

Trip Generation for an averaged sized elementary school in Provo, Utah

Brigham Young University's ITE student chapter conducted a Trip Generation Study to determine the number of trips generated by an average sized elementary school. The data collected represents the average weekday trip generation for Wasatch Elementary School, an elementary school with 80 employees and 629 students. Wasatch Elementary School is located across the street from Brigham Young University. Vehicular traffic can only access the school from the front with a single entrance. Vehicles can exit using two exits onto a major street. Wasatch Elementary backs up to a large public park. Most students are dropped off and those who walk access the school from the back side of the building. Parking is free but is restricted to only those accessing the elementary school. During special school events requiring more parking, access to the school blacktop and basketball courts are opened up allowing for an adequate number of parking stalls for any school event. Use of the blacktop and basketball courts is restricted during the afternoon peak hour and is used as an access point for parents to line up in their vehicles and pick up their children. Two buses in the morning and afternoon are available for students who walk or are not driven by car. Field use to an adjacent field during counts was limited by the cold weather in February when the counts were taken.

The Average Trip Generation data is summarized in Table 1 with trip generation rates.

Table 1: Average Weekday Trip Generation Data

	Average Weekday (M-F)						Generation Rate
	Enter		Exit		Total		
	All	Truck	All	Truck	All	Truck	
AM Peak Hour of Adjacent Street (8:00 - 9:00 am)	190	2	156	2	346	4	0.55
PM Peak Hour of Adjacent Street (4:00 - 5:00 pm)	42	0	52	0	94	0	0.15
AM Peak Hour of Generator (7:45 - 8:45 am)	199	2	160	2	359	4	0.57
PM Peak Hour of Generator (3:00 - 4:00 pm)	100	3	119	3	218	6	0.35

A Trip Generation Study was also conducted to determine the trips generated by the elementary school during a day with a special after school activity. The data was collected the day of a school play that involved grades 3 through 6 held during the evening. The summary of the data collected the day of the activity is detailed in Table 2 with generation rates.

Table 2: Special After School Activity Day Trip Generation Data

	Day With After School Activity						Generation Rate
	Enter		Exit		Total		
	All	Truck	All	Truck	All	Truck	
AM Peak Hour of Adjacent Street (8:00 - 9:00 am)	247	3	189	3	436	6	0.69
PM Peak Hour of Adjacent Street (4:00 - 5:00 pm)	34	0	52	0	86	0	0.14
AM Peak Hour of Generator (7:45 - 8:45 am)	266	4	186	4	452	8	0.72
PM Peak Hour of Generator (3:00 - 4:00 pm)	111	3	135	3	246	6	0.39
Peak Hour Generator (After School Activity)	117	0	52	0	169	0	0.27

Under land use code 520, Wasatch Elementary School remains on the high end of the trip generation rates as found in ITE’s Trip Generation, 7th Edition, Volume 3. While the number of students is around average, the number of employees is above average. Some of these are part time employees which accounts for the higher number of employees in comparison to other similar elementary schools. Since a large part of elementary school students live outside of walking distances for elementary school children, it is largely a commuter school. Most students are dropped off by a car or by the bus. This also accounts for the higher trip generation rates as compared to other elementary schools of similar size.

There is a discrepancy between the average weekday trip generations and the special after school activity day trip generations. Higher numbers of vehicles during peak hours during the day with the special activity suggests that more parents dropped off their kids on this particular day. There is also time shift of trip generations and an increase of trip generations on the special activity day from the average weekday. It is possible that students needed to arrive earlier on this particular day and therefore did not ride the bus and were dropped off instead. Afternoon trip generations were also increased. Teachers and students left school premises sooner so they could return later that evening, which in turn increased the peak hour generations. Varied trip generations for the day of the special activity was anticipated because of possible multi trip needs and less carpooling of parents and students of Wasatch Elementary.

Counts of walking and biking students were not taken from the back of the building. Walking traffic was usually limited to the back of the building. The maximum generation within any hour of counting toward the front of the building was 15. Most of these were generated by college students volunteering at the school walking to and from the elementary school. There were days that no pedestrians came at all during survey times. There was no consistency in the number of pedestrian generations to the front of the elementary school.

