



To: Joseph Beggan
Harvard University
Planning and Project Management

Date: March 11, 2015

Memorandum

Project #: 10463.00

From: Michael Regan, PE, PTOE
Kathleen Keen, EIT

Re: Allston Event Management
2014 Harvard-Yale Game Observations

As part of Allston Event Management efforts, VHB conducted a data collection and observation plan during the 2014 Harvard-Yale football game. Vehicle, pedestrian, and bicycle counts were supplemented by in-field observations of pedestrian flow, traffic congestion, safety, and parking operations and occupancy. The results of the observation effort are summarized in this memorandum.

Background

The Harvard-Yale game occurs every two years at Harvard Stadium. This year the 131st playing of "The Game" was played on Saturday November 22, 2014 and began at 12:30 PM. This is the peak event in Harvard's Allston campus; approximately 31,000 people attended "The Game" in 2014. This year, interest and attendance remained high throughout the duration of the game as Harvard came back to win 31-24 and claim sole possession of the Ivy League football championship.

Tailgating within the Allston Athletics Area began two hours prior to the start of the game and was allowed to continue for one hour after the end of the game. Tailgating was restricted to designated areas and parking was not allowed in the Allston Athletics Area. This year, ESPN's College GameDay broadcasted live from the quad outside Dillon Field House from 9:00 AM to 12:00 PM, adding an additional attraction to the day.

The Anderson Memorial Bridge, which connects Harvard's Cambridge and Allston campuses, was under construction by MassDOT (construction activities were suspended for the day). Due to the construction, only the easterly (downstream) sidewalk was open and vehicular travel was limited to only one lane in each direction over the bridge. At the Soldiers Field Road and North Harvard Street intersection, the Soldiers Field Road off-ramps and westbound on-ramp were closed by the State Police to limit conflicts between vehicles and pedestrians. The closing of these ramps also reduced operational issues typically caused by the temporary roadway modifications due to the construction.

Key Findings

During discussions with Harvard staff about the ingress and egress patterns on game day, the ingress period before the game was identified as the more critical period because the arrival patterns typically have stronger peaking characteristics than the departures that can begin at halftime depending upon the nature of the game. Additionally, entering vehicles are slowed by parking payment or permit processing during the ingress period. To understand the more critical period, VHB conducted observations around the Allston Athletics Area from 9:30 AM to 12:30 PM. The following summarizes the key findings of the observations by VHB staff:

- In general, overall impacts to the adjacent area were observed to be minimal and the Harvard event management plan was executed well.



- The majority of pedestrians were observed to enter the Athletics area via gates along North Harvard Street, with the heaviest pedestrian flows coming from Cambridge via the Anderson Bridge and the Weeks Footbridge. Pedestrians using the Weeks Footbridge crossed Soldiers Field Road and walked along the path on its southern edge to North Harvard Street.
- Harvard's Spangler Lot and Soldiers Field Park Garage were heavily utilized for parking during The Game. Activity at the Soldiers Field Park Garage peaked between 10:30 AM and 11:00 AM during which entering vehicles queued onto Western Avenue causing minor impacts to traffic. Harvard operational staff directed entering vehicles to form two lanes in Kresge Way, the driveway to Soldiers Field Park Garage, to reduce the impacts on Western Avenue. Operations staff also collected parking fees from waiting vehicles within the queue to improve the processing rate for vehicles to enter the garage.
- Attendees were also observed to park in the Department of Conservation and Recreation (DCR) parking lots adjacent to the Allston Athletics Area and cross Soldiers Field Road in the vicinity of Gate 14. The State Police details at this location facilitated the crossings periodically to minimize impacts to Soldiers Field Road traffic and provide a safe crossing location for pedestrians.
- Limited spectator parking was observed in the neighborhood or in the Brighton Mills Parking Lot.
- Minimal operational impacts were observed at the Barry's Corner intersection. The Boston Police detail located at the intersection helped to maintain smooth traffic operations and assist in the safe crossing of pedestrians.
- The State Police closed the Soldiers Field Road off-ramps and westbound on-ramp which decreased the potential for vehicle-pedestrian conflicts and improved overall safety at the intersection. From approximately 10:00 AM to 11:30 AM, a rolling queue extended along North Harvard Street from Soldiers Field Road to a point between Harvard Way and Gordon Road, caused by the heavy pedestrian activity at the North Harvard Street and Soldiers Field Road intersection.
- Bus and passenger vehicle drop-offs along North Harvard Street near Gate 8 caused intermittent queues to form along North Harvard Street while the vehicles unloaded. The northbound queues were observed to extend at times from Gate 8 to between McCurdy Track and Barry's Corner. Boston Police details and Harvard operational staff assisted with buses dropping-off passengers on the eastern side of North Harvard Street by directing passengers to a common crossing point and facilitating a safe crossing.

Figure 1 shows the locations of the gates to the Allston Athletics Area.

Figure 1 Allston Athletics Area Gate Locations



Allston Event Management

As discussed in the Allston Special Event Study, key transportation management plan (TMP) measures deployed in Allston for the Harvard-Yale game include:

- Dissemination of travel information (e.g., transit and auto directions) to event participants via websites and other media.
- Police details to direct traffic.
- Ramp Closures on Soldiers Field Road at the Anderson Bridge to reduce conflicts with pedestrian flows across the bridge.
- Suspension of all Harvard related construction activities, including construction on the Anderson Bridge, per MassDOT’s contract with Barletta, and at Barry’s Corner (the Continuum Building).
- Tailgating in designated areas within Athletics and parking in the Spangler lot and Soldiers Field Park Garage.



- Separate designated parking locations for event staff and authorized Harvard affiliates.
- Directional signage.
- Coordination with DCR to provide traffic management and temporary use of gates on Soldiers Field Road with police details and an advanced Variable Message Sign (VMS) for traffic to enter and exit designated gates.
- Coordination with the City of Boston as part of the special event permit process Harvard completes every year prior to the football season. As part of this, Harvard Athletics requests Boston Police details to assist with enforcing their special event plan at every home football game, including the Harvard-Yale game.
- Pre-paid parking to minimize processing time for arriving vehicles and keep queues at the entrances to a minimum.
- Assigned Harvard operational staff within the Soldiers Field Park Garage to assist parking vehicles and reduce delays.
- Increased levels of parking monitors and field staff to monitor parking conditions, provide on-site transportation information such as the dissemination of maps, and implement actions such as lot closures with pre-stationed signs.
- Use of shuttle buses to transport fans and staff. According to Harvard staff, the free shuttles ran a regular schedule on game day and were not supplemented with additional services.

The Harvard Athletics website provides parking and travel direction information.

VHB Observations

VHB staff observed transportation conditions associated with the Harvard-Yale football game on Saturday, November 22, 2014 for a three-hour period from 9:30 AM to 12:30 PM. The observations were focused around the Allston Athletics area, including Western Avenue, North Harvard Street, and Soldiers Field Road, and related to parking, pedestrian movements, and traffic operations/safety. In general, overall impacts to the adjacent area were observed to be minimal and the Harvard event management plan was executed well.

Parking

Attendees were directed to park in three Allston facilities: the Athletics area, Spangler Lot, and Soldiers Field Park Garage. No issues were noted with overall parking supply or operations at any of the lots, with the exception of the Soldiers Field Park Garage which is discussed in the Traffic Operations/Safety section. Event personnel and authorized Harvard affiliates were directed to park in other Harvard-owned lots in Allston; Harvard personnel indicated that there were no operational or supply issues at these lots.

- **Allston Athletics Area:** Attendees could purchase parking passes prior to game day which allowed vehicular access to the tailgate inside the Allston Athletics Area. The parking passes were associated with a specific



gate to reduce the need for vehicles to circulate around the Allston Athletics Area and limit the processing time for entering vehicles. Parking passes for all gates were accepted at Gate 8.

- **Spangler Lot:** Attendees who did not purchase parking passes ahead of time could pay to park in the Spangler Lot. At 9:30 AM, when observations began, the lot was approximately 70 percent occupied and by approximately 10:00 AM the lot was completely full.
- **Soldiers Field Park Garage:** Similar to Spangler Lot, attendees who did not purchase parking passes ahead of time could pay to park in the Soldiers Field Park Garage. The garage began to fill after the Spangler Lot reached capacity, and between 10:30 and 11:00 AM there was a continuous two-lane queue on Kresge Way, the entrance driveway into the garage.
- **Newell Boat House Parking Lot:** A few attendees were observed to park in this lot. Only one group was observed to cross Soldiers Field Road to access the Allston Athletics Area via Gate 20.
- **DCR Parking Lots:** Although these lots are not owned nor operated by Harvard University, attendees were observed to park and tailgate in the DCR parking lots adjacent to the Allston Athletics Area. These lots were full by approximately 10:30 AM.
- **Neighborhood Parking:** A window survey was completed at 8:00 AM and 1:00 PM in the adjacent neighborhood. At 8:00 AM, parking occupancy in the neighborhood was observed to be at approximately 80 percent and occupancy decreased slightly to 75 percent at 1:00 PM. The greatest reduction in parking occupancy between the morning and afternoon was observed on streets signed as "Resident Parking Only" while streets with no parking restrictions (on Saturdays) remained at approximately the same occupancy levels. A significant increase in parking occupancy between the morning and afternoon was only observed on one street, Kingsley Street, which was observed to be approximately 60 percent occupied at 8:00 AM and 100 percent occupied at 1:00 PM. The results of the survey indicate that there was limited parking available in the neighborhood.
- **Brighton Mills Parking Lot:** A window survey was completed at 8:00 AM and 1:00 PM in the Brighton Mills Parking Lot. At 8:00 AM the parking lot was observed to be approximately 20 percent occupied and by 1:00 PM the parking occupancy increased to approximately 60 percent, however the increase in parking occupancy could be attributed to patrons of the businesses located in the shopping center and not due to game attendees. Multiple signs were located at the entrances and within the Brighton Mills parking lot indicating "No Event Parking". Based on the results of the survey, limited spectator parking was observed in the Brighton Mills Parking Lot.

Pedestrian Movements

Heavy pedestrian activity was observed in and around the Allston Athletics Area during the tailgating period prior to the start of the football game at 12:30 PM. The majority of the pedestrians were observed to enter the Allston Athletics Area via gates along North Harvard Street, with the heaviest pedestrian flows coming from Cambridge via



the Anderson Bridge and the Weeks Footbridge. Additional pedestrian demand was observed from the Spangler (Business School) Lot and the Soldiers Field Park Garage and from MBTA bus stops along Western Avenue and North Harvard Street.

At the intersection of North Harvard Street and Soldiers Field Road, State Police details closed the Soldiers Field Road off-ramps and westbound on-ramp at approximately 10:00 AM to minimize vehicle and pedestrian conflicts. State Police (located at Gates 14, 16, 20, and North Harvard Street at Soldiers Field Road) and Boston Police (located at Gate 8 and North Harvard Street at Western Avenue) helped to maintain vehicle operations and facilitate safe crossings for pedestrians. Pedestrians generally utilized available sidewalks and controlled crossing locations.

Attendees were also observed to park in the DCR parking lots adjacent to the Allston Athletics Area and cross Soldiers Field Road in the vicinity of Gate 14. The State Police details at this location would facilitate the crossings periodically to minimize impacts to Soldiers Field Road traffic and provide a safe crossing location for the pedestrians.

Traffic Operations/Safety

Overall, VHB did not observe any major operational issues around the Allston Athletics Area. Event management strategies at the following locations were observed to work well during the event:

- **Gates 14, 16, and 20:** Minimal queueing was observed along Soldiers Field Road at the entrances to these gates. State police were stationed at each gate to assist with traffic operations when necessary; specifically helping pedestrians cross from the DCR parking lots at Gate 14, and coning off the left lane of Soldiers Field Road eastbound in the vicinity of Gate 16 to allow for passenger car drop-offs. A VMS board was located outside Gate 14 directing game day traffic. These measures limited the impacts to non-event traffic flow along Soldiers Field Road.
- **North Harvard Street at Soldiers Field Road:** The State Police closed the Soldiers Field Road off-ramps and westbound on-ramp which decreased the potential for vehicle-pedestrian conflicts and improved overall safety at the intersection.
- **Barry's Corner:** Minimal operational impacts were observed at the Barry's Corner intersection. The Boston Police detail located at the intersection helped to maintain smooth traffic operations and assist in the safe crossing of pedestrians.

The following minor operational issues caused by event traffic were noted:

- **Gate 8:** Buses and passenger vehicles were observed to drop-off attendees along North Harvard Street northbound and southbound near Gate 8, causing queues to form along North Harvard Street while the vehicles unloaded. Boston Police details and Harvard operational staff assisted with buses dropping off passengers on the eastern side of North Harvard Street by directing passengers to a common crossing point. Each bus dwelled on North Harvard Street for an estimated ten minutes while passengers alighted.
- **North Harvard Street Northbound:** From approximately 10:00 to 11:30 AM, a rolling queue extended from

Soldiers Field Road to between Harvard Way and Gordon Road, caused by the heavy pedestrian activity at the North Harvard Street and Soldiers Field Road intersection. A second rolling queue (Figure 2) extended from Gate 8 to a point between McCurdy Track and Barry's Corner, caused by drop-off and pedestrian crossing activity at Gate 8. Several vehicles were observed making mid-block u-turns along North Harvard Street to avoid the long queues.

Figure 2 North Harvard Street south of Gate 8 (looking southbound)



- **Soldiers Field Park Garage:** Activity peaked between 10:30 and 11:00 AM, during which vehicles entering the Soldiers Field Park Garage queued back to Western Avenue causing minor back-ups for traffic along Western Avenue. During the activity peak, queues were observed on Western Avenue westbound from the Soldiers Field Park Garage driveway to the intersection with Soldiers Field Road. On Western Avenue eastbound (Figure 3), minor impacts to through traveling traffic were observed when the left-turn storage lane into the Soldiers Field Park Garage driveway spilled back into the eastbound travel lane. Harvard operational staff directed entering vehicles to form two lanes on the driveway to the Soldiers Field Park Garage to reduce the queuing on Western Avenue.

