University of British Columbia

Social Ecological Economic Development Studies (SEEDS) Sustainability Program

Student Research Report

Assessing the scale of food deliveries to UBC residences

Prepared by: Siba Saleh, Tasnia Anika, Jonathan Verrett

Prepared for: UBC Food Services

Course Code: CHBE 220

University of British Columbia

Date: January 21, 2022

Disclaimer: "UBC SEEDS Sustainability Program provides students with the opportunity to share the findings of their studies, as well as their opinions, conclusions and recommendations with the UBC community. The reader should bear in mind that this is a student research project and is not an official document of UBC. Furthermore, readers should bear in mind that these reports may not reflect the current status of activities at UBC. We urge you to contact the research persons mentioned in a report or the SEEDS Sustainability Program representative about the current status of the subject matter of a report".



UBC sustainability

EXECUTIVE SUMMARY

This report presents data collected to assess the scale of food deliveries to the University of British Columbia Vancouver Campus (UBC-V) Residences. Over the week of November 22 to 26, 2021, twenty-six student teams collected data on food deliveries taking place from 3:30pm to 9:30 pm from four student residences. Residences were chosen based on their size and ease of data collection. Data collected included the date, residence location, delivery time, vehicle type, food outlet name and location, and weather conditions. A total 229 deliveries were recorded and the average distance travelled for deliveries was estimated to be 4 km. Further analysis of this data will be undertaken to estimate the impact associated with the greenhouse gas emissions from these deliveries as well as to provide policy recommendations.

CONTENTS

Executive Summary	
List of abbreviations	
1. Introduction	
2. Methodology and methods	
3. Results	
4. Discussion & Recommendations	3
5. Conclusion	3
References	3
Appendix A-1: Sample Data Collection Sheet	A-1
Appendix A-2: Data Collection Assignments	A-2
Annendix A-3: Summary of Data Collected	Δ-3

LIST OF ABBREVIATIONS

CAP Climate Action Plan

CBAR Community-Based Action Research

CEL Community Engaged Learning

CCEL Centre for Community Engaged Learning

CFFS Climate-Friendly Food Systems

CHBE Chemical and Biological Engineering

ESW Engineers for a Sustainable World

GHG Greenhouse gas

SEEDS Social Ecological Economic Development Studies

UBC University of British Columbia

UBC-V University of British Columbia Vancouver Campus

UNSDGs United Nations Sustainable Development Goals

UBCFSP UBC Food Systems Project

Y1 first-year

Y2-Y4 upper-year

1. INTRODUCTION

The recognition of the integral role our food systems have on climate change is critical, especially given cities and post-secondary institutions around the world are making bold commitments to climate action, and there is increasing recognition of the pivotal impact our food system has on the climate crisis and vice versa. On December 5, 2019, UBC joined other organizations and governments around the world to declare a climate emergency. UBC renewed its commitment to sustainability, to accelerate UBC's climate actions, including a commitment to a Climate Action Plan 2030 (update from a 2020 plan), an UBC Climate Emergency Declaration, and commitment for the university to align its work with priority United Nations Sustainable Development Goals (UNSDGs).

Leading up to these commitments, a workshop was held where attendees across UBC's departments and faculties identified "Climate-Friendly Food Systems (CFFS)" as a priority area for the UBC Food System Project (UBCFSP) to advance. The UBCFSP engages students, faculty and key food system staff across campus in applied research and collaborations aimed at increasing the sustainability of our food system. A "CFFS Action Team" was created to support the UBCFSP broader objectives to advance food system sustainability, and is responsible for the ideation, coordination and development of student-led research, initiatives and interdisciplinary collaborations that can accelerate transitions towards a CFFS as part of UBC's emerging Climate Action Plan (CAP) 2030 planning process [1]. The CFFS Action Team developed a target to reduce food emissions and a series of supporting 10 Bold Actions to help achieve these targets. One of these Bold Actions includes developing Climate-Friendly Food System GHG emission baseline, and other targets including processes and practices that can help reduce emissions.

This project builds on and informs the UBC's emerging CAP 2030 and relates to both increasing our understanding of emissions associated with our food system, specifically around transportation. Food systems have been impacted by the COVID-19 pandemic, and one key area is that food purchasing behaviours have shifted towards increasing in people ordering take-out/ready-to-eat meals. In addition, the variety of businesses and services that provide take out options has rapidly increased.

At UBC, according to UBC Food Services, there are over 1000 ready-to-eat meals delivered to the UBC Vancouver Campus daily, including hundreds of grocery deliveries and other meal subscription and food kits programs. This is estimated to result in 10,000 kg of CO2 emissions per day [2]. This project aims to assess these types of food deliveries made to campus, including quantity, mode of delivery, and distance travelled.

2. METHODOLOGY AND METHODS

Principles of community-based action research (CBAR) informed the development of the project. This included the engagement of a variety of stakeholders in developing the project scope. This consultation involved students, staff and faculty members from the SEEDS Sustainability Program, UBC Food Services, the Centre for Community Engaged Learning (CCEL), UBC Student Housing at UBC and the Department of Chemical and Biological Engineering (CHBE). Notably two students, Siba Saleh (3rd year) and Tasnia Anika (4th year) were instrumental in developing the project in their roles as Community Engaged Learning (CEL) Fellows. In consulting with this wide

range of groups the project scope developed focused on assessing food delivery to first-year (Y1) and upper-year (Y2-4) undergraduate residences. Further information on the reasons leading to this choice is provided below.

There are a variety of areas food delivery occurs on campus including residences and academic buildings. In order to help quantify these deliveries it was decided to focus on areas where a high volume of deliveries would take place. A promising choice for such an area are student residences. Student residences can have a large number of residents and a central entrance for deliveries, simplifying data collection. Furthermore the students collecting data in this study may live in some of these residences and thus there was a personal engagement and interest in data collection. A subset of student residences were selected based on the ability to easily gather large amounts of data. Another consideration was the difference between residences where students have a mandatory meal plan (which we have termed Y1), and Y2-Y4 residences where students have optional meal plans and greater access to cooking facilities. Data collection sites for Y1 residences included Bartlett house for Orchard Commons and qələxən and həmləsəm houses for Totem Park. These sites were chosen as they contained a relatively large number of students and a central location for deliveries to make recording data easier.

