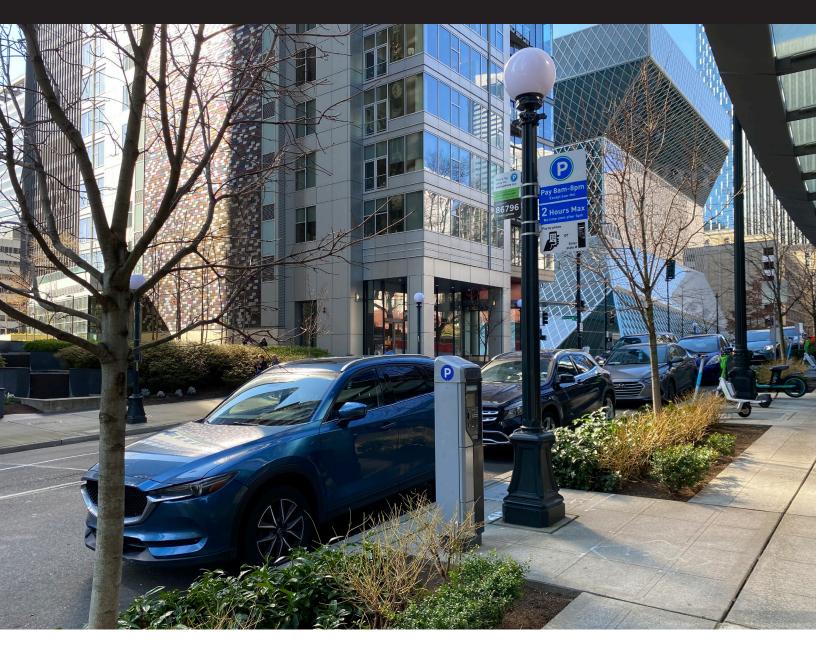
Seattle Department of Transportation 2022 PAID PARKING ANNUAL REPORT



Using Parking Data to Manage Demand and Provide Reliable Access for Seattle's business districts





Our performance-based approach to parking

The Seattle Department of Transportation (SDOT) uses data driven decisions to achieve performance-based outcomes in paid parking areas. For trips made by car, it is critical that drivers reliably find parking spaces in high demand areas. This reduces how much time drivers spend circling for parking, which also provides other important benefits:

- Decreases greenhouse gas emissions Less circling means fewer emissions
- Saves people time Time spent looking for parking is wasteful
- Improves safety for pedestrians and cyclists

 Drivers circling for parking are often distracted drivers
- **Reduces congestion** Drivers circling for parking contribute to congestion and less congestion means faster, more reliable transit
- Improves neighborhood commercial vitality and access – People can more reliably access commercial, retail areas

Consistent and reliable access to parking doesn't have to mean more driving – increasing parking supply means more driving. We simply try to do a good job of managing our limited supply of existing parking with price signals so that the transportation system works better for everyone, even those who never drive.

To manage demand of our parking supply as effectively as possible, we use a data-driven approach to find the lowest hourly rate that leaves at least one or two parking spaces available on every blockface throughout the day. This data also helps us evaluate expanding paid parking to improve access to nearby blocks or other neighborhood business districts that are experiencing high demand at the curb. Our rate-setting process changed significantly in 2020 due to the emergence of the COVID-19 pandemic. In years prior, we would gather parking occupancy data in the spring in all paid parking areas to adjust rates by area and time of day in the upcoming fall. We would generally lower rates in areas and at times of day where there are fewer cars parked and increase rates when blocks are overly full. In areas and at times of day where there are one to two available spaces per blockface, we considered the area and time period to be in target and no changes were required. At that time our rates ranged from \$0.50 up to \$5.00 per hour.

During the first months of the pandemic paid parking areas were made free. When paid parking was reinstated in mid-July 2020, all areas started at \$0.50 per hour, our lowest rate. To go back to an annual rate change in increments of \$0.50 would not, we believed, be adequate to address rapidly growing congestion in some areas, and so starting in 2020, the Curbside Team has worked on an enhanced data-driven system for making triannual, instead of yearly, paid rate adjustments. We also developed a new method for collecting occupancy data to support these adjustments. Our philosophy on rate setting has remained unchanged; we raise rates where occupancy is over target, lower them where they are under target, and leave them the same in areas that are in the target range.

Our paid parking management

The data we gather allows us to monitor how well we are achieving our goal of making it easy to quickly find a parking space. It also helps us determine when and where we use paid parking as part of our curbspace management toolkit. City policy, as specified in the Seattle Municipal Code, states that rates and hours of operation should be set so that one to two spaces per blockface are open and available throughout the day. Since 2011, SDOT has made hundreds of different rate and hours of operations changes.

The bottom-line measure of our performance is the average level of use and availability. In other words, on average, is on-street parking wellutilized and are drivers able to find a parking space?

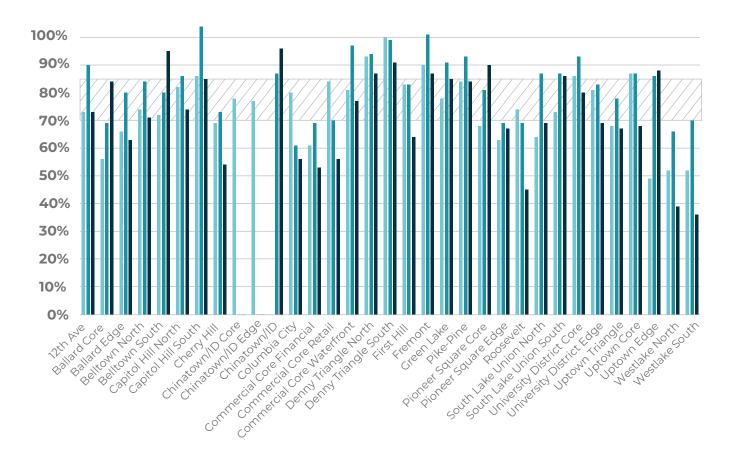
This chart shows the average occupancy baseline of 2021 compared to 2022. This presents the average over the day so hides the peaks and valleys that may be present – which is why SDOT sets rates by morning, afternoon and evening data. For the Ballard Locks area, we adjust the rates on a seasonal basis, because of the significant difference between summer and winter parking activity.

Please note that the two paid areas in Chinatown/ID were merged in 2022. While both reviewing data and working with the community, SDOT decided to manage this as one area, no longer split between Core and Edge as in previous years. The neighborhood paid area charts later in the report will reflect the one rate change we made while this paid area still had 'Edge' and 'Core' rates. The two subsequent rate changes will be reflected in a separate chart after it was merged.



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Oct. 2022
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AVERAGE OCCUPANCY BY PAID AREA 2022



Our data-driven approach

Data collection and analytics

In 2022 the Curbside Management team continued to build on more sophisticated data analytical methods, with the help of our consulting team. Using a hybrid data model, which uses paid parking transaction volume data, historical occupancy data, newly developed algorithms, and ground truth data collection, SDOT can remain flexible with rates as we continue to emerge and recover from the COVID-19 pandemic.

This report summarizes the 2022 data used to recommend parking management changes. Historic parking study data sets are available online at data.seattle.gov (search for Annual Paid Parking Study, with study data currently available from 2012-2019).

How we adjust rates post COVID-19

Seattle's neighborhoods with paid parking total about 11,100 spaces and range in size between 50 spaces in a smaller area to over 1,000 spaces in others. Since 2015, SDOT has adjusted rates by the time of day to account for different demand levels:

- Morning 8 am -11 am
- Afternoon 11 am 5 pm/6 pm
- Evening 5 pm 8 pm/10 pm

Our target occupancy is between 70% and 85% for each time period in each area. That means we set rates to achieve a performance goal of one or two spaces being open and available per blockface throughout the day. For each area time period, we use the following rules to adjust rates:

- If occupancy is over 85%, increase rate by \$0.50/hour, if over 100%, increase rate by \$1.00/hour
- If occupancy is between 70% and 85%, rates do not change
- If occupancy is below 70%, decrease rate by \$0.50/hour

Rates cannot go below \$0.50/hour or above \$5.00/ hour (as currently defined in the Seattle Municipal Code).

When and where to use pricing

Managing curbspace with paid parking helps to create availability in high-demand commercial areas. Over time, following the same data-driven approach, SDOT has analyzed whether to expand paid parking blocks in commercial neighborhoods or extend hours later into the evening to better ensure reliable access and available parking spaces as people visit restaurants, theaters, shops, and other attractions. This is consistent with the Seattle Municipal Code.

