



# Winooski Parking Management Plan

Pre-Meeting Parking Data and Survey Results

April Project Meeting

April 28, 2021

# **Pre-Meeting Data**

- Summary of Observed Parking Demand
- Survey Results

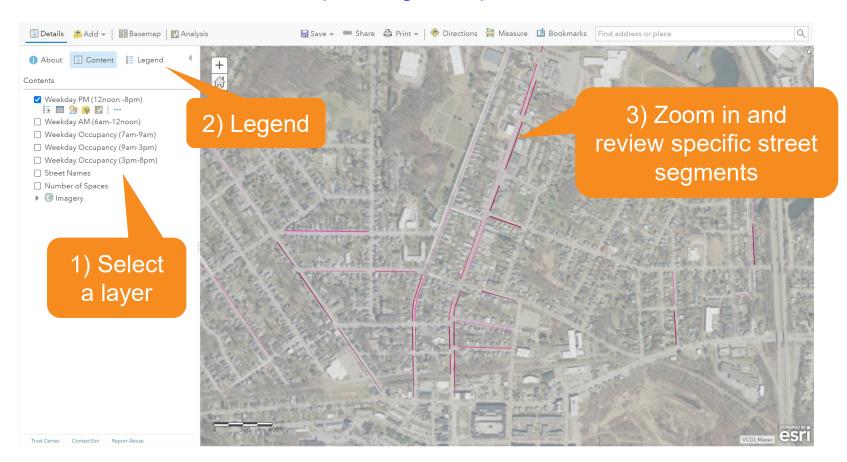




- 1,222 on-street observations.
  - 978 weekday
  - o 244 weekend.
  - Between Nov 16, 2020 and April 6, 2021
- 609 off-street observations. Most streets have at least 1 observation of demand for each property.



ArcGIS Online Parking Occupancy Map <a href="https://arcg.is/10qvvT0">https://arcg.is/10qvvT0</a>





Each street with two or more segments are summarized for an AM (6am-12noon) and a PM (12noon -8pm) period in the following charts.

Example Chart for On-Street Occupancy
Union St/West Ln to W. Allen St (SB)