The project decided to collect data from 3:30-9:30 pm with 2-hour sampling increments (3:30-5:30, 5:30-7:30 and 7:30-9:30). These times were selected as it was anticipated more students would be coming back to residences at these times from classes and thus it is more likely deliveries would be occurring. Data was collected throughout the week, Monday to Friday to gather data from a variety of days and try to elucidate any trends. Weather conditions were also collected in order to see any impact this may have on food delivery ordering, for example, more delivery orders when the weather was poor. A sample data collection sheet provided for data collection can be found in Appendix A-1. Data was collected at the entrance to residences in an attempt to ensure all deliveries were captured.

The project involved 124 students in 26 teams from the Founding Principles in Chemical and Biological Engineering I course (CHBE 220). These teams had worked on a variety of design reports throughout the first two months of the term and were introduced to this project on Thursday, November 18. Teams then selected a time and residence to collect data, with data collection taking place on the week of November 22 to 26. The times and residences where each group collected data is shown in Appendix A-2.

3. RESULTS

A summary of data collected by all student teams is shown in appendix A-3. Data was collected either by interacting with those people delivering or picking up food, or by looking at delivery order details if the delivery was left in a central location to be picked up. This includes the team number for the team collecting the data, as well as the day and timeframe that the data was collected. The residence where data was collected is also listed. Specific delivery times for each delivery as well as vehicle type are noted. The food delivery outlet was noted. Distance estimated was typically calculated following data collection and details on the methodology for this is included in the Discussion & Recommendations section of the report. Weather was also noted by teams as well as any additional notes on the delivery if relevant. In total

4. DISCUSSION & RECOMMENDATIONS

Over the course of data collection, 229 deliveries were collectively recorded. Some teams noted having missed recording deliveries as the delivery was done quickly and they could not speak to the deliverer, the recipient or have enough time to record data. However, this was generally rare. Given this, the data collected in this report is likely a low estimate in terms of number of deliveries.

Of the 229 deliveries noted, teams were able to estimate delivery distance for 175 of these deliveries, representing 76% of all deliveries recorded. Distances for deliveries were estimated using delivery addresses and Google Maps [3] through plotting the driving distance. Where the specific address for the food outlet was not known, the closest food outlet was assumed. Using this, the average distance of deliveries recorded with known food outlets was 4 km.

Similarly to delivery addresses, vehicle type may have been challenging to record for a variety of reasons including the delivery vehicle not being able to be seen or confirmed. Data was for vehicle type was recorded for 195 of the 229 deliveries recorded representing 85% of all deliveries recorded.

Each student team provided a project report including similar sections to those found in this overall project report. These reports have been passed on to SEEDS for further analysis by SEEDS or other student groups such as Engineers for a Sustainable World (ESW). A preliminary data analysis is included in this report speaking to the data collected, with the expectation that further data analysis will be undertaken.

5. CONCLUSION

Food delivery data has been collected from a variety of student residences at various times over one week from November 22 to 26, 2021. The number of deliveries, delivery mode and food outlet were recorded where possible. In total 229 deliveries were recorded. A preliminary estimate of delivery distances is provided and average delivery distance was estimated to be 4 km. Further analysis will be undertaken to asses the GHG impact of these deliveries and provide recommendations for action.

REFERENCES

- [1] UBC Campus and Community Planning. "Climate Action Plan 2030". December 2021. Accessed: January 12, 2022. [Online]. Available: https://planning.ubc.ca/cap2030
- [2] Colin Moore, 2021, personal communication
- [3] Google. "Google Maps" Accessed: November 30, 2022. [Online]. Available: https://www.google.com/maps

APPENDIX A-1: SAMPLE DATA COLLECTION SHEET

Table A-1: Sample data collection sheet

CHBE 220 - CEL Project - Data collection sheet

DESCRIPTION - Use this sheet for collecting your data. Note that columns for team number, timeframe and residence should be the same all the way down the sheet for your team. Once finished copy your data into the class data collection sheet on the course's Microsoft Teams site.

Team #	Timeframe	Residence	Delivery time (in pm)	Vehicle type (if known)	Food outlet/address (if known)	Distance (estimated) (km)	Weather	Additional Notes
45	3:30-5:30	Totem Park	3:45	gas vehicle	Wendy's (480 8th Ave)		rainy	

APPENDIX A-2: DATA COLLECTION ASSIGNMENTS

Table A-2: Group data collection assignments

Group #	Day	Time	Residence
1	Wednesday	3:30-5:30	Marine
2	Friday	7:30-9:30	Gage
3	Thursday	3:30-5:30	Gage
4	Wednesday	5:30-7:30	Marine
5	Tuesday	3:30-5:30	Orchard
6	Wednesday	3:30-5:30	Gage
7	Monday	5:30-7:30	Gage
8	Tuesday	7:30-9:30	Gage
9	Thursday	5:30-7:30	Marine
10	Friday	3:30-5:30	Marine
11	Friday	5:30-7:30	Marine
12	Friday	3:30-5:30	Orchard
13	Tuesday	3:30-5:30	Marine 5
14	Thursday	3:30-5:30	Marine
15	Thursday	7:30-9:30	Gage
16	Tuesday	7:30-9:30	Orchard
17	Tuesday	3:30-5:30pm	Gage
21	Tuesday	5:30-7:30	Gage
22	Tuesday	5:30-7:30	Orchard
24	Friday	3:30-5:30	Gage
25	Wednesday	3:30-5:30	Orchard
26	Thursday	5:30-7:30	Gage
27	Thursday	3:30-5:30	Totem
28	Tuesday	3:30-5:30	Marine
29	Monday	3:30-5:30	Gage
30	Thursday	3:30-5:30	Orchard