Figure 3 Western Avenue at Kresge Way (looking eastbound)



Comparison to Typical Day

Automatic traffic recorder (ATR) counts were conducted at two locations during the Harvard-Yale game: Western Avenue and North Harvard Street. Figure 4 compares these counts to those conducted on a typical (i.e. non-event), or control, day (Saturday November 15, 2014). As shown, Western Avenue and North Harvard Street traffic volumes on Harvard-Yale game day were higher than those observed on a typical day, with the largest increase in volume during the late morning and early afternoon hours which coincide with game arrival and departure activity. Overall, the daily traffic volume on both Western Avenue and North Harvard Street showed an increase of approximately 20 percent over non-event conditions.

In addition, turning movement counts of both vehicular and pedestrian/bicycle traffic (TMCs) were conducted at parking access locations and major gateways from 10:00 AM to 1:00 PM, including:

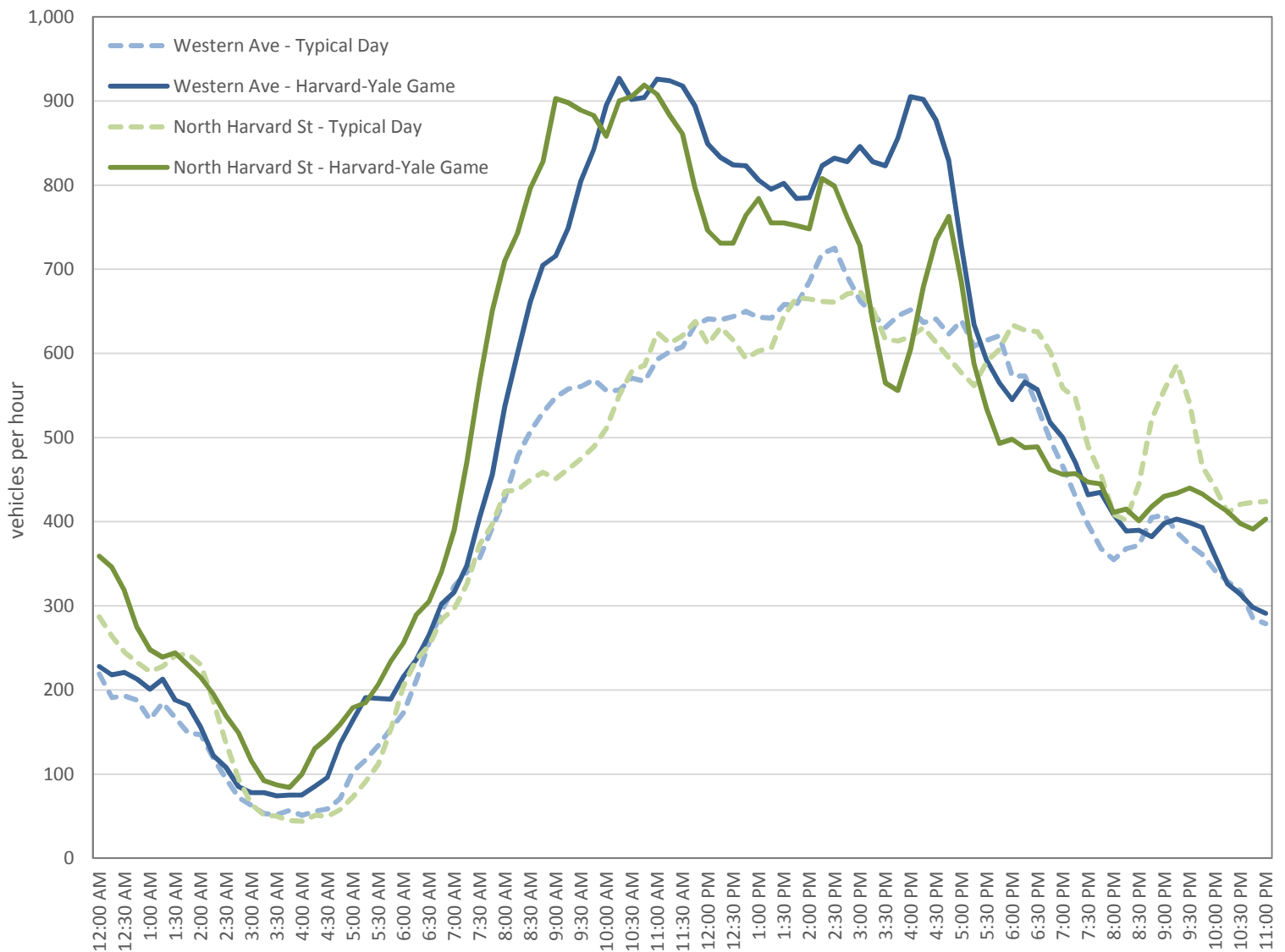
- Western Avenue at Kresge Way/Genzyme driveway
- Western Avenue at Batten Way/Hague Street
- Western Avenue at North Harvard Street
- North Harvard Street at Soldiers Field Road

The TMC data confirmed the findings of the in-field observations; there is a significant increase in pedestrian traffic to the Allston Athletics Area on game day. Over the three hour count period, approximately 14,500 pedestrians traveled



through the intersection of North Harvard Street at Soldiers Field Road. This concentration of pedestrians is consistent with the Cambridge location of student housing and transit services at Harvard Square. At the North Harvard Street and Soldiers Field Road intersection, the Soldiers Field Road off-ramps and westbound on-ramp were closed which reduced the overall traffic volume at the intersection. While approximately 1,500 pedestrians traveled through Barry's Corner, only 75 pedestrians were observed crossing Western Avenue from the south at the intersection.

Figure 4 ATR Comparison





Potential Opportunities

Based on the discussion above, VHB offers the following potential improvements for potential inclusion in future plans for "The Game":

- Consider routing buses to Gordon Road and utilizing it as a staffed unload position for attendee drop-off to minimize traffic impacts along North Harvard Street. In the future, Academic Way could potentially be used as a drop-off/pick-up area on game day.
- Consider variable message signage at Barry's Corner to notify motorists about "The Game," the likelihood of potential delays along North Harvard Street, and limited access to Soldiers Field Road.
- Consider approaches and/or incentives which would encourage increased purchases of parking passes prior to game day, such as offering discounts.
- Consider parking management approaches which would encourage more simultaneous loading of Spangler Lot and Soldiers Field Park Garage to reduce peak loading periods, such as directing more vehicles with pre-purchased parking passes to use the Soldiers Field Park Garage.

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Memorandum

Attachments

- Traffic Volume Count Data

Accurate Counts

978-664-2565

Location : Western Avenue
 Location : West of Hague Street
 City/State: Boston, MA

Site Code: 10463001
 10463001

Start Time	15-Nov-14 Sat	EB		Hour Totals		WB		Hour Totals		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		16	53			43	101				
12:15		12	54			41	93				
12:30		15	74			42	101				
12:45		17	52	60	233	33	113	159	408	219	641
01:00		11	54			20	99				
01:15		10	61			45	90				
01:30		19	78			33	103				
01:45		3	54	43	247	24	104	122	396	165	643
02:00		13	52			38	100				
02:15		5	66			32	101				
02:30		12	64			22	117				
02:45		5	67	35	249	20	118	112	436	147	685
03:00		4	82			19	104				
03:15		5	53			8	120				
03:30		2	61			9	86				
03:45		3	68	14	264	13	89	49	399	63	663
04:00		2	70			11	100				
04:15		6	56			6	101				
04:30		4	48			12	113				
04:45		2	64	14	238	8	100	37	414	51	652
05:00		7	64			11	91				
05:15		2	58			13	103				
05:30		11	55			17	88				
05:45		22	61	42	238	20	119	61	401	103	639
06:00		15	39			17	86				
06:15		13	55			19	113				
06:30		14	41			34	107				
06:45		19	50	61	185	42	82	112	388	173	573
07:00		24	52			46	73				
07:15		23	39			54	92				
07:30		21	30			65	79				
07:45		35	33	103	154	56	68	221	312	324	466
08:00		32	25			54	64				
08:15		32	32			62	65				
08:30		47	30			75	51				
08:45		45	24	156	111	82	64	273	244	429	355
09:00		53	35			82	67				
09:15		34	34			89	67				
09:30		60	44			85	70				
09:45		59	37	206	150	86	54	342	258	548	408
10:00		64	28			81	53				
10:15		47	23			79	64				
10:30		67	40			86	62				
10:45		50	23	228	114	82	49	328	228	556	342
11:00		51	20			94	48				
11:15		47	34			94	42				
11:30		65	29			84	40				
11:45		64	21	227	104	94	45	366	175	593	279
Total		1189	2287			2182	4059			3371	6346
Percent		34.2%	65.8%			35.0%	65.0%			34.7%	65.3%
Grand Total		1189	2287			2182	4059			3371	6346
Percent		34.2%	65.8%			35.0%	65.0%			34.7%	65.3%

ADT ADT 10,179 AADT 10,179

Accurate Counts

978-664-2565

Location : North Harvard Street
 Location : North of Hefferan Street
 City/State: Boston, MA

Site Code: 10463002
 10463002

Start Time	15-Nov-14 Sat	NB		Hour Totals		SB		Hour Totals		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		44	73			37	60				
12:15		43	74			31	89				
12:30		38	89			30	73				
12:45		24	93	149	329	40	60	138	282	287	611
01:00		23	91			35	62				
01:15		38	78			17	70				
01:30		32	71			24	69				
01:45		28	96	121	336	25	66	101	267	222	603
02:00		32	97			32	60				
02:15		40	106			28	80				
02:30		32	91			26	70				
02:45		23	63	127	357	17	98	103	308	230	665
03:00		8	77			13	77				
03:15		13	83			5	102				
03:30		9	85			6	86				
03:45		4	67	34	312	6	97	30	362	64	674
04:00		4	62			4	71				
04:15		9	72			8	77				
04:30		1	78			9	91				
04:45		4	95	18	307	5	74	26	313	44	620
05:00		8	78			7	66				
05:15		7	73			9	58				
05:30		12	74			6	77				
05:45		13	86	40	311	11	65	33	266	73	577
06:00		14	78			19	51				
06:15		22	110			15	50				
06:30		35	110			25	55				
06:45		48	102	119	400	27	78	86	234	205	634
07:00		37	79			27	44				
07:15		31	95			23	63				
07:30		51	72			40	69				
07:45		46	61	165	307	42	76	132	252	297	559
08:00		50	45			43	66				
08:15		51	43			50	57				
08:30		55	51			60	57				
08:45		72	49	228	188	55	41	208	221	436	409
09:00		50	39			45	65				
09:15		59	51			54	92				
09:30		62	54			62	131				
09:45		72	39	243	183	47	86	208	374	451	557
10:00		59	45			48	89				
10:15		70	44			55	53				
10:30		65	51			73	59				
10:45		80	44	274	184	61	56	237	257	511	441
11:00		76	53			70	51				
11:15		82	48			72	59				
11:30		71	53			74	59				
11:45		96	54	325	208	84	47	300	216	625	424
Total		1843	3422			1602	3352			3445	6774
Percent		35.0%	65.0%			32.3%	67.7%			33.7%	66.3%
Grand Total		1843	3422			1602	3352			3445	6774
Percent		35.0%	65.0%			32.3%	67.7%			33.7%	66.3%

ADT ADT 9,922 AADT 9,922

Accurate Counts

978-664-2565

Location : Western Avenue
 Location : West of Hague Street
 City/State: Boston, MA

Site Code: 10463001
 104630A1

Start Time	22-Nov-14 Sat	WB		Hour Totals		EB		Hour Totals		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		35	147			18	89				
12:15		44	125			19	80				
12:30		40	125			11	76				
12:45		47	122	166	519	14	85	62	330	228	849
01:00		33	134			10	86				
01:15		46	115			20	81				
01:30		29	114			14	86				
01:45		39	114	147	477	10	76	54	329	201	806
02:00		42	120			13	89				
02:15		29	124			12	79				
02:30		25	111			12	71				
02:45		18	117	114	472	5	74	42	313	156	785
03:00		13	153			8	94				
03:15		21	126			6	86				
03:30		9	107			5	71				
03:45		9	135	52	521	7	74	26	325	78	846
04:00		14	108			7	121				
04:15		10	109			13	98				
04:30		9	139			6	72				
04:45		13	161	46	517	3	97	29	388	75	905
05:00		17	129			14	97				
05:15		16	110			18	72				
05:30		34	99			21	64				
05:45		24	103	91	441	20	55	73	288	164	729
06:00		33	81			25	51				
06:15		22	75			11	64				
06:30		34	92			20	44				
06:45		40	72	129	320	31	66	87	225	216	545
07:00		57	106			21	47				
07:15		41	77			21	53				
07:30		58	66			33	31				
07:45		63	72	219	321	22	48	97	179	316	500
08:00		72	81			38	42				
08:15		74	59			45	33				
08:30		88	71			54	29				
08:45		107	60	341	271	59	34	196	138	537	409
09:00		113	72			60	31				
09:15		102	59			78	34				
09:30		112	59			74	33				
09:45		106	70	433	260	71	40	283	138	716	398
10:00		141	72			65	36				
10:15		140	52			96	37				
10:30		121	51			102	35				
10:45		130	53	532	228	100	23	363	131	895	359
11:00		128	50			110	25				
11:15		115	58			96	19				
11:30		124	50			101	20				
11:45		154	48	521	206	98	21	405	85	926	291
Total		2791	4553			1717	2869			4508	7422
Percent		38.0%	62.0%			37.4%	62.6%			37.8%	62.2%
Grand Total		2791	4553			1717	2869			4508	7422
Percent		38.0%	62.0%			37.4%	62.6%			37.8%	62.2%

ADT ADT 11,955 AADT 11,955

Accurate Counts

978-664-2565

Location : Western Avenue
 Location : West of Hague Street
 City/State: Boston, MA