Paid area management changes

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In 2022 SDOT made three rate adjustments, affecting 29 paid areas. These changes are summarized in the following maps and tables, followed by detailed information for each of the 32 areas:

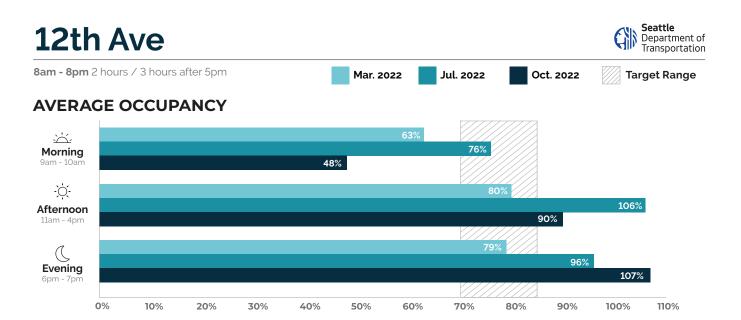
	New	March 2022	Rates	New	July 2022 F	Rates	Nev	v Oct 2022 R	ates
Paid Parking Area	AM	Afternoon	PM	AM	Afternoon	PM	AM	Afternoon	PM
12th Avenue	\$0.50	\$0.50	\$1.00	\$0.50	\$1.50	\$1.50	\$0.50	\$2.00	\$2.50
Ballard Core	\$0.50	\$1.00	\$0.50	\$0.50	\$1.50	\$1.00	\$0.50	\$2.50	\$2.00
Ballard Edge	\$0.50	\$0.50	\$0.50	\$0.50	\$1.00	\$1.50	\$0.50	\$1.00	\$1.50
Ballard Locks (summer rates May 1-Oct 1)	\$0.50	\$0.50	NA	\$0.50	\$1.50	\$1.50	\$0.50	\$0.50	NA
Belltown North	\$0.50	\$1.00	\$0.50	\$0.50	\$1.50	\$1.00	\$0.50	\$1.50	\$1.00
Belltown South	\$0.50	\$2.50	\$0.50	\$0.50	\$3.00	\$0.50	\$0.50	\$4.00	\$1.50
Capitol Hill North	\$0.50	\$1.00	\$1.00	\$0.50	\$2.00	\$1.50	\$0.50	\$2.50	\$2.00
Capitol Hill South	\$0.50	\$1.00	\$1.50	\$0.50	\$2.00	\$2.50	\$0.50	\$2.50	\$3.50
Cherry Hill	\$0.50	\$1.00	\$0.50	\$0.50	\$1.50	\$0.50	\$0.50	\$1.50	\$0.50
Chinatown/ID Core (Merged to one area in July)	\$0.50	\$1.50	\$1.00	\$0.50	\$2.50	\$2.00	\$0.50	\$3.50	\$3.00
Chinatown/ID Edge	\$0.50	\$1.50	\$1.00	NA	NA	NA	NA	NA	NA
Columbia City	\$0.50	\$2.00	\$1.50	\$0.50	\$2.00	\$1.50	\$0.50	\$1.50	\$2.00
Commercial Core Financial	\$1.00	\$2.00	\$0.50	\$1.50	\$3.00	\$0.50	\$1.00	\$3.00	\$0.50
Commercial Core Retail	\$1.00	\$1.50	\$0.50	\$0.50	\$2.50	\$0.50	\$0.50	\$2.50	\$0.50
Commercial Core Waterfront	\$1.00	\$1.00	\$0.50	\$1.00	\$2.00	\$1.50	\$0.50	\$2.50	\$1.50
Denny Triangle North	\$0.50	\$2.50	NA	\$0.50	\$3.50	NA	\$0.50	\$4.00	NA
Denny Triangle South	\$0.50	\$3.00	\$1.50	\$0.50	\$4.00	\$2.50	\$0.50	\$5.00	\$3.50
First Hill	\$2.00	\$2.00	\$1.50	\$2.00	\$2.50	\$2.50	\$1.50	\$2.50	\$2.00
Fremont	\$0.50	\$2.00	\$1.50	\$0.50	\$3.00	\$2.50	\$0.50	\$4.00	\$3.50
Green Lake	\$0.50	\$1.50	\$0.50	\$1.00	\$2.50	\$1.50	\$1.00	\$3.50	\$2.00
Pike-Pine	\$0.50	\$1.00	\$1.50	\$0.50	\$1.50	\$2.50	\$0.50	\$2.00	\$3.50
Pioneer Square Core	\$0.50	\$1.50	NA	\$0.50	\$2.00	NA	\$1.00	\$3.00	NA
Pioneer Square Edge	\$0.50	\$1.00	NA	\$0.50	\$1.00	NA	\$0.50	\$1.00	NA
Roosevelt	\$0.50	\$1.50	\$0.50	\$0.50	\$2.00	\$0.50	\$0.50	\$1.50	\$0.50
South Lake Union Nouth	\$0.50	\$0.50	NA	\$1.00	\$1.50	NA	\$1.00	\$2.00	NA
South Lake Union South	\$1.50	\$1.50	NA	\$1.50	\$2.00	NA	\$1.50	\$2.50	NA
University District Core	\$0.50	\$2.00	\$1.00	\$0.50	\$3.00	\$1.50	\$0.50	\$3.50	\$1.50
University District Edge	\$0.50	\$1.00	NA	\$0.50	\$1.50	NA	\$0.50	\$1.50	NA
Uptown Core	\$0.50	\$0.50	\$0.50	\$0.50	\$1.00	\$1.00	\$0.50	\$1.00	\$1.00
Uptown Edge	\$0.50	\$1.50	\$1.00	\$0.50	\$2.00	\$2.00	\$0.50	\$2.00	\$2.00
Uptown Triangle	\$0.50	\$0.50	NA	\$0.50	\$1.50	NA	\$1.00	\$2.50	NA
Westlake Ave N North	\$0.50	\$0.50	NA	\$0.50	\$0.50	NA	\$0.50	\$0.50	NA
Westlake Ave N South	\$0.50	\$0.50	NA	\$0.50	\$0.50	NA	\$0.50	\$0.50	NA

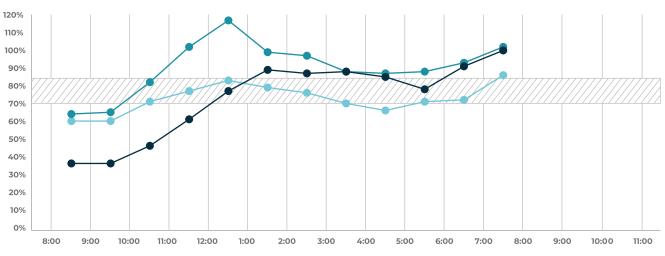
Occupancy below 70%; Rate decrease

Occupancy above 85%; \$0.50 rate increase

Occupancy above 100%; Rate \$1 increase

N/A Paid parking ends at 6 PM

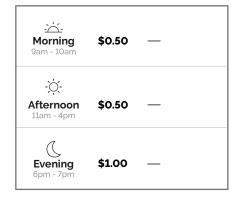


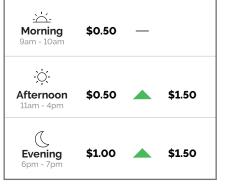


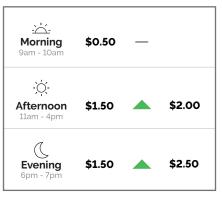
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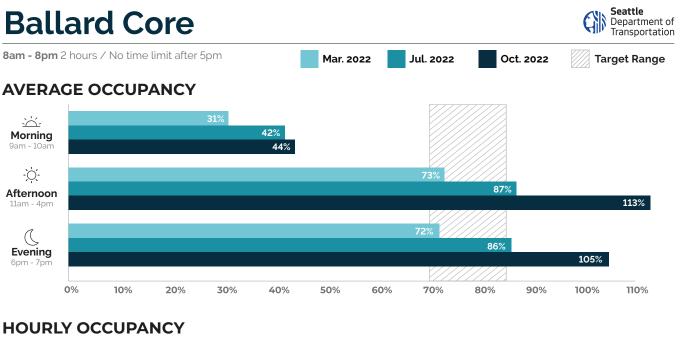


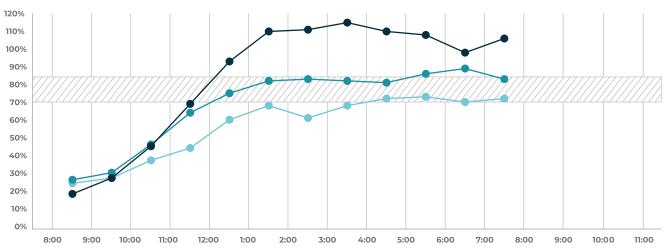




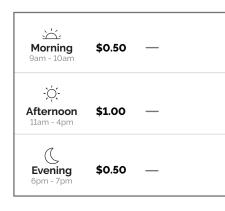












Jul. 2022

\$0.50

\$1.00

\$0.50

\$1.50

\$1.00

<u>بُ</u>

Morning

9am - 10am

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Afternoon

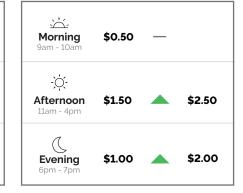
11am - 4pm

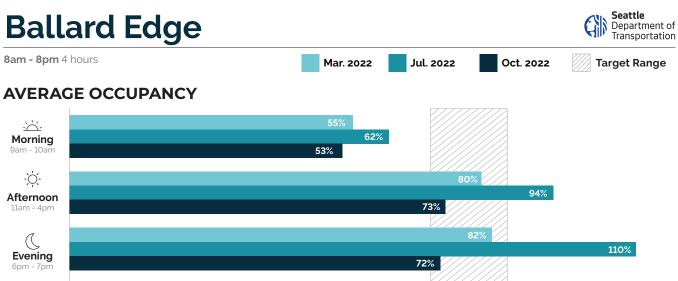
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Evening

