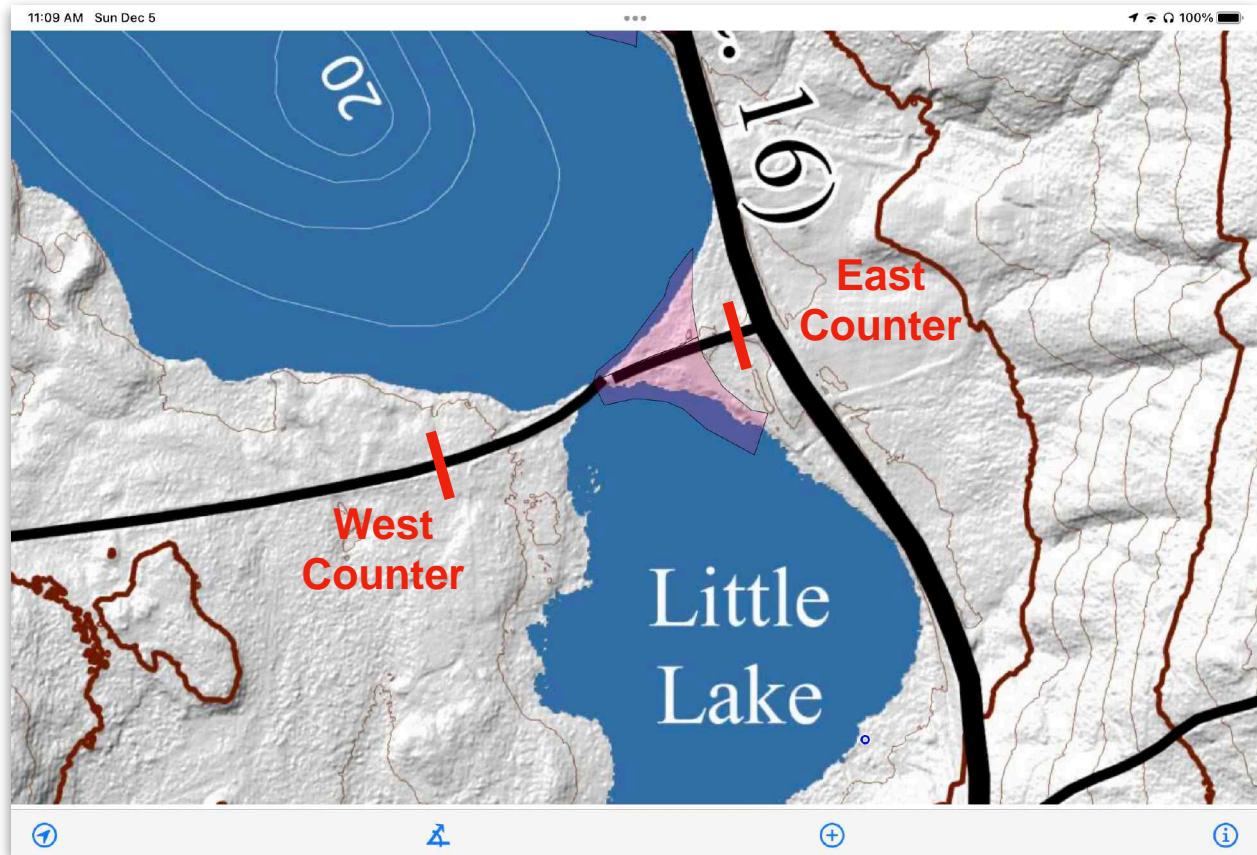


# Summary of Traffic Monitoring, Summer 2021

R. W. Allmendinger, Dec. 6, 2021

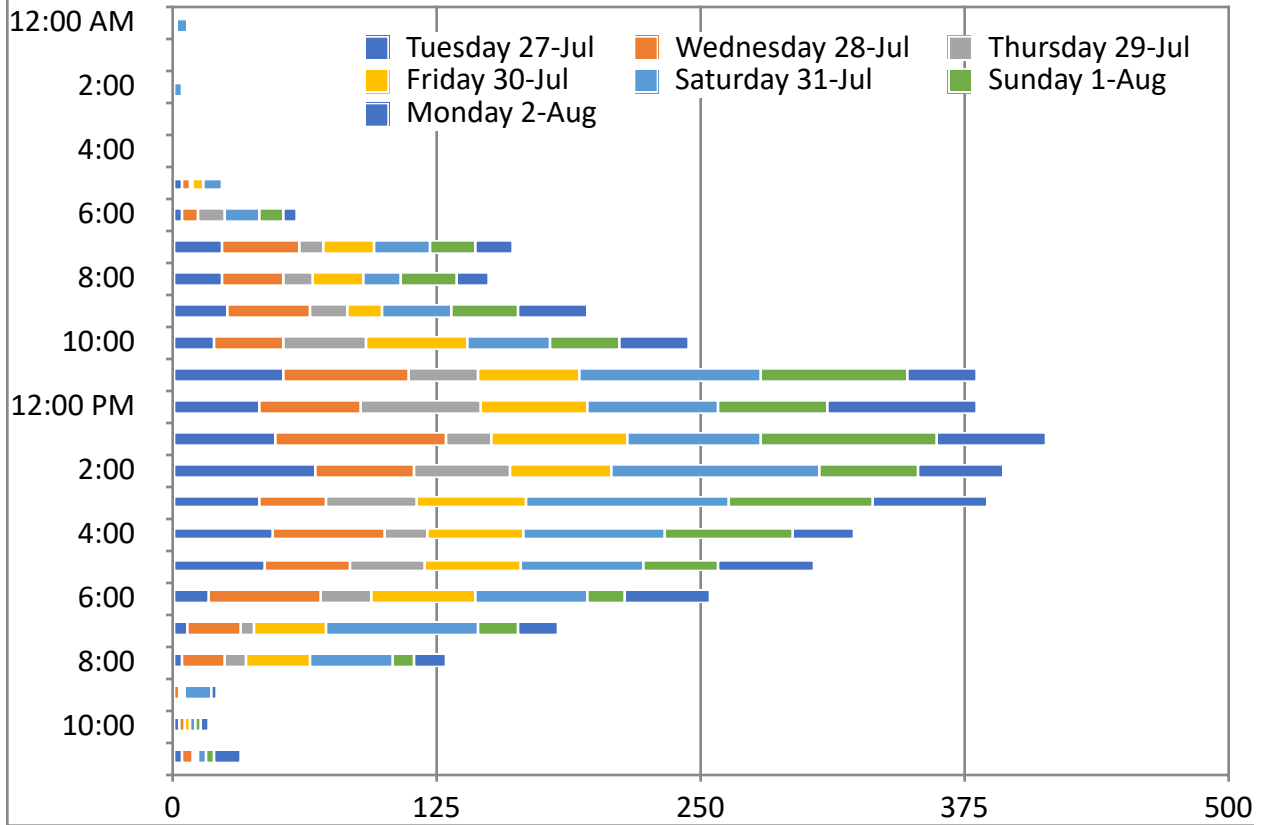


The traffic counters were deployed by the Lakes Region Planning Commission from 27 July to 3 August, 2021 based on a request from the CLC LPMC and Richard Roberts, the Tamworth town road agent. The effective monitoring time was 6 days as the counters were installed at 10 am on a Tuesday and pulled out at 11 am on the following Tuesday. In the graphics, that follow, I have combined Tuesday, 7/27 with Tuesday 8/3. Having two counters east and west of the Grove allowed us identify the number of cars destined for the Grove versus through traffic on Chocorua Lake Road (by subtracting the west counter from the east counter). The Grove traffic number should be divided by two as the same car crosses the counter twice, once entering and once exiting the Grove.