Site Code: 10463001
 104630A1

Start Time	22-Nov-14 Sat	WB	EB							Total
12:00 AM		166	62							228
01:00		147	54							201
02:00		114	42							156
03:00		52	26							78
04:00		46	29							75
05:00		91	73							164
06:00		129	87							216
07:00		219	97							316
08:00		341	196							537
09:00		433	283							716
10:00		532	363							895
11:00		521	405							926
12:00 PM		519	330							849
01:00		477	329							806
02:00		472	313							785
03:00		521	325							846
04:00		517	388							905
05:00		441	288							729
06:00		320	225							545
07:00		321	179							500
08:00		271	138							409
09:00		260	138							398
10:00		228	131							359
11:00		206	85							291
Total		7344	4586							11930
Percent		61.6%	38.4%							
AM Peak	-	10:00	11:00	-	-	-	-	-	-	11:00
Vol.	-	532	405	-	-	-	-	-	-	926
PM Peak	-	15:00	16:00	-	-	-	-	-	-	16:00
Vol.	-	521	388	-	-	-	-	-	-	905
Grand Total		7344	4586							11930
Percent		61.6%	38.4%							
ADT		ADT 11,955	AADT 11,955							

Accurate Counts

978-664-2565

Location : North Harvard Street
 Location : North of Hefferan Street
 City/State: Boston, MA

Site Code: 10463002
 104630A2

Start Time	22-Nov-14 Sat	SB		Hour Totals		NB		Hour Totals		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		39	122			42	88				
12:15		40	91			40	108				
12:30		50	77			57	88				
12:45		42	76	171	366	49	96	188	380	359	746
01:00		34	96			34	99				
01:15		27	101			25	98				
01:30		27	108			36	90				
01:45		26	113	114	418	39	79	134	366	248	784
02:00		26	76			33	90				
02:15		26	99			31	100				
02:30		15	98			34	97				
02:45		21	106	88	379	29	82	127	369	215	748
03:00		20	105			19	121				
03:15		14	103			17	87				
03:30		15	91			14	67				
03:45		5	81	54	380	12	73	62	348	116	728
04:00		9	94			6	43				
04:15		12	84			14	32				
04:30		15	89			11	60				
04:45		20	129	56	396	13	74	44	209	100	605
05:00		28	145			17	66				
05:15		25	133			14	39				
05:30		22	110			20	67				
05:45		25	62	100	450	28	64	79	236	179	686
06:00		27	57			24	56				
06:15		30	54			30	64				
06:30		35	76			35	60				
06:45		38	63	130	250	37	68	126	248	256	498
07:00		32	46			52	57				
07:15		28	57			48	62				
07:30		53	47			52	62				
07:45		60	67	173	217	65	58	217	239	390	456
08:00		71	50			94	54				
08:15		84	62			88	47				
08:30		96	53			93	54				
08:45		93	37	344	202	91	54	366	209	710	411
09:00		93	59			105	49				
09:15		97	42			128	53				
09:30		92	68			129	56				
09:45		125	45	407	214	134	58	496	216	903	430
10:00		67	72			126	40				
10:15		99	46			117	55				
10:30		82	59			133	58				
10:45		94	43	342	220	140	49	516	202	858	422
11:00		122	61			113	41				
11:15		78	53			143	34				
11:30		97	53			132	57				
11:45		115	47	412	214	108	57	496	189	908	403
Total		2391	3706			2851	3211			5242	6917
Percent		39.2%	60.8%			47.0%	53.0%			43.1%	56.9%
Grand Total		2391	3706			2851	3211			5242	6917
Percent		39.2%	60.8%			47.0%	53.0%			43.1%	56.9%

ADT ADT 11,549 AADT 11,549

Accurate Counts

978-664-2565

Location : North Harvard Street
 Location : North of Hefferan Street
 City/State: Boston, MA

Site Code: 10463002
 104630A2

Start Time	22-Nov-14 Sat	SB	NB							Total
12:00 AM		171	188							359
01:00		114	134							248
02:00		88	127							215
03:00		54	62							116
04:00		56	44							100
05:00		100	79							179
06:00		130	126							256
07:00		173	217							390
08:00		344	366							710
09:00		407	496							903
10:00		342	516							858
11:00		412	496							908
12:00 PM		366	380							746
01:00		418	366							784
02:00		379	369							748
03:00		380	348							728
04:00		396	209							605
05:00		450	236							686
06:00		250	248							498
07:00		217	239							456
08:00		202	209							411
09:00		214	216							430
10:00		220	202							422
11:00		214	189							403
Total		6097	6062							12159
Percent		50.1%	49.9%							
AM Peak	-	11:00	10:00	-	-	-	-	-	-	11:00
Vol.	-	412	516	-	-	-	-	-	-	908
PM Peak	-	17:00	12:00	-	-	-	-	-	-	13:00
Vol.	-	450	380	-	-	-	-	-	-	784
Grand Total		6097	6062							12159
Percent		50.1%	49.9%							
ADT		ADT 11,549	AADT 11,549							

Accurate Counts

978-664-2565

N/S Street : North Harvard Street
 E/W Street : Soldier's Field Road Ramps
 City/State : Boston, MA
 Weather : Clear

File Name : 10463001
 Site Code : 10463001
 Start Date : 11/22/2014
 Page No : 1

Groups Printed- Cars - Trucks

Start Time	No Harvard St From North			Soldier's Field Ramps From East			No Harvard St From South			Soldier's Field Ramps From West			Int. Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
10:00 AM	55	65	4	0	0	0	7	66	38	11	0	15	261
10:15 AM	50	63	2	0	0	0	7	70	38	0	1	1	232
10:30 AM	51	71	0	0	0	0	3	93	47	0	0	2	267
10:45 AM	46	53	2	0	0	0	2	70	54	0	0	0	227
Total	202	252	8	0	0	0	19	299	177	11	1	18	987
11:00 AM	52	84	0	0	0	0	0	89	47	0	0	0	272
11:15 AM	66	59	0	0	0	0	0	94	67	0	0	0	286
11:30 AM	77	116	0	0	0	0	1	114	40	0	0	4	352
11:45 AM	62	86	0	0	0	0	0	95	43	0	0	3	289
Total	257	345	0	0	0	0	1	392	197	0	0	7	1199
12:00 PM	62	106	1	0	0	0	0	87	39	0	0	4	299
12:15 PM	50	83	0	0	0	0	0	96	25	0	0	0	254
12:30 PM	52	65	0	0	0	0	0	63	33	4	0	1	218
12:45 PM	72	73	0	0	0	0	0	79	28	23	1	14	290
Total	236	327	1	0	0	0	0	325	125	27	1	19	1061
Grand Total	695	924	9	0	0	0	20	1016	499	38	2	44	3247
Apprch %	42.7	56.8	0.6	0	0	0	1.3	66.2	32.5	45.2	2.4	52.4	
Total %	21.4	28.5	0.3	0	0	0	0.6	31.3	15.4	1.2	0.1	1.4	
Cars	693	894	9	0	0	0	20	974	498	33	2	41	3164
% Cars	99.7	96.8	100	0	0	0	100	95.9	99.8	86.8	100	93.2	97.4
Trucks	2	30	0	0	0	0	0	42	1	5	0	3	83
% Trucks	0.3	3.2	0	0	0	0	0	4.1	0.2	13.2	0	6.8	2.6

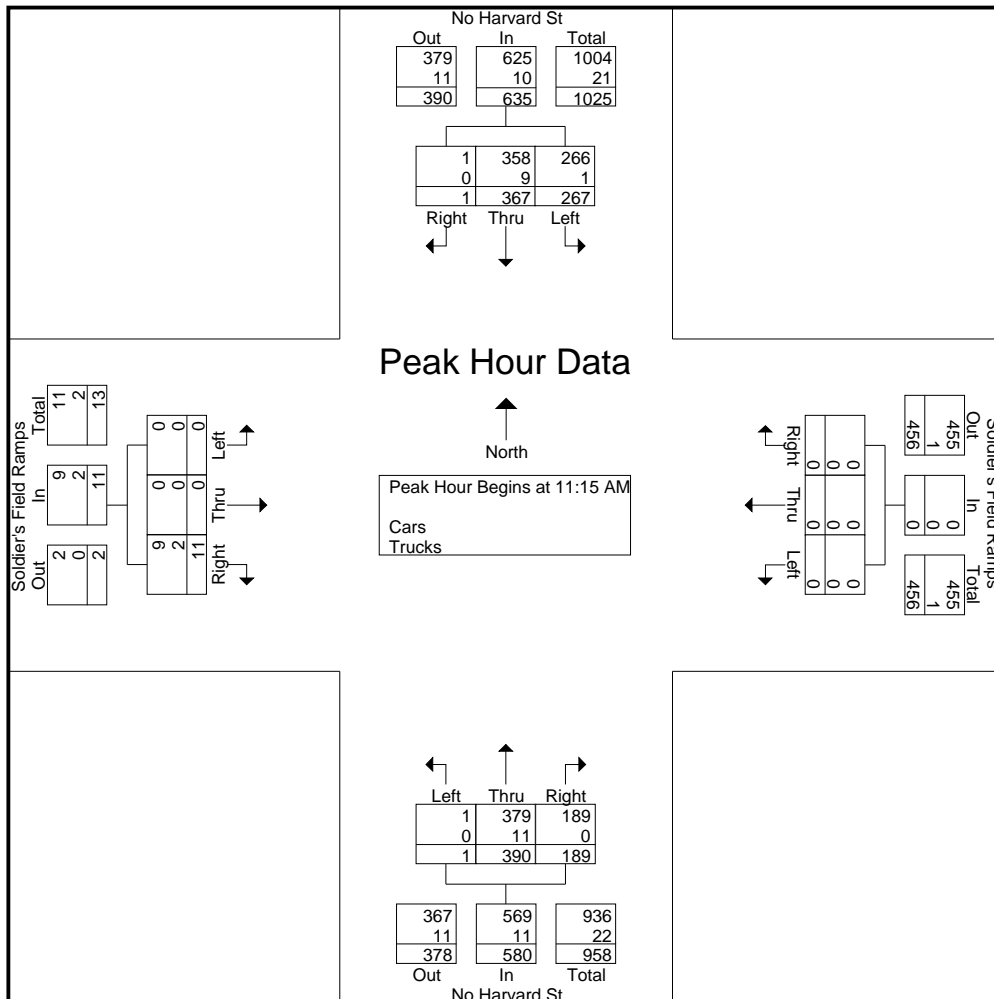
Accurate Counts

978-664-2565

N/S Street : North Harvard Street
 E/W Street : Soldier's Field Road Ramps
 City/State : Boston, MA
 Weather : Clear

File Name : 10463001
 Site Code : 10463001
 Start Date : 11/22/2014
 Page No : 2

Start Time	No Harvard St From North				Soldier's Field Ramps From East				No Harvard St From South				Soldier's Field Ramps From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 10:00 AM to 12:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 11:15 AM																	
11:15 AM	66	59	0	125	0	0	0	0	0	94	67	161	0	0	0	0	286
11:30 AM	77	116	0	193	0	0	0	0	1	114	40	155	0	0	4	4	352
11:45 AM	62	86	0	148	0	0	0	0	0	95	43	138	0	0	3	3	289
12:00 PM	62	106	1	169	0	0	0	0	0	87	39	126	0	0	4	4	299
Total Volume	267	367	1	635	0	0	0	0	1	390	189	580	0	0	11	11	1226
% App. Total	42	57.8	0.2		0	0	0		0.2	67.2	32.6		0	0	100		
PHF	.867	.791	.250	.823	.000	.000	.000	.000	.250	.855	.705	.901	.000	.000	.688	.688	.871
Cars	266	358	1	625	0	0	0	0	1	379	189	569	0	0	9	9	1203
% Cars	99.6	97.5	100	98.4	0	0	0	0	100	97.2	100	98.1	0	0	81.8	81.8	98.1
Trucks	1	9	0	10	0	0	0	0	0	11	0	11	0	0	2	2	23
% Trucks	0.4	2.5	0	1.6	0	0	0	0	0	2.8	0	1.9	0	0	18.2	18.2	1.9



Accurate Counts

978-664-2565

N/S Street : North Harvard Street
 E/W Street : Soldier's Field Road Ramps
 City/State : Boston, MA
 Weather : Clear

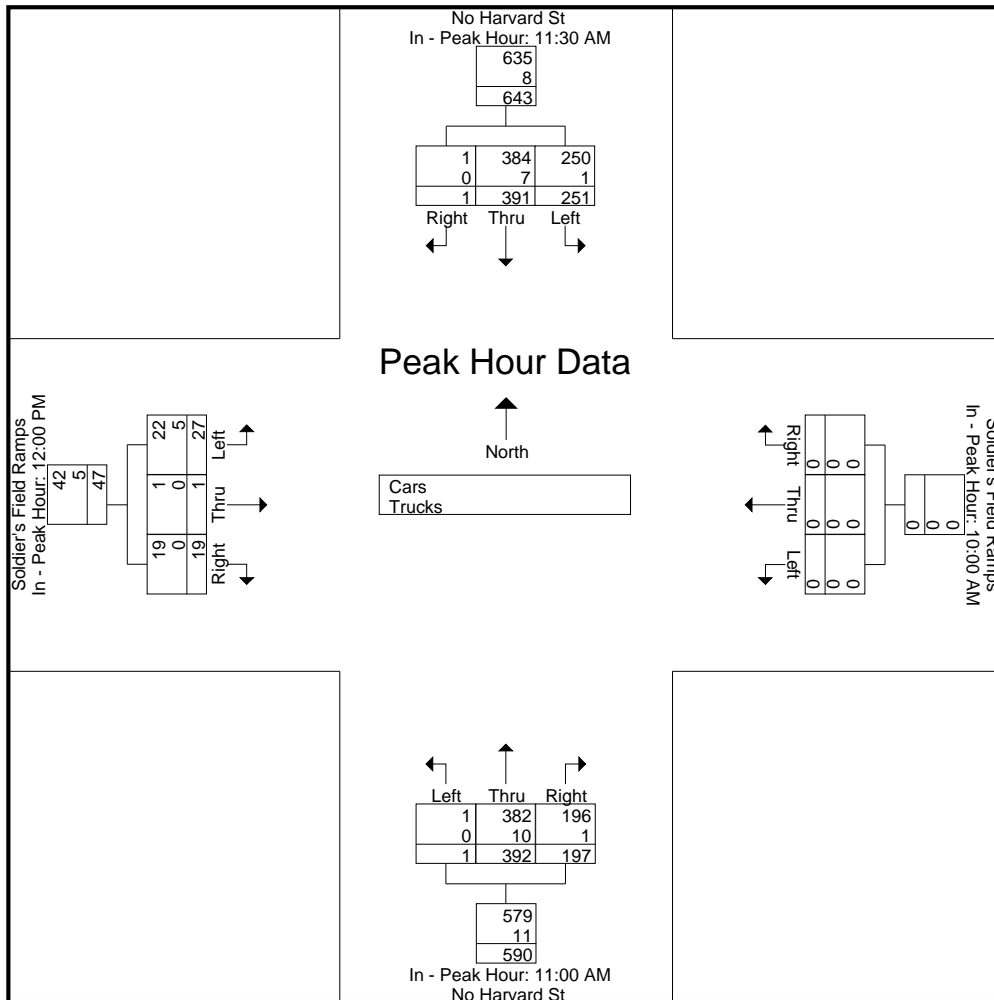
File Name : 10463001
 Site Code : 10463001
 Start Date : 11/22/2014
 Page No : 3