APPENDIX A-3: SUMMARY OF DATA COLLECTED

Table A-3: Summary of data collected

_				Delivery		- 1 11 11 115	Distance		
Team #	Day	Timeframe	Residence	time (pm)	Vehicle type (if known)	Food outlet/address (if known)	(estimated) (km)	Weather	Additional Notes
••	24-		Marine	(6)		Steve's Poke bar/5990	()		110103
1	Nov	3:30-5:30	Drive 4	4:07	Bicycle	University Blvd	0.9	Rainy	
	24-		Marine				0.0	,	
1	Nov	3:30-5:30	Drive 4	4:07	Bicycle	Tacomia/6205 University Blvd	0.95	Rainy	
	24-		Marine		,	Rice burger/2630 Sasamat		,	
1	Nov	3:30-5:30	Drive 4	4:24	Gas vehicle	street	4.9	Rainy	
	24-		Marine			My home cuisine/5728			
1	Nov	3:30-5:30	Drive 4	4:46	Electric Car/Tesla	University Blvd	2.1	Cloudy	
	24-		Marine		, , , , , , , , , , , , , , , , , , , ,			,	
1	Nov	3:30-5:30	Drive 4	5:13	Gas vehicle	Uncle Lu/3779 Sexsmith Road	15.7	Cloudy	
								,	
	26-		Walter			Kinton Ramen - 102 6111			
2	Nov	7:30-9:30	Gage	7:33	Gas Vehicle	Univeristy Blvd	1.2	Clear	
	26-		Walter			International Food Court -			
2	Nov	7:30-9:30	Gage	7:34	Gas Vehicle	5726 University Blvd	1.6	Clear	
									This delivery contained five
						International Food Count (1)			different
	26-		Walter			International Food Court (1) - 5726 University Blvd + Nori (4)			orders from two food
2	Nov	7:30-9:30	Gage	7:39	Gas Vehicle	6055 University Blvd	2.15	Clear	outlets.
	26-	7.30-3.30	Walter	7.59	Uas veriicie	0033 Offiversity blvu	2.15	Cicai	outiets.
2	Nov	7:30-9:30	Gage	7:41	Gas Vehicle	Freshii - 3351 Wesbrook Mall	2.5	Clear	
	26-	7.30-3.30	Walter	7.41	Gas verificie	11C3IIII - 3331 WE3DIOOK Wall	2.5	Cicai	
2	Nov	7:30-9:30	Gage	7:45	Gas Vehicle	Pita Pit - 5717 Dalhousie Rd	1.2	Clear	

	26-		Walter			Pearl Fever Tea House - 2182			
2	Nov	7:30-9:30	Gage	7:49	Gas Vehicle	Western Pkwy	1	Clear	
	26-	7.50 5.50	Walter	7.43	Gus vernere	Pizza Garden - 5780 Univeristy	-	Cicui	
2	Nov	7:30-9:30	Gage	7:52	Gas Vehicle	Blvd	1.6	Clear	
	26-	7.00 3.00	Walter	7.52	Cas vernore	Macdonald's - 101 5728	1.0	o.cui	
2	Nov	7:30-9:30	Gage	8:07	On Foot	Univeristy Blvd	0.85	Clear	
_	26-	7.00 0.00	Walter	0.07			0.00	0.00.	
2	Nov	7:30-9:30	Gage	8:10	On Foot	Subway - 2178 Western Pkwy	1	Clear	
	26-		Walter			Macdonald's - 101 5728			
2	Nov	7:30-9:30	Gage	8:32	Gas Vehicle	Univeristy Blvd	1.5	Clear	
	26-		Walter			Macdonald's - 101 5728			
2	Nov	7:30-9:30	Gage	8:36	Gas Vehicle	Univeristy Blvd	1.5	Clear	
	26-		Walter			Ryuu Japanese Kitchen - 5980			
2	Nov	7:30-9:30	Gage	8:51	Gas Vehicle	University Blvd	0.95	Clear	
_	26-		Walter						
2	Nov	7:30-9:30	Gage	8:54	Gas Vehicle	Dominos - 4426 W 10th Ave	3.8	Clear	
	26-		Walter			Macdonald's - 101 5728			
2	Nov	7:30-9:30	Gage	9:00	Gas Vehicle	Univeristy Blvd	1.5	Clear	
	26-		Walter			Macdonald's - 101 5728			
2	Nov	7:30-9:30	Gage	9:09	Gas Vehicle	Univeristy Blvd	1.5	Clear	
									assumed to
	25-								be a gas
3	Nov	3:30-5:30	Gage	3:38	-	Kinton Ramen	0.5	Rain, 6°C	vehicle
	25-								
3	Nov	3:30-5:30	Gage	4:16	gas-vehicle	subway (western parkway)	1	Rain, 6°C	
	25-								
3	Nov	3:30-5:30	Gage	4:22	electric bike	home cuisine		Rain, 6°C	
	25-								
3	Nov	3:30-5:30	Gage	4:39	hybrid vehicle	koi sushi	3.5	Rain, 6°C	

1 1			1	<u> </u>]	1		I	1 1
	25-				ann vahiala (handa				
3	Nov	3:30-5:30	Gage	4:46	gas-vehicle (honda civic)	sun sushi	3.6	Rain, 6°C	
	25-	3.30 3.30	Guge	7.70	Civicy	3411 343111	3.0	Raili, o C	
3	Nov	3:30-5:30	Gage	5:11	motorbike	domino pizza	3.8	Rain, 6°C	
	25-		_						
3	Nov	3:30-5:30	Gage	5:19	gas-vehicle	Mcdonanlds	1.5	Rain, 6°C	
	25-								
3	Nov	3:30-5:30	Gage	5:22	gas-vehicle	Ryuu Japanese kitchen	0.95	Rain, 6°C	
	25-								
3	Nov	3:30-5:30	Gage	5:22	gas-vehicle	Tacomio	1.3	Rain, 6°C	
	25-							_	
3	Nov	3:30-5:30	Gage	5:29	gas-vehicle	Indian Buffet	10.1	Rain, 6°C	
			Marine						Unknown
4	2.4	5:30 - 7:30	Drive,			Devent language Mitale on LIDC			assumed to
	24-	pm	Building 6	6:09	Unknown	Ryuu Japanese Kitchen, UBC (5980 University Blvd)	0.9	Rainfall (7 °C)	be gas vehicles.
	Nov		Marine	0.09	Olikilowii	(3980 Offiversity Bivd)	0.9	Railliali (7 C)	vernicles.
4	24-	5:30 - 7:30	Drive,			Want Want Hot & Spicy House			App - Door
-	Nov	pm	Building 6	6:18	Gas Vehicle	(5728 University Blvd)	1.2	Rainfall (7 °C)	Dash
			Marine	0.20		(5.25 5 5 5 5 5 5			2 30
4	24-	5:30 - 7:30	Drive,						
	Nov	pm	Building 6	6:22	Gas Vehicle	MeeT on Main (4288 Main St)	11	Rainfall (7 °C)	
		5:30 - 7:30	Marine						
4	24-		Drive,			Jolly Indian Bistro (2928 W 4th			
	Nov	pm	Building 6	6:36	Unknown	Ave)	6.3	Rainfall (7 °C)	
		5:30 - 7:30	Marine						
4	24-	pm	Drive,	_		Agra Tandoori Express (2138			
	Nov	h	Building 6	6:53	Gas Vehicle	Western Pkwy)	1.1	Rainfall (7 °C)	
	2.4	5:30 - 7:30	Marine			D			
4	24-	pm	Drive,	7.00	University	Donair Dude (3209 W	.	Deinfell (7 °C)	App - Uber
	Nov]	Building 6	7:09	Unknown	Broadway)	5.9	Rainfall (7 °C)	Eats