Number of Observations for the segment during the time period

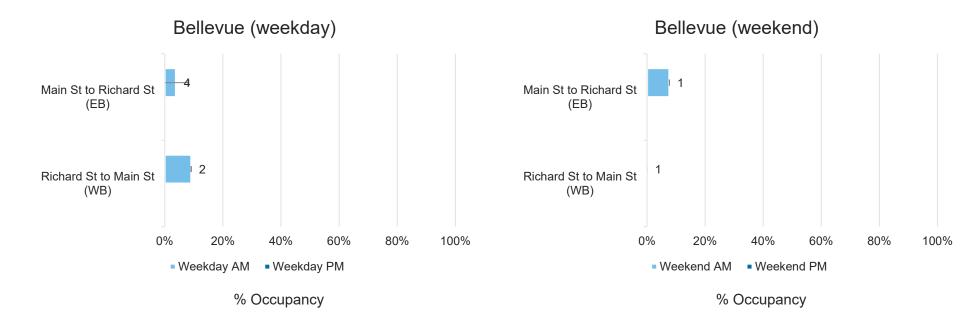
Occupancy

Average
Occupancy



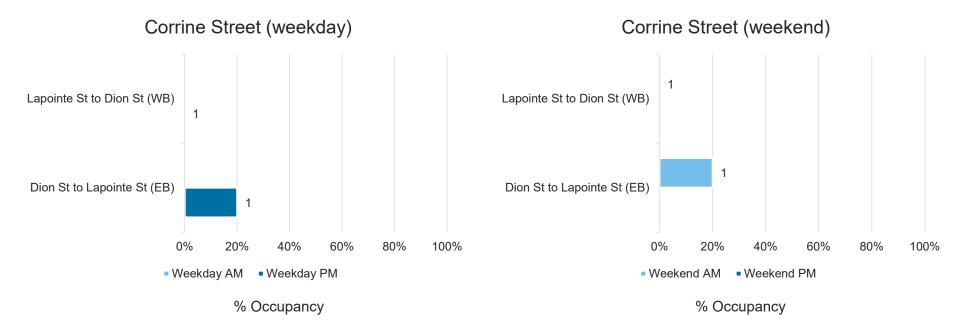


### **Bellevue Street**



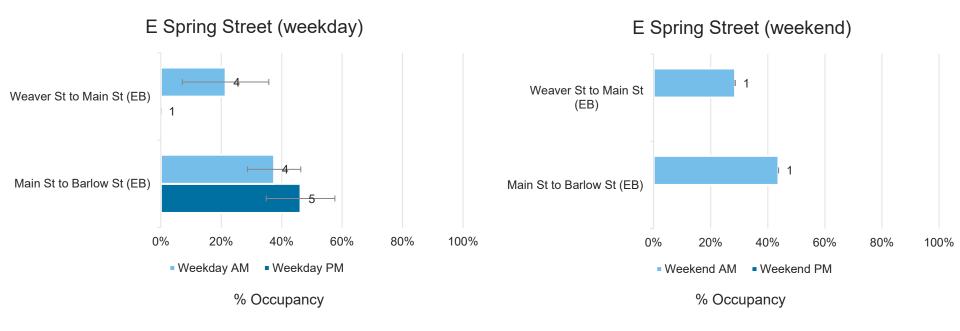


### **Corrine Street**



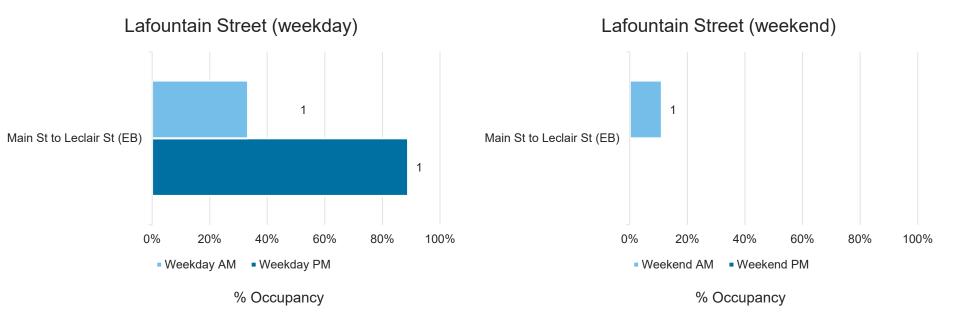


# **East Spring Street**



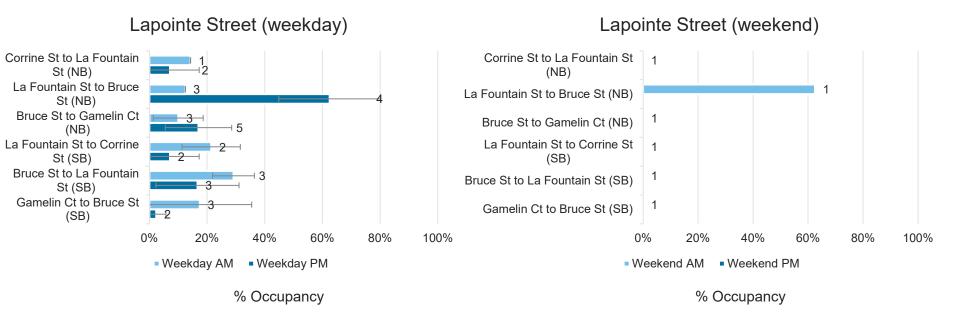


### **Lafountain Street**





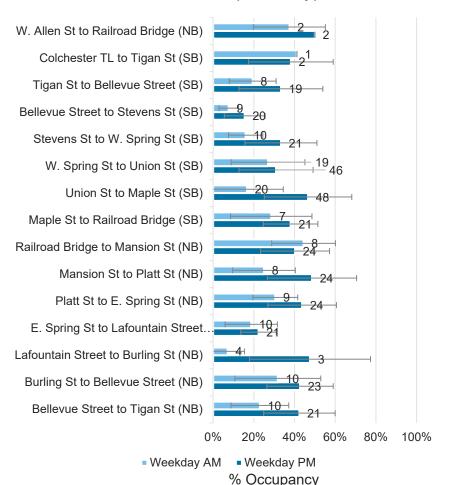
## **Lapointe Street**



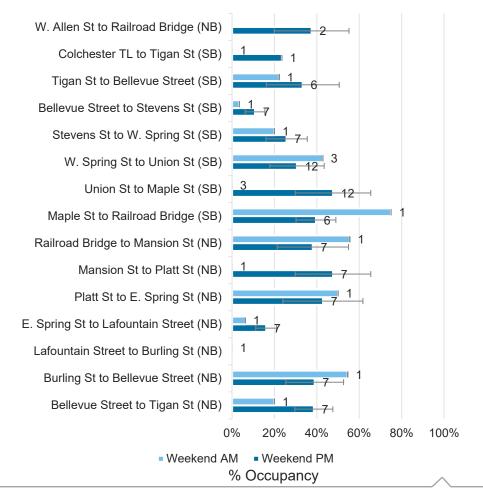


### **Main Street**

#### Main Street (weekday)



#### Main Street (weekend)



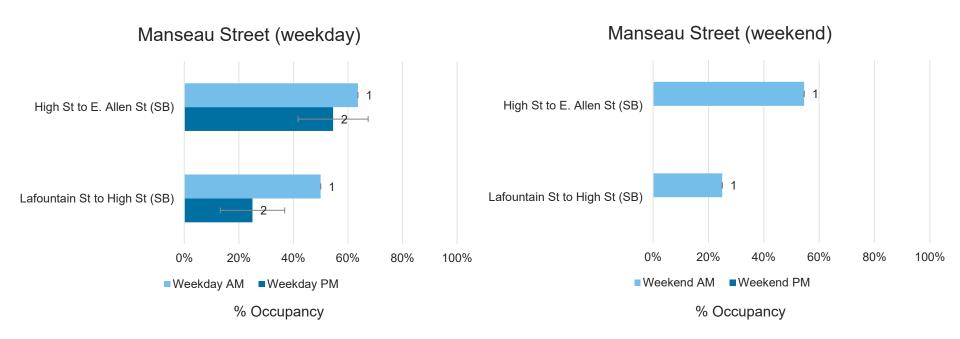


## **Malletts Bay Avenue**

#### Mallets Bay Avenue (weekday) Mallets Bay Avenue (weekend) Union St/West Ln to W. Allen St (SB) Union St/West Ln to W. Allen St (SB) TL to Morehouse Dr (SB) TL to Morehouse Dr (SB) Morehouse Dr to Pine St (SB) Morehouse Dr to Pine St (SB) Pine St to Elm St (SB) Pine St to Elm St (SB) Elm St to W. Spring St (SB) Elm St to W. Spring St (SB) W. Spring St to West Ln (SB) W. Spring St to West Ln (SB) 0% 20% 0% 20% 40% 80% 100% 40% 60% 80% 100% ■Weekday PM ■Weekday AM ■ Weekend AM ■Weekend PM % Occupancy % Occupancy



