 37 | 43% | 49% | | |
| 40 | 18% | 28% | 28% | 31% |
| 41 | 11% | 17% | 7% | 8% |
| 43 | 17% | 30% | 12% | 5% |
| 44 | 11% | 13% | 15% | 8% |
| 45 | 10% | 12% | 9% | 8% |
| 47 | 7% | 12% | 11% | 4% |

| Route | All-Day % Late | PM % Late | Saturday % Late | Sunday % Late |
|-------|-------------------|--------------|--------------------|------------------|
| 48 | 12% | 24% | 16% | 11% |
| 49 | 11% | 12% | 11% | 10% |
| 50 | 19% | 30% | 17% | 9% |
| 55 | 18% | 28% | | |
| 56 | 21% | 40% | | |
| 57 | 19% | 14% | | |
| 60 | 14% | 17% | 16% | 10% |
| 62 | 23% | 38% | 21% | 25% |
| 63 | 30% | 42% | | |
| 64X | 26% | 41% | | |
| 65 | 9% | 18% | 9% | 6% |
| 67 | 13% | 22% | 14% | 12% |
| 70 | 19% | 35% | 23% | 13% |
| 71 | 6% | 8% | 5% | |
| 73 | 8% | 8% | 3% | 5% |
| 74 | 4% | 8% | | |
| 75 | 12% | 17% | 15% | 9% |
| 76 | 16% | 19% | | |
| 77 | 10% | 8% | | |
| 78 | 2% | 6% | | |
| 101 | 11% | 14% | 11% | 15% |
| 102 | 12% | 20% | | |
| 105 | 21% | 36% | 11% | 16% |
| 106 | 24% | 28% | 16% | 18% |
| 107 | 24% | 30% | 20% | 15% |
| 111 | 25% | 35% | | |
| 113 | 20% | 30% | | |
| 114 | 25% | 37% | | |
| 116 | 21% | 20% | | |
| 118X | 14% | 14% | | |
| 118 | 11% | 7% | 3% | 4% |
| 119X | 15% | 20% | | |
| 119 | 10% | 17% | | |
| 120 | 12% | 16% | 13% | 17% |
| 121 | 18% | 26% | | |
| 122 | 23% | 36% | | |
| 123 | 31% | 43% | | |
| 124 | 18% | 26% | 20% | 10% |

Route-level Reliability continued

over the lateness threshold

| Route | All-Day % Late | PM % Late | Saturday % Late | Sunday % Late |
|-------|-------------------|--------------|--------------------|------------------|
| 125 | 9% | 11% | 13% | 5% |
| 128 | 10% | 11% | 16% | 16% |
| 131 | 20% | 30% | 26% | 17% |
| 132 | 19% | 22% | 25% | 15% |
| 143 | 32% | 38% | | |
| 148 | 18% | 33% | 22% | 17% |
| 150 | 13% | 20% | 18% | 23% |
| 153 | 13% | 30% | | |
| 154 | 7% | 8% | | |
| 156 | 7% | 11% | 11% | 13% |
| 157 | 32% | 44% | | |
| 158 | 29% | 46% | | |
| 159 | 25% | 45% | | |
| 164 | 5% | 8% | 13% | |
| 166 | 10% | 18% | 22% | 20% |
| 167 | 17% | 25% | | |
| 168 | 15% | 30% | 11% | 23% |
| 169 | 9% | 8% | 21% | 15% |
| 177 | 26% | 28% | | |
| 178 | 30% | 39% | | |
| 179 | 34% | 47% | | |
| 180 | 14% | 27% | 14% | 14% |
| 181 | 13% | 21% | 17% | 14% |
| 182 | 13% | 21% | 21% | 12% |
| 183 | 7% | 11% | 19% | |
| 186 | 17% | 26% | | |
| 187 | 13% | 24% | 18% | 13% |
| 190 | 33% | 41% | | |
| 192 | 22% | 35% | | |
| 193 | 19% | 21% | | |
| 197 | 19% | 26% | | |
| 200 | 6% | | | |
| 201 | 2% | 4% | | |
| 204 | 3% | 4% | | |
| 208 | 20% | 29% | 13% | |
| 212 | 25% | 35% | | |
| 214 | 21% | 26% | | |
| 216 | 37% | 55% | | |

| Route | All-Day % Late | PM % Late | Saturday % Late | Sunday % Late |
|-------|-------------------|--------------|--------------------|------------------|
| 217 | 13% | 24% | | |
| 218 | 22% | 35% | | |
| 219 | 37% | 54% | | |
| 221 | 14% | 25% | 9% | 13% |
| 224 | 10% | 28% | | |
| 226 | 13% | 16% | 12% | 18% |
| 232 | 15% | 13% | | |
| 234 | 13% | 18% | 18% | 14% |
| 235 | 20% | 24% | 7% | 8% |
| 236 | 15% | 22% | 22% | 14% |
| 237 | 3% | 4% | | |
| 238 | 20% | 27% | 12% | 21% |
| 240 | 22% | 22% | 14% | 5% |
| 241 | 12% | 16% | 12% | 16% |
| 243 | 11% | 20% | | |
| 244 | 33% | 33% | | |
| 245 | 14% | 17% | 18% | 11% |
| 246 | 16% | 32% | | |
| 248 | 10% | 21% | 7% | 6% |
| 249 | 10% | 18% | 29% | 14% |
| 252 | 19% | 25% | | |
| 255 | 13% | 20% | 14% | 9% |
| 257 | 14% | 21% | | |
| 268 | 25% | 21% | | |
| 269 | 19% | 29% | 5% | |
| 271 | 17% | 30% | 9% | 7% |
| 277 | 16% | 29% | | |
| 301 | 14% | 20% | | |
| 303 | 12% | 22% | | |
| 304 | 16% | 23% | | |
| 308 | 15% | 31% | | |
| 309 | 12% | 28% | | |
| 311 | 15% | 26% | | |
| 312 | 15% | 29% | | |
| 316 | 14% | 20% | | |
| 330 | 14% | 27% | | |
| 331 | 12% | 18% | 11% | 9% |
| 342 | 18% | 33% | | |
| 345 | 7% | 11% | 7% | 6% |

Route-level Ridership continued

| Route | All-Day % Late | PM % Late | Saturday % Late | Sunday % Late |
|-----------|-------------------|---------------------------|--------------------|------------------|
| 346 | 2% | 4% | 3% | 2% |
| 347 | 6% | 11% | 10% | 7% |
| 348 | 13% | 22% | 9% | 7% |
| 355 | 29% | 49% | | |
| 372 | 18% | 20% | 10% | 7% |
| 373 | 12% | 20% | | |
| A Line | 18% | 22% | | |
| B Line | 13% | 16% | | |
| C Line | 17% | 21% | | |
| D Line | 17% | 20% | | |
| E Line | 23% | 26% | | |
| F Line | 16% | 15% | | |
| King Cou | nty Marine I | All-Day Weekday % Late | | |
| West Sea | ttle Water Ta | 0.92% | | |
| Vashon Is | sland Water | 0.75% | | |

** Water Taxi is operated by the King County Marine Division

over the lateness threshold

Appendix G: Route-level Ridership and Hours

| Route | Weekday Rides in Fall 2016 | Weekday Rides in Fall 2017 | Change in Rides | Weekday Platform Hours in Fall 2016 | Weekday Platform Hours in Fall 2017 | Change in Platform Hours |
|-------|----------------------------------|----------------------------------|--------------------|--|--|--------------------------------|
| 1 | 2,400 | 2,400 | 0 | 66 | 66 | 0 |
| 2 | 5,600 | 5,900 | 300 | 135 | 138 | 3 |
| 3 | 6,200 | 7,200 | 1,000 | 135 | 166 | 31 |
| 4 | 4,600 | 3,900 | -700 | 116 | 105 | -11 |
| 5 | 8,300 | 8,300 | 0 | 184 | 193 | 9 |
| 7 | 10,800 | 10,800 | 0 | 255 | 257 | 2 |
| 8 | 8,400 | 8,600 | 200 | 188 | 190 | 2 |
| 9 | 1,200 | 1,000 | -200 | 34 | 36 | 2 |
| 10 | 3,100 | 3,100 | 0 | 94 | 94 | 0 |
| 11 | 4,000 | 4,000 | 0 | 86 | 89 | 3 |
| 12 | 3,300 | 3,300 | 0 | 84 | 84 | 0 |
| 13 | 3,000 | 2,400 | -600 | 61 | 63 | 2 |
| 14 | 3,100 | 2,900 | -200 | 84 | 88 | 4 |
| 15X | 1,300 | 1,500 | 200 | 30 | 33 | 3 |
| 17X | 900 | 1,100 | 200 | 19 | 25 | 6 |
| 18X | 1,100 | 1,000 | -100 | 24 | 25 | 1 |
| 19 | 300 | 300 | 0 | 12 | 12 | 0 |
| 21 | 4,900 | 4,900 | 0 | 144 | 152 | 8 |
| 22 | 200 | 200 | 0 | 16 | 16 | 0 |
| 24 | 2,300 | 2,300 | 0 | 71 | 72 | 1 |
| 26X | 2,900 | 2,900 | 0 | 94 | 94 | 0 |
| 27 | 1,000 | 1,100 | 100 | 49 | 51 | 2 |
| 28X | 3,100 | 3,200 | 100 | 95 | 103 | 8 |
| 29 | 1,300 | 1,100 | -200 | 34 | 38 | 4 |
| 31 | 1,600 | 1,600 | 0 | 56 | 58 | 2 |
| 32 | 2,500 | 2,400 | -100 | 77 | 78 | 1 |
| 33 | 2,200 | 2,100 | -100 | 59 | 59 | 0 |
| 36 | 9,300 | 9,200 | -100 | 232 | 237 | 5 |
| 37 | 200 | 200 | 0 | 11 | 10 | -1 |
| 40 | 11,400 | 12,000 | 600 | 284 | 299 | 15 |
| 41 | 10,000 | 9,600 | -400 | 194 | 201 | 7 |
| 43 | 800 | 700 | -100 | 30 | 29 | -1 |
| 44 | 8,400 | 8,800 | 400 | 167 | 178 | 11 |
| 45 | 7,100 | 6,900 | -200 | 176 | 185 | 9 |
| 47 | 600 | 600 | 0 | 23 | 23 | 0 |
| 48 | 5,500 | 5,800 | 300 | 183 | 198 | 15 |
| 49 | 6,500 | 6,400 | -100 | 168 | 169 | 1 |

| Route | Weekday Rides in Fall 2016 | Weekday Rides in Fall 2017 | Change in Rides | Weekday Platform Hours in Fall 2016 | Weekday Platform Hours in Fall 2017 | Change in Platform Hours |
|-------|----------------------------------|----------------------------------|--------------------|--|--|--------------------------------|
| 50 | 2,200 | 2,300 | 100 | 109 | 124 | 15 |
| 55 | 1,000 | 1,000 | 0 | 32 | 32 | 0 |
| 56 | 700 | 700 | 0 | 19 | 21 | 2 |
| 57 | 400 | 500 | 100 | 11 | 11 | 0 |
| 60 | 4,800 | 5,400 | 600 | 151 | 192 | 41 |
| 62 | 7,400 | 7,500 | 100 | 233 | 241 | 8 |
| 63 | 500 | 700 | 200 | 26 | 29 | 3 |
| 64X | 700 | 800 | 100 | 26 | 28 | 2 |
| 65 | 5,000 | 5,700 | 700 | 123 | 145 | 22 |
| 67 | 4,900 | 5,700 | 800 | 117 | 145 | 28 |
| 70 | 7,500 | 8,300 | 800 | 182 | 191 | 9 |
| 71 | 1,400 | 1,300 | -100 | 49 | 51 | 2 |
| 73 | 1,100 | 1,100 | 0 | 41 | 40 | -1 |
| 74 | 1,100 | 1,300 | 200 | 34 | 38 | 4 |
| 75 | 4,700 | 4,400 | -300 | 124 | 130 | 6 |
| 76 | 1,500 | 1,600 | 100 | 47 | 43 | -4 |
| 77 | 1,000 | 1,100 | 100 | 28 | 30 | 2 |
| 78 | 200 | 200 | 0 | 14 | 14 | 0 |
| 82 | <50 | 0 | <50 | 4 | 0 | -4 |
| 83 | <50 | 0 | <50 | 4 | 0 | -4 |
| 84 | <50 | 0 | <50 | 3 | 0 | -3 |
| 99 | 300 | 300 | 0 | 16 | 17 | 1 |
| 101 | 5,100 | 4,800 | -300 | 116 | 117 | 1 |
| 102 | 1,000 | 1,000 | 0 | 26 | 30 | 4 |
| 105 | 900 | 1,000 | 100 | 38 | 38 | 0 |
| 106 | 5,300 | 5,600 | 300 | 177 | 178 | 1 |
| 107 | 2,500 | 2,600 | 100 | 116 | 117 | 1 |
| 111 | 800 | 800 | 0 | 37 | 40 | 3 |
| 113 | 300 | 200 | -100 | 12 | 13 | 1 |
| 114 | 400 | 400 | 0 | 20 | 30 | 10 |
| 116 | 600 | 600 | 0 | 30 | 29 | -1 |
| 118X | 200 | 200 | 0 | 11 | 11 | 0 |
| 118 | 400 | 300 | -100 | 30 | 30 | 0 |
| 119X | 100 | 100 | 0 | 5 | 5 | 0 |
| 119 | 200 | 200 | 0 | 12 | 12 | 0 |
| 120 | 8,600 | 8,600 | 0 | 226 | 228 | 2 |