Start Time	No Harvard St From North				Soldier's Field Ramps From East				No Harvard St From South				Soldier's Field Ramps From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	

Peak Hour Analysis From 10:00 AM to 12:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	11:30 AM				10:00 AM				11:00 AM				12:00 PM			
+0 mins.	77	116	0	193	0	0	0	0	0	89	47	136	0	0	4	4
+15 mins.	62	86	0	148	0	0	0	0	0	94	67	161	0	0	0	0
+30 mins.	62	106	1	169	0	0	0	0	1	114	40	155	4	0	1	5
+45 mins.	50	83	0	133	0	0	0	0	0	95	43	138	23	1	14	38
Total Volume	251	391	1	643	0	0	0	0	1	392	197	590	27	1	19	47
% App. Total	39	60.8	0.2		0	0	0		0.2	66.4	33.4		57.4	2.1	40.4	
PHF	.815	.843	.250	.833	.000	.000	.000	.000	.250	.860	.735	.916	.293	.250	.339	.309
Cars	250	384	1	635	0	0	0	0	1	382	196	579	22	1	19	42
% Cars	99.6	98.2	100	98.8	0	0	0	0	100	97.4	99.5	98.1	81.5	100	100	89.4
Trucks	1	7	0	8	0	0	0	0	0	10	1	11	5	0	0	5
% Trucks	0.4	1.8	0	1.2	0	0	0	0	0	2.6	0.5	1.9	18.5	0	0	10.6



Accurate Counts

978-664-2565

N/S Street : North Harvard Street
 E/W Street : Soldier's Field Road Ramps
 City/State : Boston, MA
 Weather : Clear

File Name : 10463001
 Site Code : 10463001
 Start Date : 11/22/2014
 Page No : 4

Groups Printed- Cars

Start Time	No Harvard St From North			Soldier's Field Ramps From East			No Harvard St From South			Soldier's Field Ramps From West			Int. Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
10:00 AM	55	60	4	0	0	0	7	61	38	11	0	14	250
10:15 AM	50	60	2	0	0	0	7	63	38	0	1	1	222
10:30 AM	50	69	0	0	0	0	3	89	47	0	0	2	260
10:45 AM	46	52	2	0	0	0	2	66	54	0	0	0	222
Total	201	241	8	0	0	0	19	279	177	11	1	17	954
11:00 AM	52	83	0	0	0	0	0	86	46	0	0	0	267
11:15 AM	66	57	0	0	0	0	0	92	67	0	0	0	282
11:30 AM	77	116	0	0	0	0	1	112	40	0	0	3	349
11:45 AM	61	85	0	0	0	0	0	92	43	0	0	2	283
Total	256	341	0	0	0	0	1	382	196	0	0	5	1181
12:00 PM	62	100	1	0	0	0	0	83	39	0	0	4	289
12:15 PM	50	83	0	0	0	0	0	93	25	0	0	0	251
12:30 PM	52	59	0	0	0	0	0	60	33	1	0	1	206
12:45 PM	72	70	0	0	0	0	0	77	28	21	1	14	283
Total	236	312	1	0	0	0	0	313	125	22	1	19	1029
Grand Total	693	894	9	0	0	0	20	974	498	33	2	41	3164
Apprch %	43.4	56	0.6	0	0	0	1.3	65.3	33.4	43.4	2.6	53.9	
Total %	21.9	28.3	0.3	0	0	0	0.6	30.8	15.7	1	0.1	1.3	

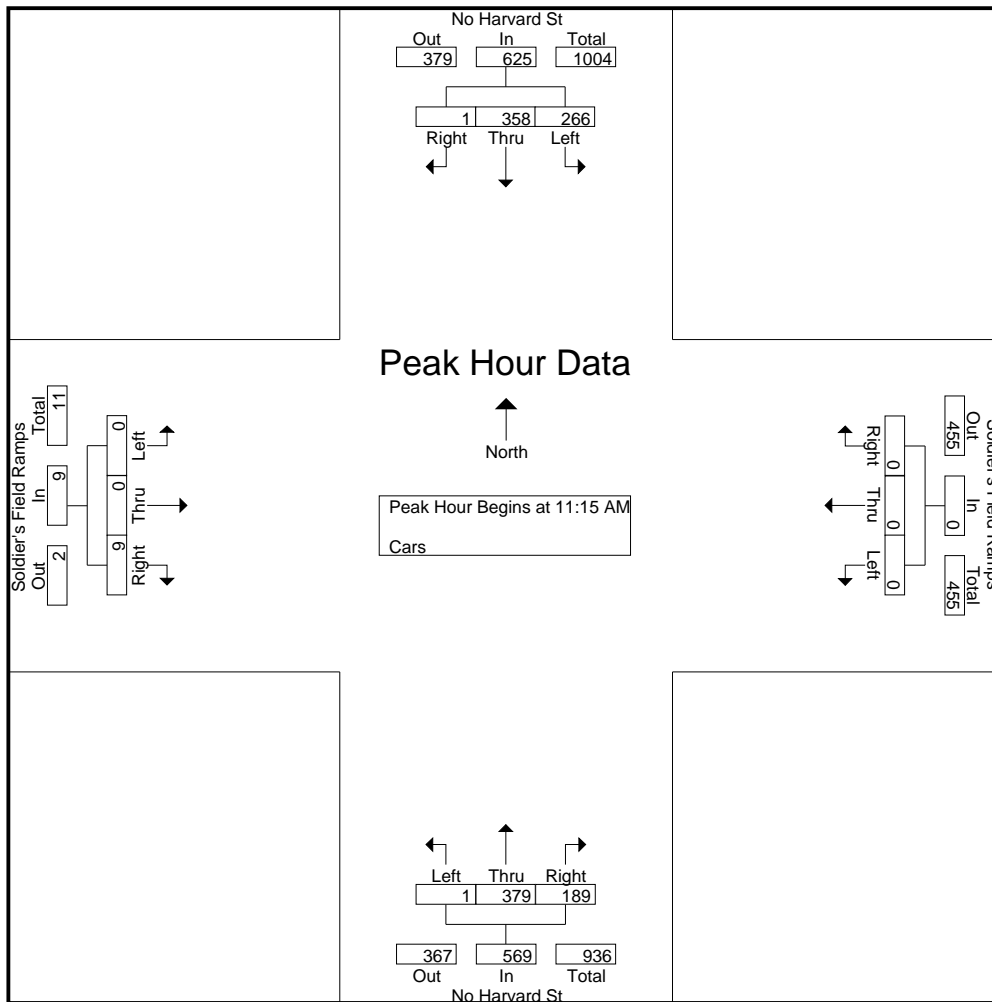
Accurate Counts

978-664-2565

N/S Street : North Harvard Street
 E/W Street : Soldier's Field Road Ramps
 City/State : Boston, MA
 Weather : Clear

File Name : 10463001
 Site Code : 10463001
 Start Date : 11/22/2014
 Page No : 5

Start Time	No Harvard St From North				Soldier's Field Ramps From East				No Harvard St From South				Soldier's Field Ramps From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 10:00 AM to 12:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 11:15 AM																	
11:15 AM	66	57	0	123	0	0	0	0	0	92	67	159	0	0	0	0	282
11:30 AM	77	116	0	193	0	0	0	0	1	112	40	153	0	0	3	3	349
11:45 AM	61	85	0	146	0	0	0	0	0	92	43	135	0	0	2	2	283
12:00 PM	62	100	1	163	0	0	0	0	0	83	39	122	0	0	4	4	289
Total Volume	266	358	1	625	0	0	0	0	1	379	189	569	0	0	9	9	1203
% App. Total	42.6	57.3	0.2		0	0	0		0.2	66.6	33.2		0	0	100		
PHF	.864	.772	.250	.810	.000	.000	.000	.000	.250	.846	.705	.895	.000	.000	.563	.563	.862



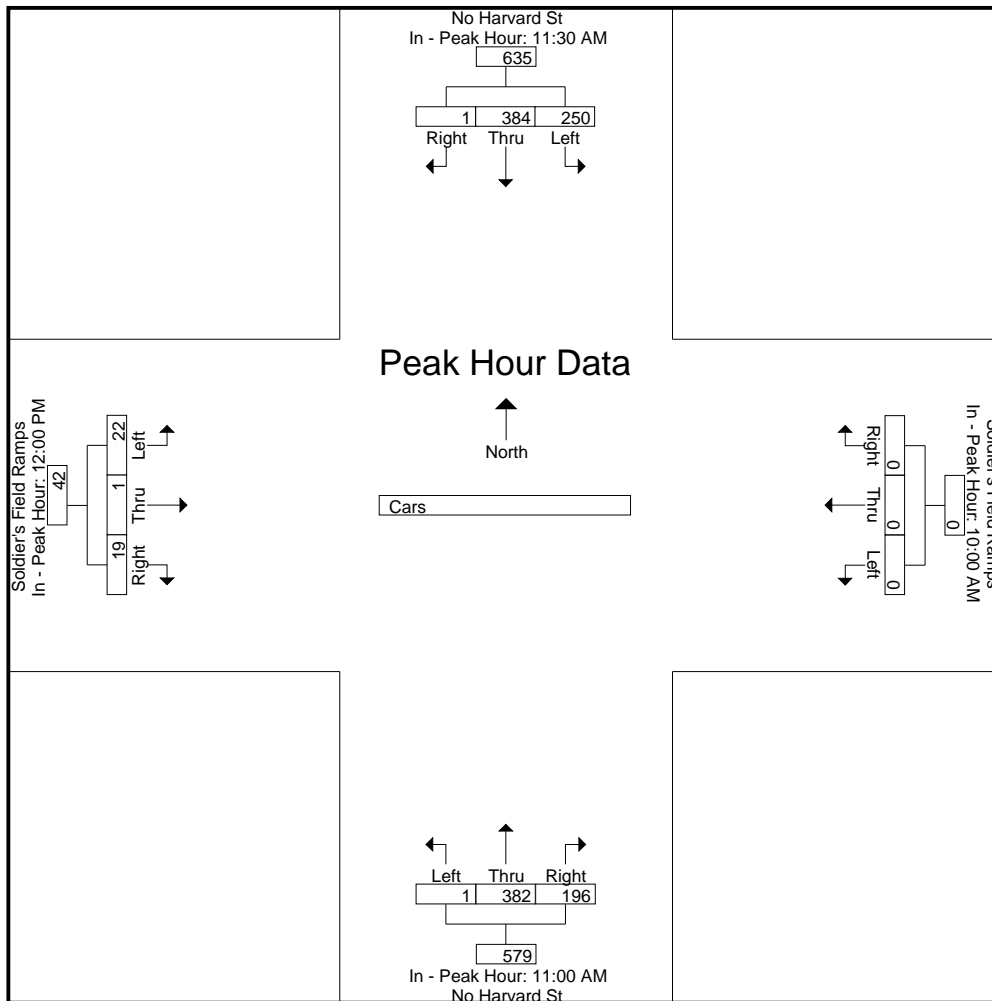
Accurate Counts

978-664-2565

N/S Street : North Harvard Street
 E/W Street : Soldier's Field Road Ramps
 City/State : Boston, MA
 Weather : Clear

File Name : 10463001
 Site Code : 10463001
 Start Date : 11/22/2014
 Page No : 6

Start Time	No Harvard St From North				Soldier's Field Ramps From East				No Harvard St From South				Soldier's Field Ramps From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 10:00 AM to 12:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	11:30 AM				10:00 AM				11:00 AM				12:00 PM				
+0 mins.	77	116	0	193	0	0	0	0	0	86	46	132	0	0	4	4	
+15 mins.	61	85	0	146	0	0	0	0	0	92	67	159	0	0	0	0	
+30 mins.	62	100	1	163	0	0	0	0	1	112	40	153	1	0	1	2	
+45 mins.	50	83	0	133	0	0	0	0	0	92	43	135	21	1	14	36	
Total Volume	250	384	1	635	0	0	0	0	1	382	196	579	22	1	19	42	
% App. Total	39.4	60.5	0.2		0	0	0		0.2	66	33.9		52.4	2.4	45.2		
PHF	.812	.828	.250	.823	.000	.000	.000	.000	.250	.853	.731	.910	.262	.250	.339	.292	



Accurate Counts

978-664-2565

N/S Street : North Harvard Street
 E/W Street : Soldier's Field Road Ramps
 City/State : Boston, MA
 Weather : Clear