24- Nov	5:30 - 7:30 pm	Marine Drive, Building 6	7:18	Unknown	Ryuu Japanese Kitchen, UBC (5980 University Blvd)	0.9	Rainfall (7 °C)	App - Uber Eats
22		0			-			
	2·20 E·20		1.17	Gas car		1 5	Windy	
INOV	3.30 - 3.30	Commons	4.17	Gas Cai	2113)	4.5	vviilay	We were
						minimum 2		unable to find
								out
								restaurant
						chinese food		name.
						places near		Delivery
23-		Orchard				orchard		service:
Nov	3:30 - 5:30	Commons	4:42	Gas car	Chinese food	commons)	Windy	Fantuan
								Unknown was
								assumed to
								be gas
	3:30-5:30	Walter gage	3:34			0.85	cloudy	vehicles.
	2 20 5 20	NA/-11	2.27		•	0.05	-11	
	3:30-5:30	waiter gage	3:37	gas venicie	biva	0.85	ciouay	
	2.20 5.20	Walter gage	2.50	gas vahisla	Mandus 480 M/ 8th Ava	0.0	cloudy	
	3.30-3.30	vvaitei gage	3.50	gas verilcie	<u> </u>	9.8	cioudy	
	3.30-5.30	Walter gage	5:16		•	0.85	cloudy	
1400	3.30 3.30	value gage	3.10		Siva	0.03	cioucy	
22-		Walter						
	5:30-7:30		5:33	gas vehicle	Hime Sushi (315 F Broadway)	13	windy	
	Nov 23- Nov	23- Nov 3:30 - 5:30 23- Nov 3:30 - 5:30 24- Nov 3:30-5:30 24- Nov 3:30-5:30 24- Nov 3:30-5:30 24- Nov 3:30-5:30	24- Nov 3:30 - 5:30 Drive, Building 6 23- Nov 3:30 - 5:30 Orchard Commons 24- Nov 3:30 - 5:30 Walter gage 24- Nov 3:30-5:30 Walter gage	24- Nov 3:30 - 5:30 Drive, Building 6 7:18 23- Nov 3:30 - 5:30 Orchard Commons 4:17 24- Nov 3:30-5:30 Walter gage 3:34 24- Nov 3:30-5:30 Walter gage 3:37 24- Nov 3:30-5:30 Walter gage 3:50 24- Nov 3:30-5:30 Walter gage 5:16 22- Walter	24- Nov 3:30 - 5:30 Drive, Building 6 7:18 Unknown 23- Nov 3:30 - 5:30 Orchard Commons 4:17 Gas car 24- Nov 3:30-5:30 Walter gage 3:34 24- Nov 3:30-5:30 Walter gage 3:37 gas vehicle 24- Nov 3:30-5:30 Walter gage 3:50 gas vehicle 24- Nov 3:30-5:30 Walter gage 5:16 22- Walter	24- Nov 5:30 - 7:30 pm Drive, Building 6 7:18 Unknown Ryuu Japanese Kitchen, UBC (5980 University Blvd) 23- Nov 3:30 - 5:30 Orchard Commons 4:17 Gas car Domino's Pizza (4426 W 10th Ave W, Vancouver, BC V6R 2H9) 23- Nov 3:30 - 5:30 Commons 4:42 Gas car Chinese food 24- Nov 3:30-5:30 Walter gage 3:34 A&W 24- Nov 3:30-5:30 Walter gage 3:37 gas vehicle blvd 24- Nov 3:30-5:30 Walter gage 3:50 gas vehicle Wendys 480 W 8th Ave 24- Nov 3:30-5:30 Walter gage 5:16 Mc Donalds 5728 University blvd Nov 3:30-5:30 Walter gage 5:16 Mc Donalds 5728 University blvd	Signorm	24

7	22- Nov	5:30-7:30	Walter Gage	5:35	gas vehicle	CocoFresh Tean & Juice (5728 University Blvd)	0.9	windy	Coco, My Home, and row 15 are all in the same plaza in the university village
7	22- Nov	5:30-7:30	Walter	6:27	gas vehicle	Kokoro Mazesoba (5928 University Blvd)	0.9	rainy	
/	22-	3.30-7.30	Gage Walter	0.27	gas veriicie	Offiversity Biva)	0.9	railly	
7	Nov	5:30-7:30	Gage	6:28	gas vehicle	Homemade Catering	44.6	rainy	
	22-		Walter			9		,	
7	Nov	5:30-7:30	Gage	6:31	gas vehicle	Sushi In (3772 W 10th Ave)	5.1	rainy	
7	22- Nov	5:30-7:30	Walter Gage	6:31	gas vehicle	Pokerrito (995 Hornby St)	11	rainy	
/		3.30-7.30		0.51	gas veriicie	Fokeriito (993 Horriby St)	11	Talliy	
7	22- Nov	5:30-7:30	Walter Gage	6:43	hybrid vehicle	Gold Train (4530 W 10th Ave)	3.4	rainy	
7	22- Nov	5:30-7:30	Walter Gage	6:48	gas vehicle	Corner Kitchen (115-5743 Dalhousie Rd)	1	rainy	
7	22- Nov	5:30-7:30	Walter Gage	6:52	gas vehicle	My Home Cuisine (5728 University Blvd)	0.9	rainy	
7	22- Nov	5:30-7:30	Walter Gage	7:00	hybrid vehicle	Chef Hung Taiwanese Beef Noodle (3313 Shrum Lane #102)	2.2	rainy	
	22-		Walter		-			·	
7	Nov	5:30-7:30	Gage	7:03	gas vehicle	5728 University Blvd	0.9	rainy	
8	23- Nov	19:35	Walter gage	19:35	Gas Car	Pico Purgor	4 5	8°C, Cloudy	
0	23-	19.35	Walter gage	19.33	GdS CdI	Rice Burger	4.5	o C, Cloudy	
8	Nov	19:42	Walter gage	19:42	Gas Car	A&W	0.85	8°C, Cloudy	

	23-							
8	Nov	19:56	Walter gage	19:56	Gas Car	Pizza Garden	0.85	8°C, Cloudy
8	23- Nov	20:06	Walter gage	20:06	Gas Car	Orignal beanery coffee house: The University of British Columbia, 2706 Fairview Cres, Vancouver, BC V6T 2B9	1.4	8°C, Cloudy
8	23- Nov	20:08	Walter gage	20:08	Hybrid Car	Mc Donalds	0.9	8°C, Cloudy
	23-				,			,
8	Nov	20:13	Walter gage	20:13	Hybrid Car	Sun Sushi	3.4	8°C, Cloudy
8	23- Nov	20:32	Walter gage	20:32	Gas Car	Bombay Massala	3.5	8°C, Cloudy
	23-							
8	Nov	20:43	Walter gage	20:43	Hybrid Car	Mc Donalds	0.9	8°C, Cloudy
8	23- Nov	20:47	Walter gage	20:47	Gas Car	3337 shumlane	2.3	8°C, Cloudy
8	23- Nov	21:03	Walter gage	21:03	Gas Car	Uncle Fati's	1.1	8°C, Cloudy