| Route | Weekday Rides in Fall 2016 | Weekday Rides in Fall 2017 | Change in Rides | Weekday Platform Hours in Fall 2016 | Weekday Platform Hours in Fall 2017 | Change in Platform Hours |
|-------|----------------------------------|----------------------------------|--------------------|--|--|--------------------------------|
| 121 | 900 | 900 | 0 | 47 | 51 | 4 |
| 122 | 500 | 500 | 0 | 25 | 28 | 3 |
| 123 | 300 | 300 | 0 | 13 | 12 | -1 |
| 124 | 4,000 | 4,000 | 0 | 135 | 136 | 1 |
| 125 | 1,800 | 1,700 | -100 | 58 | 58 | 0 |
| 128 | 3,500 | 3,500 | 0 | 139 | 139 | 0 |
| 131 | 3,100 | 3,100 | 0 | 84 | 93 | 9 |
| 132 | 2,900 | 2,800 | -100 | 101 | 103 | 2 |
| 143 | 500 | 600 | 100 | 33 | 36 | 3 |
| 148 | 600 | 600 | 0 | 42 | 43 | 1 |
| 150 | 6,900 | 6,200 | -700 | 192 | 192 | 0 |
| 153 | 400 | 400 | 0 | 21 | 22 | 1 |
| 154 | 200 | 200 | 0 | 8 | 8 | 0 |
| 156 | 1,100 | 1,100 | 0 | 65 | 65 | 0 |
| 157 | 200 | 200 | 0 | 16 | 17 | 1 |
| 158 | 600 | 600 | 0 | 25 | 30 | 5 |
| 159 | 400 | 400 | 0 | 24 | 25 | 1 |
| 164 | 1,900 | 1,700 | -200 | 48 | 48 | 0 |
| 166 | 1,900 | 2,000 | 100 | 84 | 86 | 2 |
| 167 | 400 | 300 | -100 | 16 | 16 | 0 |
| 168 | 1,500 | 1,400 | -100 | 68 | 69 | 1 |
| 169 | 2,900 | 3,200 | 300 | 79 | 144 | 65 |
| 177 | 500 | 500 | 0 | 34 | 36 | 2 |
| 178 | 500 | 400 | -100 | 30 | 32 | 2 |
| 179 | 800 | 800 | 0 | 38 | 40 | 2 |
| 180 | 4,600 | 4,400 | -200 | 150 | 150 | 0 |
| 181 | 2,100 | 2,200 | 100 | 86 | 89 | 3 |
| 182 | 500 | 500 | 0 | 28 | 28 | 0 |
| 183 | 700 | 700 | 0 | 33 | 33 | 0 |
| 186 | 200 | 200 | 0 | 21 | 21 | 0 |
| 187 | 400 | 500 | 100 | 20 | 20 | 0 |
| 190 | 400 | 400 | 0 | 27 | 27 | 0 |
| 192 | 200 | 100 | -100 | 14 | 15 | 1 |
| 193 | 500 | 500 | 0 | 29 | 30 | 1 |
| 197 | 600 | 500 | -100 | 38 | 40 | 2 |
| 200 | 100 | 100 | 0 | 13 | 13 | 0 |
| 201 | <50 | <50 | 0 | 3 | 3 | 0 |

| Route | Weekday Rides in Fall 2016 | Weekday Rides in Fall 2017 | Change in Rides | Weekday Platform Hours in Fall 2016 | Weekday Platform Hours in Fall 2017 | Change in Platform Hours |
|-------|----------------------------------|----------------------------------|--------------------|--|--|--------------------------------|
| 204 | 200 | 200 | 0 | 19 | 19 | 0 |
| 208 | 100 | 100 | 0 | 17 | 17 | 0 |
| 212 | 2,400 | 2,700 | 300 | 68 | 72 | 4 |
| 214 | 1,100 | 1,200 | 100 | 45 | 45 | 0 |
| 216 | 800 | 900 | 100 | 28 | 30 | 2 |
| 217 | 200 | 200 | 0 | 8 | 9 | 1 |
| 218 | 1,000 | 1,300 | 300 | 30 | 35 | 5 |
| 219 | 800 | 800 | 0 | 30 | 33 | 3 |
| 221 | 1,400 | 1,500 | 100 | 80 | 83 | 3 |
| 224 | 100 | 100 | 0 | 16 | 16 | 0 |
| 226 | 1,500 | 1,500 | 0 | 64 | 66 | 2 |
| 232 | 400 | 400 | 0 | 23 | 24 | 1 |
| 234 | 1,400 | 1,300 | -100 | 74 | 74 | 0 |
| 235 | 1,100 | 1,100 | 0 | 66 | 67 | 1 |
| 236 | 500 | 400 | -100 | 62 | 63 | 1 |
| 237 | 100 | 100 | 0 | 6 | 6 | 0 |
| 238 | 900 | 800 | -100 | 77 | 78 | 1 |
| 240 | 2,300 | 2,200 | -100 | 102 | 105 | 3 |
| 241 | 700 | 600 | -100 | 42 | 45 | 3 |
| 243 | 0 | <50 | | 0 | 11 | |
| 244 | 200 | 200 | 0 | 15 | 17 | 2 |
| 245 | 3,500 | 3,400 | -100 | 148 | 148 | 0 |
| 246 | 300 | 300 | 0 | 29 | 30 | 1 |
| 248 | 900 | 900 | 0 | 55 | 55 | 0 |
| 249 | 900 | 800 | -100 | 54 | 54 | 0 |
| 252 | 700 | 700 | 0 | 25 | 26 | 1 |
| 255 | 6,800 | 6,800 | 0 | 222 | 229 | 7 |
| 257 | 600 | 600 | 0 | 22 | 23 | 1 |
| 268 | 400 | 400 | 0 | 15 | 15 | 0 |
| 269 | 500 | 800 | 300 | 50 | 86 | 36 |
| 271 | 5,700 | 5,500 | -200 | 224 | 233 | 9 |
| 277 | 200 | 200 | 0 | 19 | 19 | 0 |
| 301 | 1,600 | 1,700 | 100 | 50 | 49 | -1 |
| 303 | 1,100 | 1,200 | 100 | 40 | 40 | 0 |
| 304 | 400 | 400 | 0 | 14 | 15 | 1 |
| 308 | 200 | 200 | 0 | 10 | 10 | 0 |
| 309 | 500 | 500 | 0 | 17 | 19 | 2 |

| Route | Weekday Rides in Fall 2016 | Weekday Rides in Fall 2017 | Change in Rides | Weekday Platform Hours in Fall 2016 | Weekday Platform Hours in Fall 2017 | Change in Platform Hours |
|--------|----------------------------------|----------------------------------|--------------------|--|--|--------------------------------|
| 311 | 1,200 | 1,300 | 100 | 45 | 48 | 3 |
| 312 | 2,500 | 2,500 | 0 | 77 | 83 | 6 |
| 316 | 1,100 | 1,200 | 100 | 28 | 28 | 0 |
| 330 | 400 | 400 | 0 | 14 | 14 | 0 |
| 331 | 900 | 900 | 0 | 48 | 48 | 0 |
| 342 | 300 | 300 | 0 | 17 | 17 | 0 |
| 345 | 1,200 | 1,200 | 0 | 38 | 38 | 0 |
| 346 | 1,200 | 1,100 | -100 | 43 | 43 | 0 |
| 347 | 1,400 | 1,200 | -200 | 56 | 56 | 0 |
| 348 | 1,400 | 1,300 | -100 | 56 | 56 | 0 |
| 355 | 1,000 | 1,000 | 0 | 30 | 33 | 3 |
| 372 | 7,700 | 8,000 | 300 | 207 | 216 | 9 |
| 373 | 1,600 | 1,500 | -100 | 36 | 38 | 2 |
| 601 | <50 | 0 | <50 | 5 | 0 | -5 |
| 628 | 100 | 100 | 0 | 27 | 27 | |
| 629 | 100 | 100 | 0 | 31 | 31 | |
| 630 | 100 | 200 | 100 | 17 | 17 | |
| 631 | 100 | 100 | 0 | 10 | 9 | |
| 633 | 0 | <50 | | 0 | | |
| A Line | 9,700 | 10,200 | 500 | 179 | 182 | 3 |
| B Line | 6,300 | 6,200 | -100 | 161 | 166 | 5 |
| C Line | 11,100 | 12,100 | 1,000 | 289 | 297 | 8 |
| D Line | 14,300 | 14,300 | 0 | 256 | 256 | 0 |
| E Line | 17,000 | 17,300 | 300 | 299 | 305 | 6 |
| F Line | 5,500 | 5,600 | 100 | 178 | 182 | 4 |
| 773* | 200 | 100 | -100 | 14 | 11 | -3 |
| 775* | 200 | 200 | 0 | 8 | 12 | 4 |
| 823 | 100 | 100 | 50 | 2 | 2 | 0 |
| 824 | 100 | 100 | 0 | 2 | 2 | 0 |
| 886 | <50 | <50 | 0 | 2 | 2 | |
| 887 | 100 | 100 | 0 | 2 | 2 | 0 |
| 888 | 100 | 100 | 0 | 2 | 2 | 0 |
| 889 | 100 | 100 | 0 | 2 | 2 | 0 |
| 891 | 100 | 100 | 0 | 3 | 3 | 0 |
| 892 | 100 | 100 | 0 | 2 | 2 | 0 |
| 893 | 100 | 100 | 0 | 0 | 2 | 2 |

| Route | Weekday Rides in Fall 2016 | Weekday Rides in Fall 2017 | Change in Rides | Weekday Platform Hours in Fall 2016 | Weekday Platform Hours in Fall 2017 | Change in Platform Hours |
|-------------------------------|----------------------------------|----------------------------------|--------------------|--|--|--------------------------------|
| 894 | 100 | 100 | 0 | 2 | 2 | 0 |
| 895 | 100 | 100 | 0 | 0 | 2 | 2 |
| 901DART | 500 | 400 | -100 | 20 | 21 | 1 |
| 903DART | 300 | 300 | 0 | 27 | 27 | 0 |
| 906DART | 300 | 400 | 100 | 27 | 27 | 0 |
| 907DART | 100 | 100 | 0 | 22 | 19 | -3 |
| 908DART | 100 | 100 | 0 | 11 | 11 | 0 |
| 910DART | 100 | 100 | 0 | 10 | 10 | 0 |
| 913DART | 200 | 200 | 0 | 13 | 13 | 0 |
| 914DART | 200 | 200 | 0 | 10 | 11 | 1 |
| 915DART | 200 | 200 | 0 | 17 | 17 | 0 |
| 916DART | 200 | 100 | -100 | 12 | 12 | 0 |
| 917DART | 200 | 200 | 0 | 16 | 16 | 0 |
| 930DART | 100 | 100 | 0 | 15 | 15 | 0 |
| 931DART | 200 | 200 | 0 | 32 | 32 | 0 |
| 952 | 300 | 200 | -100 | 26 | 27 | 1 |
| 980 | <50 | <50 | 0 | 1 | 2 | 1 |
| 981 | <50 | <50 | 0 | 2 | 2 | 0 |
| 982 | 100 | 100 | 0 | 4 | 4 | 0 |
| 984 | <50 | <50 | 0 | 2 | 2 | 0 |
| 986 | 100 | 100 | 0 | 3 | 3 | 0 |
| 987 | 100 | 100 | 0 | 4 | 4 | 0 |
| 988 | 100 | 100 | 0 | 3 | 3 | 0 |
| 989 | 100 | 100 | 0 | 4 | 4 | 0 |
| 994 | 100 | 100 | 0 | 4 | 3 | -1 |
| 995 | 100 | <50 | -50 | 4 | 3 | -1 |
| West Seattle Water Taxi | 669 | 786 | 117 | 7 | 8 | 2 |
| Vashon Water Taxi | 849 | 943 | 94 | 6 | 6 | 0 |

Rides are rounded to the nearest 100; rounding errors may appear in this table

* The 2017 System Evaluation incorrectly reported figures for these routes.