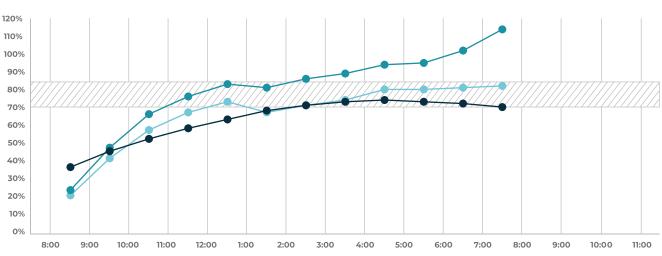
6pm - 7pm





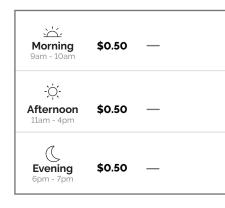






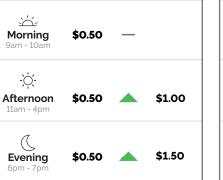
RATE HISTORY

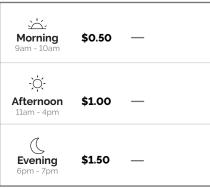




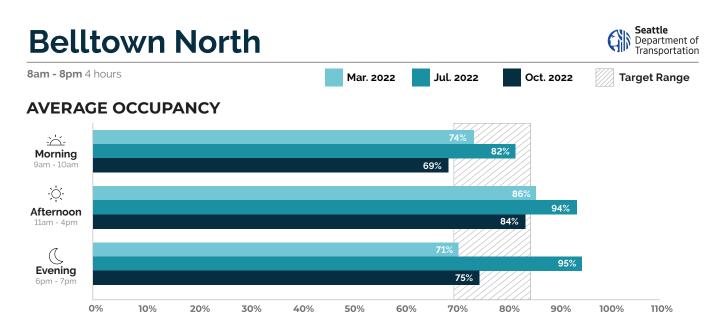
Jul. 2022

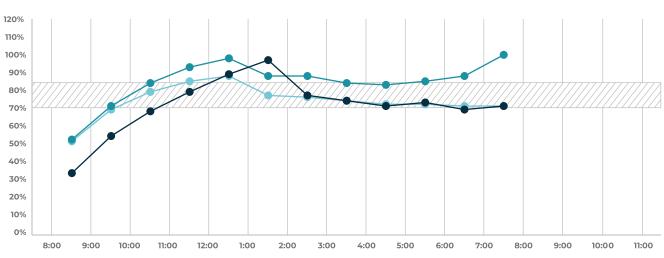
Oct. 2022





2022 Paid Parking Annual Report | 9







<u>بُ</u>کْ

Morning

9am - 10am

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Afternoon

11am - 4pm

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Evening

6pm - 7pm



\$0.50

\$0.50

\$0.50



<u>بُ</u>ک Morning

9am - 10am

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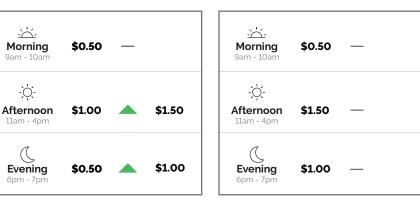
11am - 4pm

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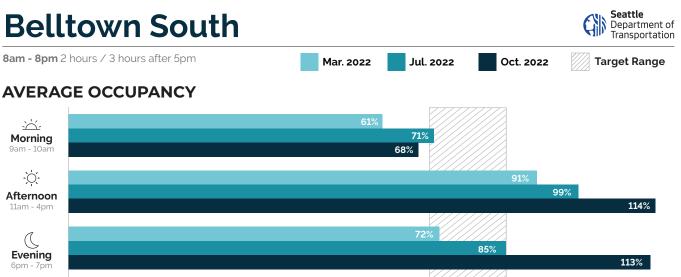
Evening

6pm - 7pm

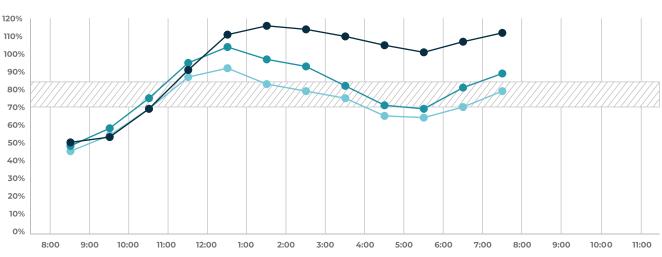
Oct. 2022



\$1.00

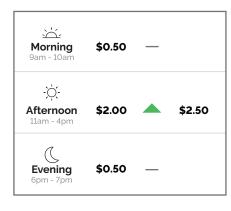






RATE HISTORY





Jul. 2022

\$0.50

\$2.50

\$0.50

\$3.00

<u>کے</u> Morning

9am - 10am

-Ò

Afternoon

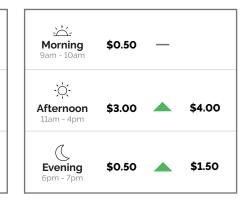
11am - 4pm

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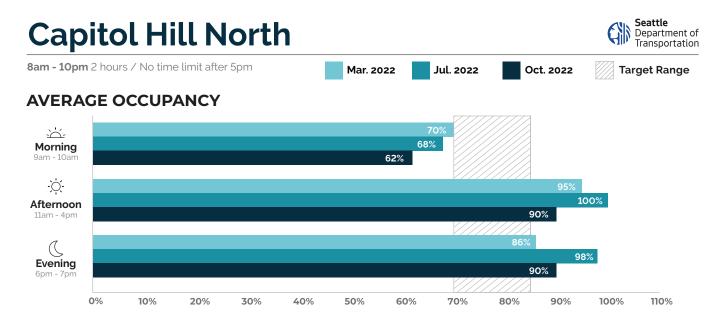
Evening

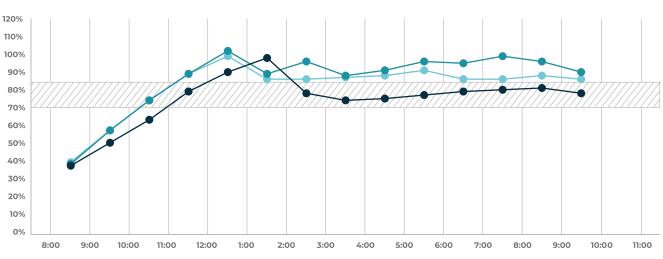
6pm - 7pm





2022 Paid Parking Annual Report | 11

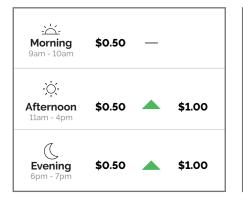


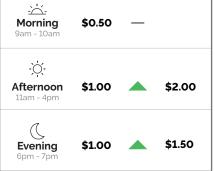


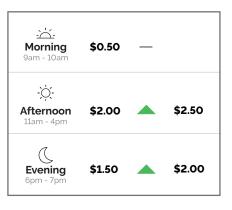


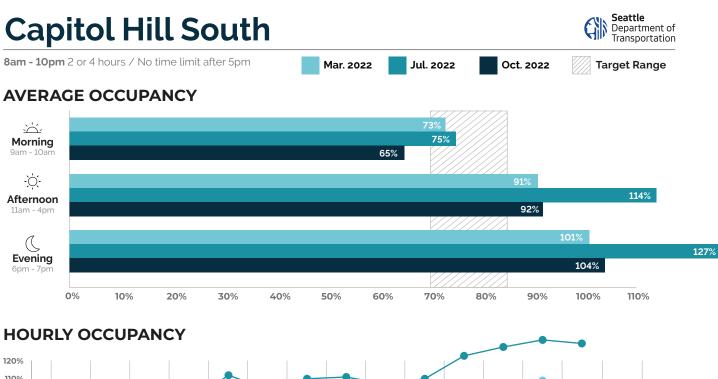


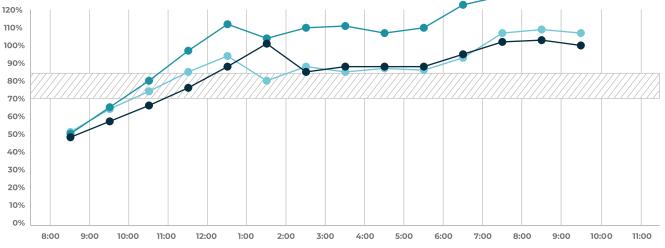






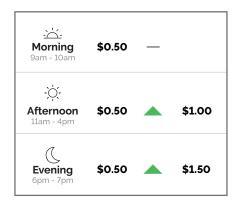












Jul. 2022

\$0.50

\$1.00

\$1.50

\$2.00

\$2.50

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Morning

9am - 10am

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Afternoon

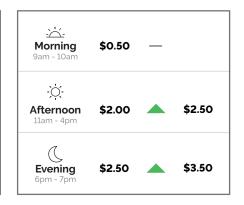
11am - 4pm

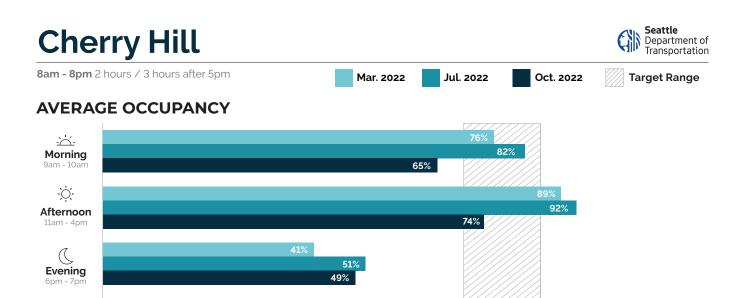
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Evening

6pm - 7pm









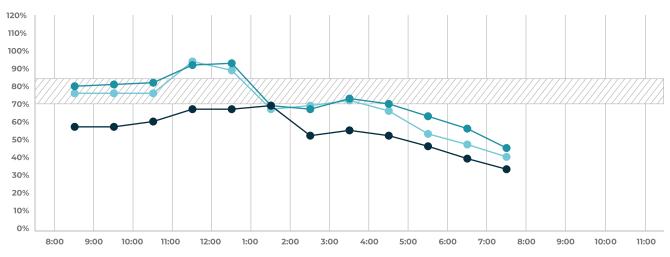
10%

20%

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60%

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80%

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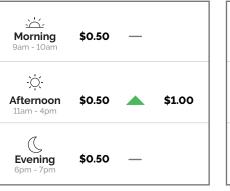
100%