File Name : 10463001
 Site Code : 10463001
 Start Date : 11/22/2014
 Page No : 7

Groups Printed- Trucks

Start Time	No Harvard St From North			Soldier's Field Ramps From East			No Harvard St From South			Soldier's Field Ramps From West			Int. Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
10:00 AM	0	5	0	0	0	0	0	5	0	0	0	1	11
10:15 AM	0	3	0	0	0	0	0	7	0	0	0	0	10
10:30 AM	1	2	0	0	0	0	0	4	0	0	0	0	7
10:45 AM	0	1	0	0	0	0	0	4	0	0	0	0	5
Total	1	11	0	0	0	0	0	20	0	0	0	1	33
11:00 AM	0	1	0	0	0	0	0	3	1	0	0	0	5
11:15 AM	0	2	0	0	0	0	0	2	0	0	0	0	4
11:30 AM	0	0	0	0	0	0	0	2	0	0	0	1	3
11:45 AM	1	1	0	0	0	0	0	3	0	0	0	1	6
Total	1	4	0	0	0	0	0	10	1	0	0	2	18
12:00 PM	0	6	0	0	0	0	0	4	0	0	0	0	10
12:15 PM	0	0	0	0	0	0	0	3	0	0	0	0	3
12:30 PM	0	6	0	0	0	0	0	3	0	3	0	0	12
12:45 PM	0	3	0	0	0	0	0	2	0	2	0	0	7
Total	0	15	0	0	0	0	0	12	0	5	0	0	32
Grand Total	2	30	0	0	0	0	0	42	1	5	0	3	83
Apprch %	6.2	93.8	0	0	0	0	0	97.7	2.3	62.5	0	37.5	
Total %	2.4	36.1	0	0	0	0	0	50.6	1.2	6	0	3.6	

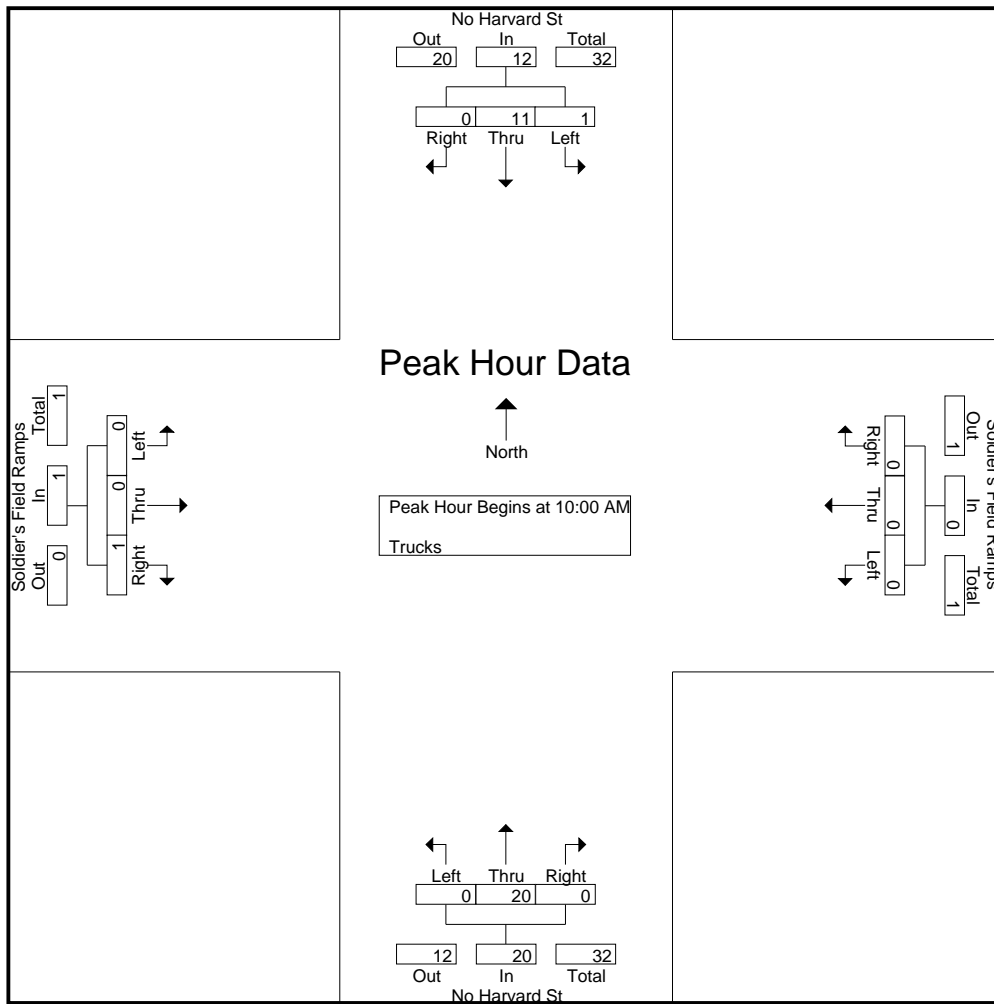
Accurate Counts

978-664-2565

N/S Street : North Harvard Street
 E/W Street : Soldier's Field Road Ramps
 City/State : Boston, MA
 Weather : Clear

File Name : 10463001
 Site Code : 10463001
 Start Date : 11/22/2014
 Page No : 8

Start Time	No Harvard St From North				Soldier's Field Ramps From East				No Harvard St From South				Soldier's Field Ramps From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 10:00 AM to 12:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 10:00 AM																	
10:00 AM	0	5	0	5	0	0	0	0	0	5	0	5	0	0	1	1	11
10:15 AM	0	3	0	3	0	0	0	0	0	7	0	7	0	0	0	0	10
10:30 AM	1	2	0	3	0	0	0	0	0	4	0	4	0	0	0	0	7
10:45 AM	0	1	0	1	0	0	0	0	0	4	0	4	0	0	0	0	5
Total Volume	1	11	0	12	0	0	0	0	0	20	0	20	0	0	1	1	33
% App. Total	8.3	91.7	0		0	0	0		0	100	0		0	0	100		
PHF	.250	.550	.000	.600	.000	.000	.000	.000	.000	.714	.000	.714	.000	.000	.250	.250	.750



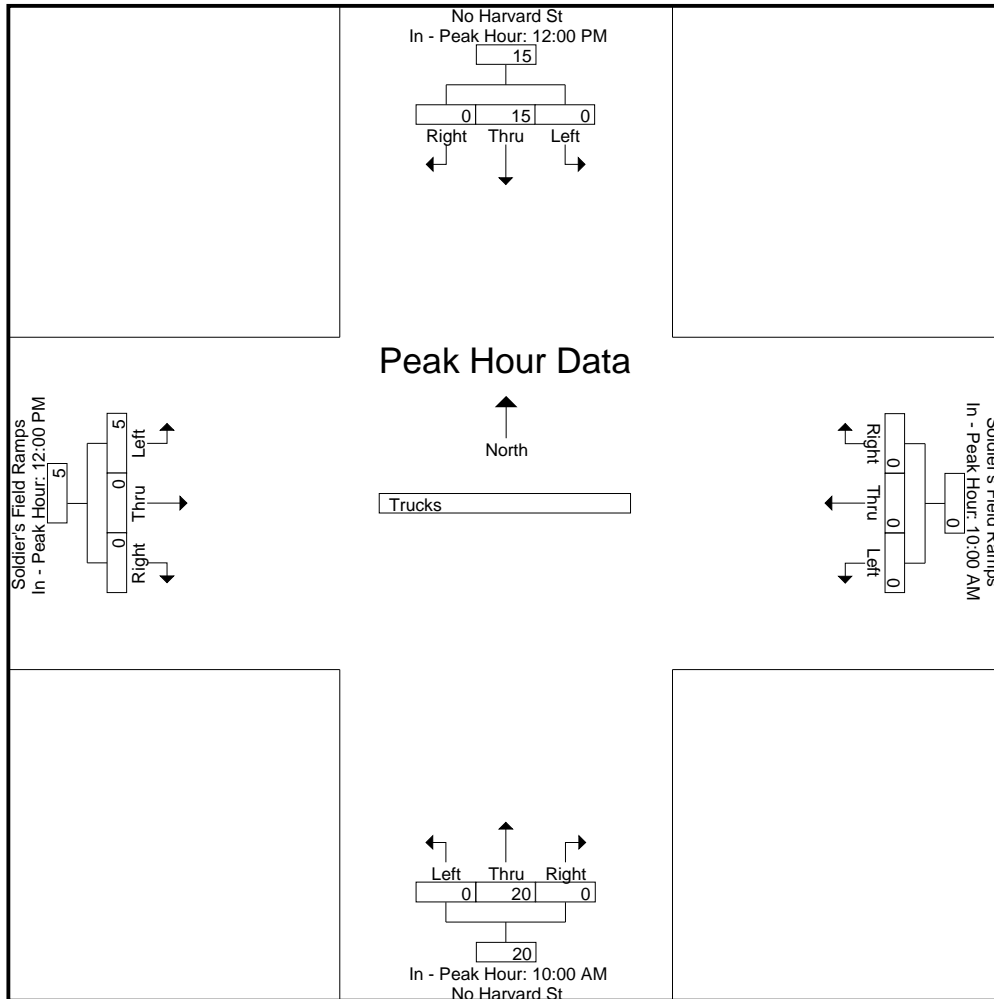
Accurate Counts

978-664-2565

N/S Street : North Harvard Street
 E/W Street : Soldier's Field Road Ramps
 City/State : Boston, MA
 Weather : Clear

File Name : 10463001
 Site Code : 10463001
 Start Date : 11/22/2014
 Page No : 9

Start Time	No Harvard St From North				Soldier's Field Ramps From East				No Harvard St From South				Soldier's Field Ramps From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 10:00 AM to 12:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	12:00 PM				10:00 AM				10:00 AM				12:00 PM				
+0 mins.	0	6	0	6	0	0	0	0	0	5	0	5	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	7	0	7	0	0	0	0	0
+30 mins.	0	6	0	6	0	0	0	0	0	4	0	4	3	0	0	3	3
+45 mins.	0	3	0	3	0	0	0	0	0	4	0	4	2	0	0	2	2
Total Volume	0	15	0	15	0	0	0	0	0	20	0	20	5	0	0	5	5
% App. Total	0	100	0		0	0	0		0	100	0		100	0	0		
PHF	.000	.625	.000	.625	.000	.000	.000	.000	.000	.714	.000	.714	.417	.000	.000	.417	



Accurate Counts

978-664-2565

N/S Street : North Harvard Street
 E/W Street : Soldier's Field Road Ramps
 City/State : Boston, MA
 Weather : Clear

File Name : 10463001
 Site Code : 10463001
 Start Date : 11/22/2014
 Page No : 10

Groups Printed- Bikes Peds

Start Time	No Harvard St From North				Soldier's Field Ramps From East				No Harvard St From South				Soldier's Field Ramps From West				Exclu. Total	Inclu. Total	Int. Total
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds			
10:00 AM	0	8	0	50	1	0	0	0	0	5	0	134	0	0	0	664	848	14	862
10:15 AM	0	10	0	37	0	0	0	10	0	4	0	248	0	1	0	876	1171	15	1186
10:30 AM	0	9	0	37	0	0	1	42	0	11	0	342	0	0	1	1069	1490	22	1512
10:45 AM	5	19	0	91	1	0	0	59	0	8	2	344	0	0	0	1258	1752	35	1787
Total	5	46	0	215	2	0	1	111	0	28	2	1068	0	1	1	3867	5261	86	5347
11:00 AM	0	12	0	65	3	0	1	13	0	3	2	215	0	0	1	1049	1342	22	1364
11:15 AM	2	10	0	134	0	1	0	0	0	7	0	306	1	0	1	1095	1535	22	1557
11:30 AM	0	12	0	62	0	2	0	0	0	4	0	217	0	0	1	862	1141	19	1160
11:45 AM	0	16	0	28	0	0	0	11	0	5	1	197	0	0	0	1059	1295	22	1317
Total	2	50	0	289	3	3	1	24	0	19	3	935	1	0	3	4065	5313	85	5398
12:00 PM	0	8	0	35	2	0	0	6	0	7	0	140	0	2	0	897	1078	19	1097
12:15 PM	0	14	0	55	0	0	0	3	0	7	0	196	0	2	0	777	1031	23	1054
12:30 PM	0	13	0	29	0	2	0	0	0	4	0	172	1	3	1	724	925	24	949
12:45 PM	3	9	0	28	0	0	0	0	0	3	0	133	0	0	0	741	902	15	917
Total	3	44	0	147	2	2	0	9	0	21	0	641	1	7	1	3139	3936	81	4017
Grand Total	10	140	0	651	7	5	2	144	0	68	5	2644	2	8	5	11071	14510	252	14762
Apprch %	6.7	93.3	0		50	35.7	14.3		0	93.2	6.8		13.3	53.3	33.3				
Total %	4	55.6	0		2.8	2	0.8		0	27	2		0.8	3.2	2		98.3	1.7	