Appendix H: Service Changes and Corridor Changes

Service Changes

| Route(s) | Summary of Change | Type of Change |
|-----------------|---|--|
| MARCH S | ERVICE CHANGE | |
| C Line* | Add 2 AM peak inbound trip and 1 PM peak outbound trip; reschedule the first 2 northbound trips | Added trips, schedule adjustment |
| D Line* | Add 1 new AM peak inbound trip | Added trip |
| E Line* | Add 2 AM Peak trips and 2 PM peak trips | Added trips |
| F Line | Increase evening frequency on weekdays to 15 minutes until 10 p.m. | Increased frequency |
| 4* | Create a Route 4 shuttle to mitigate construction impacts caused by the reconstruction of 23rd Ave. S. | New route |
| 5*, 5X* | Add 2 AM peak trips | Added trips |
| 7* | Extend northbound Route 7 trips that are not through-routed with Route 49 to 4th Ave/Virginia St | Revised routing |
| 10*, 47* | Revise routing to use 3rd Ave instead of 1st Ave for some trips due to construction | Revised routing |
| 21* | Revise routing to operate on Edgar Martinez Dr S. between 1 Av S and 4 Av S; and on 1 Av S between S. Lander St and Edgar Martinez Dr S. | Revised routing |
| 22 | Add Sunday variant on its northernmost terminus to avoid California Av SW between SW Edmunds and SW Oregon St. | Revised routing |
| 24* | Add 1 inbound trip during the AM peak period and reschedule 1 Route 19 trip. | Added trip |
| 29 | Route revision to serve stops on 1st Ave in Belltown | Revised routing |
| 31*, 32*, 75 | Add new weekday evening service on Route 31; through-route new Route 31 trips with new Route 75 trips; 2 existing Route 32 trips will now become Route 31 trips | Increased span, added trips, schedule adjustment |
| 37 | Revise routing to operate on Edgar Martinez Dr S. between 1 Av S and 4 Av S; and on 1 Av S between S. Lander St and Edgar Martinez Dr S. | Revised routing |
| 50* | Add 1 AM peak and 1 PM peak trip, revise route to operate on S Holgate St. in order to travel east-west between 1 Av S and SODO busway. | Added trips, revised routing |
| 60* | Route revision in Yesler Terrace area | Revised routing |
| 63, 64 | Add 1 Route 64 p.m. peak trip and reschedule surrounding Route 63 and 64 trips | Added trip, schedule adjustment |
| 70* | Add 2 new AM peak trips in each direction | Added trips |
| 74 | Add new midday shuttle service between Sand Point and University District | Added trips |
| 99 | Discontinue Route 99 | Route elimination |
| 101 | Improve weekday peak and midday frequency to a minimum of 15 minutes in both directions | Revised routing |
| 101 | Change routing to begin and terminate at the South Renton Park and Ride instead of the Renton Transit Center | Revised routing |

| Route(s) | Summary of Change | Type of Change |
|------------------|--|--------------------------------------|
| 102 | Shift 8 trips from Route 101 to Route 102 | Schedule adjustment, revised routing |
| 105 | At Renton Transit Center, Route 105 will serve Bay 6 | Terminal change |
| 116, 118, 119 | Revise routing to operate on Edgar Martinez Dr. S. between 1 Av S and 4 Av S due to construction at Lander St | Revised routing |
| 116, 118, 119 | Change inbound routing to travel east on SW Alaska St and north on 35 Av SW between Fauntleroy Way SW and SW Avalon Way | Revised routing |
| 150 | Improve Sunday daytime frequency to every 15 minutes | Increased frequency |
| 153, 183 | Add 30 minute weekday midday service to Routes 153 and 183; add weekday hourly evening service to Route 183 | Increase frequency |
| 156 | Increase AM peak frequency to 15 minutes for 1.5 hours in each direction | Increased frequency |
| 180 | Improve northbound AM Peak frequency to about every 20 minutes | Increased frequency |
| 181 | Improve AM Peak frequency to every 20 minutes for 2 hours in each direction | Increased frequency |
| 212 | Add 2 late AM peak inbound trips | Added trips |
| 217 | Revise inbound routing to exit the I-90 mainline at 4th Ave | Revised routing |
| 218 | Add 3 AM peak inbound trips | Added trips |
| 224, 232, 248 | Revise eastbound routing in downtown Redmond to Redmond Way from Cleveland St | Revised routing |
| 226, 241 | Added hours to operate with battery electric buses | Schedule adjustment |
| 240 | Improve night frequency to 30 minutes; improve Sunday frequency to 30 minutes | Improved frequency |
| 245 | Improve AM Peak period frequency to 12 minutes for 2 hours in each direction | Increased frequency |
| 269 | Provide Saturday service between the Bear Creek P&R and the Issaquah Highlands P&R. | Added trips |
| 312 | Add 1 PM peak trip | Added trip |
| 634, 636, 637 | Operate Trailhead Direct transit service for the 2018 hiking season | New route |
| 908 | Change bay assignment at RTC to Bay 10 | Terminal change |
| 930 | Extend span of service between the AM and PM peaks | Increase span |

| Route(s) | Summary of Change | Type of Change |
|-------------------------------|--|---|
| JUNE SERV | /ICE CHANGE | |
| 5*, 21* | Rebalance stop spacing on Routes 5 and 21 | Stop adjustment |
| 40* | Add two PM peak trips to Route 40 | Added trips |
| 41*, 74 | Revise routing and add service hours due to changes at Convention Place Station. | Revised routing, schedule adjustment |
| 48* | Construction re-route | Revised routing |
| 70* | Add 2 AM and 1 PM Peak trips to operate during summer only on weekdays | Added trips |
| 101, 102, 150 | Revise routing and add service hours due to changes at Convention Place Station. | Revised routing, schedule adjustment |
| 243, 312X, 342, 372X | End construction reroute for Main St in Bothell due to completion of project | Revised routing |
| 252, 257, 268, 311 | Revise routing and add service hours due to changes at Convention Place Station. | Revised routing, schedule adjustment |
| 255 | Revise routing and add service hours due to changes at Convention Place Station. | Revised routing, schedule adjustment |
| 893 | Revise schedule with bell time change | Schedule adjustment |
| 895 | Revise schedule with bell time change | Schedule adjustment |
| 980 | Extend southern terminal to Mt. Baker; modify stop pattern | Terminal change |
| 981 | Revise routing; modify stop pattern | Revised routing |
| 984 | Revise routing | Revised routing |
| 987 | Revise routing for AM trip; modify stop patterns for revised routing. | Revised routing |
| 988 | Revise routing; modify stop pattern | Revised routing |
| 992 | Seasonal activation of service | Schedule adjustment |

| Route(s) | Summary of Change | Type of Change |
|---|--|---|
| SEPTEMBE | R SERVICE CHANGE | |
| 1* | Shift one PM Peak trip five minutes later | Schedule adjustment |
| 2*, 13* | Adjust trip times in the AM Peak to help address overcrowding | Added trips |
| 3*, 4* | Add one AM Peak trip to help relieve overcrowding | Added trip |
| 4* | Re-route of the Route 4 shuttle due to 23rd Ave construction | Revised routing |
| 5* | Additional service hours designed to improve route reliability | Reliability improvement |
| 5*, 5X* | Add one Route 5 AM trip inbound; add one Route 5X AM trip inbound | Added trips |
| 7*, 49* | Add one late night Route 7 trip | Added trip |
| 8* | Add two new AM peak trips; reschedule surrounding trips | Added trip, schedule adjustment |
| 9X | Add Rainier Ave/Charles St. to stop pattern | Stop adjustment |
| 17, 18 | Add three new AM Peak trips | Added trips |
| 21X*, 55*, 56*, 57*, 120*, C Line* | Revise routing to 1 Av/1 Av S between S. Dearborn and Columbia/Cherry St due to closure of Alaskan Way Viaduct | Revised routing |
| 28* | Add one new AM Peak trip | Added trip |
| 31*, 32*, 75 | Extend span on weekdays and Saturday until around 10:00 pm on Route 31; | Increased span |
| 37 | Revise routing to 1 Av/1 Av S between Columbia St and S Dearborn St (outbound direction only) | Revised routing |
| 40* | Establish peak directional turn-backs in both AM and PM peak periods; extend span of frequent service between Seattle and Northgate | Revised routing, added trips, increased frequency |
| 41* | Add weekday trips to improve frequency | Increased frequency |
| 41*, 74 | Revise routing and add service hours due to construction at Convention Place Station | Revised routing, schedule adjustment |
| 50* | Restore service to the Veterans Administration Medical Center | Revised routing |
| 56*, 57* | Add one new AM Peak trip for Route 56, one new AM Peak for Route 57 | Added trips |
| 62* | Add one new outbound PM peak trip, extend the 7:10 SB turn-back to begin at NOAA at Building 3 | Added trip, revised routing |
| 63, 64 | Adjust trip times to address overcrowding, add one new early PM peak trip on Route 63 | Added trip, schedule adjustment |
| 70* | Additional service hours designed to improve route reliability, add weekday trips to improve frequency | Reliability improvement, increased frequency |
| 73*, 373 | Convert two Route 73 trips into Route 373 trips; add one southbound Route 373 AM trip | Schedule adjustment, added trip |
| 76, 316 | Adjust trip times to address overcrowding | Schedule adjustment |
| 101, 102, 150 | Revise routing and add service hours due to construction at Convention Place Station | Revised routing, schedule adjustment |

| Route(s) | Summary of Change | Type of Change |
|--|--|--------------------------------------|
| 106 | Add one new Sunday trip | Added trip |
| 111 | Add one new AM Peak trip | Added trip |
| 111, 114, 212, 214, 216, 219, 219 | Revise routing to accommodate the closure of the D2 roadway and the Rainier Ave Freeway station | Revised routing |
| 114 | Add one new AM Peak trip | Added trip |
| 116, 118, 119 | Revise inbound routing to return to Fauntleroy Way with cancellation of construction project | Revised routing |
| 118 | Adjust PM trip time from downtown to ensure Route 118 will arrive at the Fauntleroy Ferry Dock in time to board the ferry at 5:45pm. | Schedule adjustment |
| 120* | Add two new AM Peak trips and one new PM Peak trip, remove all "Reduced Weekday" designations from Route 120 trips | Added trips, schedule adjustment |
| 121, 122, 123 | Revise routing due to closure of Alaskan Way Viaduct | Revised routing |
| 125* | Revise routing to 1 Av/1 Av S between S. Dearborn and Columbia/Cherry St | Revised routing |
| 128 | Trips after 11 p.m. deadhead to lay at Tukwila Sounder Station | Terminal change |
| 150 | Improve AM peak northbound frequency | Increased frequency |
| 177, 178, 190 | Change AM (inbound) pathway due to upcoming Terry Ave. closure. | Revised routing |
| 180 | Add northbound AM trips | Added trips |
| 181 | Add AM peak trips | Added trips |
| 212, 217 | Revise routing to accommodate the closure of the D2 roadway and the Rainier Ave Freeway station | Revised routing |
| 240 | Add peak period trips in both directions | Added trips |
| 245 | Add PM peak period trips in both directions | Added trips |
| 255 | Revise routing and add service hours due to construction at Convention Place Station, shift three trips later to adjust for heavy loads | Revised routing, schedule adjustment |
| 331, 345 | Add new Route 345 AM Peak trips and weekday evening service between Shoreline College and Northgate | Added trips |
| 345 | On weekdays, add one AM Peak trip and one night trip in each direction; On Sunday, add three southbound trips | Added trips |
| 372 | Add one new weekday NB trip between Lake City Way NE/NE 130th St and UW Bothell | Added trip |

| Route(s) | Summary of Change | Type of Change |
|----------|--|------------------------------------|
| 629 | Convert Route 629 to a Community Access Transportation service | New route |
| 630 | Revise routing to accommodate the closure of the D2 roadway and the Rainier Ave Freeway station | Revised routing |
| 633 | Extend Route 633 service span to operate Mon-Fri 6:30 a.m. to 8:00 p.m. | Increased span |
| 988 | Route will no longer serve stop at E MadisonSt/E Garfield St (#12260). | Stop adjustment |
| 989 | Revise routing to accommodate the closure of the D2 roadway and the Rainier Ave Freeway station | Revised routing |
| C Line* | Add one PM peak trip southbound; add one AM peak trip northbound | Added trips |
| D Line* | Add one AM trip; adjust trip schedule | Schedule adjustment, added trip |
| E Line* | Add 10 southbound trips from Aurora Village TC to downtown; add four northbound trips from downtown Seattle to Aurora Village TC | Added trips |
| F Line | Improve frequency on weekend evenings to 15 minutes | Increased frequency |

* Designates routes receiving Seattle investments

Corridor Changes

The last System Evaluation covered service from September 2016 to March 2017. In September 2017, Metro implemented a system called "Stop-based Scheduling." This system's primary function was to transition from using "time points" to using "time stops" to measure on-time performance. "Time points" were used to schedule service and were placed on or near route alignments throughout the system, but they did not necessarily correspond with actual physical locations of bus stops. Stop-based Scheduling altered the system of time points to move these schedule reference points to the same locations as physical bus stops. Along the way, the locations of bus stops, as represented in our data systems, received a fresh look and minor corrections were made. Slight alterations in where our data systems represent the physical locations of bus stops resulted in slight alterations to corridor walksheds. In turn, this produced perturbations in the number of jobs and households falling within each corridor's walkshed, particularly in high-density areas like downtown Seattle.

Only one corridor's extent/alignment was altered by action of the King County Council:

Renton to Enumclaw

This corridor, served by routes 143 and 907, was truncated at Black Diamond to enable higher-frequency service between Black Diamond and Renton. The portion of the corridor between Black Diamond and Enumclaw, which was only served by route 907, was replaced with a demand-response service. Daily ridership on this segment more than doubled after the demand-response service was implemented.

Future changes to corridors will likely occur as Link light rail expands and as Metro implements its long-range plan METRO CONNECTS. All proposed changes will undergo public outreach and are subject to approval by the King County Council.