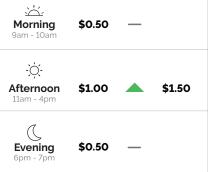
110%

RATE HISTORY









Morning 9am - 10am	\$0.50	_
-Ò- Afternoon 11am - 4pm	\$1.50	_
Evening 6pm - 7pm	\$0.50	_

Chinatown/ID Core

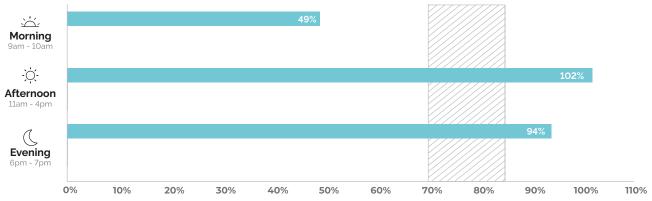
8am - 8pm 2 hours / No time limit after 5pm



Target Range

Mar. 2022

AVERAGE OCCUPANCY

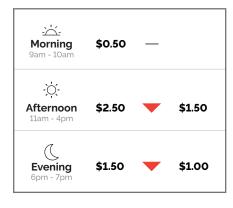


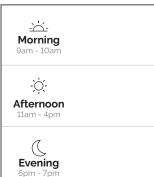
120% 110% 100% 90% 80% 70% 60% 50% 40% 30% 20% 10% 0% 8:00 9:00 10:00 11:00 12:00 1:00 2:00 3:00 4:00 5:00 6:00 7:00 8:00 9:00 10:00 11:00

HOURLY OCCUPANCY

RATE HISTORY

Mar. 2022





بکے۔ Morning 9am - 10am	
-Ò- Afternoon 11am - 4pm	
Evening 6pm - 7pm	

Chinatown/ID Edge

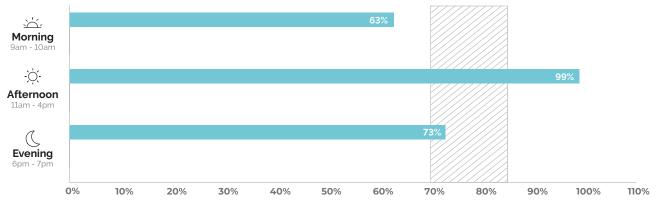
8am - 8pm 2 hours



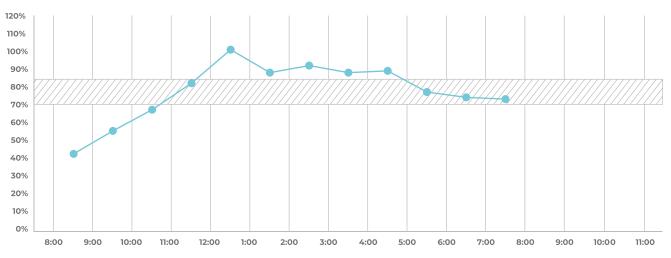
Target Range

Mar. 2022

AVERAGE OCCUPANCY

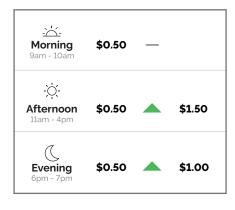


HOURLY OCCUPANCY

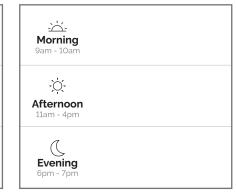


RATE HISTORY

Mar. 2022







Chinatown/ID

8am - 8pm 2 hours / No time limit after 5pm



Oct. 2022

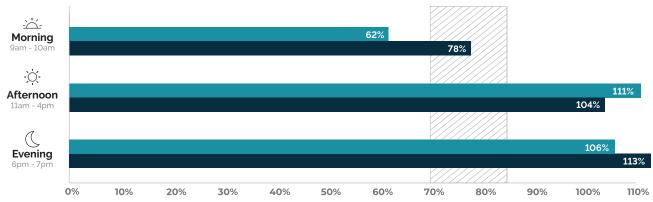
Jul. 2022

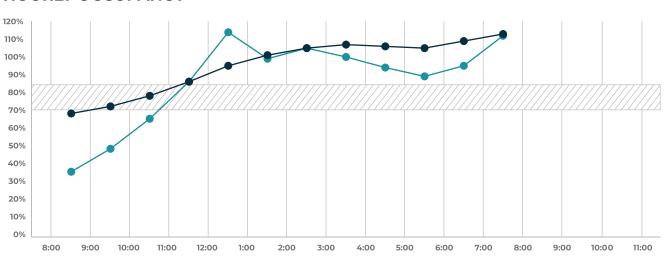
Department of Transportation

Target Range

Seattle

AVERAGE OCCUPANCY

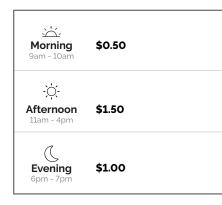




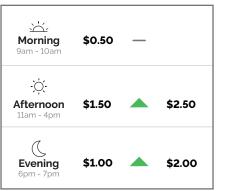
HOURLY OCCUPANCY

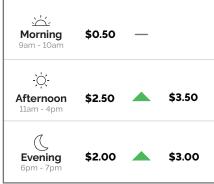
RATE HISTORY

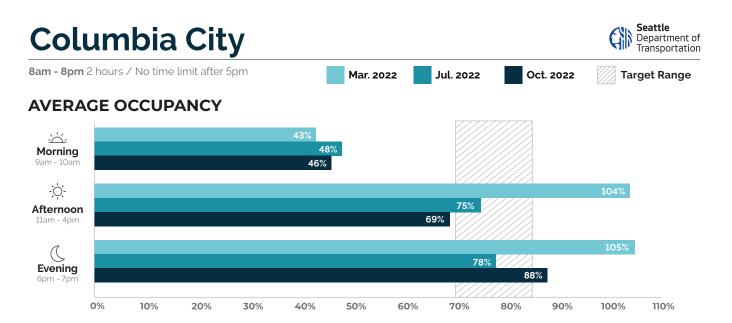
Mar. 2022*

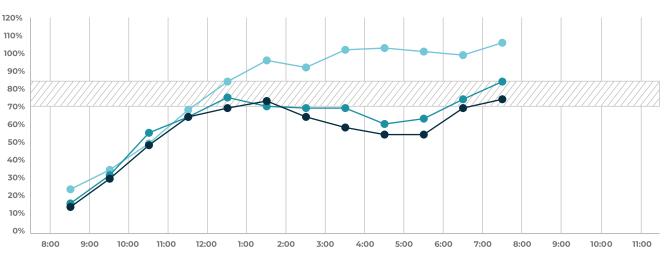


Jul. 2022



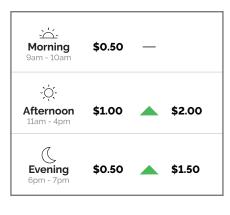








Mar. 2022



Jul. 2022

\$0.50

\$2.00

\$1.50

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Morning

9am - 10am

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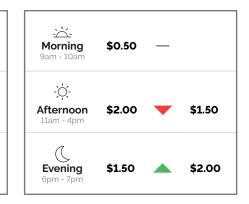
Afternoon

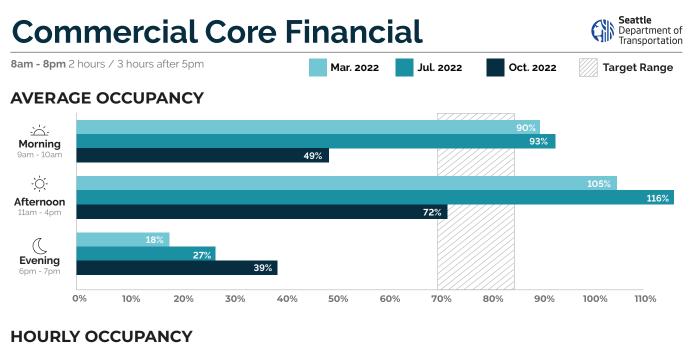
11am - 4pm

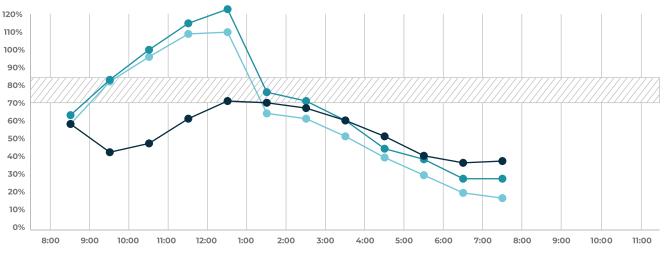
Evening

6pm - 7pm

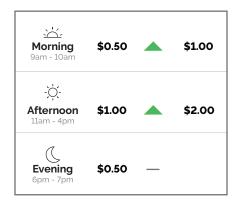












Jul. 2022

\$1.00

\$2.00

\$0.50

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Morning

9am - 10am

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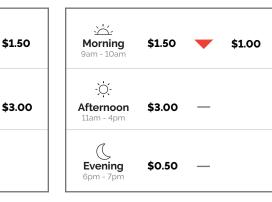
Afternoon