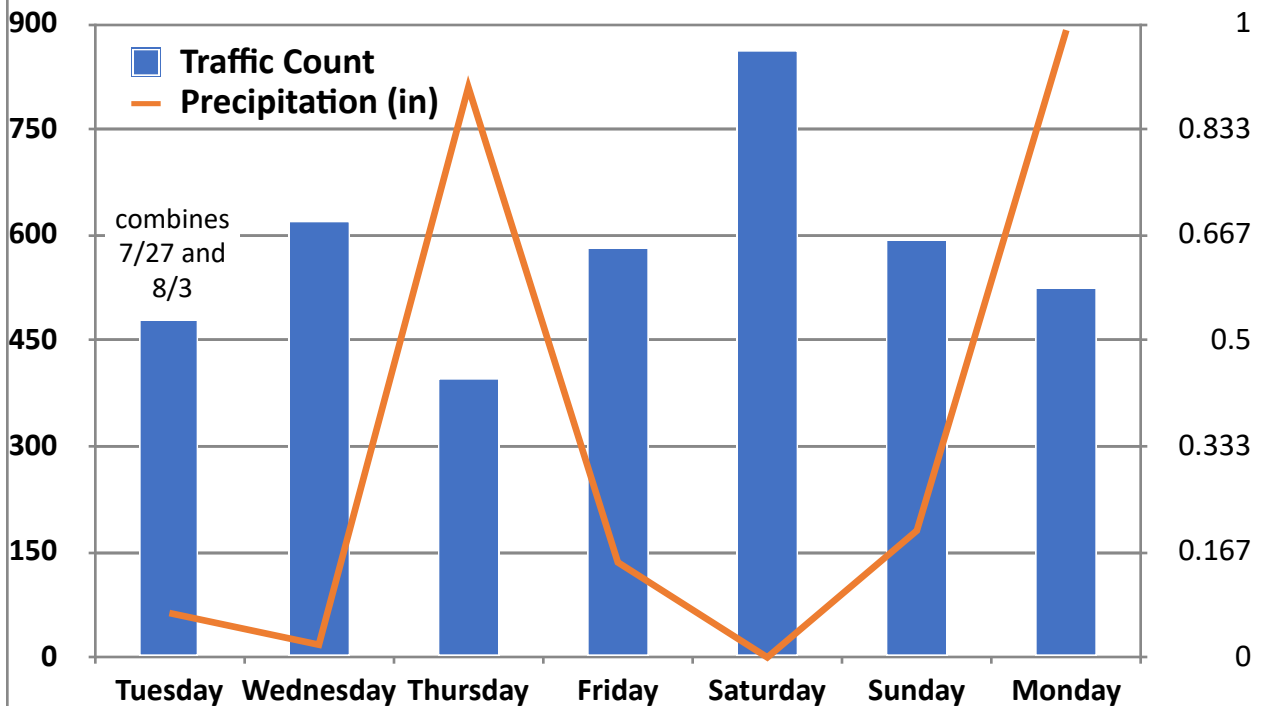
The data provide an interesting snapshot of usage patterns but without a time series spanning multiple weeks and multiple years (covering the same time span, each year), it will be difficult to utilize these data to their full potential. Some highlights from the counts which are depicted graphically on subsequent pages:

- Maximum number of cars visiting the Grove occurs between 11 am and 3 pm.
- The day with maximum vehicular visitors to the Grove is Saturday at 862 counts (431 cars). All other days of the week showed similar level of traffic (480-600 counts; 240-300 cars) except for Thursday.
- On Thursday July 29th, the area received 0.9" of rain. The fact that there is a significant dip in the east counter but not the west counter suggests that the rain not surprisingly discouraged visitors to the Grove but not the largely through/local traffic on Chocorua Lake Rd west of the Grove.
- Thursday and Monday each had nearly an inch of rain but, remarkably, the Grove received 200 to 260 visiting cars.
- The total number of cars turning onto, or off of, Route 16 on Chocorua Lake Road (East Counter) was more than 5700 over the week, reaching a high of nearly 1200 cars on Saturday. The average daily turns were  $820 \pm 184$ . These number should be used when advocating for a turning lane on Rt. 16. That is a lot of accidents waiting to happen!
- Traffic west of the bridge is highest on Saturday with increased traffic on Friday and Sunday (people making weekend visits to their homes or to weekend rentals?). Otherwise daily traffic averages about 200 cars a day. As mentioned above, the fact that a rainy day probably caused a dip in the east counter but not the west indicates that at most of the west traffic is local.
- Friday traffic on the west counter during the 6 pm time bin is higher than at any other day of the week also potentially indicating increased start of weekend visits to properties west of the Narrows Bridge.