	23-								
8	Nov	21:12	Walter gage	21:12	Gas Car	City Market - Arbutus	8	8°C, Cloudy	
	23-								
8	Nov	21:15	Walter gage	21:15	Gas Car	Cha time	1.4	8°C, Cloudy	
	23-								
8	Nov	21:18	Walter gage	21:21	Electric Car	Shoppers	2.3	8°C, Cloudy	
	25-		Marine			Mc Donald's - 101 5728		heavy rain, cold	
9	Nov	5:30-7:30	Drive	5:54	gas vehicle	University Blvd.	1.1	weather	
	25-		Marine			Want Want Hot & Spicy House		heavy rain, cold	
9	Nov	5:30-7:30	Drive	6:27	gas vehicle	- B1-5728 University Blvd	1.1	weather	
	25-		Marine			Agra Tandoori - 2138 Western		heavy rain, cold	
9	Nov	5:30-7:30	Drive	6:37	gas vehicle	Pkwy	1	weather	
	25-		Marine			Bombay Masala - 4473 W 10			
9	Nov	5:30-7:30	Drive	6:44	gas vehicle	Ave	3.5	light rain	
	25-		Marine			Uncle Fatih's Pizza - 6045			
9	Nov	5:30-7:30	Drive	7:11	gas vehicle	University Blvd.	0.81	light rain	
	25-		Marine			TACOMIO - 6025 University			
9	Nov	5:30-7:30	Drive	7:22	gas vehicle	Blvd.	0.82	light rain	
	26-		Marine						
10	Nov 26-	3:30-5:30	Drive	3:47	Gas	Unknown	Unknown	Cloudy	
10	26- Nov	3:30-5:30	Marine Drive	4:05	Bicycle	Doordash	Unknown	Cloudy	
10	26-	3.30-3.30	Marine	4.03	Dicycle	Doordasii	GIRIOWII	Cloudy	
10	Nov	3:30-5:30	Drive	4:17	Walking	Pizza	Unknown	Cloudy	
		2.20 0.00	•	,					
			Marine						
	26-		Drive Tower						
11	Nov	5:30-7:30	1	5:34	biker	A&W (5728 University Blvd)	2.9	Dry, Cloudy	Uber Eats

			Marine						
	26-		Drive Tower						
11	Nov	5:30-7:30	1	5:45	gas			Dry, Cloudy	
			Marine		0.1			,,	
	26-		Drive Tower						
11	Nov	5:30-7:30	1	6:00	Hybrid	Grand Noodle Emporium	2.3	Dry, Cloudy	
			Marine		,			,	
	26-		Drive Tower						
11	Nov	5:30-7:30	1	6:02	Gas	?		Dry, Cloudy	
			Marine						
	26-		Drive Tower						
11	Nov	5:30-7:30	1	6:05	hybrid	?		Dry, Cloudy	
			Marine						
	26-		Drive Tower						
11	Nov	5:30-7:30	1	6:21	gas	?		Dry, Cloudy	
			Marine						
	26-		Drive Tower						
11	Nov	5:30-7:30	1	6:29	gas	?		Dry, Cloudy	
			Marine						
	26-		Drive Tower			Mcdonalds (5728 University			
11	Nov	5:30-7:30	1	6:34	hybrid	Blvd)	3	Dry, Cloudy	Uber Eats
	26		Marine						
1 1	26-	F-20 7-20	Drive Tower	C-10	la colla cat al	?		Day Classely	
11	Nov	5:30-7:30	1 Marine	6:40	hybrid	ŗ		Dry, Cloudy	
	26-		Drive Tower						Skip
11	Nov	5:30-7:30	1	6:44	gas	Pizza Hut (4540 W 10th Ave)	4.9	Dry, Cloudy	TheDishes
11	INUV	3.30-7.30	Marine	0.44	gas	1 1228 Hut (4340 W 10th Ave)	4.5	Dry, Cloudy	HIEDISHES
	26-		Drive Tower			Ryuu Japanese Chicken(5980			
11	Nov	5:30-7:30	1	6:45	hybrid	University Blvd)	2.5	Dry, Cloudy	
	1,40,4	2.30 7.30	Marine	0.75	,	Similar Siray	2.5	2.7,00007	
	26-		Drive Tower			Togo Sushi (3380 Shrum			
11		5:30-7:30	1	6:59	gas	Lane)	2.6	Dry, Cloudy	

1 1	i		ı r		Ī				
			Marine						
	26-		Drive Tower						
11	Nov	5:30-7:30	1	7:04	gas	?		Dry, Cloudy	
			Marine						
	26-		Drive Tower						
11	Nov	5:30-7:30	1	7:10	gas	?		Dry, Cloudy	
			Marine						
	26-		Drive Tower						
11	Nov	5:30-7:30	1	7:11	gas	?		Dry, Cloudy	
			Marine						
	26-		Drive Tower						
11	Nov	5:30-7:30	1	7:15	gas	?		Dry, Cloudy	
			Marine						
	26-		Drive Tower						
11	Nov	5:30-7:30	1	7:22	hybrid	?		Dry, Cloudy	
			Marine						
	26-		Drive Tower						
11	Nov	5:30-7:30	1	7:28	hybrid	?		Dry, Cloudy	
			Marine			Mcdonalds (5728 University			
	26-		Drive Tower			Blvd #101, Vancouver, BC V6T			
11	Nov	5:30-7:30	1	7:30	hybrid	1K6)	3	Dry, Cloudy	
	26-					McDonalds/101-5728			
12	Nov	3:30-5:30	Orchard	4:26	Mazda 3 (gas)	University Blvd	1	Cloudy, 8 degrees	
		2.20 2.20		0	(000)	2		2.2.2.7, 0.000.000	
	3.0				Towata Carralla	Demain ala Dinne /4200 Dunk			
12	26-	2.20 5.20	Ouele e uel	4.20	Toyota Corolla	Domino's Pizza/4298 Dunbar	-	Claudy O dagrage	
12	Nov	3:30-5:30	Orchard	4:39	(gas)	St	5	Cloudy, 8 degrees	
	26-				Tesla Model 3				
12	Nov	3:30-5:30	Orchard	4:59	(electric)	Koi Sushi/4532 W 10th Ave	3	Cloudy, 8 degrees	
	26-					Uncle Fatih's Pizza/6045			
12	Nov	3:30-5:30	Orchard	5:04	Bicycle	University Blvd	0.75	Cloudy, 8 degrees	