### **Manseau Street**



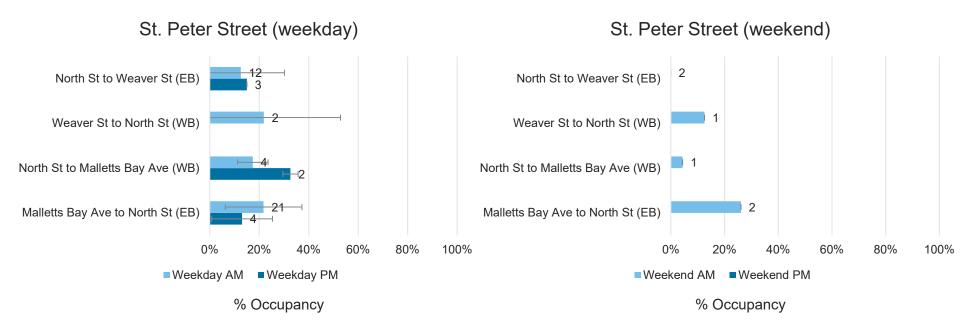


### **Platt Street**



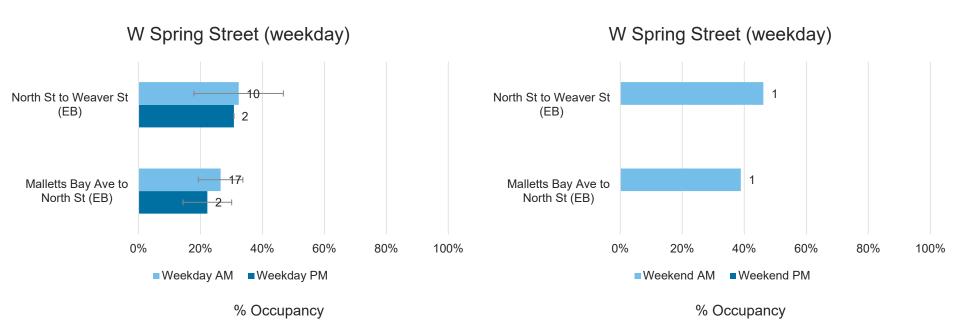


### St. Peter Street



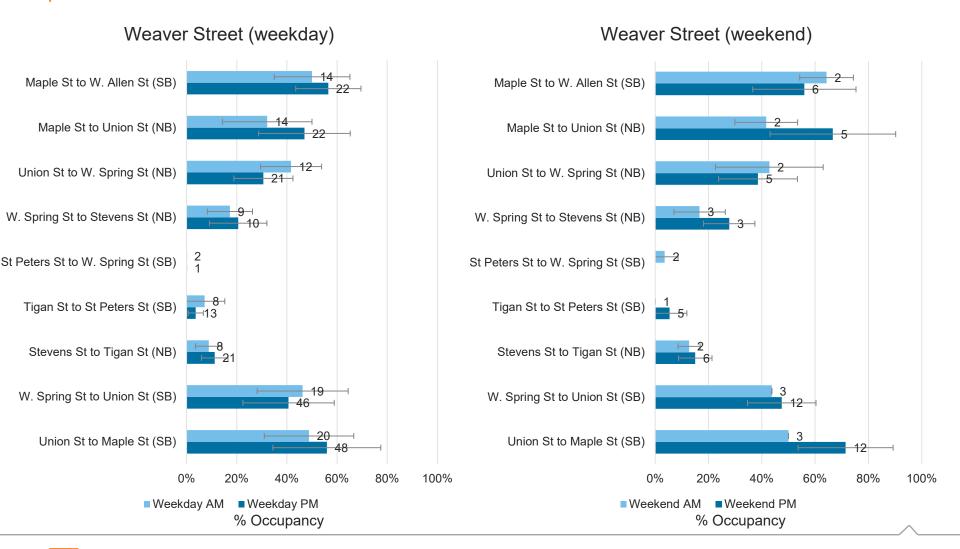


# **West Spring Street**



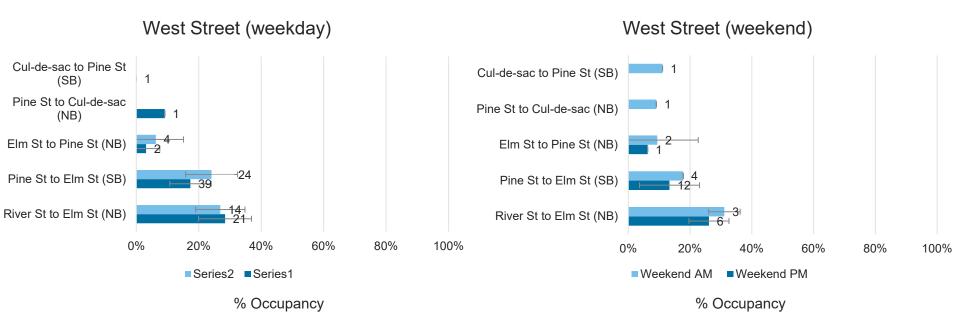


### **Weaver Street**





### **West Street**

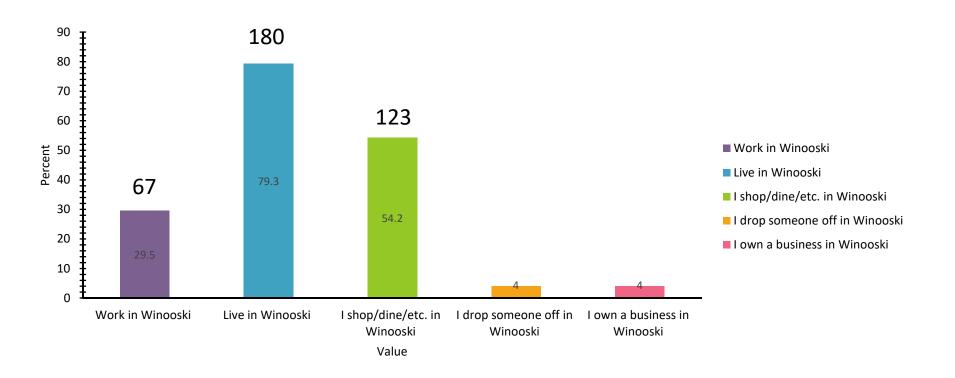






# Survey & Data

### 1. Why do you park in Winooski? (all that apply)

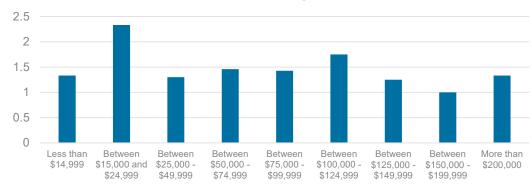


227 respondents 29 respondents Live and Work in Winooski (12.7% of sample compared to 8.2% ACS)

## **Vehicle Ownership**

Vehicles Available		Survey	Survey Representation (<100% is under-represented, >100% is over-represented)	
0 veh	15.5%	7.3%	47.1%	
1 veh	45.2%	42.5%	94.0%	
2 veh	31.3%	39.7%	126.8%	
3+ veh	8.00%	10.5%	131.3%	

### Reported veh per HH by Income Bracket



	Autos per Household		
City of Winooski, VT	1.63 (range 1.51 – 1.79)		
Chittenden, VT	1.84		
Vermont	1.93		

Source: Center of Neighborhood Technology 2021 using ACS data

Average veh per HH in survey (179 responses) = 1.55



### **Winooski Residents**

### What is your approximate annual household income

Value	Percent	Count