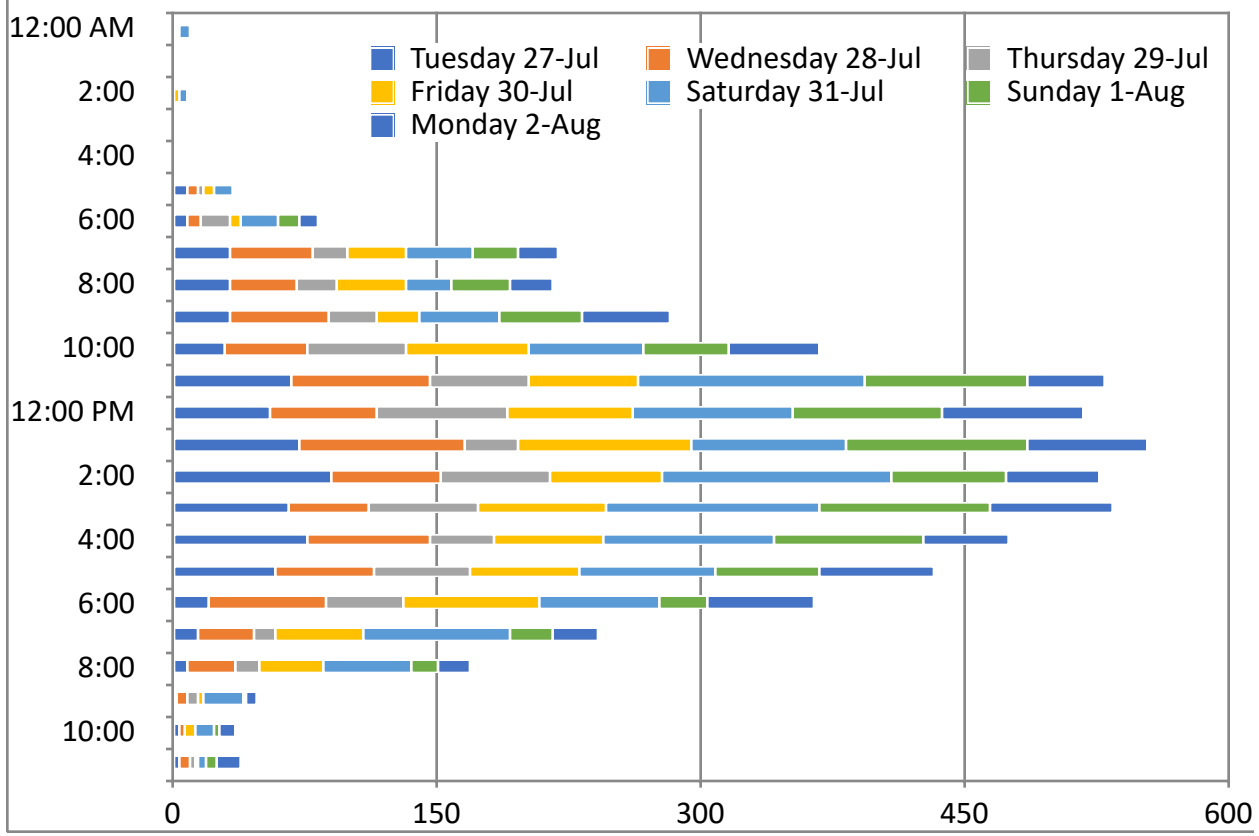
### Traffic by Hour, Grove



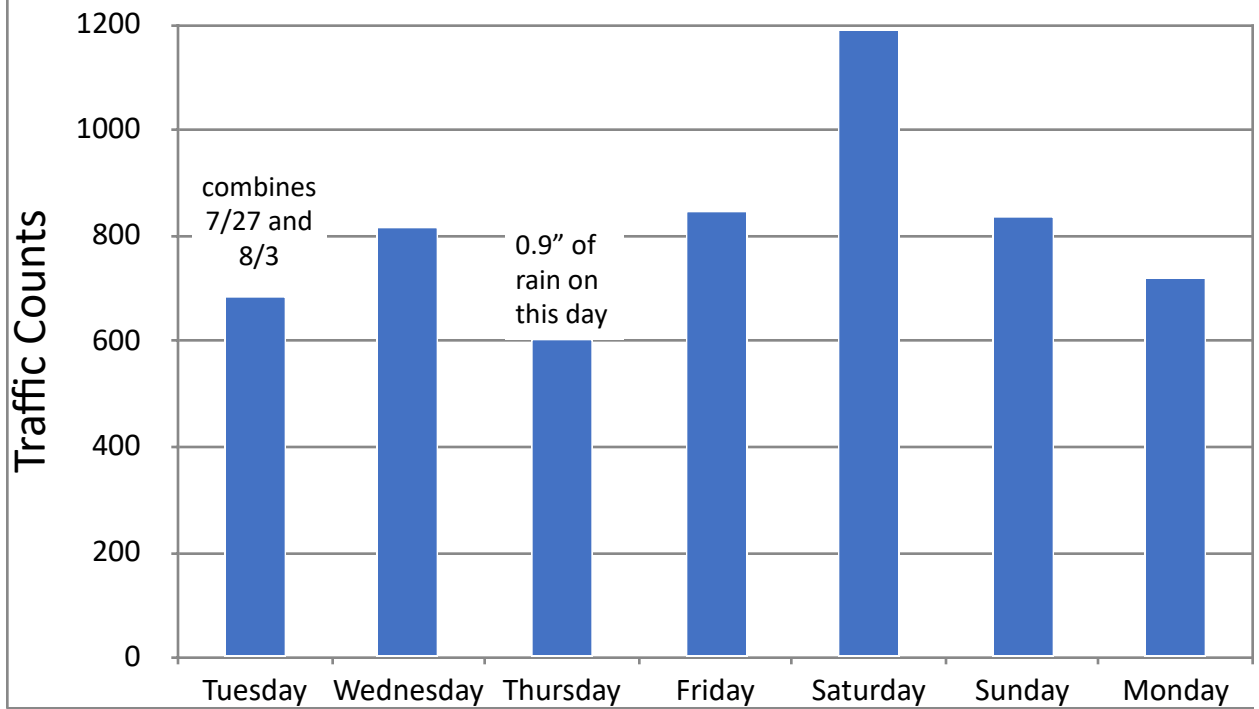
### Traffic, Precipitation by Day, Grove