	26-				Toyota RAV 4				
12	Nov	3:30-5:30	Orchard	5:15	, (hybrid)	Chatime/5998 University Blvd	0.7	Cloudy, 7 degrees	
	23-								
13	Nov	3:30-5:30	Marine 5	5:09	gas	Fresh Fresh	29	Clear night	
	23-								
13	Nov	3:30-5:31	Marine 5	5:13	gas	McDonald's	2.1	Clear night	
			Marine						Driver
	25-		Drive						delayed 5
14	Nov	3:30-5:30	Building 4	3:38	Gas	subway	1	Rainy	mins
			Marine						
	25-		Drive		_		_		
14	Nov	3:30-5:30	Building 4	3:42	Gas	pho	3	Rainy	
	25		Marine						
1.4	25-	3:30-5:30	Drive	4.00	Coo	uhar aata ayabi	6	Deiny	
14	Nov	3:30-5:30	Building 4 Marine	4:09	Gas	uber eats - sushi	6	Rainy	
	25-		Drive						
14	Nov	3:30-5:30	Building 4	4:38	Gas	skip- breka	3.7	Rainy	
	1404	3.30 3.30	Marine	1.50		SKIP DI CKO	3.7	Ramy	
	25-		Drive						
14	Nov	3:30-5:30	Building 4	4:38	Gas	skip-Starbucks	0.5	Rainy	
			Marine			·			
	25-		Drive						
14	Nov	3:30-5:30	Building 4	4:56	Gas	uber eats- Bubble Tea	1	Rainy	
			Marine						
	25-		Drive						
14	Nov	3:30-5:30	Building 4	4:59	Gas	skip- Mcdonalds	1	Rainy	
	25-		Walter						
15	Nov	7:30-9:30	Gage	7:33	gas car	McDonalds	0.9	Rain	

	25-		Walter						
15	Nov	7:30-9:30	Gage	7:34	gas car	McDonalds	0.9	Rain	
	25-		Walter						
15	Nov	7:30-9:30	Gage	7:35	unknown	Unknown		Rain	Dooedash
	25-		Walter						
15	Nov	7:30-9:30	Gage	7:53	unknown	Munchicken Korean Bistro	8	Rain	
	25-		Walter						
15	Nov	7:30-9:30	Gage	7:59	unknown	Unknown		Rain	
	25-		Walter						
15	Nov	7:30-9:30	Gage	8:01	unknown	McDonalds	0.9	Rain	
	25-		Walter						
15	Nov	7:30-9:30	Gage	8:01	unknown	Body Energy Club	1.2	Rain	
	25-		Walter						
15	Nov	7:30-9:30	Gage	8:01	unknown	Unknown		Rain	
	25-		Walter						
15	Nov	7:30-9:30	Gage	8:05	unknown	Unknown		Rain	Doordash
	25-		Walter						
15	Nov	7:30-9:30	Gage	8:08	unknown	Unknown		Rain	Doordash
	25-		Walter						
15	Nov	7:30-9:30	Gage	8:23	unknown	Unknown		Rain	
	25-		Walter						
15	Nov	7:30-9:30	Gage	8:25	unknown	Unknown		Rain	alcohol?
	25-		Walter						
15	Nov	7:30-9:30	Gage	8:41	unknown	McDonalds	0.9	Rain	
	25-		Walter						
15	Nov	7:30-9:30	Gage	8:46	unknown	McDonalds	0.9	Rain	
	25-		Walter						
15	Nov	7:30-9:30	Gage	8:47	unknown	Chipotle	11.8	Rain	
	25-		Walter						
15	Nov	7:30-9:30	Gage	8:47	unknown	Unknown		Rain	
	25-		Walter				_		
15	Nov	7:30-9:30	Gage	8:48	unknown	Kokoro	0.9	Rain	

	25-		Walter						
15	Nov	7:30-9:30	Gage	8:56	unknown	Unknown		Rain	Doordash
	25-		Walter						
15	Nov	7:30-9:30	Gage	9:04	unknown	Unknown		Rain	
	25-		Walter						
15	Nov	7:30-9:30	Gage	9:09	unknown	Unknown		Rain	
	25-		Walter						
15	Nov	7:30-9:30	Gage	9:09	unknown	Unknown		Rain	
	23-								
16	Nov	7:30-9:30	Orchard	7:58	gas vehicle	Koi Sushi (4532 W 10th Ave)	4.2	Partly Cloudy 7C	
	23-					Dynasty Seafood Restaurant			
16	Nov	7:30-9:30	Orchard	8:06	gas vehicle	(108-777 W Broadway)	11	Partly Cloudy 6C	
	23-					Casereccio Foods (2480 Vine		,	
16	Nov	7:30-9:30	Orchard	8:10	gas vehicle	St.)	8.2	Partly Cloudy 7C	
	23-				3			, , .	
16	Nov	7:30-9:30	Orchard	8:10	gas vehicle	Koi Sushi (4532 W 10th Ave)	4.2	Partly Cloudy 7C	
	23-				<u> </u>	Vera's Burger Shack (2188		,	
16	Nov	7:30-9:30	Orchard	8:48	gas vehicle	Western Pkwy)	1.4	Partly Cloudy 7C	
10		7.30 3.30	Orchard	0.40	gus verneie	vesterrikwyy	1.4	Turtiy cloudy 7c	
16	23- Nov	7:30-9:30	Orchard	8:57	gas vehicle	Sun Sushi (4512 W 10th Ave)	4.3	Partly Cloudy 7C	
	23-				8 or commercial	Ben Gong's Tea (3318 Cambie			
16	Nov	7:30-9:30	Orchard	9:17	electric vehicle	St)	10.7	Partly Cloudy 7C	
10	1404	7.30-3.30	Officiald	5.17	Ciccuic venicie	30,	10.7	Tartiy Cloudy /C	
	23-		Walter						
17	Nov	3:30-5:30	Gage	3:37	Car (gas)			Sunny	
1	23-	3.55 3.55	Walter	3.37	-3. (0%)				
17	Nov	3:30-5:30	Gage	3:52	Car (gas)	Subway	1	Sunny	UberEats
	23-		Walter		,	,		,	
17	Nov	3:30-5:30	Gage	4:52	Car (gas)	Starbucks	0.5	Clear	