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Trip Generation Data Form (Part 1)

Land Use/Building Type: ¹ <u>Elementary School</u>			ITE Land Use Code: <u>520</u>		
Source:			Source No. (ITE use only):		
Name of Development: <u>Wasatch Elementary School</u>			Day of the Week: <u>Tuesday, Wednesday, Thursday</u>		
City: <u>Provo</u>	State/Province: <u>Utah</u>	Zip/Postal Code: <u>84604</u>	Day: <u>21, 26, 27, 28</u>	Month: <u>Feb.</u>	Year: <u>2008</u>
Country: <u>USA</u>			Metropolitan Area: <u>Utah County</u>		

1. For fast-food land use, please specify if hamburger- or nonhamburger-based.

Location Within Area: <input type="checkbox"/> (1) CBD <input type="checkbox"/> (2) Urban (Non-CBD) <input checked="" type="checkbox"/> (3) Suburban (Non-CBD) <input type="checkbox"/> (4) Suburban CBD <input type="checkbox"/> (5) Rural <input type="checkbox"/> (6) Freeway Interchange Area (Rural) <input type="checkbox"/> (7) Not Given				Detailed Description of Development: ³	
Independent Variable: (include data for as many as possible) ²					
	Actual	Estimated		Actual	Estimated
<u>80</u> (1) Employees (#)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____ (10) Parking Spaces (#)	<input type="checkbox"/>	<input type="checkbox"/>
<u>629</u> (2) Persons (#) (students)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____ (11) Occupied Beds (#)	<input type="checkbox"/>	<input type="checkbox"/>
_____ (3) Units (#)	<input type="checkbox"/>	<input type="checkbox"/>	_____ (12) Seats (#)	<input type="checkbox"/>	<input type="checkbox"/>
_____ (4) Occupied Units (#)	<input type="checkbox"/>	<input type="checkbox"/>	_____ (13) Servicing Positions/Vehicle Fueling Positions _____	<input type="checkbox"/>	<input type="checkbox"/>
_____ (5) Gross Floor Area (gross sq. ft.) (% of development occupied _____)	<input type="checkbox"/>	<input type="checkbox"/>	_____ (14) Shopping Center % Out-parcels/pads	<input type="checkbox"/>	<input type="checkbox"/>
_____ (6) Net Rentable Area (sq. ft.)	<input type="checkbox"/>	<input type="checkbox"/>	<u>1561</u> (15) A.M. Peak Hour Volume of Adjacent Street Traffic	<input type="checkbox"/>	<input checked="" type="checkbox"/>
_____ (7) Gross Leasable Area (sq. ft.)	<input type="checkbox"/>	<input type="checkbox"/>	<u>2057</u> (16) P.M. Peak Hour Volume of Adjacent Street Traffic	<input type="checkbox"/>	<input checked="" type="checkbox"/>
_____ (8) Occupied Gross Leasable Area (sq. ft.)	<input type="checkbox"/>	<input type="checkbox"/>	_____ (17) Other _____	<input type="checkbox"/>	<input type="checkbox"/>
_____ (9) Acres	<input type="checkbox"/>	<input type="checkbox"/>	_____ (18) Other _____	<input type="checkbox"/>	<input type="checkbox"/>

2. Definitions for several independent variables can be found in the Trip Generation Handbook Glossary.

3. Please provide all pertinent information that helps to describe the subject project. If necessary, attach a detailed report.