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| ervice | ТНЭІМ | 30 | 0 | 30 | 0 | 30 | 30 | CT 00 | 0° | 15 | 30 | 30 | 30 | 30 | 30 | 15 | 000 | 900 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 0 | 9 08 | 30 | 15 | 0 | 30 | 80 | 30 | 30 | 5 | Points | 1 | 19-40 | : | | |
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| Initial Target Service Levels | OFFPEAK | 30 | 30 | 30 | 30 | 30 | 15 | t c | 30 | 15 | 15 | 15 | 15 | 15 | 30 | 15 | 30 | 15 | 15 | 15 | 15 | 15 | 15 | 30 | 30 | 30 | 60 | 30 | 30 | 15 | 30 | 15 | 30 | 30 | 15 | ç | Points | 25-40 | 10-24 | 0-9 | | |
| Initial 7 | PEAK | 15 | 30 | 15 | 30 | 15 | 15 | 15 | 15 | < 15 | 15 | 15 | 15 | 15 | 15 | < 15 1 F | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 60 | 15 | 15 | < 15 | 30 | 15 | 15 | 15 | 15 | ç | Points | 19-40 | 10-18 | 6-0 | | |
| ſ | ЗОІЯОІЯАЯ | T | Τ | | | | 202 | res | Т | Yes | | | | T | | Yes | Т | | 1 | Π | | | T | Τ | | | T | | | Yes | | | | | T | ٦ | Levels | 15 | 30 | 60 | | |
| | TOTAL SCORE | 23 | 15 | 24 | 12 | 24 | 25 | | 24 | T | | 28 | 30 | 30 | | 25 | 24 | 32 | 29 | 27 | 27 | 31 | 37 | 22 | 24 | 19 | 8 f | c1 12 | | 26 | 15 | 27 | 23 | 21 | 27 25 | cc | | | | | | Contor |
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| Geographic Value - Connections to Centers | СОИИЕСТІОИ ТҮРЕ | RGC/MIC - TAC | RGC/MIC - TAC | RGC/MIC - RGC/MIC | Other | RGC/MIC - RGC/MIC | RGC/MIC - TAC | שפר/ואור- גטר/ואור | RGC/MIC - RGC/MIC | RGC/MIC - RGC/MIC | RGC/MIC - RGC/MIC | RGC/MIC - TAC | RGC/MIC - RGC/MIC | Other | RGC/MIC - TAC | RGC/MIC - RGC/MIC | אפר/אור - ואר אפר/אור - אפר/אור | RGC/MIC - RGC/MIC | RGC/MIC - TAC | Other | Other | RGC/MIC - TAC | RGC/MIC - TAC Other | Other | RGC/MIC - TAC | Other | Other PCC/AALC TAC | RGC/MIC - TAC | RGC/MIC - RGC/MIC | RGC/MIC - RGC/MIC | TAC - TAC | RGC/MIC - TAC | RGC/MIC - TAC | RGC/MIC - TAC | RGC/MIC - TAC | עפר/ ואור - ואר | Threshold | /MIC | RGC/MIC - TAC | TAC - TAC | Other | (RGC: Regional Growth Center) |
| S | POINTS | 5 | 0 | 5 | 5 | S | υ c | n c | | 0 | 0 | ю | 0 | 5 | 0 | 0 | o u | n n | 5 | 5 | 5 | 5 | n n | 0 | 0 | 0 | 0 1 | n r | 5 | 5 | 0 | 0 | 0 | 5 | 0 " | n | Points | 2 | 5 | 3 | n | |
| Social Equity - Demographics | % BOARDINGS IN LOW-INCOME TRACTS | 72% | 29% | 98% | 100% | 97% | 69% | 40% | %0 | 4% | 5% | 42% | 18% | 100% | 10% | 12% | %58 | 72% | 84% | 72% | 100% | 88% | 89% 80% | %0 | 22% | 27% | 24% | 74% | 97% | 100% | %0 | 5% | 6% | 93% | 1% | %rn | Threshold | FR: 50% | DART: 56% | FR: 31% | DART: 37% | |
| quity - I | POINTS | S | 0 | S | 3 | S | ى n | n u | n c | 0 | 0 | 0 | 0 | 5 | ъ | ы Г | n ư | n n | 2 | 0 | 0 | ы | ى س | n 0 | 5 | 5 | 0 | n 10 | 5 | 5 | 0 | 0 | 0 | ŝ | 0 4 | n | Points | S | 5 | 3 | | oute) |
| Social E | M BOARDINGS IN MINORITY TRACTS | 72% | 29% | 64% | 57% | 77% | 71% | %/C | 02% 11% | 10% | 20% | 13% | 18% | 97% | 98% | 91% | 90% 65% | %02 %02 | 66% | %0 | 0% | 89% | 72% | 5% | 92% | 100% | 31% | 74% | 97% | 100% | 0% | 17% | 6% | 93% | 4% | 04.25 | Threshold | | DART: 63% | FR: 35% | DART: 44% | (FR: Fixed-route) |
| | STNIO9 | 2 | 4 | 2 | 2 | 2 | 4 0 | o < | t c | 10 | 10 | 10 | 10 | 10 | 9 | 9 0 | 0 00 | o ∞ | ∞ | 10 | 10 | 9 | 10 | 10 | ∞ | ∞ | 4 0 | ~ ~ | 2 | 4 | 4 | 10 | 10 | 2 | 10 | 7 | Points | 10 | | 9 | | 2 |
| Land Use - Productivity | лову/соякірок міге | 1.148 | 2,478 | 1,291 | 520 | 1,001 | 2,029 | 200,0 | 3.240 | 15,299 | 26,448 | 12,377 | 15,639 | 13,540 | 3,971 | 5,432 | 3,034 8,63 | 6.679 | 8,040 | 23,303 | 46,817 | 5,485 | 39,249 | 13,955 | 6,437 | 5,571 | 2,187 | 949 | 828 | 2,314 | 1,767 | 27,807 | 19,008 | 1,319 | 10,492 | 17/11 | Threshold | > 10250 | > 5500 | > 3000 | > 1400 | > 500 |
| d Use - F | STNIO9 | 4 | 4 | 2 | 0 | 2 | 4 0 | o < | t 00 | 10 | 10 | 80 | 10 | 8 | 2 | 4 (| 4 | 9 4 | 4 | 10 | 10 | 8 | 10 | 10 | 4 | 4 | 2 | ۰ ۲ | 2 | 2 | 9 | 10 | 9 | 2 | • 10 | 0 | Points | 10 | ∞ | 9 | 4 | 2 |
| Lan | совыров міге нолгеногрг/ | 1.224 | 1,448 | 680 | 420 | 753 | 1,253 | 100,2 | 7,45/ 2,787 | 4,518 | 4,626 | 2,740 | 3,446 | 2,417 | 670 | 1,664 | 1 894 | 1.663 | 1,583 | 7,077 | 7,493 | 2,496 | 7,990 | 3,529 | 1,353 | 1,260 | 1,062 | 649 | 1,029 | 1,135 | 2,315 | 6,185 | 1,818 | 911 | 3,606 | C++4,2 | Threshold | > 3000 | > 2400 | > 1800 | > 1200 | > 600 |
| | JTUOR ROLAM | 128 | 50 | 180 | 917 | 181 | 346 E 1 inc | | 40 | D Line | 40 | 45 | 44 | 36 | 271 | B Line | 24U 131 | 120 | 132 | 10 | 12 | 60 | 3/4 | 33 | 241 | 246 | 226 106/015 | 148 148 | 183 | A Line | 28 | 62 | 31/32 | 164 | υ, | 77 | | | 1 | 1 1 | | |
| Connections | ИА | California Ave SW. Military Rd. TIBS | Alaska Junction | Kent, SeaTac | Algona | 15th St SW, Lea Hill Rd | Meridian Ave N | NE SETH SE DISTANCE WILL AUCTIONED IN | NE 63til 3t, Reutitoria way, Avoituale ku NE Holman Road | 15th Ave W | Fremont, South Lake Union | Green Lake, Greenwood | Wallingford (N 45th St) | Beacon Ave | Lake Hills Connector | NE 8th St, 156th Ave NE | Newcastre, ractoria 1st Ave S. South Park | Delridge. Ambaum | Des Moines Mem Dr S, South Park | 15th Ave E | | South Park, Georgetown, Beacon Hill, First Hill | E Jetterson St Leechi Vaclar Way | Gilman Ave W, 22nd Ave W, Thorndyke Ave W | | Somerset, Factoria, Woodridge | Phantom Lake | Stuget Dr. Roval Hills | Military Road S | SR-99 | 8th Ave NW | Dexter Ave N | N 40th St | 132nd Ave SE | Greenwood Ave N | | | | | | | |
| | AND | Southcenter | SODO Station | Burien | Pacific | Federal Way | Northgate | Seditie CBD Virkland | Northgate | Seattle CBD | Seattle CBD | University District | University District | Seattle CBD | Eastgate | Redmond | Seattle CRD | Seattle CBD | Seattle CBD | Seattle CBD | Seattle CBD | White Center | Seattle CBD | Seattle CBD | Bellevue | Bellevue | Overlake | Renton | Kent | SeaTac | Broadview | Seattle CBD | University District | Kent | Seattle CBD | סבמוווה ניסט | isplay purposes. | | | | | |
| | BETWEEN | Admiral District | Alki | Auburn | Auburn | Auburn/GRCC | Aurora Village | Aurora village | Avonuare Ballard | Ballard | Ballard | Ballard | Ballard | Beacon Hill | Bellevue | Bellevue | Bellevue Burien | Burien | Burien | Capitol Hill | Capitol Hill | Capitol Hill | Central District | Discovery Park | Eastgate | Eastgate | Eastgate | Fairwood | Federal Way | Federal Way | Fremont | Fremont | Fremont | Green River CC | Greenwood uich point | | Figures rounded for display purposes. | 1 | | | | |