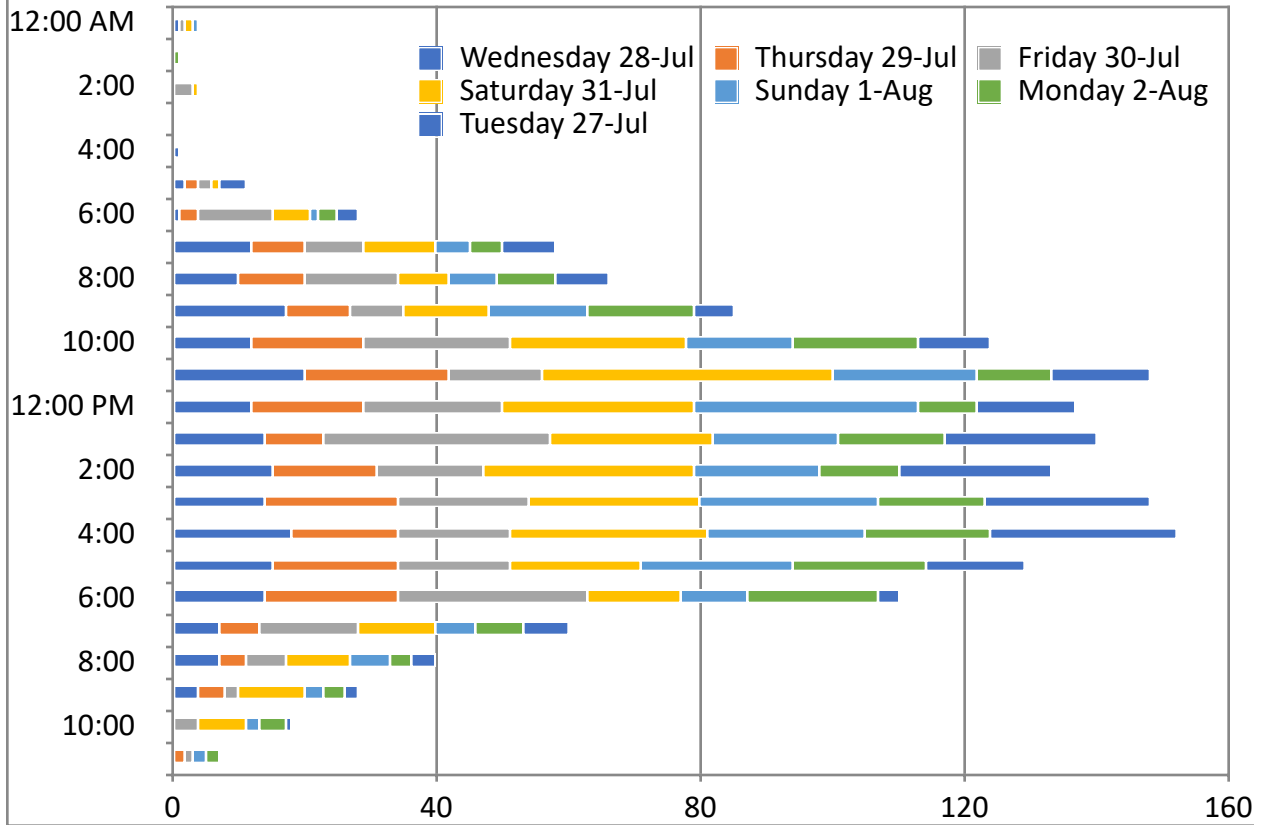
### Traffic by Hour, East Counter



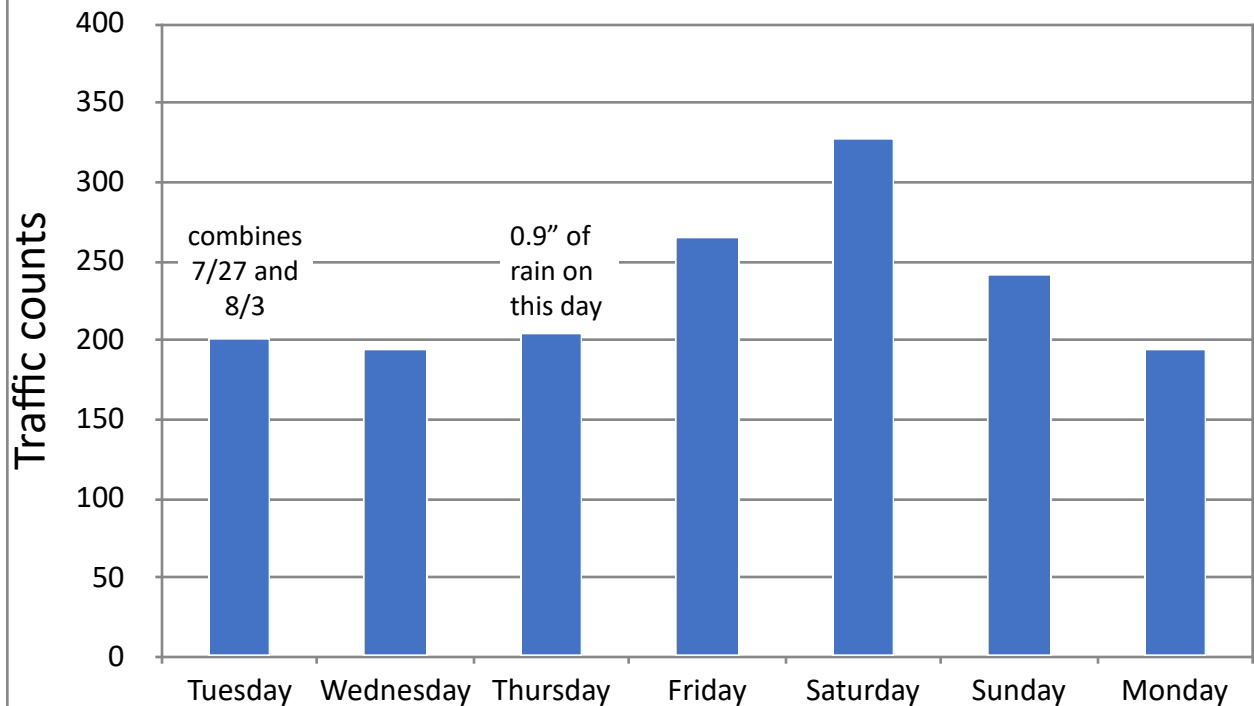
### Total Traffic by Day, East Counter



### Traffic by Hour, West Counter



### Traffic by Day, West Counter



## West Counter Data

	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday
TimeSpecific	27-Jul	28-Jul	29-Jul	30-Jul	31-Jul	1-Aug	2-Aug	3-Aug
12:00 AM		1	0	1	1	1	0	0
1:00		0	0	0	0	0	1	0
2:00		0	0	3	1	0	0	0
3:00		0	0	0	0	0	0	0
4:00		0	0	0	0	0	0	1
5:00		2	2	2	1	0	0	4
6:00		1	3	11	6	1	3	3
7:00		12	8	9	11	5	5	8
8:00		10	10	14	8	7	9	8
9:00		17	10	8	13	15	16	6
10:00	11	12	17	22	27	16	19	7
11:00	15	20	22	14	44	22	11	
12:00 PM	15	12	17	21	29	34	9	
1:00	23	14	9	34	25	19	16	
2:00	23	15	16	16	32	19	12	
3:00	25	14	20	20	26	27	16	
4:00	28	18	16	17	30	24	19	
5:00	15	15	19	17	20	23	20	
6:00	3	14	20	29	14	10	20	
7:00	7	7	6	15	12	6	7	
8:00	4	7	4	6	10	6	3	
9:00	2	4	4	2	10	3	3	
10:00	1	0	0	4	7	2	4	