Less than \$14,999	6.0%	6
Between \$15,000 and \$24,999	3.0%	3
Between \$25,000 - \$49,999	10.0%	10
Between \$50,000 - \$74,999	24.0%	24
Between \$75,000 - \$99,999	14.0%	14
Between \$100,000 - \$124,999	16.0%	16
Between \$125,000 - \$149,999	4.0%	4
Between \$150,000 - \$199,999	6.0%	6
More than \$200,000	4.0%	4
Prefer not to answer	13.0%	13
Totals		100

# Income (Survey vs. ACS)

Household Annual Income	2019 ACS (5-yr)	Survey	Survey Representation (<100% is under-represented, >100% is over-represented)
Less than \$14,999	12.3%	6%	49%
Between \$15,000 and \$24,999	9.6%	3%	31%
Between \$25,000 - \$49,999	21.6%	10%	46%
Between \$50,000 - \$74,999	17.3%	24%	139%
Between \$100,000 - \$124,999	11.1%	14%	126%
Between \$125,000 - \$149,999	19.4%	20%	103%
Between \$150,000 - \$199,999	5.8%	6%	103%
More than \$200,000	2.9%	4%	138%

Source: ACSST5Y2019.S1901



# **Survey Fit**

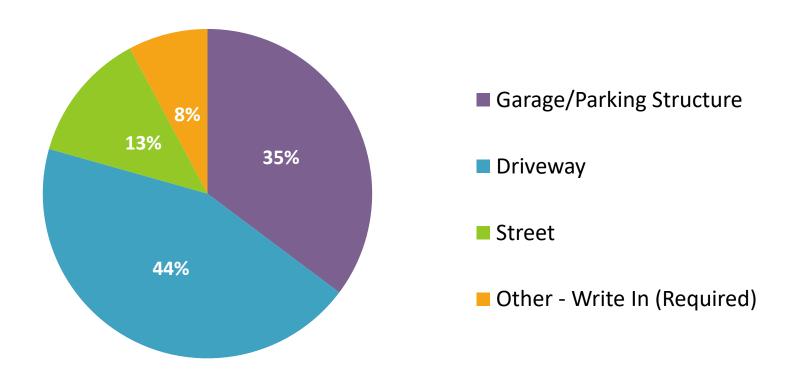
- Web based, convenience sample over represents vehicle owners and higher income residents. Although average vehicle ownership is in the range of the available census data.
- Remains a valuable source for insights used in this study.