	23-		Walter					
17	Nov	3:30-5:30	Gage	4:59	Car (gas)	Subway	1	Clear
	23-		Walter					
17	Nov	3:30-5:30	Gage	5:05	Car (gas)	ShareTea	2	Clear
	23-		Walter					
17	Nov	3:30-5:30	Gage	5:10	Car (gas)			Clear
	23-		Walter					
17	Nov	3:30-5:30	Gage	5:17	Car (gas)	Donair Dude	7	Clear
	23-		Walter					
17	Nov	3:30-5:30	Gage	5:21	Car (gas)	Subway	1	Clear
	23-				gas vehicle (Toyota			
21	Nov	5:30-7:31	Gage	5:49	SUV)	Coco	1	Night/Cold
	23-							
21	Nov	5:30-7:32	Gage	6:06	gas vehicle	Ghost Thai?		Night/Cold
	23-							
21	Nov	5:30-7:33	Gage	6:09	gas vehicle	Koi Sushi	3	Night/Cold
	23-							
21	Nov	5:30-7:34	Gage	6:11	gas vehicle			Night/Cold
0.4	23-							
21	Nov	5:30-7:35	Gage	6:11	gas vehicle			Night/Cold
24	23-	F.20 7.20	Cago	6.11	gas vahiala			Night/Cold
21	Nov 23-	5:30-7:36	Gage	6:11	gas vehicle			Night/Cold
21	23- Nov	5:30-7:37	Gage	6:16	gas vehicle	Save On Foods	3	Night/Cold
21	23-	3.30-7.37	Jage	0.10	gas verille	Jave Off Loous	3	Nighty Colu
21	Nov	5:30-7:38	Gage	6:17	gas vehicle			Night/Cold
	23-	3.30 7.30	Juge	0.17	Pas remote			
21	Nov	5:30-7:39	Gage	6:23	gas vehicle	Kung Fu Noodles	1	Night/Cold
	23-		- 20-		0	. 0		0 -,
21		5:30-7:40	Gage	6:27	gas vehicle	McDonald's	1	Night/Cold

	23-		1					
21	Nov	5:30-7:41	Gage	6:29	gas vehicle	Ryuu	0.6	Night/Cold
	23-							
21	Nov	5:30-7:42	Gage	6:45	gas vehicle	McDonald's	1	Night/Cold
	23-							
21	Nov	5:30-7:43	Gage	6:50	gas vehicle			Night/Cold
24	23-	F 20 7 44	6	6.54		De esta de	_	Nichal (Cala)
21	Nov 23-	5:30-7:44	Gage	6:54	gas vehicle	Domino's	5	Night/Cold
21	23- Nov	5:30-7:45	Gage	7:06	gas vehicle			Night/Cold
21	23-	3.30-7.43	Gage	7.00	gas veriicie			Night/ Cold
21	Nov	5:30-7:46	Gage	7:22	gas vehicle	Pita Pit	1	Night/Cold
	_				0			0 4
	23-		Orchard					
22	Nov	5:30-7:30	Commons	5:37	_			Clear
	23-		Orchard					
22	Nov	5:30-7:30	Commons	5:40	No car	Triple O's	0.85	Clear
	23-		Orchard					
22		5:30-7:30	Commons	5:49	minivan	Costco Delivery	16.5	Clear
	23-		Orchard					
22	Nov	5:30-7:30	Commons	5:58	SUV	Uber Eats		Clear
	23-		Orchard					
22	Nov	5:30-7:30	Commons	6:07	-	Fantuan		Clear
	23-		Orchard					
22	Nov	5:30-7:30	Commons	6:23	-	Fantuan		Clear
	23-		Orchard					
22	Nov	5:30-7:30	Commons	6:27	-	-		Clear
	23-		Orchard					
22	Nov	5:30-7:30	Commons	6:36	Toyota	Fantuan		Clear
	23-		Orchard	-				
22	Nov	5:30-7:30	Commons	6:49	Kia	Uber Eats		Clear

	23-		Orchard						
22	Nov	5:30-7:30	Commons	7:09	Toyota Corolla	Uber Eats		Clear	
22	23- Nov	5:30-7:30	Orchard Commons	7:10	-	President's Choice		Clear	
22	23- Nov	5:30-7:30	Orchard Commons	7:20	Toyota Prius	Uber Eats		Clear	
22	23- Nov	5:30-7:30	Orchard Commons	7:26	Honda Civic	Fantuan		Clear	
22	23- Nov	5:30-7:30	Orchard Commons	7:28	Toyota Corolla	Fantuan		Clear	
24	26- Nov	3:30-5:30	Walter Gage	3:53	gas vehicle	Unknown (plastic food containers)	unknown	cloudy	No branding, or receipt on the outside of food bag.
24	26- Nov	3:30-5:30	Walter Gage	4:06	gas vehicle	My Home Cuisine (5728 University Blvd)	0.8	cloudy	No branding, white bag
24	26- Nov	3:30-5:30	Walter Gage	4:06	unknown	Chicko Chicken (8550 Granville St)	12.6	cloudy	a cup and a combo
24	26- Nov	3:30-5:30	Walter Gage	4:07	electric	Mr Mustache bubble tea (8079 Granville St)	12.6	cloudy	Branded bubble tea
24	26- Nov 26- Nov	3:30-5:30 3:30-5:30	Walter Gage Walter Gage	4:19 4:43	gas vehicle gas vehicle	Minami sushi (1118 Mainland St) McDonalds (5728 University Blvd)	10.8	cloudy	white unbranded plastic bag, 2 plastic boxes brown paper bag
24	26- Nov	3:30-5:30	Walter Gage	5:18	gas vehicle	YuShang Rice Noodle House(Ackroyd Rd, Richmond)	20	cloudy	white plastic bag with a lot of food