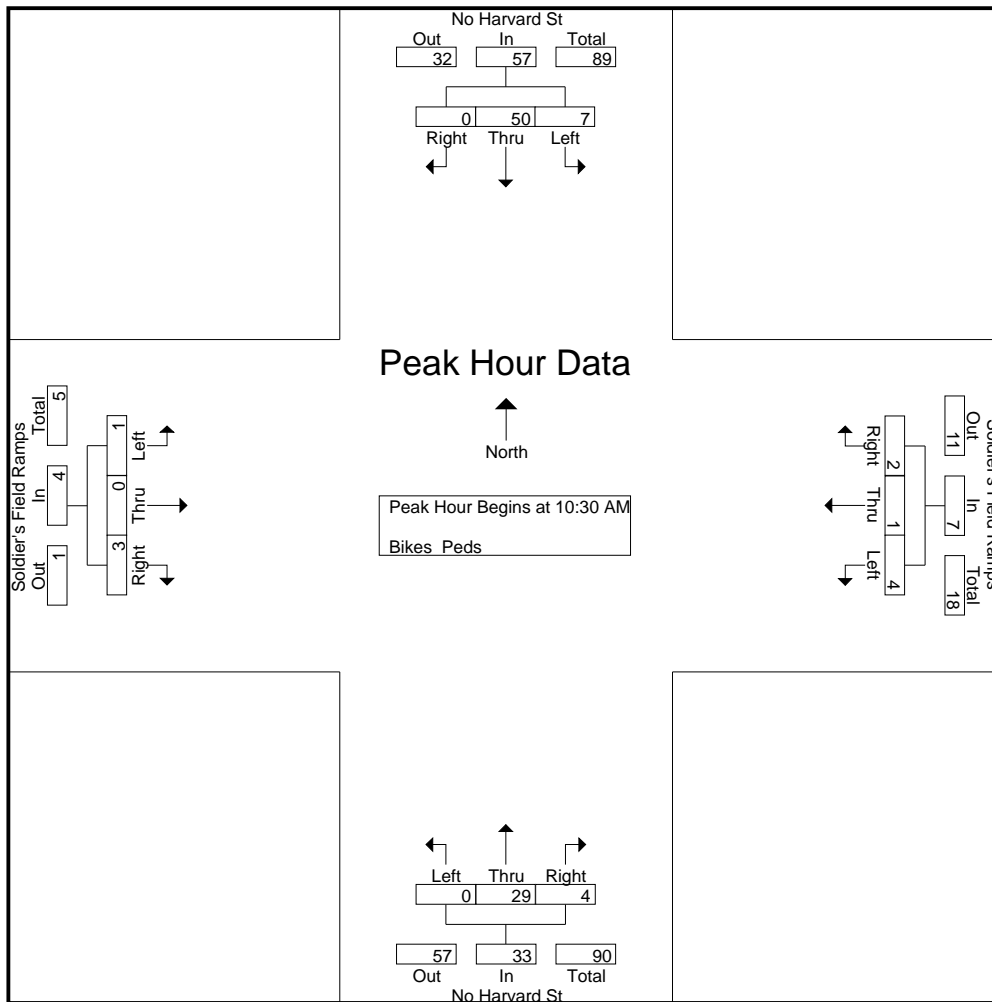
Accurate Counts

978-664-2565

N/S Street : North Harvard Street
 E/W Street : Soldier's Field Road Ramps
 City/State : Boston, MA
 Weather : Clear

File Name : 10463001
 Site Code : 10463001
 Start Date : 11/22/2014
 Page No : 11

Start Time	No Harvard St From North				Soldier's Field Ramps From East				No Harvard St From South				Soldier's Field Ramps From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 10:00 AM to 12:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 10:30 AM																	
10:30 AM	0	9	0	9	0	0	1	1	0	11	0	11	0	0	1	1	22
10:45 AM	5	19	0	24	1	0	0	1	0	8	2	10	0	0	0	0	35
11:00 AM	0	12	0	12	3	0	1	4	0	3	2	5	0	0	1	1	22
11:15 AM	2	10	0	12	0	1	0	1	0	7	0	7	1	0	1	2	22
Total Volume	7	50	0	57	4	1	2	7	0	29	4	33	1	0	3	4	101
% App. Total	12.3	87.7	0		57.1	14.3	28.6		0	87.9	12.1		25	0	75		
PHF	.350	.658	.000	.594	.333	.250	.500	.438	.000	.659	.500	.750	.250	.000	.750	.500	.721



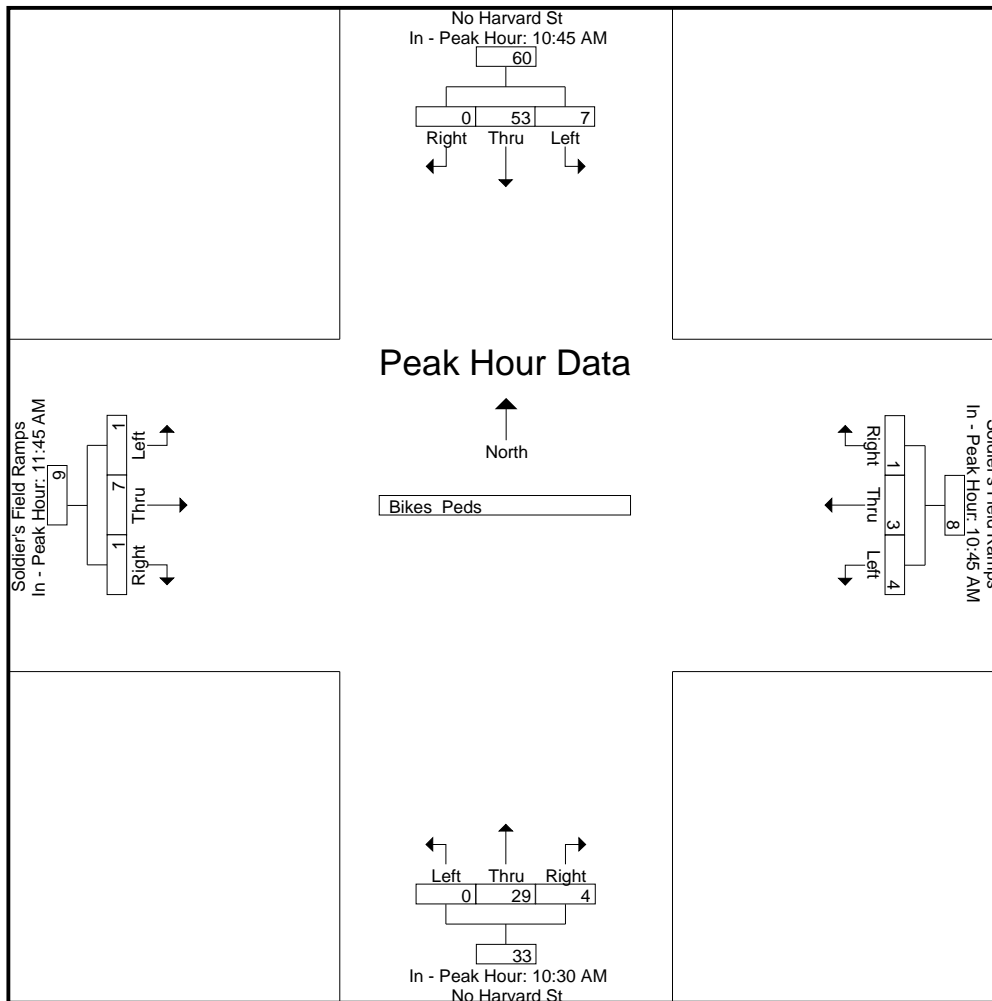
Accurate Counts

978-664-2565

N/S Street : North Harvard Street
 E/W Street : Soldier's Field Road Ramps
 City/State : Boston, MA
 Weather : Clear

File Name : 10463001
 Site Code : 10463001
 Start Date : 11/22/2014
 Page No : 12

Start Time	No Harvard St From North				Soldier's Field Ramps From East				No Harvard St From South				Soldier's Field Ramps From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 10:00 AM to 12:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	10:45 AM				10:45 AM				10:30 AM				11:45 AM				
+0 mins.	5	19	0	24	1	0	0	1	0	11	0	11	0	0	0	0	
+15 mins.	0	12	0	12	3	0	1	4	0	8	2	10	0	2	0	2	
+30 mins.	2	10	0	12	0	1	0	1	0	3	2	5	0	2	0	2	
+45 mins.	0	12	0	12	0	2	0	2	0	7	0	7	1	3	1	5	
Total Volume	7	53	0	60	4	3	1	8	0	29	4	33	1	7	1	9	
% App. Total	11.7	88.3	0		50	37.5	12.5		0	87.9	12.1		11.1	77.8	11.1		
PHF	.350	.697	.000	.625	.333	.375	.250	.500	.000	.659	.500	.750	.250	.583	.250	.450	



Accurate Counts

978-664-2565

N/S Street : North Harvard Dstreet
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

File Name : 10463002
 Site Code : 10463002
 Start Date : 11/22/2014
 Page No : 1

Groups Printed- Cars - Trucks

Start Time	No Harvard St From North			Western Ave From East			No Harvard St From South			Western Ave From West			Int. Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
10:00 AM	12	29	31	16	92	28	34	94	14	36	53	3	442
10:15 AM	18	40	26	19	68	28	43	97	15	30	59	4	447
10:30 AM	19	36	28	34	55	31	39	93	18	57	76	2	488
10:45 AM	28	32	36	15	59	38	31	95	15	38	46	3	436
Total	77	137	121	84	274	125	147	379	62	161	234	12	1813
11:00 AM	21	30	27	25	60	30	26	99	21	36	48	1	424
11:15 AM	13	40	39	18	70	23	34	89	24	32	50	0	432
11:30 AM	16	46	31	17	61	24	28	63	15	24	63	9	397
11:45 AM	11	37	28	29	88	31	32	75	15	26	62	4	438
Total	61	153	125	89	279	108	120	326	75	118	223	14	1691
12:00 PM	16	34	30	19	72	23	30	45	11	16	50	2	348
12:15 PM	9	38	36	17	68	30	24	44	18	18	43	0	345
12:30 PM	6	34	14	22	56	24	28	44	21	14	56	3	322
12:45 PM	14	20	26	23	79	20	29	49	7	13	55	0	335
Total	45	126	106	81	275	97	111	182	57	61	204	5	1350
Grand Total	183	416	352	254	828	330	378	887	194	340	661	31	4854
Apprch %	19.2	43.7	37	18	58.6	23.4	25.9	60.8	13.3	32.9	64.1	3	
Total %	3.8	8.6	7.3	5.2	17.1	6.8	7.8	18.3	4	7	13.6	0.6	
Cars	178	399	343	252	807	322	371	872	190	332	642	31	4739
% Cars	97.3	95.9	97.4	99.2	97.5	97.6	98.1	98.3	97.9	97.6	97.1	100	97.6
Trucks	5	17	9	2	21	8	7	15	4	8	19	0	115
% Trucks	2.7	4.1	2.6	0.8	2.5	2.4	1.9	1.7	2.1	2.4	2.9	0	2.4

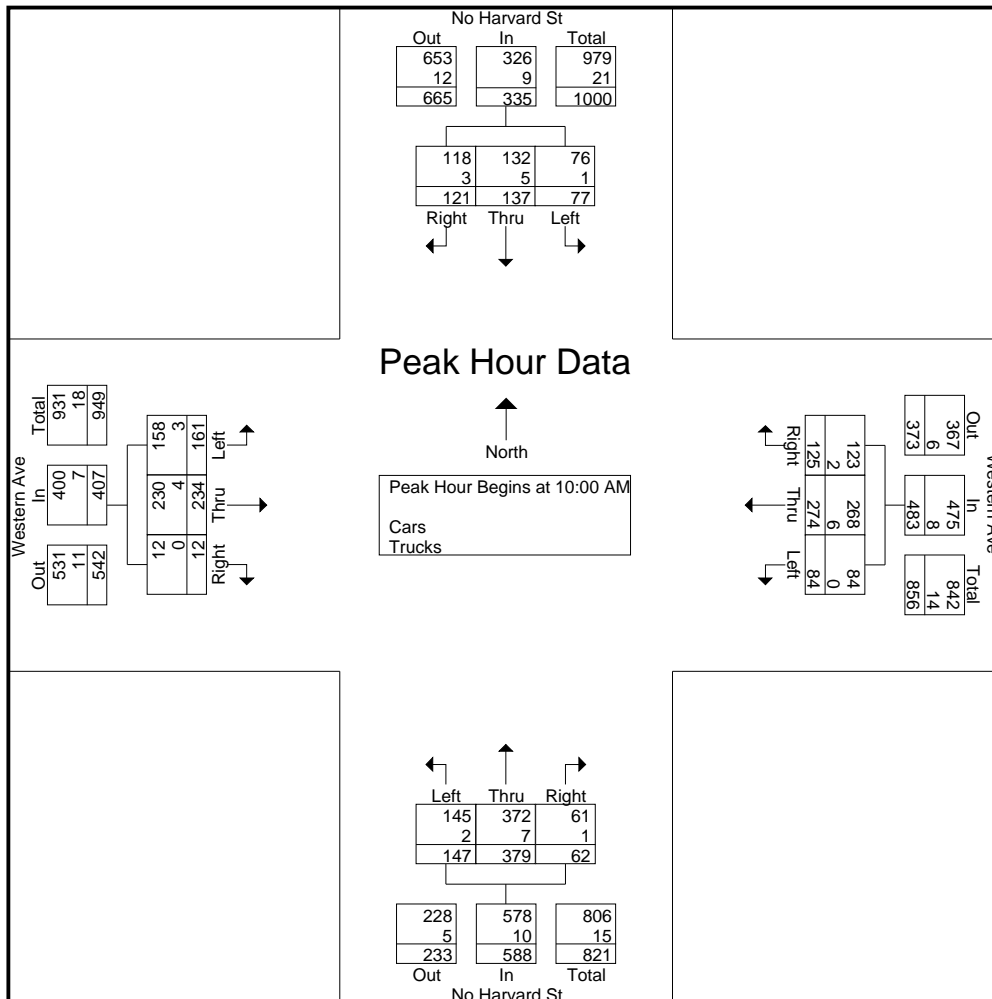
Accurate Counts

978-664-2565

N/S Street : North Harvard Dstreet
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