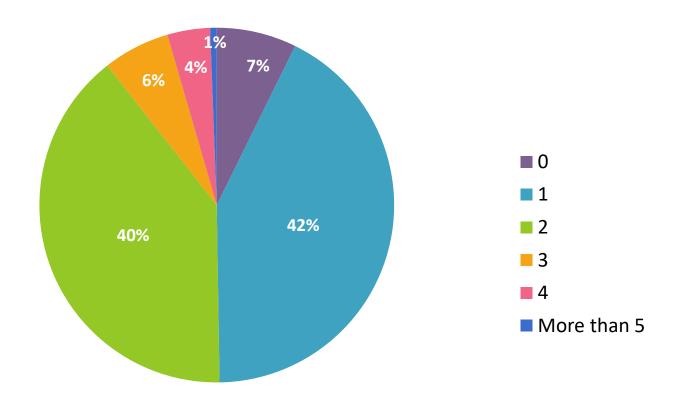


# Survey Results

3. When the vehicle is 'home', where do You park your vehicle most of the time?

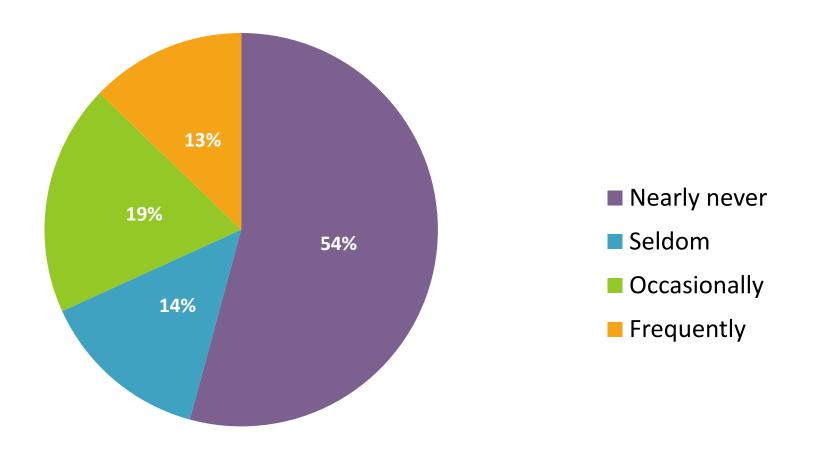


### 5. How many vehicles does Your household typically need to find parking for?

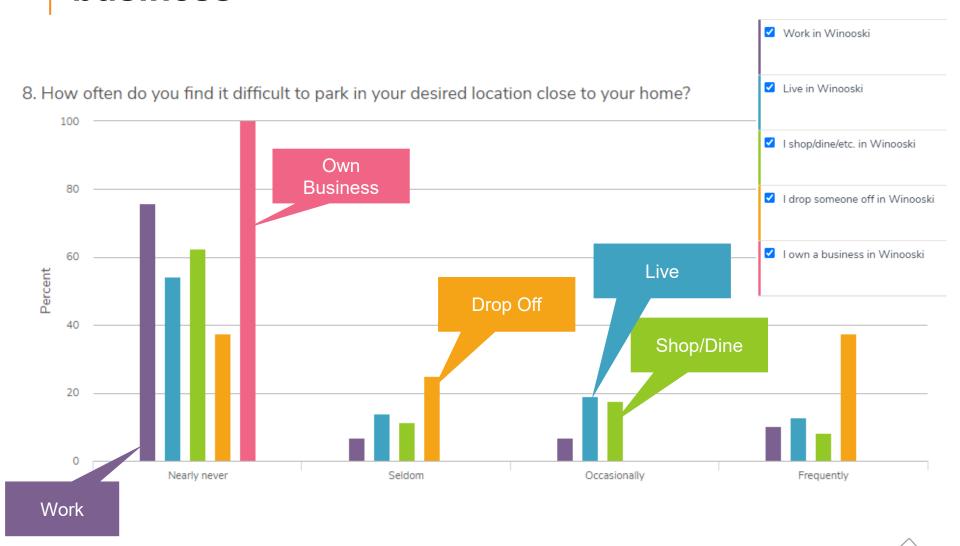


Average Veh per HH in survey (179 responses) = 1.55

8. How often do you find it difficult to park in your desired location close to your home?

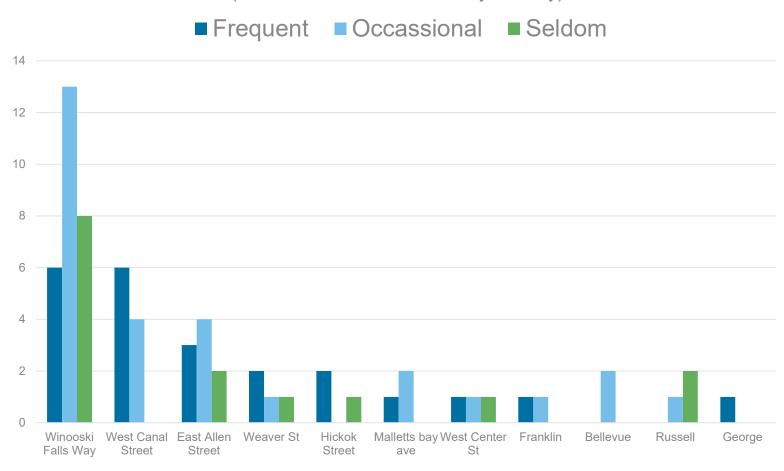


# Residents who also work, shop, dine, or own a business



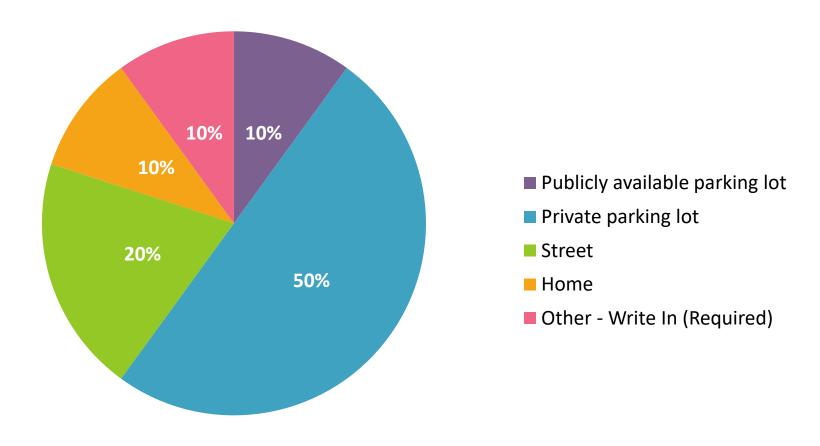
# **Most Frequently Identified Streets**