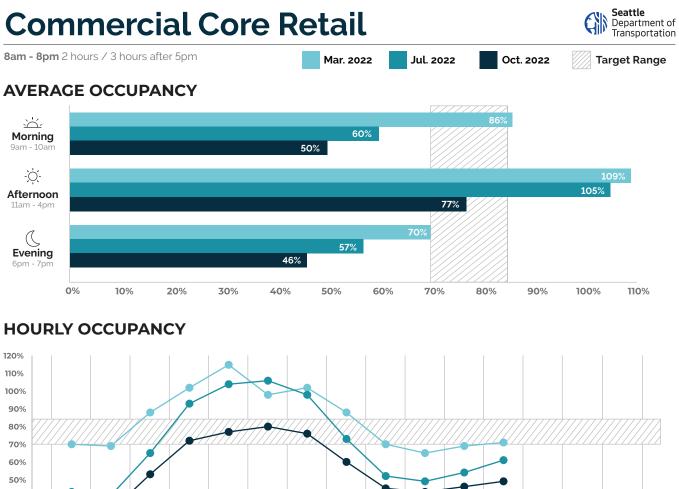
11am - 4pm

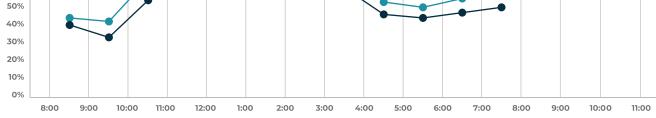
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Evening

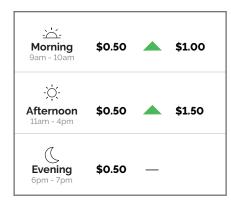
6pm - 7pm











Jul. 2022

\$1.00

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\$2.50

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Morning

9am - 10am

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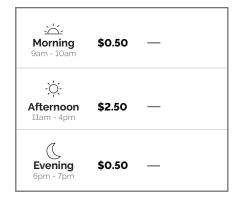
Afternoon

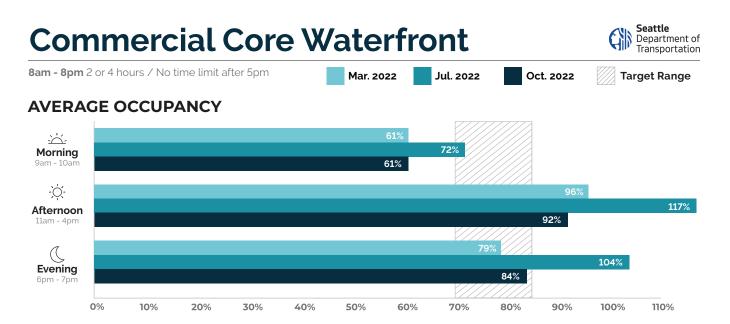
11am - 4pm

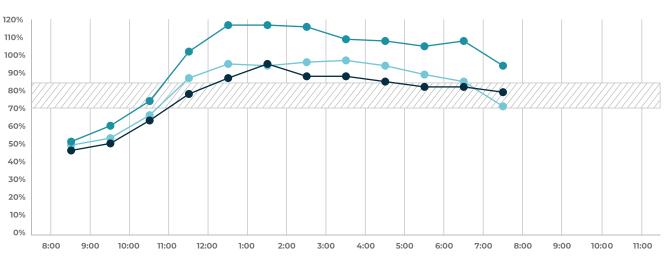
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Evening

6pm - 7pm

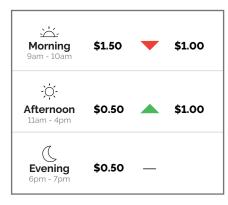












Jul. 2022

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\$1.00

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Morning

9am - 10am

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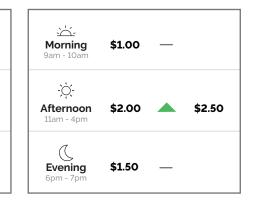
Afternoon

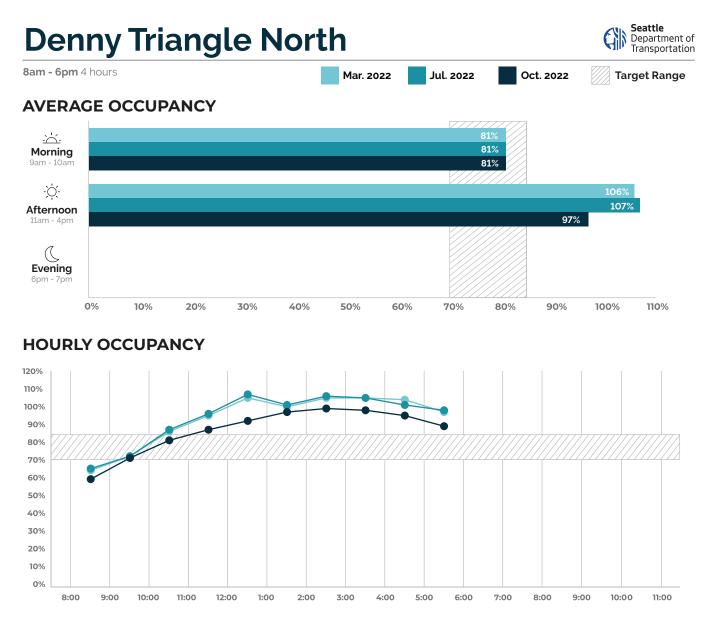
11am - 4pm

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Evening

6pm - 7pm





<u>بُ</u>کْ

Morning

9am - 10am

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Afternoon

11am - 4pm

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Evening

6pm - 7pm



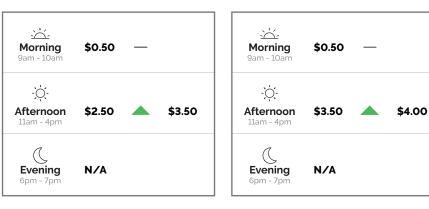
\$0.50

\$1.50

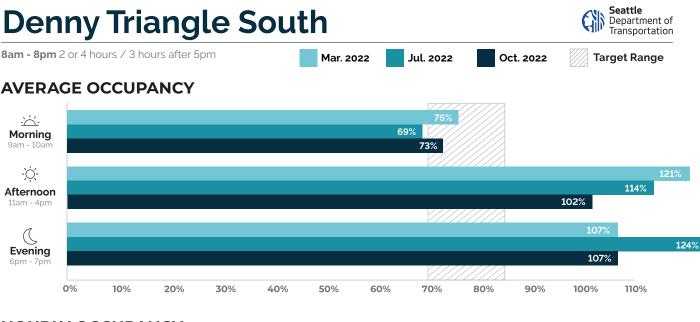
N/A

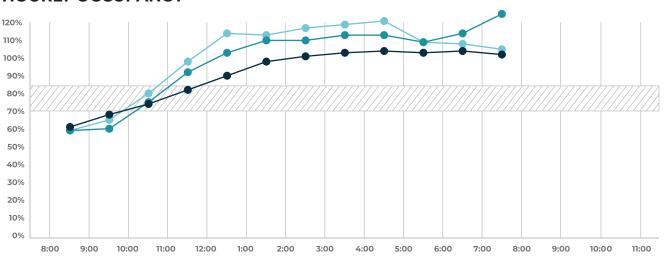


Oct. 2022



\$2.50





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Morning

9am - 10an

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Afternoon

11am - 4pm

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Evening 6pm - 7pm



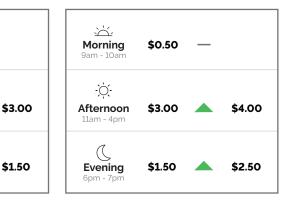
\$0.50

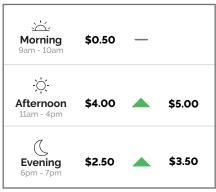
\$2.00

\$0.50

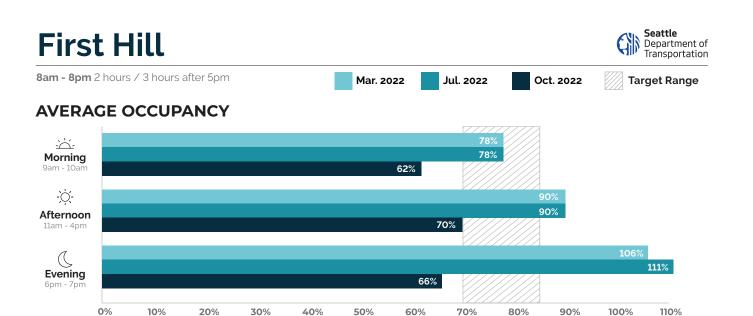


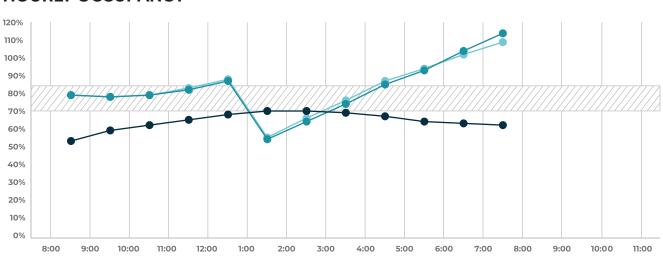
Oct. 2022





HOURLY OCCUPANCY





RATE HISTORY

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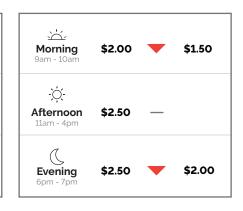
\$2.00