Other Data: Vehicle Occupancy (#) _____ A.M. _____ P.M. _____ 24-hour % Percent by Transit: _____ A.M. % _____ P.M. % _____ 24-hour % Percent by Carpool/Vanpool: _____ A.M. % _____ P.M. % _____ 24-hour %		Transportation Demand Management (TDM) Information: At the time of this study, was there a TDM program (that may have impacted the trip generation characteristics of this site) underway? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (If yes, please check appropriate box/boxes, describe the nature of the TDM program(s) and provide a source for any studies that may help quantify this impact. Attach additional sheets if necessary)													
Employees by Shift: <table border="0"> <tr> <td>First Shift:</td> <td>Start Time _____</td> <td>End Time _____</td> <td>Employees (#) _____</td> </tr> <tr> <td>Second Shift:</td> <td>Start Time _____</td> <td>End Time _____</td> <td>Employees (#) _____</td> </tr> <tr> <td>Third Shift:</td> <td>Start Time _____</td> <td>End Time _____</td> <td>Employees (#) _____</td> </tr> </table>		First Shift:	Start Time _____	End Time _____	Employees (#) _____	Second Shift:	Start Time _____	End Time _____	Employees (#) _____	Third Shift:	Start Time _____	End Time _____	Employees (#) _____	<input type="checkbox"/> (1) Transit Service <input type="checkbox"/> (2) Carpool Programs <input type="checkbox"/> (3) Vanpool Programs <input type="checkbox"/> (4) Bicycle/Pedestrian Facilities and Site Improvements <input type="checkbox"/> (5) Employer Support Measures <input type="checkbox"/> (6) Preferential HOV Treatments <input type="checkbox"/> (7) Transit and Ridesharing Incentives <input type="checkbox"/> (8) Parking Supply and Pricing Management <input type="checkbox"/> (9) Tolls and Congestion Pricing <input type="checkbox"/> (10) Variable Work Hours/Compressed Work Weeks <input type="checkbox"/> (11) Telecommuting <input type="checkbox"/> (12) Other _____	
First Shift:	Start Time _____	End Time _____	Employees (#) _____												
Second Shift:	Start Time _____	End Time _____	Employees (#) _____												
Third Shift:	Start Time _____	End Time _____	Employees (#) _____												
Parking Cost on Site: Hourly _____ Daily _____															

Please Complete Form on Other Side

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Trip Generation Data Form (Part 2)

Summary of Driveway Volumes

(All = All Vehicles Counted, Including Trucks; Trucks = Heavy Duty Trucks and Buses)

	Average Weekday (M-F)						Saturday After School Activity						Sunday					
	Enter		Exit		Total		Enter		Exit		Total		Enter		Exit		Total	
	All	Trucks	All	Trucks	All	Trucks	All	Trucks	All	Trucks	All	Trucks	All	Trucks	All	Trucks	All	Trucks
24-Hour Volume																		
A.M. Peak Hour of Adjacent ¹ Street Traffic (7-9) 8:00- Time (ex.: 7:15-8:15): 7:00	190	2	156	2	346	4	247	3	189	3	436	6						
P.M. Peak Hour of Adjacent ¹ Street Traffic (4-6) Time: 4:00-5:00	42	0	52	0	94	0	34	0	52	0	86	0						
A.M. Peak Hour Generator ² Time: 7:45-8:45	199	2	160	2	359	4	266	4	186	4	452	8						
P.M. Peak Hour Generator ² Time: 3:00-4:00	100	3	118	3	218	6	111	3	135	3	240	6						
Peak Hour Generator ³ Time (Weekend): 5:30-6:30							117	0	52	0	169	0						

1. Highest hourly volume between 7 AM and 9 AM (4 PM and 6 PM).

2. Highest hourly volume during the AM or PM period.

3. Highest hourly volume during the entire day.

Please refer to the *Trip Generation User's Guide* for full definition of the terms.

Hourly Driveway Volumes- Average Weekday (M-F)

A.M. Period	Enter		Exit		Total		Mid-Day Period	Enter		Exit		Total		P.M. Period	Enter		Exit		Total	
	All	Trucks	All	Trucks	All	Trucks		All	Trucks	All	Trucks	All	Trucks		All	Trucks	All	Trucks	All	Trucks
6:00-7:00							11:00-12:00							3:00-4:00	100	3	118	3	218	6
6:15-7:15							11:15-12:15	74	1	78	1	152	2	3:15-4:15	70	2	122	3	192	5
6:30-7:30							11:30-12:30	57	2	57	2	114	4	3:30-4:30	41	1	71	1	112	2
6:45-7:45							11:45-12:45							3:45-4:45	41	0	56	0	97	0
7:00-8:00	49	0	29	1	78	1	12:00-1:00							4:00-5:00	42	0	52	0	94	0
7:15-8:15	84	0	50	1	134	1	12:15-1:15							4:15-5:15						
7:30-8:30	192	2	130	2	322	4	12:30-1:30							4:30-5:30						
7:45-8:45	199	2	160	2	359	4	12:45-1:45							4:45-5:45						
8:00-9:00	190	2	156	2	346	4	1:00-2:00							5:00-6:00						

Check if Part 3 and/or additional information is attached.