Streets with the Most Identified Parking Issues (number of times mentioned by severity)



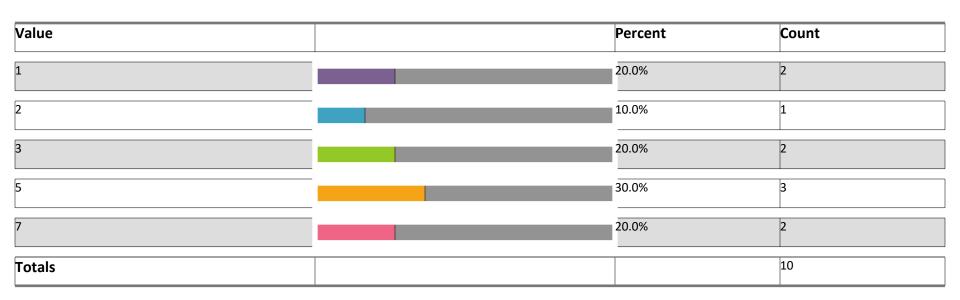
### Employees in Winooski

16. When at work where do You park your vehicle most of the time?



### **Employees of Winooski**

### 17. How many days a week do you require parking in Winooski

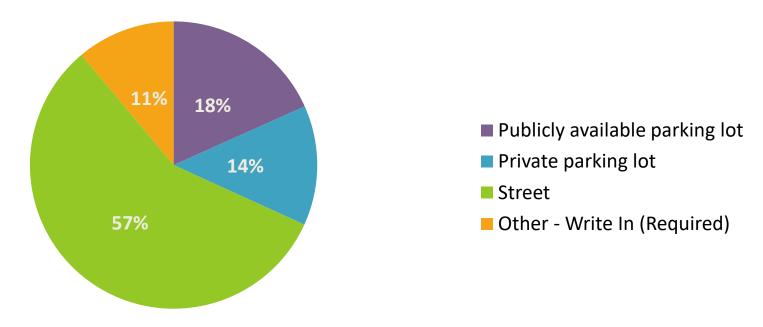




# **Shopping and Dining**

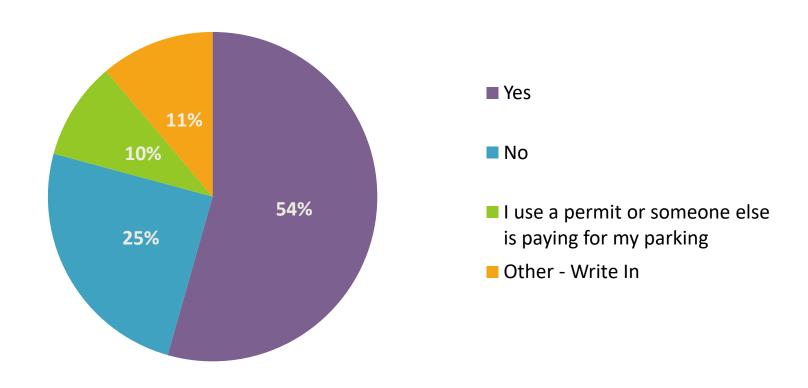
### **Shopping and Dining**

### 24. Where do You park your vehicle most of the time?

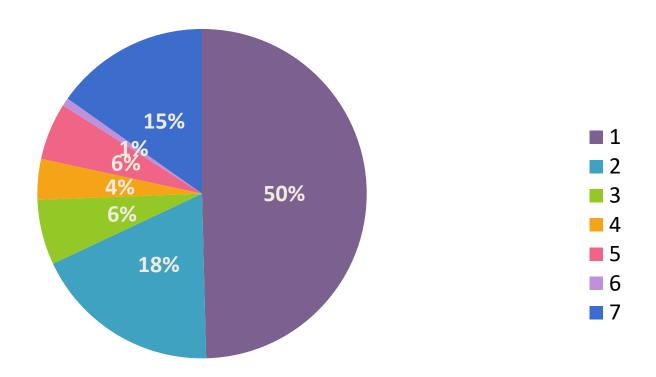


Value	Percent	Count
Publicly available parking lot	18.3%	23
Private parking lot	13.5%	17
Street	57.1%	72
Other - Write In (Required)	11.1%	14
Totals		126

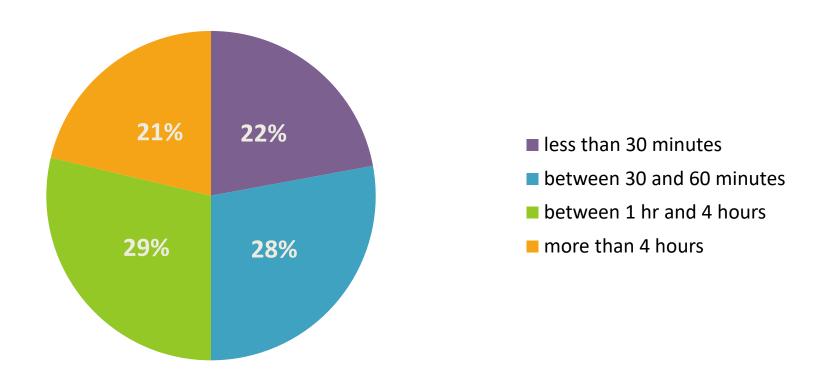
### 25.Do you pay for your parking when you come?