11:00	0	0	2	1	0	2	2	
<b>Total</b>	<b>172</b>	<b>195</b>	<b>205</b>	<b>266</b>	<b>327</b>	<b>242</b>	<b>195</b>	<b>37</b>

## East Counter Data

	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday
TimeSpecific	27-Jul	28-Jul	29-Jul	30-Jul	31-Jul	1-Aug	2-Aug	3-Aug
12:00 AM		1	0	1	6	2	0	2
1:00		0	0	0	1	0	2	0
2:00		0	0	4	4	0	0	0
3:00		0	0	0	0	0	0	0
4:00		0	0	0	0	0	0	2
5:00		6	3	7	10	0	0	8
6:00		8	16	6	22	12	10	8
7:00		48	20	32	38	26	23	32
8:00		38	24	38	26	34	24	32
9:00		56	28	24	46	46	50	32
10:00	30	46	56	70	66	48	52	44
11:00	67	80	55	62	129	92	44	
12:00 PM	56	60	74	72	90	86	80	
1:00	72	94	31	98	88	103	68	
2:00	90	62	62	64	130	66	52	
3:00	66	46	62	72	122	96	70	
4:00	76	70	37	62	97	85	48	
5:00	58	56	55	62	78	58	66	
6:00	20	67	44	78	67	28	61	
7:00	14	32	12	50	84	24	26	
8:00	8	28	14	36	49	16	18	
9:00	2	7	6	3	22	2	6	
10:00	4	3	0	6	10	4	8	
11:00	4	6	3	2	4	6	14	