File Name : 10463002
 Site Code : 10463002
 Start Date : 11/22/2014
 Page No : 2

Start Time	No Harvard St From North				Western Ave From East				No Harvard St From South				Western Ave From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 10:00 AM to 12:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 10:00 AM																	
10:00 AM	12	29	31	72	16	92	28	136	34	94	14	142	36	53	3	92	442
10:15 AM	18	40	26	84	19	68	28	115	43	97	15	155	30	59	4	93	447
10:30 AM	19	36	28	83	34	55	31	120	39	93	18	150	57	76	2	135	488
10:45 AM	28	32	36	96	15	59	38	112	31	95	15	141	38	46	3	87	436
Total Volume	77	137	121	335	84	274	125	483	147	379	62	588	161	234	12	407	1813
% App. Total	23	40.9	36.1		17.4	56.7	25.9		25	64.5	10.5		39.6	57.5	2.9		
PHF	.688	.856	.840	.872	.618	.745	.822	.888	.855	.977	.861	.948	.706	.770	.750	.754	.929
Cars	76	132	118	326	84	268	123	475	145	372	61	578	158	230	12	400	1779
% Cars	98.7	96.4	97.5	97.3	100	97.8	98.4	98.3	98.6	98.2	98.4	98.3	98.1	98.3	100	98.3	98.1
Trucks	1	5	3	9	0	6	2	8	2	7	1	10	3	4	0	7	34
% Trucks	1.3	3.6	2.5	2.7	0	2.2	1.6	1.7	1.4	1.8	1.6	1.7	1.9	1.7	0	1.7	1.9



Accurate Counts

978-664-2565

N/S Street : North Harvard Dstreet
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

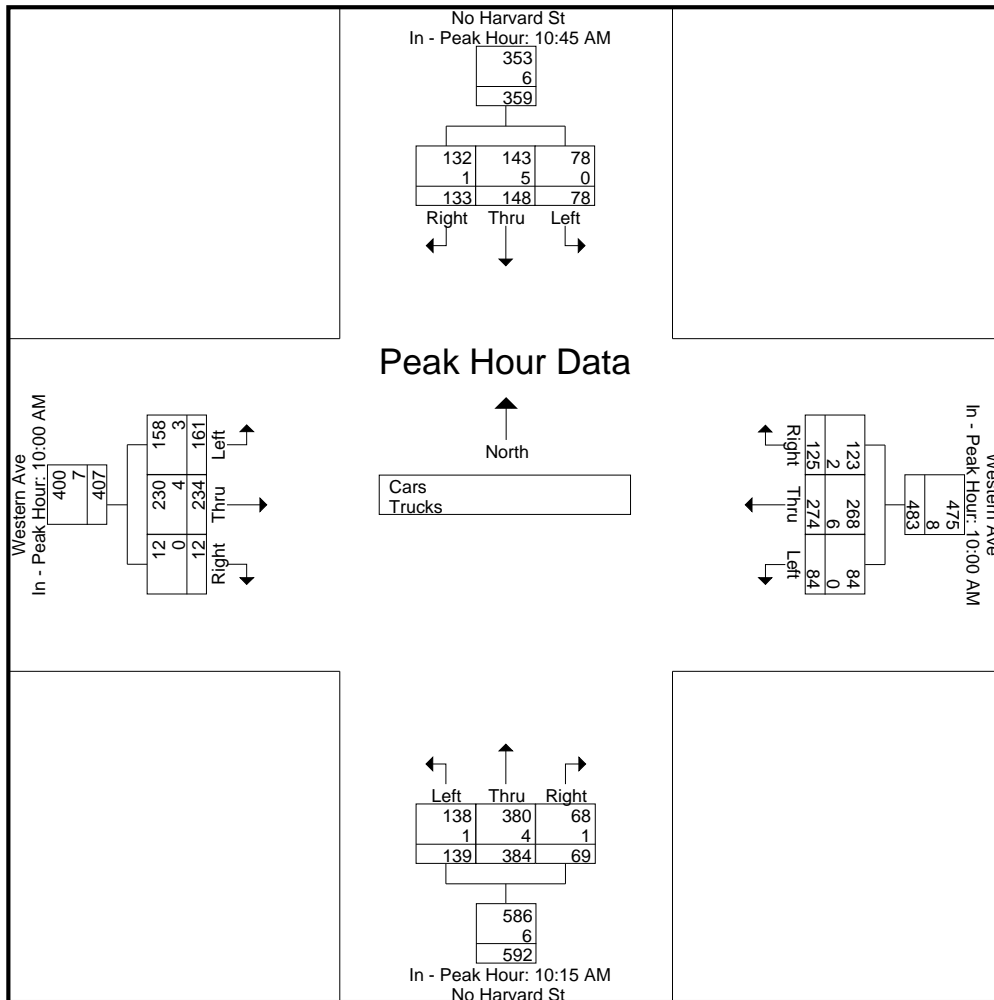
File Name : 10463002
 Site Code : 10463002
 Start Date : 11/22/2014
 Page No : 3

Start Time	No Harvard St From North				Western Ave From East				No Harvard St From South				Western Ave From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	

Peak Hour Analysis From 10:00 AM to 12:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	10:45 AM				10:00 AM				10:15 AM				10:00 AM			
+0 mins.	28	32	36	96	16	92	28	136	43	97	15	155	36	53	3	92
+15 mins.	21	30	27	78	19	68	28	115	39	93	18	150	30	59	4	93
+30 mins.	13	40	39	92	34	55	31	120	31	95	15	141	57	76	2	135
+45 mins.	16	46	31	93	15	59	38	112	26	99	21	146	38	46	3	87
Total Volume	78	148	133	359	84	274	125	483	139	384	69	592	161	234	12	407
% App. Total	21.7	41.2	37		17.4	56.7	25.9		23.5	64.9	11.7		39.6	57.5	2.9	
PHF	.696	.804	.853	.935	.618	.745	.822	.888	.808	.970	.821	.955	.706	.770	.750	.754
Cars	78	143	132	353	84	268	123	475	138	380	68	586	158	230	12	400
% Cars	100	96.6	99.2	98.3	100	97.8	98.4	98.3	99.3	99	98.6	99	98.1	98.3	100	98.3
Trucks	0	5	1	6	0	6	2	8	1	4	1	6	3	4	0	7
% Trucks	0	3.4	0.8	1.7	0	2.2	1.6	1.7	0.7	1	1.4	1	1.9	1.7	0	1.7



Accurate Counts

978-664-2565

N/S Street : North Harvard Dstreet
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

File Name : 10463002
 Site Code : 10463002
 Start Date : 11/22/2014
 Page No : 4

Groups Printed- Cars

Start Time	No Harvard St From North			Western Ave From East			No Harvard St From South			Western Ave From West			Int. Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
10:00 AM	12	27	29	16	92	28	33	91	13	36	52	3	432
10:15 AM	17	39	25	19	67	28	43	96	15	29	57	4	439
10:30 AM	19	34	28	34	53	31	38	92	18	56	76	2	481
10:45 AM	28	32	36	15	56	36	31	93	15	37	45	3	427
Total	76	132	118	84	268	123	145	372	61	158	230	12	1779
11:00 AM	21	29	26	25	59	30	26	99	20	36	45	1	417
11:15 AM	13	38	39	18	67	23	33	88	24	32	48	0	423
11:30 AM	16	44	31	16	60	24	26	63	14	24	63	9	390
11:45 AM	10	37	26	29	86	28	32	75	15	25	59	4	426
Total	60	148	122	88	272	105	117	325	73	117	215	14	1656
12:00 PM	13	32	30	19	69	23	30	43	11	16	50	2	338
12:15 PM	9	37	34	17	68	30	23	42	18	18	40	0	336
12:30 PM	6	31	13	22	53	24	28	43	20	12	53	3	308
12:45 PM	14	19	26	22	77	17	28	47	7	11	54	0	322
Total	42	119	103	80	267	94	109	175	56	57	197	5	1304
Grand Total	178	399	343	252	807	322	371	872	190	332	642	31	4739
Apprch %	19.3	43.4	37.3	18.2	58.4	23.3	25.9	60.9	13.3	33	63.9	3.1	
Total %	3.8	8.4	7.2	5.3	17	6.8	7.8	18.4	4	7	13.5	0.7	

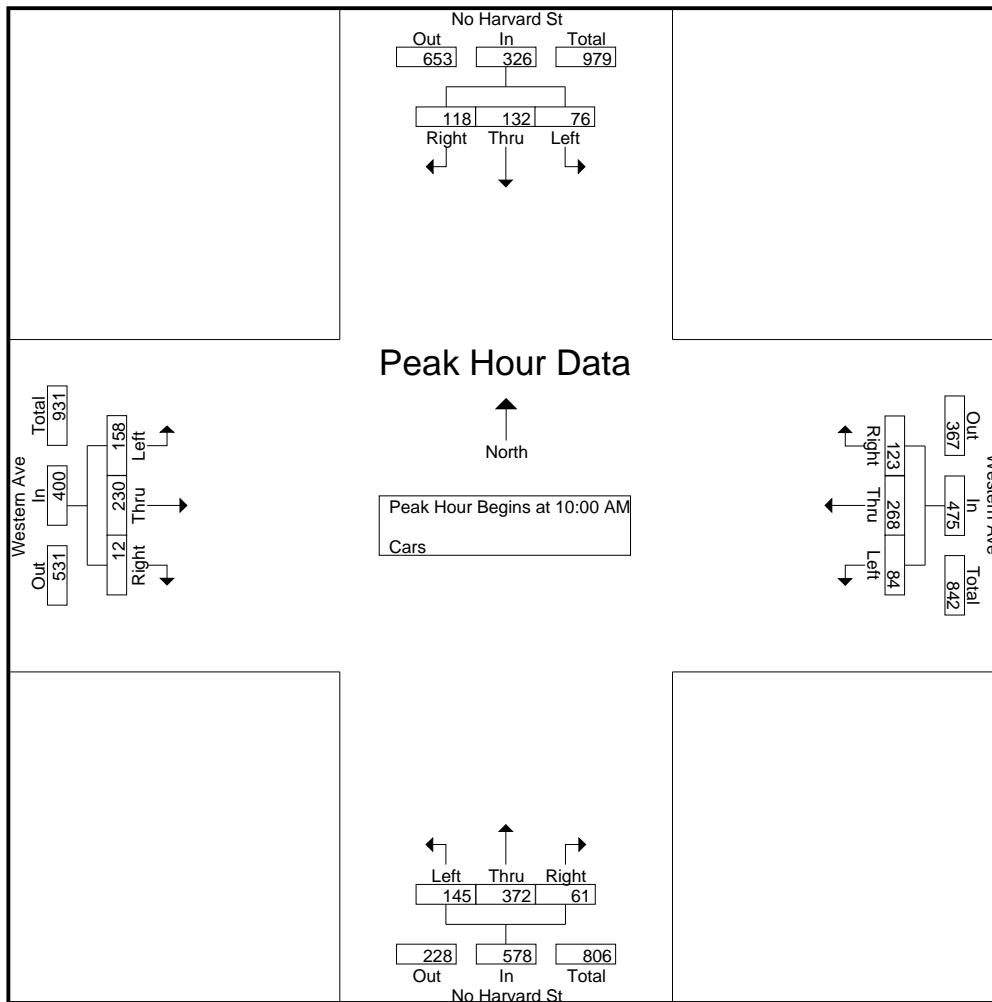
Accurate Counts

978-664-2565

N/S Street : North Harvard Dstreet
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

File Name : 10463002
 Site Code : 10463002
 Start Date : 11/22/2014
 Page No : 5

Start Time	No Harvard St From North				Western Ave From East				No Harvard St From South				Western Ave From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 10:00 AM to 12:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 10:00 AM																	
10:00 AM	12	27	29	68	16	92	28	136	33	91	13	137	36	52	3	91	432
10:15 AM	17	39	25	81	19	67	28	114	43	96	15	154	29	57	4	90	439
10:30 AM	19	34	28	81	34	53	31	118	38	92	18	148	56	76	2	134	481
10:45 AM	28	32	36	96	15	56	36	107	31	93	15	139	37	45	3	85	427
Total Volume	76	132	118	326	84	268	123	475	145	372	61	578	158	230	12	400	1779
% App. Total	23.3	40.5	36.2		17.7	56.4	25.9		25.1	64.4	10.6		39.5	57.5	3		
PHF	.679	.846	.819	.849	.618	.728	.854	.873	.843	.969	.847	.938	.705	.757	.750	.746	.925



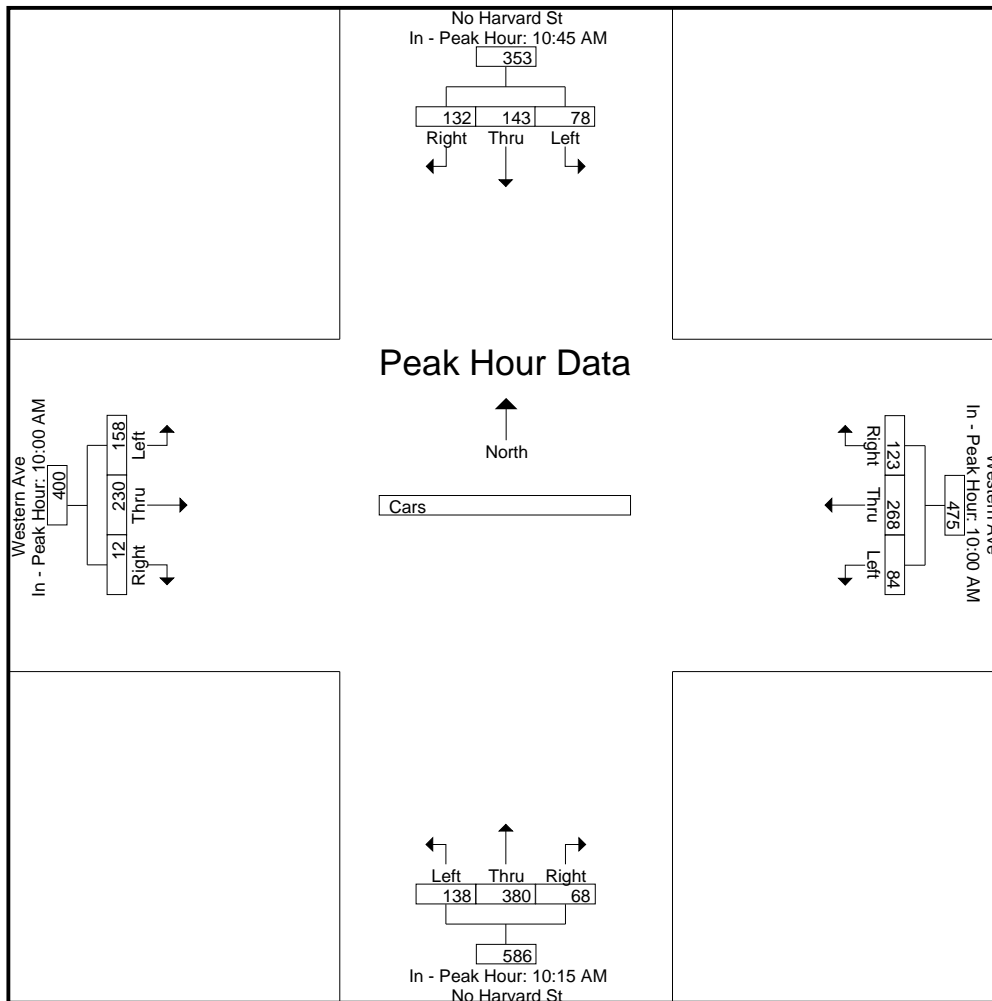
Accurate Counts

978-664-2565

N/S Street : North Harvard Dstreet
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