#### 26. How many days a week do you require parking in Winooski



#### 27. How long are you typically here for (and require parking?)





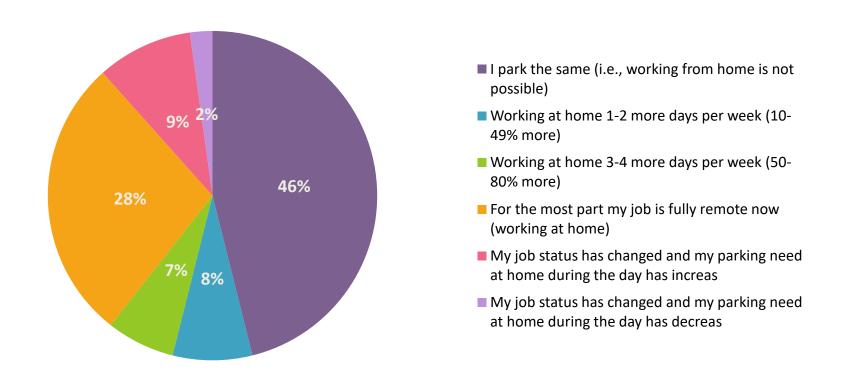
# COVID Effects



## Survey Differences

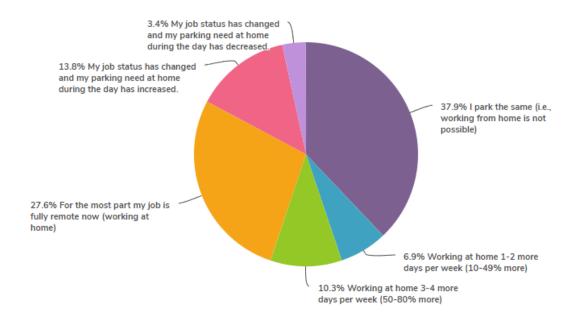
#### **Residents of Winooski**

9. How do your current home parking needs compare to 2019 (pre-COVID)?



#### Residents who work in Winooski

9. How do your current home parking needs compare to 2019 (pre-COVID)?



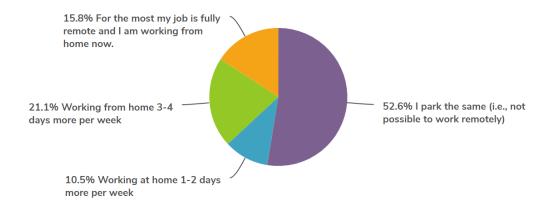
Value	Percent	Responses
I park the same (i.e., working from home is not possible)	37.9%	11
Working at home 1-2 more days per week (10-49% more)	6.9%	2
Working at home 3-4 more days per week (50-80% more)	10.3%	3
For the most part my job is fully remote now (working at home)	27.6%	8
My job status has changed and my parking need at home during the day has increased.	13.8%	4
My job status has changed and my parking need at home during the day has decreased.	3.4%	1



47

#### Workers who Don't Live in Winooski

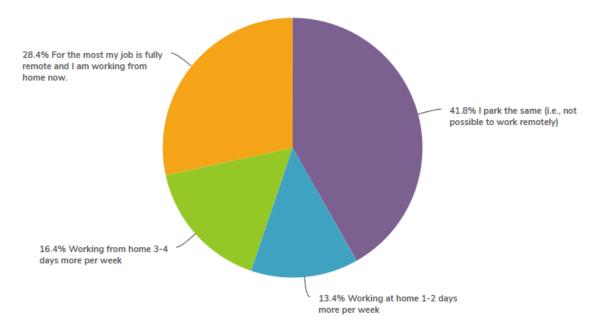
How does your current parking behavior compare to 2019 (pre-COVID)?



Value	Percent	Responses
I park the same (i.e., not possible to work remotely)	52.6%	10
Working at home 1-2 days more per week	10.5%	2
Working from home 3-4 days more per week	21.1%	4
For the most my job is fully remote and I am working from home now.	15.8%	3

#### All workers in Winooski

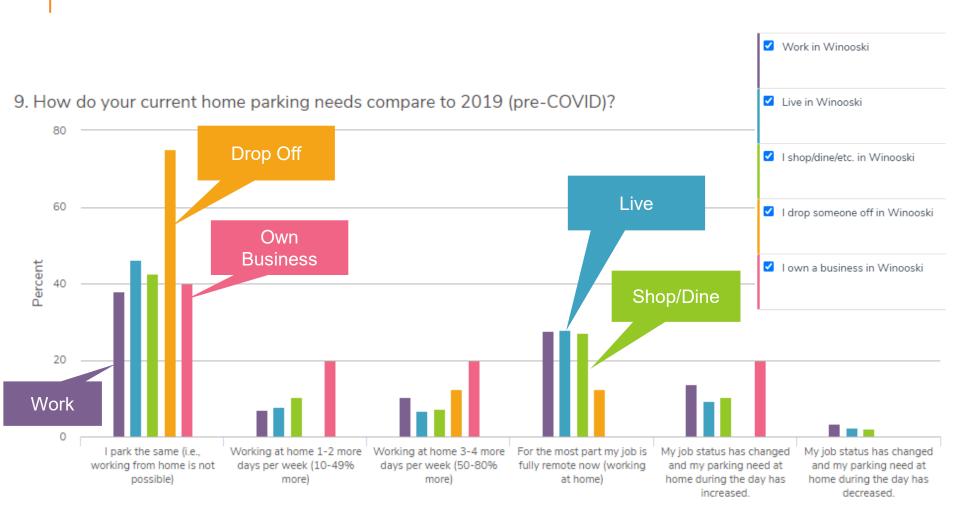
#### How does your current parking behavior compare to 2019 (pre-COVID)?