	24-		Orchard						
25	Nov	3:30-5:30	Commons	3:55	gas (van)	Koi Sushi (4523 W 10th Ave)	4.2	Overcast/windy	
	24-		Orchard			Nam Dae Moon (3779			
25	Nov	3:30-5:30	Commons	4:04	gas (van)	Sexsmith Road)	16.2	Overcast/windy	
	24-		Orchard					Overcast/windy/light	
25	Nov	3:30-5:30	Commons	4:22	gas (van)	Freshii (3351 Wesbrook Mall)	2.2	rain	
	24-		Orchard			International Food Court		Overcast/windy/light	
25	Nov	3:30-5:30	Commons	4:27	gas	(5762 University Blvd)	2.1	rain	
									Multiple
						Links are the second and discussion			meals
	24-		Orchard			Unknown, they ordered from WeChat and we were unable		Overcast/windy/light	delivered by driver to this
25	Nov	3:30-5:30	Commons	4:37	gas	to talk to the driver	N/A	rain	location
	24-	0.000	Orchard		8		,	Overcast/windy/light	
25	Nov	3:30-5:30	Commons	4:54	hybrid	SoloPasta (8620 Granville St)	11.7	rain	
	24-		Orchard		.,,	Steve's Poke Bar (5990		Overcast/windy/light	
25	Nov	3:30-5:30	Commons	4:58	gas (van)	University Blvd)	1.1	rain	
	24-		Orchard			Thai Basil (3257 West		Overcast/windy/light	
25	Nov	3:30-5:30	Commons	5:08	gas	Broadway)	6.7	rain	
	24-		Orchard			Tandoori Express (2138		Overcast/windy/light	
25	Nov	3:30-5:30	Commons	5:11	gas	Western Parkway)	1.3	rain	
	25-		Walter						
26	Nov	5:30 - 7:30	Gage	5:51	gas	Yun shang rice noodles	1.6	Rainy	
26	25-	F 20 7 22	Walter	F F2				D. C.	
26	Nov 25-	5:30 - 7:30	Gage	5:53	gas	unknown		Rainy	
26	25- Nov	5:30 - 7:30	Walter Gage	6:00	asc	dominos	7.6	Rainy	
20	25-	3.30 - 7.30	Walter	0.00	gas	dominios	7.0	Ivailiy	
26	Nov	5:30 - 7:30	Gage	6:15	gas	breka bakery	5.2	Rainy	

	25-		Walter						I
26	Nov	5:30 - 7:30	Gage	6:25	gas	save on foods	2.7	Rainy	groceries
	25-		Walter					-	
26	Nov	5:30 - 7:30	Gage	6:36	gas	save on foods	2.7	Rainy	groceries
	25-		Walter					-	
26	Nov	5:30 - 7:30	Gage	6:45	gas	unknown		Rainy	
	25-		Walter						
26	Nov	5:30 - 7:30	Gage	6:52	gas	kokoro	1.6	Rainy	
	25-		Walter						
26	Nov	5:30 - 7:30	Gage	6:56	gas	door dash		Rainy	
	25-		Walter						
26	Nov	5:30 - 7:30	Gage	6:57	gas	pizza hut	4.1	Rainy	
	25-		Walter						
26	Nov	5:30 - 7:30	Gage	6:59	gas	miyamae sushi	1.6	Rainy	
	25-		Walter						
26	Nov	5:30 - 7:30	Gage	7:12	gas	unknown		Rainy	
	25-		Walter						
26	Nov	5:30 - 7:30	Gage	7:16	gas	door dash		Rainy	
	25-		Walter						
26	Nov	5:30 - 7:30	Gage	7:26	gas	uber eats		Rainy	
	25-		Walter						
26	Nov	5:30 - 7:30	Gage			fantuan deliveries		Rainy	
	25-								
27	Nov	3:30-5:30	Totem	3:54	hybrid	Sen Pad Thai	7.7	Rainy night	
	25-								
27	Nov	3:30-5:30	Totem	4:05	gas	Chatime 5998 Uni. Blvd.	1.3	Rainy night	
	25-								
27	Nov	3:30-5:30	Totem	4:08	gas	3144 W. Broadway	7.2	Rainy night	
	25-								
27	Nov	3:30-5:30	Totem	4:33	gas	2182 Western Parkway	1.7	Rainy night	
	25-								
27	Nov	3:30-5:30	Totem	5:26	hybrid	6333 Larkin Drive	0.8	Rainy night	

28	23- Nov	3:30-5:30	Marine Drive building 6	3:59	Gas vehicle	Donair Town (5728 University Boulevard)	1.1	Clear	Uber Eats
28	23- Nov	3:30-5:30	Marine Drive building 6	4:23	Gas vehicle	Only U Cafe (5737 Dalhousie Road)	1.1	Clear	Uber Eats
28	23- Nov	3:30-5:30	Marine Drive building 6	4:30	Electric vehicle	Subway (2178 Western Parkway)	1.1	Clear	Uber Eats
28	23- Nov	3:30-5:30	Marine Drive building 6	4:41	Gas vehicle	World Malatang (6290 East Blvd)	9.1	Clear	Uber Eats
29	22- Nov	3:30-5:30 pm	Walter Gage	3:52	Gas vehicle	Chicken Chicken	20.1	Cloudy	Interacted with driver
29	22- Nov	3:30-5:30 pm	Walter Gage	3:54	Gas vehicle	Napolitano Pizzeria	8.3	Cloudy	Interacted with driver
29	22- Nov	3:30-5:30 pm	Walter Gage	4:00	Gas vehicle	Unknown Chinese restaurant	Unknown	Cloudy	Interacted with driver
29	22- Nov	3:30-5:30 pm	Walter Gage	4:00	Gas vehicle	7-Eleven	10.5	Cloudy	Interacted with driver
29	22- Nov	3:30-5:30 pm	Walter Gage	4:10	Unknown	Coco Bubble Tea	0.9	Cloudy	
29	22- Nov	3:30-5:30 pm	Walter Gage	4:34	Gas vehicle	A&W	1.6	Cloudy	Interacted with driver
29	22- Nov	3:30-5:30 pm	Walter Gage	4:42	Gas vehicle	Loblaws City Market	8	Cloudy	Interacted with driver
29	22- Nov	3:30-5:30 pm	Walter Gage	5:27	Gas vehicle	Raisu Mama's Kitchen	7.5	Cloudy	Interacted with driver

30	25- Nov	3:30-5:30 pm	Orchard	3:39	Honda Civic(small)	Casereccio	6.8	Heavy rain	
30	25- Nov	3:30-5:30 pm	Orchard	4:15	Mercedes(medium)	Sesame	0.7	Medium rain	2 consumers
30	25- Nov	3:30-5:30 pm	Orchard	4:27	Toyota(small)	Koerner Kitchen	0.75	Medium rain	
30	25- Nov	3:30-5:30 pm	Orchard	4:30	Hyundai(small)	Neptune(Chinese)	1.3	Medium rain	
30	25- Nov	3:30-5:30 pm	Orchard	4:52	Honda(small)	Doordash Gongcha	9.8	Medium rain	
30	25- Nov	3:30-5:30 pm	Orchard	5:02	Tesla (small)	N/A	N/A	Medium rain	Pick up for his/her friend