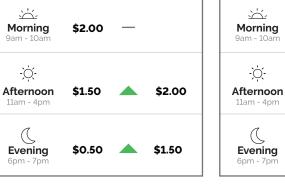
\$2.00

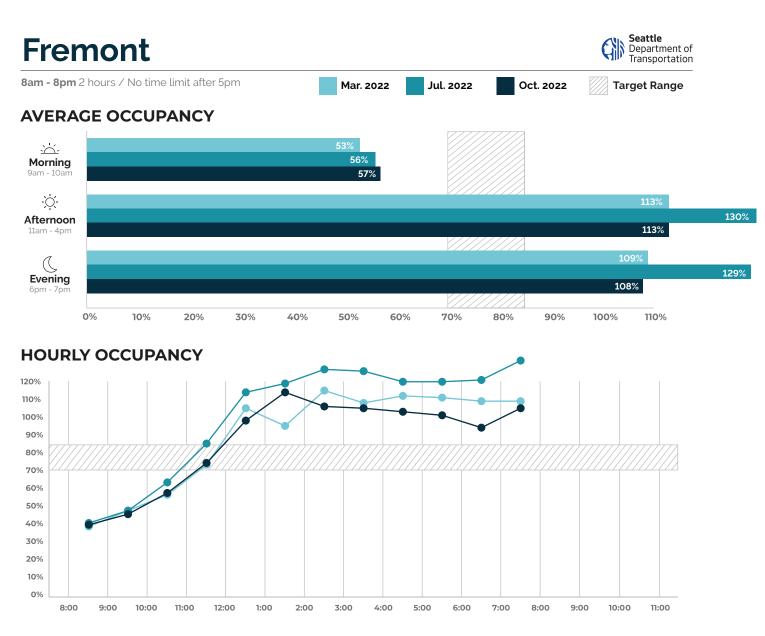
\$1.50

\$2.50

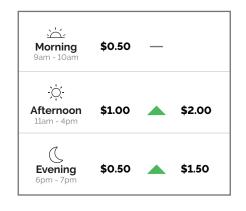
\$2.50



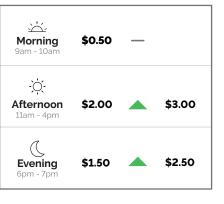


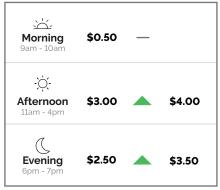


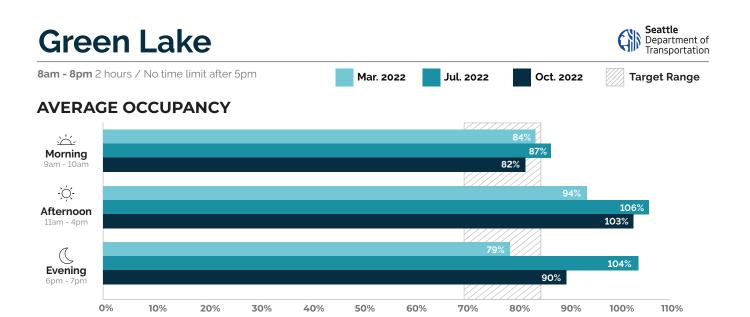
Mar. 2022

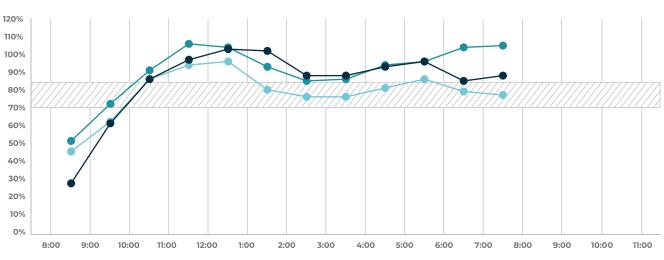


Jul. 2022





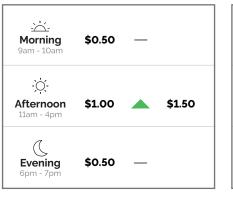


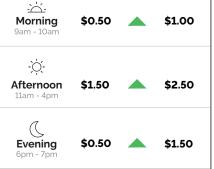


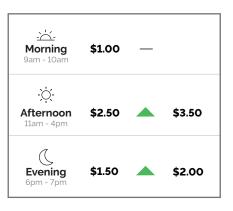
RATE HISTORY

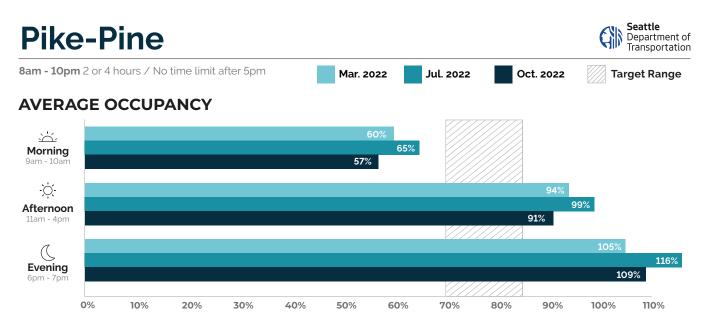


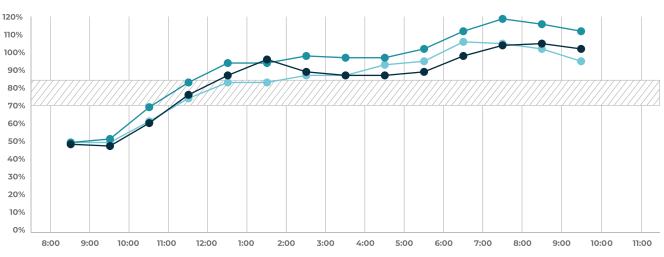






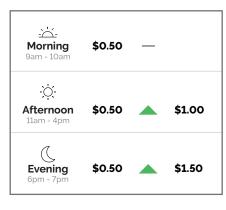












Jul. 2022

\$0.50

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Morning

9am - 10am

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Afternoon

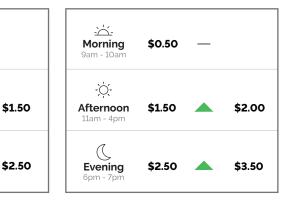
11am - 4pm

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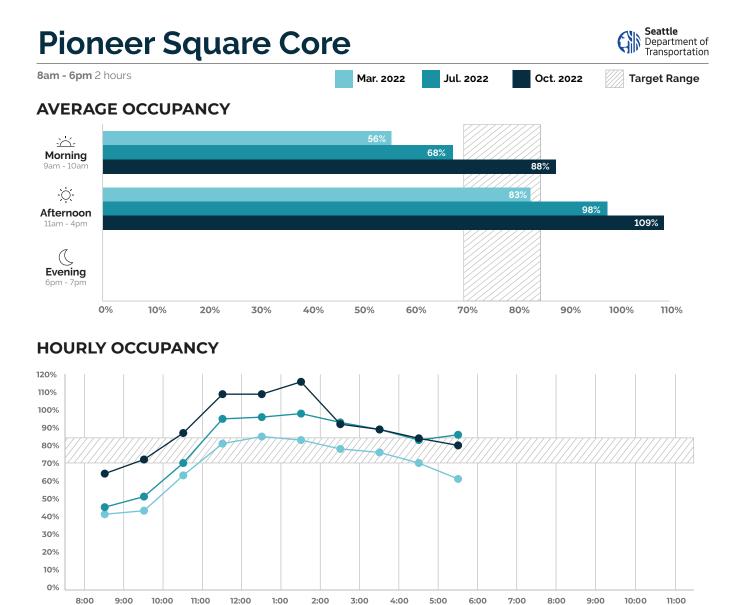
Evening

6pm - 7pm

Oct. 2022



2022 Paid Parking Annual Report | 27



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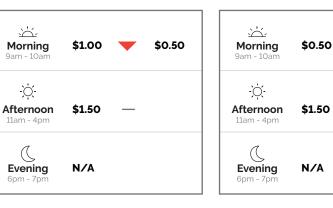


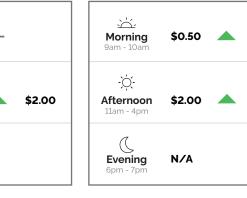


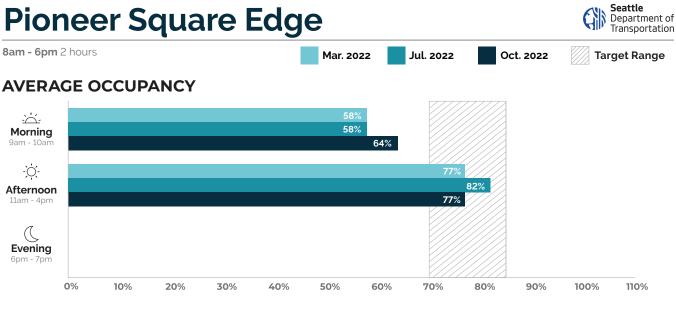
Oct. 2022

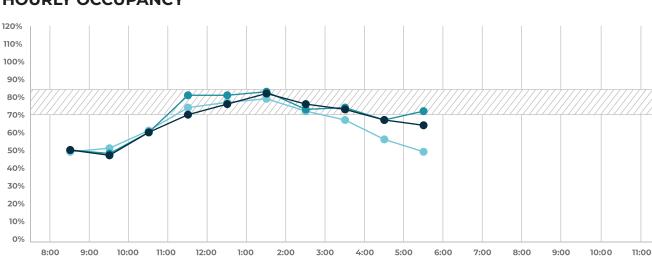
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N/A

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Morning

9am - 10am

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Afternoon

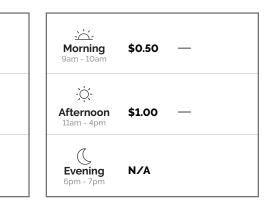
11am - 4pm

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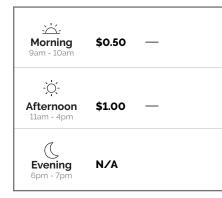
Evening