Value	Percent	Responses
I park the same (i.e., not possible to work remotely)	41.8%	28
Working at home 1-2 days more per week	13.4%	9
Working from home 3-4 days more per week	16.4%	11
For the most my job is fully remote and I am working from home now.	28.4%	19
		Totals: 67



## Residents who also work, shop, dine, or own a business





#### **Business Owners of Winooski**

## 22.Can we better understand how COVID has affected your business's parking needs? Classify your business type

Value	Percent	Count
Food related - take out oriented	22.2%	2
Food related - sit down and spend time	11.1%	1
Manufacturing	 11.1%	1
Institutional and Educational	11.1%	1
Office	22.2%	2
Retail	22.2%	2
Totals		9

#### **Business Owners of Winooski**

## 23. How would you characterize the changes that COVID-19 has caused in your parking needs?

	Significan	t increase	Modest i	ncrease	Slight inc	rease	No chang	ge	Slight ded	crease	lodest o	decrease	Significan	t decrease	Responses
	Row %	Count	Row %	Count	Row %	Count	Row %	Count	Row %	Count	ow %	Count	Row %	Count	
Long-term parking (>1hr) for employee s and customers		0	0.0%	0	0.0%	0	28.6%	2	42.9%	3	4.3%	1	14.3%	1	7
Short- term parking (<30 min) Totals	14.3%	1	0.0%	0	0.0%	0	57.1%	14	14.3%	1	0%	0	14.3%	1	7

Slight decrease or no change in parking demand for majority (5 of 7 respondents) of business owners



## Occupancy Differences

### Weaver Street: Pre-Covid (18 May 2018) vs Pandemic

#### Southbound Direction

Southbound Direction: Parked Vehicles on							
the West Side of Weaver St	8:00 AM	9:30 AM	11:30 AM	1:30 PM	3:30 PM	5:30 PM	7:30 PM
St. Peter St to So Cemetery Driveway	15%	3%	5%	2%	0%	0%	0%
W. Spring St to St. Peter St	0%	0%	7%	7%	14%	7%	7%
Union St to W. Spring St	38%	19%	13%	6%	25%	31%	31%
Maple St to Union St	57%	14%	29%	14%	43%	29%	71%
Maple Street to W. Allen St	36%	29%	36%	71%	57%	86%	93%

		А	.M		PM				
	AM pre- covid (wed)	AM Covid	% More for Covid	Veh.	PM pre- covid (wed)	PM Covid	% More for Covid	Veh.	
St. Peter St to So Cemetery Driveway	8%	7%	-1%	-0.5	0%	4%	4%	2.1	
W. Spring St to St. Peter St	2%	0%	-2%	-0.3	9%	0	-9%	-1.3	
Union St to W. Spring St	23%	46%	23%	3.7	23%	42%	19%	3	
Maple St to Union St	33%	49%	16%	1.1	39%	57%	18%	1.2	
Maple Street to W. Allen St	33%	50%	17%	2.3	77%	56%	-21%	-2.9	
Averages	20%	30%	10%	-	30%	32%	2%	-	
Sum	-	-	-	6.3				2.2	





### Weaver Street: Pre-Covid (18 May 2018) vs Pandemic

#### Northbound Direction

Northbound Direction: Parked Vehicles on the East Side of Weaver St	8:00 AM	9:30 AM	11:30 AM	1:30 PM	3:30 PM	5:30 PM	7:30 PM
Stevens to Tigan	16%	4%	8%	14%	12%	18%	16%
W. Spring St to Stevens St	72%	6%	39%	6%	6%	17%	11%
Union St to W. Spring St	7%	14%	36%	14%	21%	21%	36%
Maple St to Union St	33%	0%	17%	17%	17%	33%	67%

		А	.M			PM		
	AM pre- covid (wed)	AM Covid	% More for Covid	Veh.	PM pre- covid (wed)		% More for Covid	Veh.
Stevens to Tigan	9%	9%	0%	-0.1	15%	11%	-3%	-1.7
W. Spring St to Stevens St	39%	17%	-22%	-3.9	10%	22%	12%	2.2
Union St to W. Spring St	19%	42%	23%	3.2	23%	32%	9%	1.2
Maple St to Union St	17%	32%	15%	0.9	33%	49%	16%	0.9
Averages	21%	25%	4%	-	20%	29%	8%	-
Sum	-	-	-	0.1				2.7



### **COVID Effects Summary**

- 52% of residential seeing some degree of increased demand during workday. (e.g., same vehicle ownership and need to park at night).
- 36% of employees who DON'T <u>live</u> in Winooski are currently working remote. However, only 20% of employees typically park on the street.
- Slight decrease or no change in parking demand for majority of business owners (5 of 7 responses)
- 58% of all employees have reduced parking needs pre-COVID
- Weaver Street (nearly 100% residential) saw a slight increase in occupancy during pandemic across 245 observations.
  - Southbound dir: 10% during AM and 2% during PM
  - Northbound dir: 4% during AM and 8% during PM

Bottom line: Observations are within margins of error and are not substantially different from pre-covid observations.







#### **Jonathan Slason**

Director

Jonathan.slason@rsginc.com

#### **Andy Hill**

**Director of Consulting Services** 

President of New England Parking Council ahill@desman.com