| Corridor | Ana | lysis | continued | |
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| Service | ИІСНТ | 0 | 0 | 30 | 0 | 0 | ' | ' ? | с Э | n R | R R | 30 | 30 | 30 | 80 | 80 | 8 | 8 | 8 8 | 30 | 0 | 0 | 8 | 8 8 | 3 0 | 0 | 30 | 15 | 0 | <u>م</u> | 8 08 | 30 | 30 | • | • • | 0 | 0 OE | ; | Points | | 19-40 | 1 | | | | |
| Initial Target Service Levels | OFFPEAK | 30 | 30 | 30 | 60 | 30 | · | ' ? | 05 | ې ۲ | 5 | 15 | 30 | 30 | 15 | 30 | 20 | 15 | 15 | 15 | 60 | 30 | 15 | 15 | 8 | 30 | 15 | 15 | 30 | 1 (v | 30 | 15 | 15 | • | · | 30 | 30 30 | 3 | Points | 25-40 | 10-24 | 6-0 | | | | |
| Initial | PEAK | 30 | 30 | 15 | 60 | 30 | - | , L | 15 20 | 3U 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 60 | 30 | 15 | 15 | 30 | 30 | 15 | < 15 | 30 | 15 | 15 | 15 | 15 | | • | 30 | 30 15 | 2 | Points | 19-40 | 10-18 | 0-9 | | | | |
| | | | | | | | | 1 | 1 | 1 | 1 | 1 | | | | | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 | | | | T | 1 | | | | 1 | | | - - | Levels | 15 | | | | | | |
| | TOTAL SCORE RAPIDRIDE | 13 | 12 | 19 | 6 | 15 | | | 75 | 0T | 26 | 30 | 21 | 22 | 34 | 24 | 24 | 32 | 27 | 27 | 6 | ۲e | 32 | 33 | 13 | 16 | 33 | 38 | 18 | c7 22 | 22 | 27 | 30 | | - | 12 | 18 23 | 3 | - | | | | | | inter) | |
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| value - o Centers | POINTS | | | | ., | , | | | | | | | | | | + | | | | | | | | 0 | | | | | | | | 2 | | | F | _ | | _ | Points | | | | | owth Cer | ing/Indus | יורא כבוייני |
| Geographic Value - Connections to Centers | CONNECTION TYPE | Other | RGC/MIC - TAC | RGC/MIC - RGC/MIC | TAC - TAC | TAC - TAC | - | - PCC/PAIL | RGC/MIC - IAC | אפר/ואור - ואר אפר/אונ | RGC/MIC - RGC/MIC | RGC/MIC - RGC/MIC | RGC/MIC - TA | RGC/MIC - TAC | RGC/MIC - RGC/MIC | Other | RGC/MIC - TAC | RGC/MIC - TAC | Other | RGC/MIC - TAC | TAC - TAC | Other | Other | RGC/MIC - TAC RGC/MIC - RGC/N | Other | Other | RGC/MIC - RGC/MIC | RGC/MIC - RGC/MIC | Other | Duner RGC/MIC - TA | Other | Other | Other | Capitol Hill provided by First Hill Streetcar | | `+ | RGC/MIC - TAC RGC/MIC - RGC/MIC | | Threshold | RGC/MIC - RGC/MIC | RGC/MIC - TAC | TAC - TAC | Other | (RGC: Regional Growth Center | (MIC: Manufacturing/Industrial Center) (TAC: Transit Activity Center) | רו מוואור ארייא |
| S | POINTS | 0 | 5 | 0 | 0 | 3 | | · . | ν | n u | n n | 5 | 0 | 0 | 5 | en en | 5 | s n | 5 | 0 | 0 | 5 | 5 | n n | 0 | 5 | 3 | 5 | 5 | - c | 0 | 5 | 5 | by First | lill corri | 0 | 0 0 | , | Points | 5 | 5 | 3 | ю | | | |
| Social Equity - Demographics | % BOARDINGS IN % BOARDINGS IN | 30% | 58% | %0 | 0% | 37% | | | 59% 570/ | %/C | %06 | 100% | %0 | 25% | 58% | 35% | 57% | 54% | 63% | %0 | %0 | 97% | 100% | 82% 55% | 27% | 65% | 38% | 70% | 88% | %0T | 15% | 60% | 97% | ill provided | by Renton - Beacon Hill corrido | 0% | 10% 0% | ~~~ | Threshold | FR: 50% | DART: 56% | FR: 31% | DART: 37% | | ransit) | |
| iquity - [| POINTS | 5 | 0 | 5 | 0 | ю | | • • | ν | - u | n n | S | 0 | 5 | 5 | 5 | 0 | , o | 0 | 0 | 0 | 5 | 5 | n c | , , | о С | 0 | ю | ы С | n r | 0 | 0 | 5 | Capitol H | y Rento | e | ഗഗ | 2 | Points | 2 | | 3 | 3 | | a-Ride T | |
| Social E | NI SƏNIQAAOA % XTJAAT YTIAONIM | 71% | 6% | 71% | %0 | 37% | | | %8c | 32% | 100% | 97% | 5% | 61% | 51% | 53% | 28% | %t7 | 5% | %9 | %0 | 97% | 100% | 74% 26% | 36% | 65% | 18% | 38% | 88% | %69 %16 | 17% | 32% | 95% | | eq | 48% | 77% | ~~~ | Threshold | _ | DART: 63% | FR: 35% | DART: 44% | (FR: Fixed-route) | (DART: Dial-a-Ride Transit) | |
| | STNIO9 | 4 | 0 | 4 | 2 | 2 | | • • | 7 | 7 9 | o 4 | ∞ | 8 | 9 | 10 | ∞ | ∞ 6 | 10 | 10 | 10 | 2 | 2 | 10 | 8 10 | 9 4 | 2 | 10 | 10 | 4 | 9 | 10 | 10 | 10 | ove; cor | ection r | 2 | 6 4 | > | Points | 10 | | 9 | | | 1 | |
| Use - Productivity | ловз/совиров міге | 1,973 | 401 | 1,707 | 580 | 968 | | | 1,255 742 | 2 027 | 1,457 | 7,984 | 8,055 | 3,335 | 10,509 | 10,212 | 10,040 | 14.511 | 25,943 | 12,285 | 685 | 534 | 19,480 | 13,840 8.086 | 1,841 | 917 | 10,254 | 16,581 | 1,493 | 5 125 | 22,288 | 24,670 | 11,812 | e corridor ab | Conn | 606 | 2,025 3.294 | | Threshold | > 10250 | > 5500 | > 3000 | > 1400 | > 500 | | |
| l Use - P | STNIO9 | 2 | 0 | 0 | 2 | 2 | | · . | 7 r | v c | 2 | 2 | 9 | 4 | 4 | 9 | 4 0 | - 10 | 10 | 10 | 2 | 2 | 10 | 9 | 4 | 5 | 10 | 10 | 5 | ۵ ۵ | 10 | 10 | ~ | See | | 0 | 2 2 | 1 | Points | 10 | 8 | 9 | 4 | 2 | | |
| Land | совивои міге нолгеногог/ | 620 | 280 | 575 | 861 | 814 | | - 000 | 308 | 110 | 938 | 976 | 1,874 | 1,412 | 1,792 | 1,932 | 1,492 777 | 4.543 | 5,607 | 3,166 | 777 | 1,086 | 4,698 | 1,875 5.396 | 1,524 | 754 | 3,263 | 3,113 | 1,148 | 2,440 1 3 2 8 | 5,783 | 6,049 | 2,416 | | | 586 | 982 1.015 | ~~~~ | Threshold | | > 2400 | > 1800 | > 1200 | > 600 | | |
| | TUOR ROLAM | 271 | 208 | 269 | 234 | 331 | | | 160 | 152 | 169 | 150 | 234/235 | 245 | 41 | 65 | 75 | 11 | 2 | 24 | 204 | 901 | 14 | 88 | 347 | 182 | 26 | 67 | 50 | 077 | 2/13 | 3/4 | 7 | | | 224 | 221 930 | 200 | | | | I I | | 1 | 1 | |
| Connections | VIA | SE Newport Way | Fall City, Snoqualmie | Sammamish, Bear Creek | Juanita | Lake Forest Park, Aurora Village TC | Finn Hill, Juanita | Edmonds Ave NE | cent-DIM Rd, S. 240th St, 1St Ave S | SE KENT-KANBIEY KOAD 84th Avia S Tind Avia SW | Kent East Hill | Tukwila | South Kirkland | Overlake, Crossroads, Eastgate | NE 125th St, Northgate, I-5 | 35th Ave NE | Lake City, Sand Point | Madison St | Union St | 34th Ae W, 28th Ave W | Island Crest Way | S 312th St | 31st Ave S, S Jackson St | Z3rd Ave E Martin Luther King Jr Wav. E John St. Denny Wav | | SW 356th St, 9th Ave S | Green Lake, Wallingford | Roosevelt Way NE | Columbia City Station | Bell-red Road Sammamish Viewnoint Northun Way | Queen Anne Ave N | Taylor Ave N | Rainier Ave S | | | Avondale Rd NE | 148th Ave, Crossroads, Bellevue College Willows Road | | | | The Kenmore-Totem Lake and Kennydale-Renton corridors are not currently served in their entirety. | | | | | |
| | QNA | Eastgate | North Bend | Overlake | Kirkland | Shoreline | Totem Lake | Kenton | Burien | INIAPIE VAILEY Danton | Renton | Seattle CBD | Bellevue | Factoria | Seattle CBD | Univeristy District | University District | Seattle CBD | Seattle CBD | Seattle CBD | S Mercer Island | Federal Way | Seattle CBD | University District | | Federal Way | Seattle CBD | University District | SODO Station | Bellevue Rellevue | Seattle CBD | Seattle CBD | Seattle CBD | Capitol Hill | Mount Baker Transit Cent | Duvall | Eastgate Totem Lake | | ay purposes. | ¹ Corridor was extended from Lake City to Northgate. | and Kennydale-Renton corrid | | | | | |
| | BETWEEN | Issaquah | Issaquah | Issaquah | Kenmore | Kenmore | Kenmore | Kennydale | Kent | Kent | Kent | Kent | Kirkland | Kirkland | Lake City | Lake City | Northgate ² | Madison Park | Madrona | Magnolia | Mercer Island | Mirror Lake | Mount Baker | Mount Baker Mount Baker Transit Ctr | Mountlake Terrace | Northeast Tacoma | Northgate | Northgate | Othello Station | Overlake | Queen Anne | Queen Anne | Rainier Beach | Rainier Beach | Rainier Beach | Redmond | Redmond Redmond | Desirioria | Figures rounded for display purposes. | ¹ Corridor was extended fi | The Kenmore-Totem Lake | | | | | |

| | | 6 | | | _ | | | | | 1. | | | | _ | | 6 | 0 | 0 | | | | | | | | . _ | 6 | 0 | | nts | | 40 | 1. | 1 | | |
|--|--|-------------------|----------------------------|-------------------------|-------------------------|----------------------------------|--|---------------------------|--------------------------------|-----------|--|--------------------------|--|--------------------------|----------------------------|-------------------|---------------------------|-----------------------|--------------------------|---------------|-------------------------------------|---------------------|---------------------|---------------------------|--------------------------------------|-----------|-----------------------------|------------------------------------|---------------|---------------------------------------|---|--|-----------|-----------|-------------------------------|--|
| Initial Target Service Levels | THOIN | 15 | 0 | 30 | _ | - | - | _ | 80 | - | 0 02 | - | _ | - | | | 30 | 30 | | | 9 08 | _ | | | 90 | | | - | | its Points | | 24 19-40 | | | | |
| ial Target S Levels | OFFPEAK | 15 | 30 | 30 | | _ | _ | _ | 8 | + | 0° 1, | _ | _ | | | | 30 | | | | 30 15 | | | 60 | 15 | | | | | ts Points | | _ | _ | - | | |
| Init | PEAK | < 15 | 30 | 15 | 15 | 15 | 15 | 15 | 15 | | 92 1 | ÷ ÷ | 108 | 30 | 15 | 15 | 15 | 15 | 15 | Dr. C | 30 15 | 15 | 15 | 60 | 15 | 99 9 | < 15 | 15 | 30 | s Points | | | | - | | |
| | ЭПІЯПІАЯ | Yes | | | | | | | | | | | | | | | | | | | | | | | | | Yes | | | Levels | Η | m | 9 | J | | ÷ |
| | TOTAL SCORE | 26 | 13 | 21 | 25 | 28 | 25 | 20 | 23 | ļ | 21 86 | 77 | 18 | 18 | 25 | 22 | 22 | 23 | 34 | αŢ | 77 27 | 32 | 35 | 6 | 25 | 5 | 23 | 25 | 11 | | | | | | ~ | ll Centei |
| e - iters | STNIOG | 10 | 7 | 7 | 7 | 10 | 2 | 2 | 7 | · | ς γ | 7 | - r | 2 | 2 | 10 | 10 | 7 | 10 | 7 | 10 | 2 | 7 | 7 | 7 | 2 | - | 2 | 7 | Points | 10 | 7 | S | 2 | Center | ndustria enter) |
| Geographic Value - Connections to Centers | CONNECTION TYPE | RGC/MIC - RGC/MIC | RGC/MIC - TAC | RGC/MIC - TAC | RGC/MIC - TAC | RGC/MIC - RGC/MIC | RGC/MIC - TAC | Other | 3 59% 5 RGC/MIC - TAC | | Other | | TAC - TAC | TAC - TAC | RGC/MIC - TAC | RGC/MIC - RGC/MIC | RGC/MIC - RGC/MIC | RGC/MIC - TAC | RGC/MIC - RGC/MIC | Other | RGC/MIC - RGC/MIC | Other | RGC/MIC - TAC | RGC/MIC - TAC | RGC/MIC - TAC | Other | RGC/MIC - TAC | RGC/MIC - TAC | RGC/MIC - TAC | Threshold | RGC/MIC - RGC/MIC | RGC/MIC - TAC | TAC - TAC | Other | (RGC: Regional Growth Center) | (MIC: Manufacturing/Industrial Center) (TAC: Transit Activity Center) |
| cs | STNIO9 | 5 | 3 | 5 | 5 | 5 | 5 | 2 | 5 covol+ W | | 0 2 | ם ח | n r | 5 | 2 | 0 | 5 | 5 | 5 | n r | n 0 | 5 | 5 | 0 | ŝ | 0 | 0 | 5 | 0 | Points | 5 | 5 | 3 | 3 | | |
| Social Equity - Demographics | % BOARDINGS IN % BOARDINGS IN MODME TRACTS | 82% | 40% | 91% | 80% | 100% | 100% | 74% | 59% +rict via Poo | | 28% | 24/0 | 47% | 85% | 74% | 10% | 87% | 68% | 94% | 91% A1% | %6 | 78% | 72% | %0 | 48% 2% | %0 | 33% | 95% | 4% | Threshold | | DART: 56% | FR: 31% | DART: 37% | | ransit) |
| Equity - | STNIOG | S | 3 | 5 | 5 | ы | S I | 5 | | | n c | n n | n C | 0 | n n | 0 | 5 | 5 | 5 | n r | n n | 2 | 3 | 0 | m c | 0 | 0 | 5 | 0 | Points | | 5 | 3 | 3 | oute) | a-Ride 1 |
| Social F | NI SƏNRƏNGA M STƏART YTIAONIM | 82% | 46% | 97% | 97% | 97% | 100% | 82% | 4 50% | | 0% ۵۳% | 70% | 40% | 20% | 39% | 2% | 94% | 63% | 84% | 407% 1407 | /4% 94% | 58% | 36% | 14% | 45% | %0 | 21% | 95% | 28% | Threshold | FR: 53% | DART: 63% | FR: 35% | DART: 44% | (FR: Fixed-route) | (DART: Dial-a-Ride Transit) |
| | STNIO9 | 4 | 0 | 2 | 4 | 9 | 4 | 4 | 4 contod | 201 400 | 4 01 | 9 0 | 0 4 | 4 | 9 | ∞ | 2 | 4 | 8 | 7 1 | 10 | 10 | 10 | 2 | ∞ < | • 0 | 10 | 9 | 2 | Points | 10 | ∞ | 9 | 4 | 2 | |
| Land Use - Productivity | ловз/совыров міге | 1,792 | 333 | 648 | 2,608 | 5,185 | 2,089 | 2,919 | 4 1,935 Connection nouv | | 2,047 11 955 | 5005 | 0,040 7.283 | 1,940 | 3,093 | 8,365 | 1,254 | 1,467 | 9,526 | U/C | 12.785 | 29,584 | 41,460 | 1,160 | 7,566 | 82 | 11,532 | 5,363 | 1,270 | Threshold | > 10250 | > 5500 | > 3000 | > 1400 | > 500 | |
| d Use - I | STNIO9 | 2 | 0 | 2 | 4 | 2 | 4 | 4 | 4 | , | 9 | 2 | 4 | 4 | 4 | 4 | 0 | 2 | 9 | 7 | 4 | 10 | 10 | 0 | 4 (| 4 0 | 9 | 2 | 2 | Points | 10 | 8 | 6 | 4 | 2 | |
| Lan | сов'ваов Wile Нолгеногог/ | 868 | 253 | 949 | 1,356 | 714 | 1,438 | 1,244 | 1,602 | | 2,34U 7 977 | 1 170 | 2,022 | 1,595 | 1,386 | 1,601 | 585 | 617 | 1,811 | 1 207 | 1,2U/ 916 | 5,514 | 5,305 | 548 | 1,411 | 49 | 2,147 | 632 | 1,167 | Threshold | > 3000 | > 2400 | > 1800 | > 1200 | > 600 | |
| | ЭТ ООЯ ЯОІАМ | F Line | 143/907 | 107 | 105 | 101/102 | 106 | 908 | 348 | ţ | 62 74 | 272 | 5,0 | 330 | 345 | 255 | 156 | 906 | 124 | 18/ | 903 271 | 49 | 20 | 931 | 372 320 | 118 | C Line | 125 | 236 | | | | | | | |
| Connections | VIV | S 154th St | Maple Valley | West Hill, Rainier View | NE 4th St, Union Ave NE | Martin Luther King Jr Way S, I-5 | Skyway, Martin Luther King Jr Way S S. Beacon Hill | NE 7th St, Edmonds Ave NE | Richmond Beach Rd, 15th Ave NE | | View Kidge, NE both ot, Cowen Park NF 55th St | Tackson Bark 15th Ava NE | Jackson raik, 13th Ave Ne Greenwood Ave N | N 155th St, Jackson Park | N 130th St, Meridian Ave N | Kirkland, SR-520 | McMicken Heights, Sea-Tac | S 180th St, Carr Road | Pacific Hwy S, 4th Ave S | 5 3 2 UTI 5 T | SW Ldfripus Df, 1st Ave S SR-520 | Broadway | Eastlake, Fairview | Woodinville, Cottage Lake | Kenmore, Lake Forest Park, Lake City | | Fauntleroy, Alaska Junction | 16th Ave SW, South Seattle College | Kingsgate | | ¹ Corridor was truncated. Demand-response service in place between Black Diamond and Enumclaw. | | | | | |
| | QNP | Burien | Black Diamond ¹ | Beacon Hill | Renton Highlands | Seattle CBD | Seattle CBD | Renton | Northgate | - 00 | Fremont ⁻ Llniversity District | University Vistrict | Greenwood | Lake City | Northgate | Seattle CBD | Des Moines | Fairwood | Seattle CBD | rederal way | reaeral way Bellevue | Seattle CBD | Seattle CBD | Redmond | University District | Tahlequah | Seattle CBD | Seattle CBD | Kirkland | olav purposes. | d. Demand-response service in p | ² Corridor was extended from Cowen Park to Fremont. | | | | |
| | BETWEEN | Renton | Renton | Renton | Renton | Renton | Renton | Renton Highlands | Richmond Beach | NUUSEVEIL | Sand Point Sand Point | Shoreline | Shoreline CC | Shoreline CC | Shoreline CC | Totem Lake | Tukwila | Tukwila | Tukwila | TT. Lakes | University District | University District | University District | UW Bothell | UW Bothell | Vashon | West Seattle | White Center | Woodinville | Figures rounded for display purposes. | ¹ Corridor was truncate | ² Corridor was extended | | | | |