Survey conducted by: Name: Taylor Forbush / Mike Merkley
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 City/State/Zip: Provo, UT 84602
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 ITE on the Web: www.ite.org

Trip Generation Data Form (Part 3)

Name/Organization: BYU ITE Student Chapter City/State: Provo, UT
 Telephone Number: 801-422-2685

Detailed Driveway Volumes: Attach this sheet to Parts 1 and 2 if you are providing additional information.

Day of the week: Thursday (21 Feb. 2008) (All = All Vehicles Counted, Except Trucks; Trucks = Heavy Duty Trucks and Buses)

A.M. Period	Enter		Exit		Total		P.M. Period	Enter		Exit		Total	
	All	Trucks	All	Trucks	All	Trucks		All	Trucks	All	Trucks	All	Trucks
12:00-12:15							12:00-12:15						
12:15-12:30							12:15-12:30						
12:30-12:45							12:30-12:45						
12:45-1:00							12:45-1:00						
1:00-1:15							1:00-1:15						
1:15-1:30							1:15-1:30						
1:30-1:45							1:30-1:45						
1:45-2:00							1:45-2:00						
2:00-2:15							2:00-2:15						
2:15-2:30							2:15-2:30						
2:30-2:45							2:30-2:45						
2:45-3:00							2:45-3:00						
3:00-3:15							3:00-3:15	46	2	6		52	2
3:15-3:30							3:15-3:30	43	1	86	2	129	3
3:30-3:45							3:30-3:45	10		34	1	44	1
3:45-4:00							3:45-4:00	12		9		21	
4:00-4:15							4:00-4:15	7		13		20	
4:15-4:30							4:15-4:30	10		20		30	
4:30-4:45							4:30-4:45	11		12		23	
4:45-5:00							4:45-5:00	6		7		13	
5:00-5:15							5:00-5:15						
5:15-5:30							5:15-5:30						
5:30-5:45							5:30-5:45	15		13		28	
5:45-6:00							5:45-6:00	42		28		70	
6:00-6:15							6:00-6:15	23		8		31	
6:15-6:30							6:15-6:30	37		3		40	
6:30-6:45							6:30-6:45	20				20	
6:45-7:00							6:45-7:00	3		9		12	
7:00-7:15	1				1		7:00-7:15	2		50		52	
7:15-7:30	3		5		8		7:15-7:30	1		43		44	
7:30-7:45	13		7		20		7:30-7:45						
7:45-8:00	21	1	4	1	25	2	7:45-8:00						
8:00-8:15	54	3	27	1	81	4	8:00-8:15						
8:15-8:30	149		105	2	254	2	8:15-8:30						
8:30-8:45	42		50		92		8:30-8:45						
8:45-9:00	2		7		9		8:45-9:00						
9:00-9:15							9:00-9:15						
9:15-9:30							9:15-9:30						
9:30-9:45							9:30-9:45						
9:45-10:00							9:45-10:00						
10:00-10:15							10:00-10:15						
10:15-10:30							10:15-10:30						
10:30-10:45							10:30-10:45						
10:45-11:00							10:45-11:00						
11:00-11:15							11:00-11:15						
11:15-11:30							11:15-11:30						
11:30-11:45							11:30-11:45						
11:45-12:00							11:45-12:00						

* Day of after school activity

Trip Generation Data Form (Part 3)

Name/Organization: BYU ITE Student Chapter City/State: Provo, UT
 Telephone Number: 801-422-2685

Detailed Driveway Volumes: Attach this sheet to Parts 1 and 2 if you are providing additional information.