<b>Total</b>	<b>567</b>	<b>814</b>	<b>602</b>	<b>849</b>	<b>1189</b>	<b>834</b>	<b>722</b>	<b>160</b>

### Grove Data (East – West)

	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday
TimeSpecific	27-Jul	28-Jul	29-Jul	30-Jul	31-Jul	1-Aug	2-Aug	3-Aug
12:00 AM		0	0	0	5	1	0	2
1:00		0	0	0	1	0	1	0
2:00		0	0	1	3	0	0	0
3:00		0	0	0	0	0	0	0
4:00		0	0	0	0	0	0	1
5:00		4	1	5	9	0	0	4
6:00		7	13	-5	16	11	7	5
7:00		36	12	23	27	21	18	24
8:00		28	14	24	18	27	15	24
9:00		39	18	16	33	31	34	26
10:00	19	34	39	48	39	32	33	37
11:00	52	60	33	48	85	70	33	
12:00 PM	41	48	57	51	61	52	71	
1:00	49	80	22	64	63	84	52	
2:00	67	47	46	48	98	47	40	
3:00	41	32	42	52	96	69	54	
4:00	48	52	21	45	67	61	29	
5:00	43	41	36	45	58	35	46	
6:00	17	53	24	49	53	18	41	
7:00	7	25	6	35	72	18	19	
8:00	4	21	10	30	39	10	15	
9:00	0	3	2	1	12	-1	3	
10:00	3	3	0	2	3	2	4	
11:00	4	6	1	1	4	4	12	
<b>Total</b>	<b>197.5</b>	<b>309.5</b>	<b>198.5</b>	<b>291.5</b>	<b>431</b>	<b>296</b>	<b>263.5</b>	<b>61.5</b>