| | илуезтмент ряювиту | 32 | 21 | 6 | 55 | 10 | 25 | 2 | 29 | | | | | L | L | | | 30 | e | | 17 | | 5 | 16 | 44 | 46 | 20 | 49 | | 39 | 34 | 11 | | | | | 33 | | | | | | |
|---|--|--------------------------------------|-----------------|--------------|---------|-------------------------|----------------|----------------|---|---------------|---------------|---------------------------|-----------------------|-------------------------|---------------|----------------------|-------------------------|---------------------|-----------------------|------------------|---------------------------------|---------------|---------------|---|--------------------|---|--------------------------------------|-------------------------------|--------------|----------------------|-------------------------|-----------------|---------------|------------|---------------|---------------------|----------------|-----------------|---------------|------|--|---|---------|
| | INVESTMENT NEED (after subtracting Mar & Sep کاکه investments) | 9,500 | 14,200 | | 3,100 | 2,300 | 9,300 | 4,700 | 4,300 | | | | | | | | | | 8,600 | | 16,000 | | | 7,800 | 9,300 | 3,900 | 5,300 | 15,200 | | 3,500 | 5,200 | 4,900 | | | | | 5,900 | | | | | | |
| Final Target Service Levels and Family | RESULTING SERVICE FAMILY | Frequent | Frequent | Frequent | Local | Frequent | Very Frequent | Very Frequent | Frequent | Very Frequent | Very Frequent | Very Frequent | Very Frequent | Very Frequent | Very Frequent | Frequent | Very Frequent | Frequent | Very Frequent | Very Frequent | Very Frequent | Very Frequent | Very Frequent | Very Frequent Very Frequent | Very Frequent | Frequent | Frequent | Frequent | Hourly | Local | Frequent | Frequent | Very Frequent | Frequent | Very Frequent | Very Frequent | Frequent | Very Frequent | Very Frequent | | | | |
| rvice Lev | THĐIN | 30 | 30 | 30 | 0 | 30 | 30 | < 15 | 30 | 15 | 15 | 15 | 15 | 15 | 15 | 30 | 15 | 30 | 30 | 15 | 30 | 15 | 30 | 30 15 | 30 | 30 | 30 | 30 | 0 | 0 | 30 | 30 | 15 | 30 | 30 | 30 | 30 | 15 | 30 | | 5 | ; | 1 |
| arget Se | OFFPEAK | 30 | 30 | 30 | 30 | 30 | 15 | < 15 | 30 | 15 | < 15 | 15 | 15 | 15 | < 15 | 30 | 15 | 30 | 15 | 15 | 15 | 15 | 15 | 15 < 15 | 15 | 30 | 30 | 30 | 60 | 30 | 8 | 30 | 15 | 30 | 15 | 15 | 30 | 15 | 15 | | 00VE Large | AL LARGEL Below Target | OW 1415 |
| Final T | PEAK | 15 | < 15 | 15 | 30 | 15 | 15 | < 15 | 15 | < 15 | < 15 | < 15 | < 15 | < 15 | < 15 | 15 | < 15 | 15 | 15 | < 15 | 15 | < 15 | < 15 | < 15 < 15 | 15 | < 15 | 15 | 15 | 60 | 30 | 15 | 15 | < 15 | < 15 | < 15 | < 15 | 15 | < 15 | 15 | | | C Ind | DCI |
| | | | | | | | | | _ | | | | | | | | | | | | | | | T | | | | | | | 1 | | | | | | | | | | | , G | ė |
| evel | THƏIN | ' | | ' | ' | ' | - | 1 | - | 1 | - | 1 | 1 | 1 | 1 | ' | • | ' | ' | 1 | ' | 1 | ' | | • | 1 | ' | ' | ' | 1 | ' | ' | ' | ' | ' | ' | ' | 1 | | | ng ots move | hevels. e | |
| Service Level Improvements | OFFPEAK | ' | • | ' | ' | ' | - | 1 | | 1 | 1 | | • | • | 1 | 1 | • | ' | ' | ' | ' | • | ' | | | 1 | ' | ' | ' | ' | ' | ' | ' | ' | • | -1 | ' | ' | • | - | ie crowai vrovemer | ne or two | 5 |
| | bE∀K | ' | 2 | • | ' | • | - | 2 | - | 2 | 1 | 2 | 2 | 2 | 2 | 1 | • | • | • | 2 | ' | -1 | · | 7 | • | 1 | • | ' | • | ' | • | 1 | ' | 2 | 2 | 1 | • | 1 | • | - | tion to tr level imr | vice up o | |
| ed Night ions | ADD WHAT FREQUENCY NIGHT SERVICE? | 30 | 30 | 30 | • | 30 | 30 | 0E | 30 | 30 | 30 | 30 | 0E | 0E | 0E | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | • | • | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | | 's propor n service | els of ser | |
| Other Policy-based Night Service Additions | PEAK SERVICE PEAK SERVICE | 30 | 30 | 30 | | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 8 | 05 05 | 30 | 30 | 30 | 30 | | | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | - | The average load's proportion to the crowding threshold. Ridership service level improvements move | the preliminary levels of service up one or two levels.e.e. | |
| Other Po Servi | PRIMARY CONNECTIONS BETWEEN URBAN CENTERS | | | 60 | | 60 | - | 60 | | 60 | 60 | 60 | | 60 | | | 60 | | 60 | 60 | | | | | | | | , | | | | 60 | 60 | | | | | , | | i | The aver hreshold. | he nrelim | |
| | ИІЄНТ | | , | , | , | | - | 1 | | 1 | | 1 | 1 | 1 | 1 | | | | | 1 | | 1 | | - - | | | | | | | | | | , | , | , | | 1 | | | Night ¹ | | |
| Based Service Improvements | OFFPEAK | | | | | | - | 1 | | 1 | 1 | - | | | 1 | | | | | | | | , | - + | | | | , | | | , | | | | ' | 1 | | , | | | 0#PK | 4 | - |
| Load-Based Service Level Improvements | bE∀K | | 2 | | | | - | 2 | | 2 | 1 | 2 | 2 | 2 | 2 | | | | | 2 | | 1 | -1 · | 1 2 | | 1 | | , | | | | | | 2 | 2 | 1 | | 1 | | | Peak (| 4 | - |
| nary * | THƏIN | 26% | 16% | 33% | N/A | 23% | 11% | 56% | 16% | 85% | 50% | 85% | 77% | 78% | 76% | 21% | 25% | 9% | 23% | 83% | 20% | 56% | 32% | 32% 69% | 12% | 17% | 6% | N/A | 9% | N/A | 17% | N/A | 37% | 9% | 49% | 38% | 18% | 79% | 30% | | | Ī | |
| Loads at Preliminary Service Level * | OFFPEAK | 43% | 38% | 50% | 5% | 36% | 14% | 77% | 27% | 79% | 74% | 40% | 31% | 45% | 87% | 45% | 30% | 37% | 17% | 36% | 14% | 31% | 30% | 39% 93% | 7% | 26% | 13% | 8% | 28% | 18% | 27% | 15% | 50% | 12% | 29% | 76% | 47% | 37% | 31% | **** | KIGErsnip" | 110/0 | 55% |
| Loads al Servi | bE∀K | 22% | - | 32% | 11% | 18% | 20% | 111% | 16% | 158% | 106% | 158% | 111% | 117% | 117% | 48% | 51% | 17% | 30% | 120% | | 92% | 97% | 63% 127% | 24% | 62% | 10% | 6% | 44% | 34% | 19% | 22% | 52% | 131% | 126% | _ | | | 55% | | N | | |
| | ЭТ ООЯ ЯОІАМ | 128 | 50 | 180 | 917 | 181 | 346 | E Line | 248 | 40 | D Line | 40 | 45 | 44 | 36 | 271 | B Line | 240 | 131 | 120 | 132 | 10 | 12 | 60 3/4 | 27 | 33 | 241 | 246 | 226 | 186/915 | 148 | 183 | A Line | 28 | 62 | 31/32 | 164 | 5 | 21 | - | | | |
| Connections | VA | California Ave SW, Military Rd, TIBS | Alaska Junction | Kent, SeaTac | Algona | 15th St SW, Lea Hill Rd | Meridian Ave N | Aurora Ave N | NE 85th St, Redmond Way, Avondale Rd NE | Holman Road | 15th Ave W | Fremont, South Lake Union | Green Lake, Greenwood | Wallingford (N 45th St) | Beacon Ave | Lake Hills Connector | NE 8th St, 156th Ave NE | Newcastle, Factoria | 1st Ave S, South Park | Delridge, Ambaum | Des Moines Mem Dr S, South Park | 15th Ave E | Madison St | South Park, Georgetown, Beacon Hill, First Hill E Jefferson St | Leschi, Yesler Way | Gilman Ave W, 22nd Ave W, Thorndyke Ave W | Newport Way, S. Bellevue, Beaux Arts | Somerset, Factoria, Woodridge | Phantom Lake | Auburn Way S, SR 164 | S Puget Dr, Royal Hills | Military Road S | SR-99 | 8th Ave NW | Dexter Ave N | N 40th St | 132nd Ave SE | Greenwood Ave N | 35th Ave SW | | | | |
| | AND | Southcenter | SODO Station | Burien | Pacific | Federal Way | Northgate | Seattle CBD | Kirkland | Northgate | Seattle CBD | Seattle CBD | University District | University District | Seattle CBD | Eastgate | Redmond | Renton | Seattle CBD | Seattle CBD | Seattle CBD | Seattle CBD | Seattle CBD | White Center Seattle CBD | Seattle CBD | Seattle CBD | Bellevue | Bellevue | Overlake | Auburn | Renton | Kent | SeaTac | Broadview | Seattle CBD | University District | Kent | Seattle CBD | Seattle CBD | | y purposes. | | |
| | BETWEEN | Admiral District | Alki | Auburn | Auburn | Auburn/GRCC | Aurora Village | Aurora Village | Avondale | Ballard | Ballard | Ballard | Ballard | Ballard | Beacon Hill | Bellevue | Bellevue | Bellevue | Burien | Burien | Burien | Capitol Hill | Capitol Hill | Capitol Hill Central District | Colman Park | Discovery Park | Eastgate | Eastgate | Eastgate | Enumclaw | Fairwood | Federal Way | Federal Way | Fremont | Fremont | Fremont | Green River CC | Greenwood | High Point | | Figures rounded for display purposes. | | |