6pm - 7pm

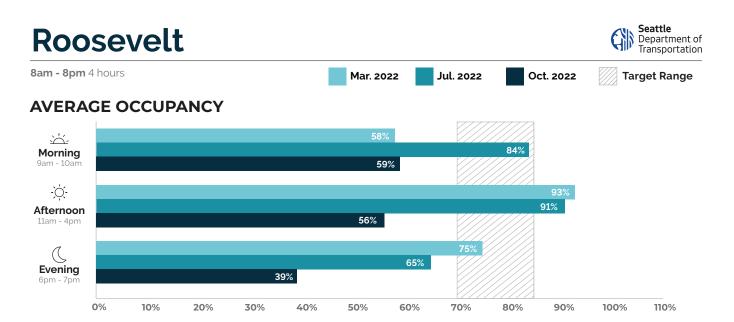


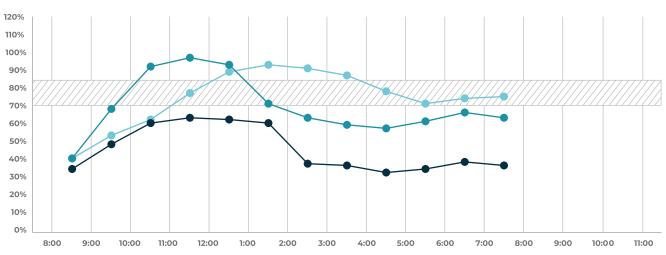


Mar. 2022



2022 Paid Parking Annual Report | 29

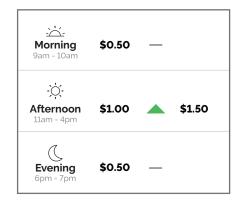


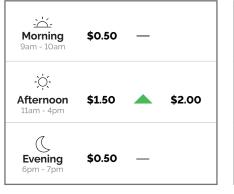


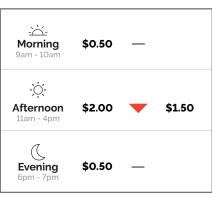


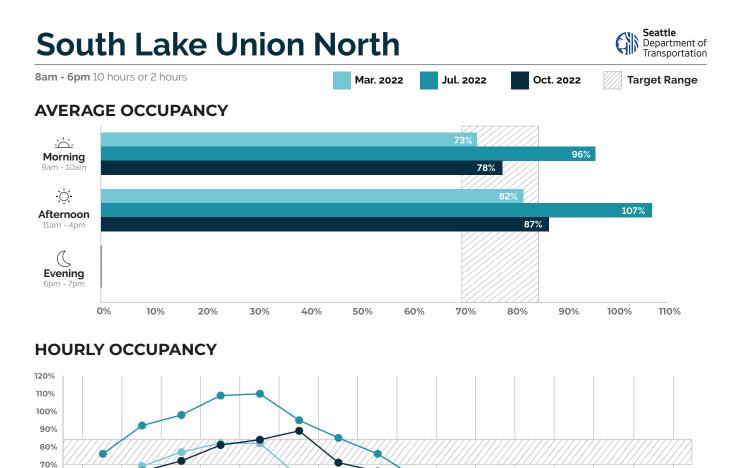














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Morning

9am - 10am

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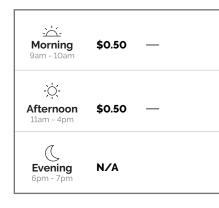
Afternoon

11am - 4pm

 $(\zeta$

Evening

6pm - 7pm



Jul. 2022

\$0.50

\$0.50

N/A

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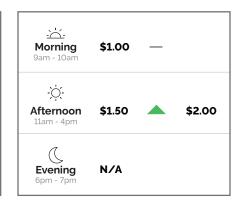
8:00

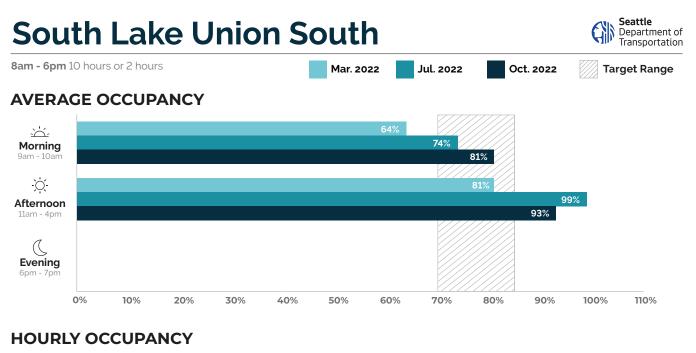


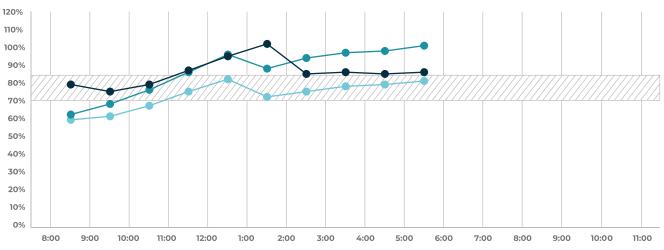
9:00

10:00

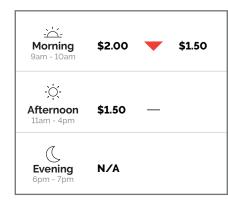
11:00



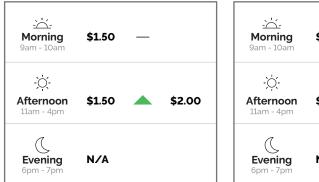


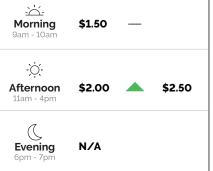


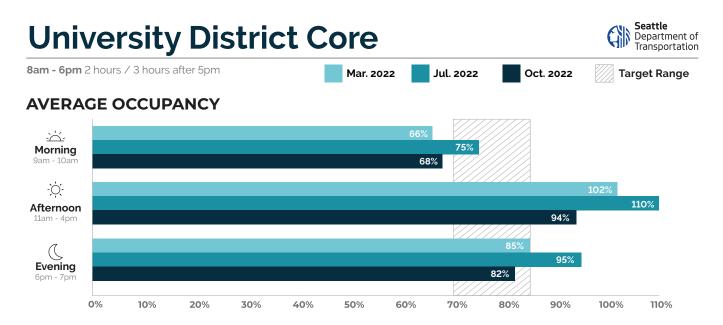


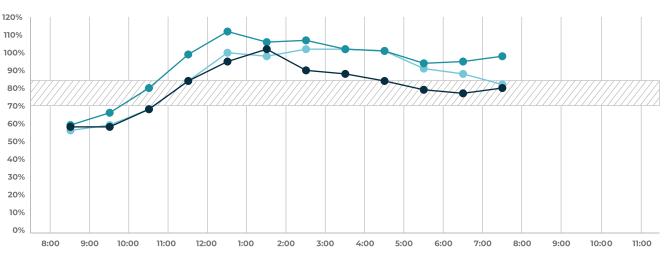


Jul. 2022



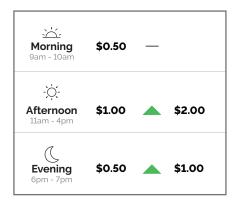




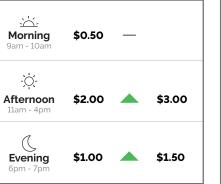


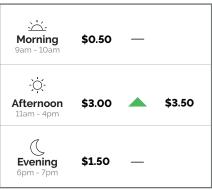


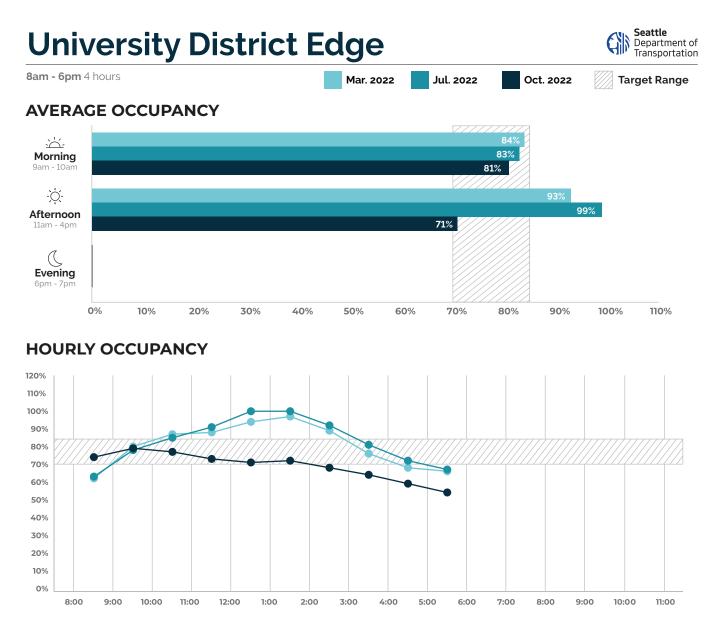




Jul. 2022







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Morning

9am - 10am

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Afternoon

11am - 4pm

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Evening

6pm - 7pm



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N/A



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\$1.00

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Morning

9am - 10am

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Afternoon

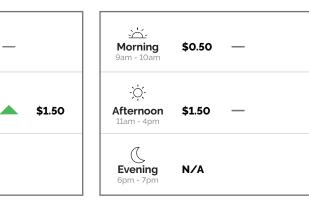
11am - 4pm

 $(\zeta$

Evening

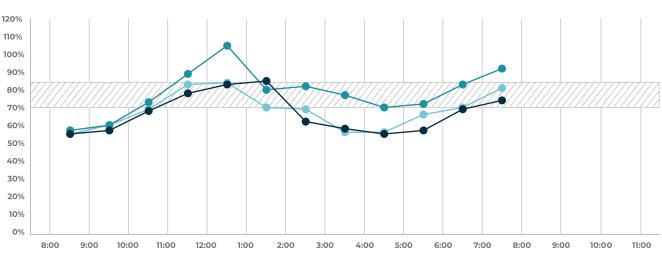
6pm - 7pm

Oct. 2022



\$1.00

Upte	own Core				Seattle Department of Transportation
8am - 8pm 4	hours Mar. 2	2022	Jul. 2022	Oct. 2022	Target Range
AVERAG	GE OCCUPANCY				
<u>بُنْ۔</u> Morning 9am - 10am		65% 68% 68%		2	
Afternoon 11am - 4pm			79%	98	%
Evening 6pm - 7pm			76%	90%	