Day of the week: Tuesday (26 Feb 2008) (All = All Vehicles Counted, Except Trucks; Trucks = Heavy Duty Trucks and Buses)

A.M. Period	Enter		Exit		Total		P.M. Period	Enter		Exit		Total	
	All	Trucks	All	Trucks	All	Trucks		All	Trucks	All	Trucks	All	Trucks
12:00-12:15							12:00-12:15	13		13		26	
12:15-12:30							12:15-12:30	3		3		6	
12:30-12:45							12:30-12:45						
12:45-1:00							12:45-1:00						
1:00-1:15							1:00-1:15						
1:15-1:30							1:15-1:30						
1:30-1:45							1:30-1:45						
1:45-2:00							1:45-2:00						
2:00-2:15							2:00-2:15						
2:15-2:30							2:15-2:30						
2:30-2:45							2:30-2:45						
2:45-3:00							2:45-3:00						
3:00-3:15							3:00-3:15	42	1	11		53	1
3:15-3:30							3:15-3:30	40	1	54	2	94	3
3:30-3:45							3:30-3:45	17	1	19	1	36	2
3:45-4:00							3:45-4:00	1		2		3	
4:00-4:15							4:00-4:15	2		2		4	
4:15-4:30							4:15-4:30	8		19		27	
4:30-4:45							4:30-4:45	15		9		24	
4:45-5:00							4:45-5:00	7		8		15	
5:00-5:15							5:00-5:15						
5:15-5:30							5:15-5:30						
5:30-5:45							5:30-5:45						
5:45-6:00							5:45-6:00						
6:00-6:15							6:00-6:15						
6:15-6:30							6:15-6:30						
6:30-6:45							6:30-6:45						
6:45-7:00							6:45-7:00						
7:00-7:15	1				1		7:00-7:15						
7:15-7:30	4		5		9		7:15-7:30						
7:30-7:45	8		6		14		7:30-7:45						
7:45-8:00	24		7		31		7:45-8:00						
8:00-8:15	35		26		61		8:00-8:15						
8:15-8:30	128	2	90	2	218	4	8:15-8:30						
8:30-8:45	23		37		60		8:30-8:45						
8:45-9:00	7		2		9		8:45-9:00						
9:00-9:15							9:00-9:15						
9:15-9:30							9:15-9:30						
9:30-9:45							9:30-9:45						
9:45-10:00							9:45-10:00						
10:00-10:15							10:00-10:15						
10:15-10:30							10:15-10:30						
10:30-10:45	2		6		8		10:30-10:45						
10:45-11:00	5		4		9		10:45-11:00						
11:00-11:15	8	1	12	1	20	2	11:00-11:15						
11:15-11:30	26		24		50		11:15-11:30						
11:30-11:45	12		24		36		11:30-11:45						
11:45-12:00	30		18		48		11:45-12:00						

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Trip Generation Data Form (Part 3)

Name/Organization: BYU ITE Student Chapter City/State: Provo, UT
 Telephone Number: 801-422-2685

Detailed Driveway Volumes: Attach this sheet to Parts 1 and 2 if you are providing additional information.

Day of the week: Wednesday (27 Feb. 2008) (All = All Vehicles Counted, Except Trucks; Trucks = Heavy Duty Trucks and Buses)