 2
 2
 2
 threshold. Ridership service level improvements move

 1
 1
 1
 1
 the preliminant version is exvice up one two levels, e.g., a identify service level improvement of 2 changes 30 min. service to <15 or a 60 min. service to 15, etc.</td>
 110% 20%

| | INVESTMENT NEED (after subtracting Mar & Sep 2018 investments) | , | 10,200 41 | | | | | 7,200 58 | t | 16,300 8 | | 6,600 4 | , | • | , | | | 3.400 14 | | 11,300 15 | • | + | 9,100 45 | , | | 2,300 54 | T 007/CT | | - | 11,100 23 | , | , | , | , | 7,600 37 | | 9,400 6 | | |
|---|--|----------------|-----------------------|-----------------------|----------|-------------------------------------|--------------------|---|----------------------|-------------------------|----------------|---------------|----------|--------------------------------|-----------------------------|-------------------------------------|-------------------------------------|----------------------------|---------------|-----------------------|------------------|-------------|--|---|-------------------------|------------------------|---------------------|-----------------------|---------------|---|---------------|---------------|----------------------------|--|----------------|---|--------------|---|---|
| Final Target Service Levels and Family | RESULTING SERVICE FAMILY | Local | Local | Frequent | Hourly | Frequent | Hourly | Hourly Frequent | local | Very Frequent | Very Frequent | Very Frequent | Frequent | Very Frequent | Very Frequent | Very Frequent | very Frequent | Verv Frequent | Very Frequent | Very Frequent | Hourly | Local | Very Frequent | Very Frequent | Local | Vour Focal | Verv Frequent | Frequent | Very Frequent | Very Frequent | Very Frequent | Very Frequent | - | | Local | Local | Frequent | | |
| ervice Le | THGIN | 0 | 0 | 30 | 0 | 30 | 0 | 0 0 | S 0 | 30 | 30 | 30 | 30 | 30 | 15 | t t | d 0 | 30 | 15 | 30 | 0 | 0 | 30 20 | 30 | 0 | 0 | 51 | 30 | 30 | 30 15 | 15 | 15 | • | | 0 | 0 | 30 | get | |
| Target Si | OFFPEAK | 30 | 30 | 30 | 60 | 30 | 60 | 30 | 30 | 15 | 15 | | 30 | 15 | 15 | <15 15 | 2U | 15 | 15 | 15 | 60 | 30 | 15 15 | 15 | 30 | 30 | < 15 | 30 | 15 | 30 | 15 | 15 | • | - | 30 | 30 | 30 | Above Target | |
| Final | PEAK | 30 | 30 | 15 | 60 | 15 | 60 | 60 15 | 30 | 15 | 15 | < 15 | 15 | 15 | < 15 | 11 | 2U > | < 15 | < 15 | 15 | 60 | 30 | < 15 15 | < 15 | 30 | 30 | < 15 < | < 15 | 15 | 15 < 15 | < 15 < 15 | < 15 | | | 30 | 30 | 15 | Ab | |
| - 21 | ИІСНТ | | | | | | , | | | , | | | | | | | - | | 1 | | | | | | | , | | | | · . | | - | | | | | | | 0000 |
| Service Level Improvements | OFFPEAK | | | | | | , | | | | | | | 1 | · (| 7 | - | | | | | | | | , | | . 4 | | | · . | | | ar | | | | | crowding | |
| Ser | PEAK | | | | | 1 | , | | | | | 1 | | | 2 | ۲ F | - | . 1 | | | | | | 1 | , | • • | | 2 | | · . | | - | First Hill Streetcar | r | | | | on to the c | and free or and |
| ed Night ions | ADD WHAT FREQUENCY VIGHT SERVICE? | | | 30 | | 30 | | - 02 | ς · | 30 | 30 | 30 | 30 | 30 | 30 | DE CE | 30 | 30 | 30 | 30 | | | 30 | 30 | | - VC | 30 | 30 | 30 | 30 | 800 | 30 | by First Hi | ill corrido | | | 30 | 's proporti | |
| Other Policy-based Night Service Additions | PEAK SERVICE CORRIDOR HAS 15 MIN | | | 30 | | 30 | ' | - 10 | , · | 30 | 30 | 30 | 30 | 30 | 30 | 30 | ۰ ۱ | 30 | 30 | 30 | | | 30 | 30 | | - 00 | 30 | 30 | 30 | 30 | 30 | 30 | provided by | Connection now served by Renton - Beacon Hill corridor | | ' | 30 | * The average load's proportion to the crowding | A DIA |
| | PRIMARY CONNECTIONS BETWEEN URBAN CENTERS | • | • | 60 | • | • | , | | | 60 | 60 | 60 | • | • | 60 | | | | • | | | • | | 60 | | | 60 | | | | , | • | oitol Hill p | Renton - I | | | 60 | * The ave | - L |
| ce Level nts | THGIN | • | | | | | , | | | | - | | | | 1 | | - | | 1 | | | - | | | | | | - | | . 1 | 1 | 1 | on to Cap | rved by F | | | | Night | |
| Load-Based Service Level Improvements | OFFPEAK | | | | | | | | | | | | | 1 | | 7 | - | | | | | | | | | | . + | | | | | , | connection to Capitol Hill | n now se | , | | | OffPk | |
| Load-Ba | PEAK | | | | | 1 | | | | | | 1 | | | 2 | 7 7 | - | 1 | 1 | | | | 1 | 1 | | • • | | 2 | | | | 1 | corridor above; o | onnectio | | | | Peak | |
| inary el * | ТНЭІМ | 24% | N/A | N/A | 12% | N/A | | - - | 40% | N/A | 36% | 41% | 39% | 20% | 95% | 30% | V/V | 51% | 67% | 23% | N/A | 5% | 53% | 31% | 39% | 15% | 50% | 16% | %6 | 14% 71% | %99 | 66% | e corrido | 0 | N/A | 14% | N/A | * | |
| Loads at Preliminary Service Level * | ОЕЕРЕАК | 23% | 7% | 17% | 22% | 38% | | - 24% | 28% | N/A | 28% | 35% | 42% | 67% | 46% | 750/ | %C/ %11% | 35% | 47% | 14% | 13% | 12% | 31% 20% | 38% | 25% | 13% | 67% | 38% | 14% | 13% 89% | 53% | 53% | See | | 6% | 40% | N/A | Ridership' | |
| Loads Ser | PEAK | 29% | %0 | 13% | 54% | 65% | | - 16% | 20% | 20% | 30% | 63% | 48% | 54% | 144% | 13/% | %CK %10 | %69 | 94% | 51% | 32% | 8% | 77% A0% | %99 | 51% | 22% | 84% | 112% | 22% | 100% | 105% | %06 | | | 9% | 29% | 6% | | |
| | TUOA AOLAM | 271 | 208 | 269 | 234 | 331 | , | - 166 | 168 | 153 | 169 | 150 | 234/235 | 245 | 41 51 | C0 7F | C/ 87 | 11 | 2 | 24 | 204 | 901 | 14 | 2 oo | 347 | 182 76 | 50 67 | 50 | 226 | 249 2/13 | 3/4 | 7 | | | 224 | 221 | 930 | | |
| Connections | ИА | SE Newport Way | Fall City, Snoqualmie | Sammamish, Bear Creek | Juanita | Lake Forest Park, Aurora Village TC | Finn Hill, Juanita | Edmonds Ave NE Kent-DM Bd S 200th St 1st Ave S | SE Kent-Kaneley Road | 84th Ave S, Lind Ave SW | Kent East Hill | Tukwila | | Overlake, Crossroads, Eastgate | NE 125th St, Northgate, I-5 | 35th AVE NE | Lake City, Sand Point NE A1st St | Medison St | Union St | 34th Ae W, 28th Ave W | Island Crest Way | S 312th St | 31st Ave S, S Jackson St 23rd Ave F | Martin Luther King Jr Way, E John St, Denny Way | 15th Ave NE, 5th Ave NE | SW 356th St, 9th Ave S | Roosevelt Way NE | Columbia City Station | Bell-Red Road | Sammamisn Viewpoint, Northup Way Dijeen Anne Ave N | Tavlor Ave N | Rainier Ave S | Rainier Ave S | Mount Baker Transit Cent Martin Luther King Jr Way S | Avondale Rd NE | 148th Ave, Crossroads, Bellevue College | Willows Road | | |
| | QNA | Eastgate | North Bend | Overlake | Kirkland | Shoreline | Totem Lake | Renton | Manle Vallev | Renton | Renton | Seattle CBD | Bellevue | Factoria | Seattle CBD | Univeristy District | University District | Seattle CBD | Seattle CBD | Seattle CBD | S Mercer Island | Federal Way | Seattle CBD IIniversity District | - | Northgate | Federal Way | University District | SODO Station | Bellevue | Bellevue Seattle CRD | Seattle CBD | Seattle CBD | Capitol Hill | Mount Baker Transit Ce | Duvall | Eastgate | Totem Lake | y purposes. | and the second se |
| | BETWEEN | Issaquah | Issaquah | lssaquah | Kenmore | Kenmore | Kenmore | Kennydale Kant | Kent | Kent | Kent | Kent | Kirkland | Kirkland | Lake City | Lake Lity No.4bacto ¹ | Nortngate | Laurennust Madison Park | Madrona | Magnolia | Mercer Island | Mirror Lake | Mount Baker | Mount Baker Transit Ctr | Mountlake Terrace | Northeast Tacoma | Northgate | Othello Station | Overlake | Overlake Olieen Anne | Queen Anne | Rainier Beach | Rainier Beach | Rainier Beach | Redmond | Redmond | Redmond | Figures rounded for display purposes. | |

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| | | ~ | 40 | 36 | 26 | 5 | 27 | 50 | 28 | | | 47 | 18 | | 42 | 22 | | 13 | 31 | | 53 | 52 | | | _ | 38 | 19 | | 56 | | 24 | | | | | | | |
|---|--|---------------|----------------------------|-------------------------|-------------------------|----------------------------------|--|---------------------------|--------------------------------|--|------------------------------------|---------------------|---------------------------|-----------------|--------------------------|----------------------------|------------------|---------------------------|-----------------------|--------------------------|-------------|-------------------------|---------------------|---------------------|---------------------|---------------------------|--------------------------------------|------------------------------------|---------------|-----------------------------|------------------------------------|-------------|----------|---|--|---|--|------------|
| | INVESTMENT NEED (after subtracting Mar & Sep 2018 investments) | | 3,600 | 6,500 | 6,400 | | 6,900 | 7,400 | 6,500 | - | | 40,900 | 28,400 | | 3,100 | 5,800 | | 3,700 | 15,100 | | 1,300 | 1,600 | | | | 3,600 | 3,700 | | 1,200 | | 12,900 | | 452,600† | | | | | |
| Final Target Service Levels and Family | RESULTING SERVICE FAMILY | Very Frequent | Local | Frequent | Very Frequent | Very Frequent | Very Frequent | Frequent | Frequent | | Very Frequent | Very Frequent | Very Frequent | Frequent | Local | Very Frequent | Very Frequent | Frequent | Frequent | Very Frequent | Local | Local | Very Frequent | Very Frequent | Very Frequent | Hourly | Very Frequent | Local | Local | Very Frequent | Very Frequent | Local | | | | | | |
| ervice Le | THĐIN | 15 | 0 | 30 | 30 | 30 | 30 | 30 | 30 | - | 30 | 30 | 30 | 30 | 0 | 30 | 30 | 30 | 30 | 30 | 0 | 0 | 30 | 15 | 15 | 0 | 15 | 0 | 0 | 15 | 30 | 0 | | et | | get – | | |
| Farget Se | OFFPEAK | 15 | 30 | 30 | 15 | 15 | 15 | 30 | 30 | - | 15 | 15 | 15 | 30 | 30 | 15 | 15 | 30 | 30 | 15 | 30 | 30 | 15 | 15 | 15 | 60 | 15 | 30 | 60 | < 15 | 15 | 30 | | Above Target | At Target | Below Target | | |
| Final ⁻ | PEAK | < 15 | 30 | < 15 | 15 | < 15 | < 15 | 15 | 15 | - | < 15 | < 15 | < 15 | 15 | 30 | 15 | < 15 | 15 | 15 | 15 | 30 | 30 | < 15 | < 15 | < 15 | 60 | < 15 | 30 | 30 | < 15 | < 15 | 30 | | ЧD | | Be | | |
| | ИІСНТ | , | | | | - | | | | | , | | , | | | | | | , | , | | | | 1 | 1 | | 1 | | | | | | | | , co | 5, e. K. | JC | |
| Service Level Improvements | ОЕЕРЕАК | | | , | | | - | | | or | 1 | | | - | - | | 1 | | , | , | | | , | | | | | | | 1 | | | : | owding | triresnoid. Kidersnip service level improvements move the araliminary lavals of service up one or two lavals is a | trie preliminary levels of service up one of two levels, e., a ridorable convice lovel imeranement of 2 denorer a 30 | 2 Urarigus e v 15 atr | 1 LJ, UK. |
| Serv Impro | РЕАК | , | | 1 | | 2 | 1 | | | District via Roosevelt Way NE corridor | 2 | 1 | 1 | 1 | - | - | 2 | | | , | | | - | 1 | 2 | | 2 | | 1 | 2 | 1 | | • | * The average load's proportion to the crowding | | e up une v | a riversinp service lever miprovement or 2 vriange min service to 215 or a 60 min service to 15 atc | . 361 4166 |
| l Night ins | ADD WHAT FREQUENCY NIGHT SERVICE? | 30 | | 30 | 30 | 30 | 30 | 30 | 30 | /elt Way I | 30 | 30 | 30 | 30 | | 30 | 30 | 30 | 30 | 30 | | | 30 | 30 | 30 | | 30 | • | • | 30 | 30 | | | proportio | sel vice iev | S UI SELVICE | vel III pi ov | |
| er Policy-based N Service Additions | CORRIDOR HAS 15 MIN PEAK SERVICE | 30 | | 30 | 30 | 30 | 30 | 30 | 30 | ria Roosev | 30 | 30 | 30 | 30 | | 30 | 30 | 30 | 30 | 30 | | • | 30 | ß | 30 | | 30 | | | 30 | 30 | | | age load's | Havel vorm | nary rever | 0 +0 <12 0 | > >T< >] D |
| Other Policy-based Night Service Additions | PRIMARY CONNECTIONS BETWEEN URBAN CENTERS | 60 | | , | | 60 | - | | | District v | , | | , | - | | | 60 | 60 | , | 60 | | • | 60 | . ; | 60 | | | | | , | • | | | * The aver: | Honoralimi | une prenum s sidorchin | dillucionin min cenvic | 21-12C 11 |
| | NIGHT | | | , | | | - | | | hgate - U | , | | | - | - | | | | | , | | | , | 1 | 1 | | 1 | | , | , | • | | | ц | ~ | - | | |
| Based Service Improvements | OFFPEAK | | | , | | - | - | • | | d by Nort | 1 | | | - | - | | 1 | | | , | | | , | | | | | | | 1 | | | | OffPk | 2 | 1 | | |
| Load-Based Service Level Improvements | PEAK | , | | 1 | | 2 | 1 | | | Connection now served by Northgate - U | 2 | 1 | 1 | 1 | | | 2 | | | , | | | - | - | 2 | | 2 | | 1 | 2 | 1 | | | Peak | 2 | 1 | | |
| inary * | ИІЄНТ | 15% | N/A | 35% | 24% | 48% | 35% | N/A | 23% | nection n | 25% | N/A | N/A | 20% | N/A | 14% | 41% | 10% | N/A | 12% | 20% | N/A | 42% | 66% | 59% | N/A | 73% | N/A | 18% | 50% | 29% | 14% | | | | _ | | |
| Loads at Preliminary Service Level * | OFFPEAK | 27% | 3% | 41% | 14% | 25% | 38% | 4% | 32% | Con | 57% | N/A | N/A | 37% | 16% | 22% | 56% | 21% | 15% | 15% | 12% | 7% | 45% | 41% | 39% | N/A | 45% | 26% | 14% | 62% | 20% | 13% | | Ridership* | 110% | 55% | | |
| Loads Ser | ЪЕФК | 22% | 29% | 62% | 20% | 138% | 61% | 2% | 26% | | 251% | 20% | 64% | 104% | %6 | 24% | 137% | 13% | 6% | 27% | 27% | 17% | 96% | 63% | 112% | 24% | 137% | 19% | 103% | 114% | 57% | 19% | | r | | | | |
| | ЭТООЯ ЯОІАМ | F Line | 143/907 | 107 | 105 | 101/102 | 106 | 908 | 348 | | 62 | 74 | 373 | 5 | 330 | 345 | 255 | 156 | 906 | 124 | 187 | 903 | 271 | 49 | 70 | 931 | 372 | 238 | 118 | C Line | 125 | 236 | | | | | | |
| Connections | VIA | S 154th St | Maple Valley | West Hill, Rainier View | NE 4th St, Union Ave NE | Martin Luther King Jr Way S, I-5 | Skyway, Martin Luther King Jr Way S S. Beacon Hill | NE 7th St, Edmonds Ave NE | Richmond Beach Rd, 15th Ave NE | University Way | View Ridge, NE 65th St, Cowen Park | NE 55th St | Jackson Park, 15th Ave NE | Greenwood Ave N | N 155th St, Jackson Park | N 130th St, Meridian Ave N | Kirkland, SR-520 | McMicken Heights, Sea-Tac | S 180th St, Carr Road | Pacific Hwy S, 4th Ave S | S 320th St | SW Campus Dr, 1st Ave S | SR-520 | Broadway | Eastlake, Fairview | Woodinville, Cottage Lake | Kenmore, Lake Forest Park, Lake City | 132nd Ave NE, Lake Washington Tech | Valley Center | Fauntleroy, Alaska Junction | 16th Ave SW, South Seattle College | Kingsgate | | | Corridor was truncated. Demand-response service in place between Black Diamond and Enumclaw. | | | |
| | AND | Burien | Black Diamond ¹ | Beacon Hill | Renton Highlands | Seattle CBD | Seattle CBD | Renton | Northgate | UW | Fremont ² | University District | Univeristy District | Greenwood | Lake City | Northgate | Seattle CBD | Des Moines | Fairwood | Seattle CBD | Federal Way | Federal Way | Bellevue | Seattle CBD | Seattle CBD | Redmond | University District | Kirkland | Tahlequah | Seattle CBD | Seattle CBD | Kirkland | | / purposes. | Demand-response service in p | ² Corridor was extended from Cowen Park to Fremont. | | |
| | BETWEEN | Renton | Renton | Renton | Renton | Renton | Renton | Renton Highlands | Richmond Beach | Roosevelt | Sand Point | Sand Point | Shoreline | Shoreline CC | Shoreline CC | Shoreline CC | Totem Lake | Tukwila | Tukwila | Tukwila | Twin Lakes | Twin Lakes | University District | University District | University District | UW Bothell | UW Bothell | UW Bothell/CCC | Vashon | West Seattle | White Center | Woodinville | | Figures rounded for display purposes. | Corridor was truncated. L | ² Corridor was extended fro | | |