50%

60%

70%

80%

90%

100%

110%

HOURLY OCCUPANCY

10%

20%

30%

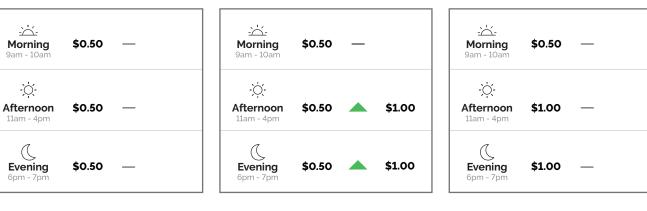
40%

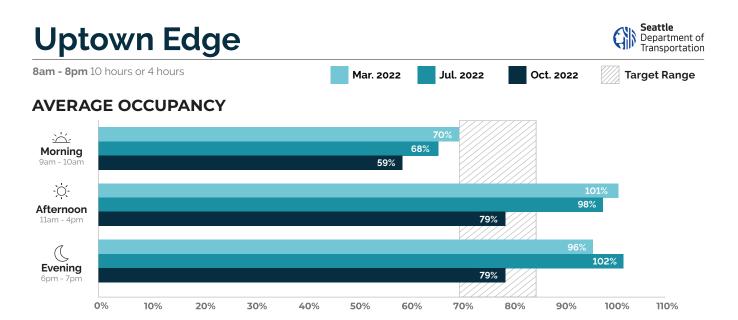
0%

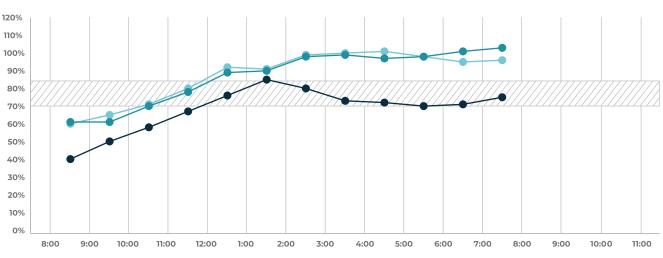














<u>کے</u> Morning

9am - 10am

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Afternoon

11am - 4pm

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Evening

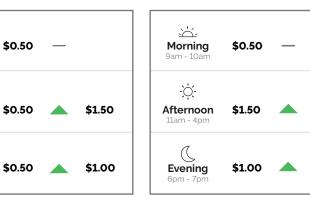
6pm - 7pm

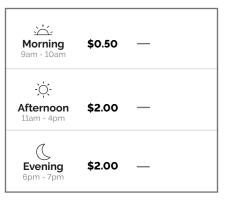


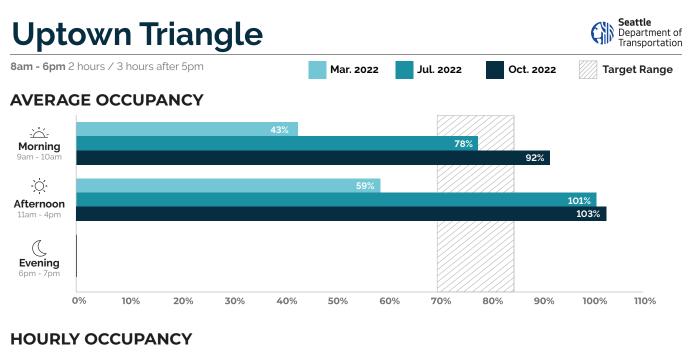


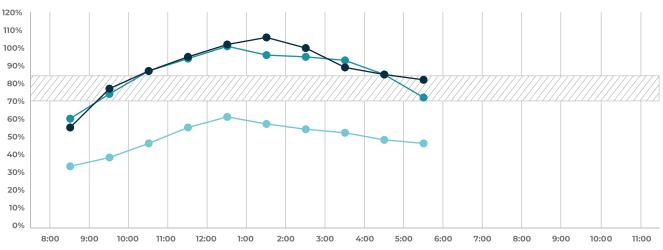
\$2.00

\$2.00



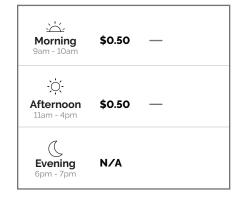


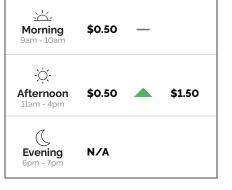


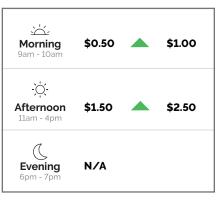


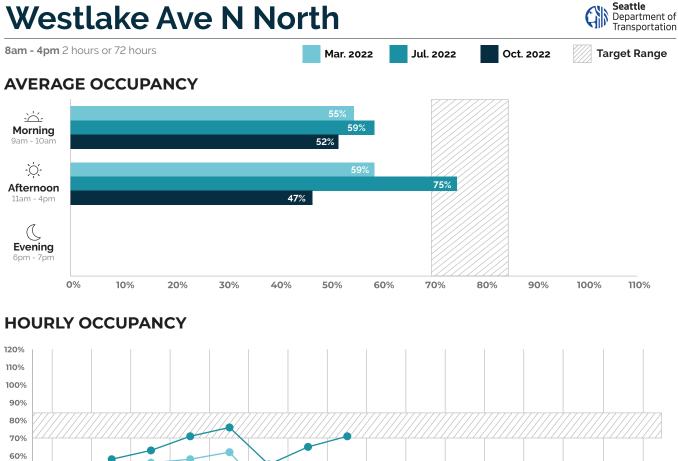


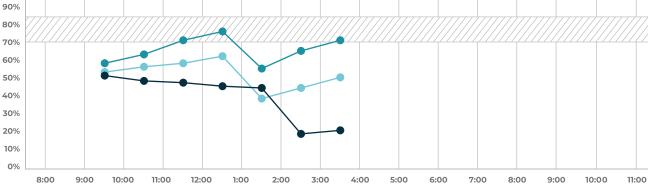












<u>کے</u> Morning

9am - 10am

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Afternoon

11am - 4pm

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Evening

6pm - 7pm



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N/A



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Morning

9am - 10am

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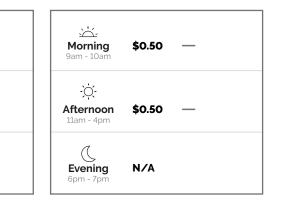
Afternoon

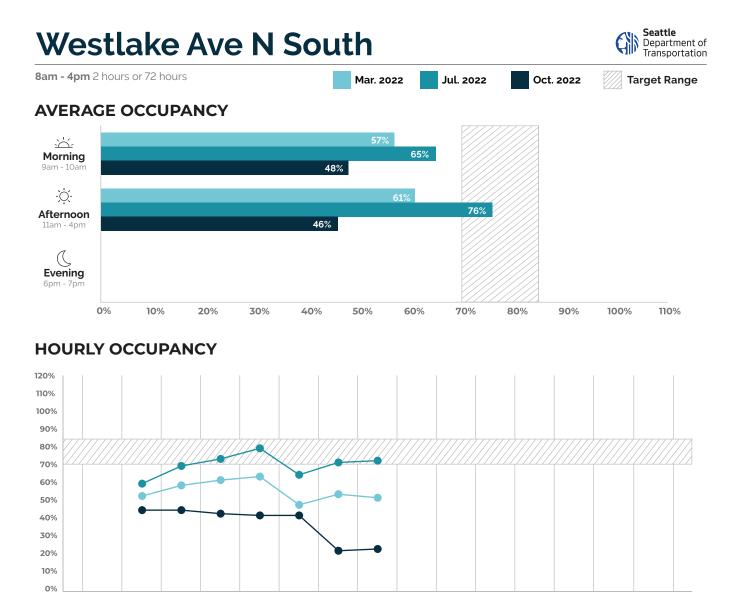
11am - 4pm

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Evening

6pm - 7pm





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Morning

9am - 10am

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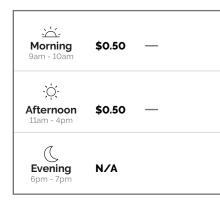
Afternoon

11am - 4pm

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Evening

6pm - 7pm



Jul. 2022

\$0.50

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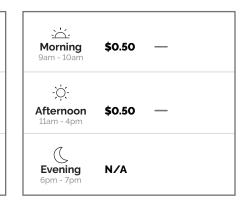
8:00



9:00

10:00

11:00



Seattle Department of Transportation 700 5th Avenue, Suite 3800 PO Box 34996 Seattle, WA 98124-4996 (206) 684-ROAD (7623) seattle.gov/transportation