A.M. Period	Enter		Exit		Total		P.M. Period	Enter		Exit		Total	
	All	Trucks	All	Trucks	All	Trucks		All	Trucks	All	Trucks	All	Trucks
12:00-12:15							12:00-12:15	17		13		30	
12:15-12:30							12:15-12:30	2		5		7	
12:30-12:45							12:30-12:45						
12:45-1:00							12:45-1:00						
1:00-1:15							1:00-1:15						
1:15-1:30							1:15-1:30						
1:30-1:45							1:30-1:45						
1:45-2:00							1:45-2:00						
2:00-2:15							2:00-2:15						
2:15-2:30							2:15-2:30						
2:30-2:45							2:30-2:45						
2:45-3:00							2:45-3:00						
3:00-3:15							3:00-3:15	29	1	3		32	1
3:15-3:30							3:15-3:30	48	1	83	2	132	3
3:30-3:45							3:30-3:45	12		26		38	
3:45-4:00							3:45-4:00	10		13		23	
4:00-4:15							4:00-4:15	14		26		40	
4:15-4:30							4:15-4:30	12		19		31	
4:30-4:45							4:30-4:45	11		9		20	
4:45-5:00							4:45-5:00	11		9		20	
5:00-5:15							5:00-5:15						
5:15-5:30							5:15-5:30						
5:30-5:45							5:30-5:45						
5:45-6:00							5:45-6:00						
6:00-6:15							6:00-6:15						
6:15-6:30							6:15-6:30						
6:30-6:45							6:30-6:45						
6:45-7:00							6:45-7:00						
7:00-7:15	4		2		6		7:00-7:15						
7:15-7:30	13		9		22		7:15-7:30						
7:30-7:45	40		21		61		7:30-7:45						
7:45-8:00	22		18		40		7:45-8:00						
8:00-8:15	34		23		57		8:00-8:15						
8:15-8:30	112	2	93	2	205	4	8:15-8:30						
8:30-8:45	23		29		52		8:30-8:45						
8:45-9:00	11		7		18		8:45-9:00						
9:00-9:15							9:00-9:15						
9:15-9:30							9:15-9:30						
9:30-9:45							9:30-9:45						
9:45-10:00							9:45-10:00						
10:00-10:15							10:00-10:15						
10:15-10:30							10:15-10:30						
10:30-10:45	5		4		9		10:30-10:45						
10:45-11:00	3		5		8		10:45-11:00						
11:00-11:15	5	1	8	1	13	2	11:00-11:15						
11:15-11:30	23		25		48		11:15-11:30						
11:30-11:45	8		19		27		11:30-11:45						
11:45-12:00	26		23		49		11:45-12:00						

Trip Generation Data Form (Part 3)

Name/Organization: BYU ITE Student Chapter City/State: Provo, VT
 Telephone Number: 801-422-2685

Detailed Driveway Volumes: Attach this sheet to Parts 1 and 2 if you are providing additional information.

Day of the week: Thursday (28 Feb. 2008) (All = All Vehicles Counted, Except Trucks; Trucks = Heavy Duty Trucks and Buses)

A.M. Period	Enter		Exit		Total		P.M. Period	Enter		Exit		Total	
	All	Trucks	All	Trucks	All	Trucks		All	Trucks	All	Trucks	All	Trucks
12:00-12:15							12:00-12:15	5	3	11		16	3
12:15-12:30							12:15-12:30	13	2	4	4	17	6
12:30-12:45							12:30-12:45				1		
12:45-1:00							12:45-1:00						
1:00-1:15							1:00-1:15						
1:15-1:30							1:15-1:30						
1:30-1:45							1:30-1:45						
1:45-2:00							1:45-2:00						
2:00-2:15							2:00-2:15						
2:15-2:30							2:15-2:30						
2:30-2:45							2:30-2:45						
2:45-3:00							2:45-3:00						
3:00-3:15							3:00-3:15	45	1	11		56	1
3:15-3:30							3:15-3:30	35	1	81	2	116	3
3:30-3:45							3:30-3:45	13	1	30	1	43	2
3:45-4:00							3:45-4:00	8		21		29	
4:00-4:15							4:00-4:15	10		9		19	
4:15-4:30							4:15-4:30	15		26		41	
4:30-4:45							4:30-4:45	17		12		29	
4:45-5:00							4:45-5:00	4		9		13	
5:00-5:15							5:00-5:15						
5:15-5:30							5:15-5:30						
5:30-5:45							5:30-5:45						
5:45-6:00							5:45-6:00						
6:00-6:15							6:00-6:15						
6:15-6:30							6:15-6:30						
6:30-6:45							6:30-6:45						
6:45-7:00							6:45-7:00						
7:00-7:15	3		2		5		7:00-7:15						
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7:45-8:00	9		2		11		7:45-8:00						
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8:45-9:00	9		6		15		8:45-9:00						
9:00-9:15							9:00-9:15						
9:15-9:30							9:15-9:30						
9:30-9:45							9:30-9:45						
9:45-10:00							9:45-10:00						
10:00-10:15							10:00-10:15						
10:15-10:30							10:15-10:30						
10:30-10:45	3	1	6	1	9	2	10:30-10:45						
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11:15-11:30	22		25		47		11:15-11:30						
11:30-11:45	9		14		23		11:30-11:45						
11:45-12:00	32	1	25	1	57	2	11:45-12:00						