+ The two corridors served by route 50 have identical investment needs. This total is therefore not the sum of all values in this column.

Appendix J: Investment Needs

Priority 1 - Crowding

| Route | Daily One-way Trips Needed | Hours |
|-----------|----------------------------|-------|
| 5 | 1 | 400 |
| 14 | 1 | 200 |
| 15X | 2 | 800 |
| 17X & 18X | 1 | 400 |
| 33 | 1 | 200 |
| 50 | 1 | 400 |
| 102 | 2 | 900 |
| 111 | 1 | 700 |
| 120 | 1 | 300 |
| 123 | 1 | 300 |
| 216 | 1 | 600 |
| 218 | 1 | 400 |
| 219 | 1 | 400 |
| 252 | 1 | 300 |
| 301 | 1 | 400 |
| 312 | 1 | 400 |
| C Line | 3 | 700 |
| | | 7,800 |

Special note: In this report, routes 17 and 18 are identified as needing one trip between the two of them to relieve crowding, as the routes work together to carry riders between Ballard and downtown Seattle. However, service additions planned for these routes in September 2018 may be enough to relieve that crowding. If future analysis finds this to be the case, we will not consider these routes for additional Priority 1 investment.

Priority 2 - Reliability

| Route | Hours | Route | Hours |
|--------|-------|--------|--------|
| 1 | 50 | 150 | 100 |
| 5 & 5X | 750 | 157 | 300 |
| 8 | 550 | 158 | 400 |
| 11 | 150 | 159 | 250 |
| 17X | 250 | 166 | 50 |
| 18X | 250 | 168 | 50 |
| 21 | 550 | 169 | 50 |
| 24 | 300 | 177 | 300 |
| 26X | 450 | 178 | 400 |
| 27 | 100 | 179 | 800 |
| 28X | 150 | 182 | 50 |
| 33 | 50 | 190 | 400 |
| 37 | 250 | 192 | 250 |
| 40 | 1,000 | 208 | 250 |
| 56 | 250 | 212 | 400 |
| 62 | 1,300 | 214 | 250 |
| 63 | 400 | 216 | 700 |
| 64 | 250 | 218 | 250 |
| 105 | 250 | 219 | 700 |
| 106 | 800 | 235 | 250 |
| 107 | 600 | 236 | 50 |
| 111 | 250 | 238 | 50 |
| 113 | 250 | 240 | 250 |
| 114 | 250 | 244 | 300 |
| 116 | 250 | 249 | 100 |
| 122 | 250 | 268 | 250 |
| 123 | 250 | 355 | 400 |
| 124 | 50 | E Line | 400 |
| 131 | 350 | | 19,250 |
| 132 | 100 | | |
| 143 | 500 | | |
| 148 | 50 | | |

Priority 3 - Service Growth

Connections

| Connections Between | And | Via | Major Route | Hours | Priority |
|------------------------|---------------------|---|-------------|--------|----------|
| Northgate | Seattle CBD | Green Lake, Wallingford | 26X | 13,200 | 1 |
| Aurora Village | Seattle CBD | Aurora Ave N | E Line | 4,700 | 2 |
| Burien | Seattle CBD | 1st Ave S, South Park | 131 | 8,600 | 3 |
| Kent | Seattle CBD | Tukwila | 150 | 6,600 | 4 |
| Redmond | Totem Lake | Willows Road | 930 | 9,400 | 5 |
| Kent | Renton | 84th Ave S, Lind Ave SW | 153 | 16,300 | 6 |
| Auburn/GRCC | Federal Way | 15th St SW, Lea Hill Rd | 181 | 2,300 | 7 |
| Federal Way | Kent | Military Road S | 183 | 4,900 | 8 |
| Issaquah | Overlake | Sammamish, Bear Creek | 269 | 14,000 | 9 |
| Tukwila | Des Moines | McMicken Heights, Sea-Tac | 156 | 3,700 | 10 |
| Madison Park | Seattle CBD | Madison St | 11 | 3,400 | 11 |
| Magnolia | Seattle CBD | 34th Ae W, 28th Ave W | 24 | 11,300 | 12 |
| Capitol Hill | White Center | South Park, Georgetown, Beacon Hill, First Hill | 60 | 7,800 | 13 |
| Burien | Seattle CBD | Des Moines Mem Dr S, South Park | 132 | 16,000 | 14 |
| Shoreline | Univeristy District | Jackson Park, 15th Ave NE | 373 | 28,400 | 15 |
| UW Bothell | University District | Kenmore, Lake Forest Park, Lake City | 372 | 3,700 | 16 |
| Eastgate | Bellevue | Newport Way, S. Bellevue, Beaux Arts | 241 | 5,300 | 17 |
| Alki | SODO Station | Alaska Junction | 50 | 14,200 | 18 |
| Shoreline CC | Northgate | N 130th St, Meridian Ave N | 345 | 5,800 | 19 |
| Overlake | Bellevue | Sammamish Viewpoint, Northup Way | 249 | 11,100 | 20 |
| White Center | Seattle CBD | 16th Ave SW, South Seattle College | 125 | 12,900 | 21 |
| Aurora Village | Northgate | Meridian Ave N | 346 | 9,300 | 22 |
| Renton | Renton Highlands | NE 4th St, Union Ave NE | 105 | 6,400 | 23 |
| Renton | Seattle CBD | Skyway, Martin Luther King Jr Way S S. Beacon Hill | 106 | 6,900 | 24 |
| Richmond Beach | Northgate | Richmond Beach Rd, 15th Ave NE | 348 | 6,500 | 25 |
| Avondale | Kirkland | NE 85th St, Redmond Way, Avondale Rd NE | 248 | 4,300 | 26 |
| Tukwila | Fairwood | S 180th St, Carr Road | 906 | 15,100 | 27 |
| Admiral District | Southcenter | California Ave SW, Military Rd, TIBS | 128 | 9,500 | 28 |
| Green River CC | Kent | 132nd Ave SE | 164 | 5,900 | 29 |
| Fairwood | Renton | S Puget Dr, Royal Hills | 148 | 5,200 | 30 |
| Kent | Burien | Kent-DM Rd, S. 240th St, 1st Ave S | 166 | 6,000 | 31 |
| Renton | Beacon Hill | West Hill, Rainier View | 107 | 6,500 | 32 |
| Redmond | Duvall | Avondale Rd NE | 224 | 7,600 | 33 |
| UW Bothell | Redmond | Woodinville, Cottage Lake | 931 | 3,600 | 34 |

Investment Needs, Priority 3 - Service Growth continued

- -

| Connections Between | And | Via | Major Route | Hours | Priority |
|------------------------|---------------------|--|-------------|---------|----------|
| Enumclaw | | | 186/915 | | 35 |
| | Auburn | Auburn Way S, SR 164 | | 3,500 | |
| Renton | Black Diamond | Maple Valley | 143/907 | 3,600 | 36 |
| Issaquah | North Bend | Fall City, Snoqualmie | 208 | 10,200 | 37 |
| Shoreline CC | Lake City | N 155th St, Jackson Park | 330 | 3,100 | 38 |
| Kenmore | Shoreline | Lake Forest Park, Aurora Village TC | 331 | 9,800 | 39 |
| Colman Park | Seattle CBD | Leschi, Yesler Way | 27 | 9,300 | 40 |
| Mount Baker | Seattle CBD | 31st Ave S, S Jackson St | 14 | 9,100 | 41 |
| Discovery Park | Seattle CBD | Gilman Ave W, 22nd Ave W, Thorndyke Ave W | 33 | 3,900 | 42 |
| Sand Point | University District | NE 55th St | 74 | 40,900 | 43 |
| Overlake | Bellevue | Bell-Red Road | 226 | 14,000 | 44 |
| Eastgate | Bellevue | Somerset, Factoria, Woodridge | 246 | 15,200 | 45 |
| Renton Highlands | Renton | NE 7th St, Edmonds Ave NE | 908 | 7,400 | 46 |
| Othello Station | SODO Station | Columbia City Station | 50 | 14,200 | 47 |
| Twin Lakes | Federal Way | SW Campus Dr, 1st Ave S | 903 | 1,600 | 48 |
| Twin Lakes | Federal Way | S 320th St | 187 | 1,300 | 49 |
| Northeast Tacoma | Federal Way | SW 356th St, 9th Ave S | 182 | 2,300 | 50 |
| Auburn | Pacific | Algona | 917 | 3,100 | 51 |
| Vashon | Tahlequah | Valley Center | 118 | 1,200 | 52 |
| Kenmore | Totem Lake | Finn Hill, Juanita | - | 9,500 | 53 |
| Kennydale | Renton | Edmonds Ave NE | - | 7,200 | 54 |
| | | | | 452,600 | |

The two corridors served by Route 50 have identical investment needs. The sum of all hours shown here is therefore greater than the total shown at the bottom.



Department of Transportation Metro Transit Division

King Street Center, KSC-TR-0415 201 S. Jackson St Seattle, WA 98104

206-553-3000 TTY Relay: 711 www.kingcounty.gov/metro