File Name : 10463002
 Site Code : 10463002
 Start Date : 11/22/2014
 Page No : 6

Start Time	No Harvard St From North				Western Ave From East				No Harvard St From South				Western Ave From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 10:00 AM to 12:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	10:45 AM				10:00 AM				10:15 AM				10:00 AM				
+0 mins.	28	32	36	96	16	92	28	136	43	96	15	154	36	52	3	91	
+15 mins.	21	29	26	76	19	67	28	114	38	92	18	148	29	57	4	90	
+30 mins.	13	38	39	90	34	53	31	118	31	93	15	139	56	76	2	134	
+45 mins.	16	44	31	91	15	56	36	107	26	99	20	145	37	45	3	85	
Total Volume	78	143	132	353	84	268	123	475	138	380	68	586	158	230	12	400	
% App. Total	22.1	40.5	37.4		17.7	56.4	25.9		23.5	64.8	11.6		39.5	57.5	3		
PHF	.696	.813	.846	.919	.618	.728	.854	.873	.802	.960	.850	.951	.705	.757	.750	.746	



Accurate Counts

978-664-2565

N/S Street : North Harvard Dstreet
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

File Name : 10463002
 Site Code : 10463002
 Start Date : 11/22/2014
 Page No : 7

Groups Printed- Trucks

Start Time	No Harvard St From North			Western Ave From East			No Harvard St From South			Western Ave From West			Int. Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
10:00 AM	0	2	2	0	0	0	1	3	1	0	1	0	10
10:15 AM	1	1	1	0	1	0	0	1	0	1	2	0	8
10:30 AM	0	2	0	0	2	0	1	1	0	1	0	0	7
10:45 AM	0	0	0	0	3	2	0	2	0	1	1	0	9
Total	1	5	3	0	6	2	2	7	1	3	4	0	34
11:00 AM	0	1	1	0	1	0	0	0	1	0	3	0	7
11:15 AM	0	2	0	0	3	0	1	1	0	0	2	0	9
11:30 AM	0	2	0	1	1	0	2	0	1	0	0	0	7
11:45 AM	1	0	2	0	2	3	0	0	0	1	3	0	12
Total	1	5	3	1	7	3	3	1	2	1	8	0	35
12:00 PM	3	2	0	0	3	0	0	2	0	0	0	0	10
12:15 PM	0	1	2	0	0	0	1	2	0	0	3	0	9
12:30 PM	0	3	1	0	3	0	0	1	1	2	3	0	14
12:45 PM	0	1	0	1	2	3	1	2	0	2	1	0	13
Total	3	7	3	1	8	3	2	7	1	4	7	0	46
Grand Total	5	17	9	2	21	8	7	15	4	8	19	0	115
Apprch %	16.1	54.8	29	6.5	67.7	25.8	26.9	57.7	15.4	29.6	70.4	0	
Total %	4.3	14.8	7.8	1.7	18.3	7	6.1	13	3.5	7	16.5	0	

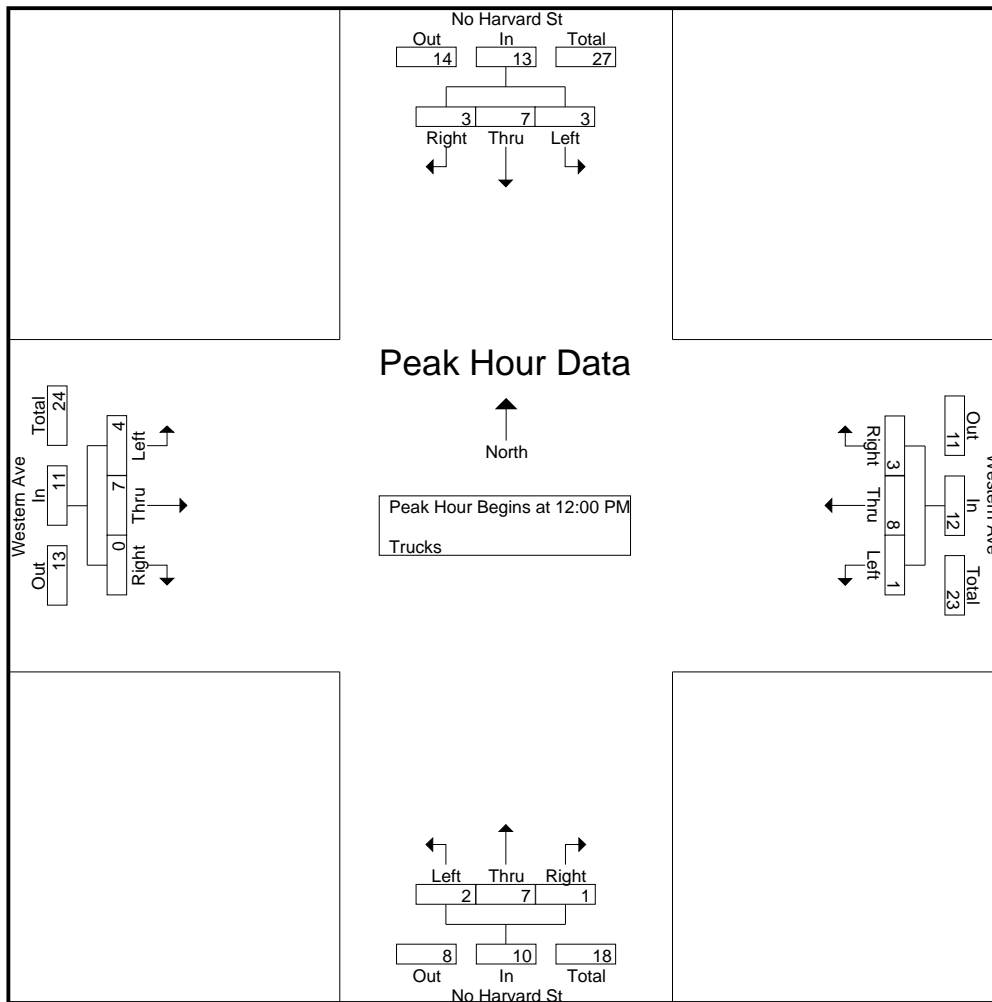
Accurate Counts

978-664-2565

N/S Street : North Harvard Dstreet
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

File Name : 10463002
 Site Code : 10463002
 Start Date : 11/22/2014
 Page No : 8

Start Time	No Harvard St From North				Western Ave From East				No Harvard St From South				Western Ave From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 10:00 AM to 12:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 12:00 PM																	
12:00 PM	3	2	0	5	0	3	0	3	0	2	0	2	0	0	0	0	10
12:15 PM	0	1	2	3	0	0	0	0	1	2	0	3	0	3	0	3	9
12:30 PM	0	3	1	4	0	3	0	3	0	1	1	2	2	3	0	5	14
12:45 PM	0	1	0	1	1	2	3	6	1	2	0	3	2	1	0	3	13
Total Volume	3	7	3	13	1	8	3	12	2	7	1	10	4	7	0	11	46
% App. Total	23.1	53.8	23.1		8.3	66.7	25		20	70	10		36.4	63.6	0		
PHF	.250	.583	.375	.650	.250	.667	.250	.500	.500	.875	.250	.833	.500	.583	.000	.550	.821



Accurate Counts

978-664-2565

N/S Street : North Harvard Dstreet
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

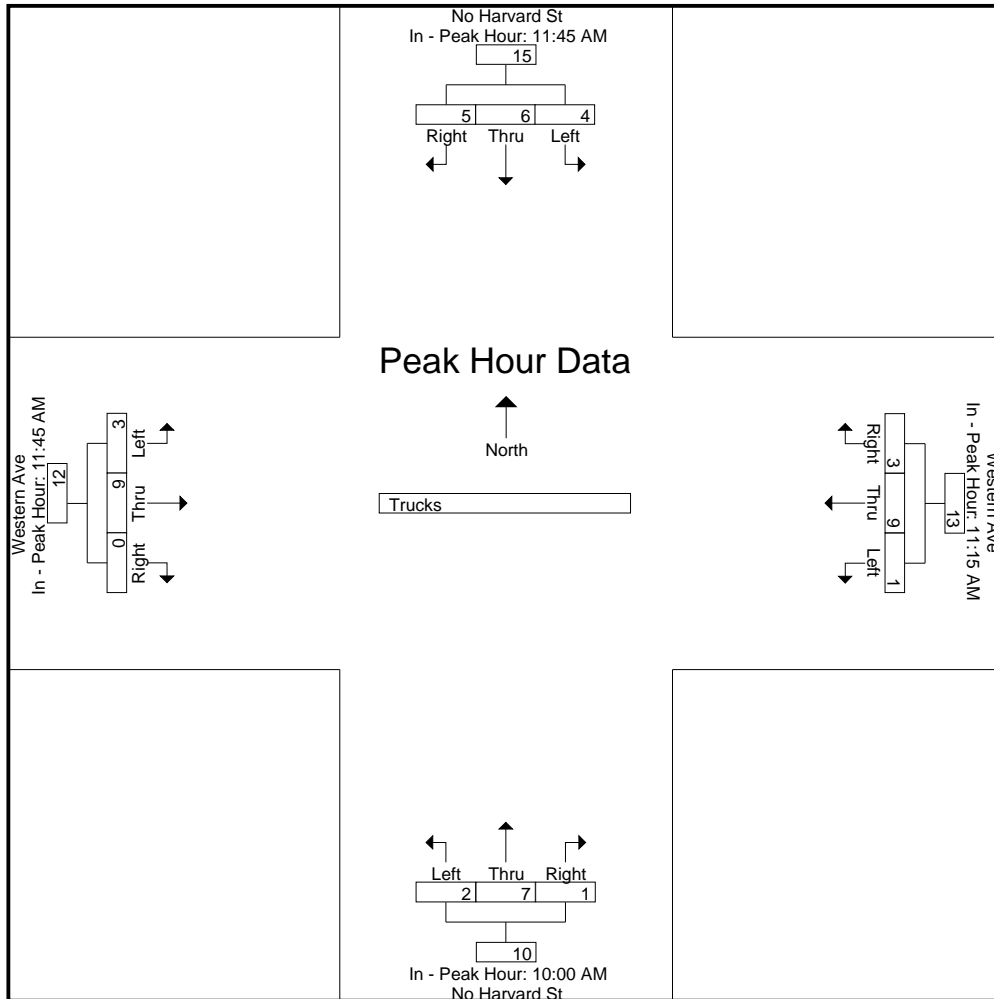
File Name : 10463002
 Site Code : 10463002
 Start Date : 11/22/2014
 Page No : 9

	No Harvard St From North				Western Ave From East				No Harvard St From South				Western Ave From West				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total

Peak Hour Analysis From 10:00 AM to 12:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	11:45 AM				11:15 AM				10:00 AM				11:45 AM			
+0 mins.	1	0	2	3	0	3	0	3	1	3	1	5	1	3	0	4
+15 mins.	3	2	0	5	1	1	0	2	0	1	0	1	0	0	0	0
+30 mins.	0	1	2	3	0	2	3	5	1	1	0	2	0	3	0	3
+45 mins.	0	3	1	4	0	3	0	3	0	2	0	2	2	3	0	5
Total Volume	4	6	5	15	1	9	3	13	2	7	1	10	3	9	0	12
% App. Total	26.7	40	33.3		7.7	69.2	23.1		20	70	10		25	75	0	
PHF	.333	.500	.625	.750	.250	.750	.250	.650	.500	.583	.250	.500	.375	.750	.000	.600



Accurate Counts

978-664-2565

N/S Street : North Harvard Dstreet
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

File Name : 10463002
 Site Code : 10463002
 Start Date : 11/22/2014
 Page No : 10

Groups Printed- Bikes Peds

Start Time	No Harvard St From North				Western Ave From East				No Harvard St From South				Western Ave From West				Exclu. Total	Inclu. Total	Int. Total
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds			
10:00 AM	0	3	1	4	0	0	0	9	0	5	0	3	0	1	0	65	81	10	91
10:15 AM	0	4	0	5	0	0	1	41	0	5	0	7	0	4	0	83	136	14	150
10:30 AM	0	3	0	0	0	4	0	67	0	7	0	12	1	3	0	106	185	18	203
10:45 AM	2	6	0	3	0	0	1	68	0	5	0	15	0	2	0	116	202	16	218
Total	2	16	1	12	0	4	2	185	0	22	0	37	1	10	0	370	604	58	662
11:00 AM	0	1	0	7	0	0	0	19	1	2	0	8	2	3	0	60	94	9	103
11:15 AM	0	0	0	1	0	1	0	37	0	5	1	3	0	2	0	63	104	9	113
11:30 AM	0	2	0	2	0	0	0	38	0	10	0	6	0	1	0	85	131	13	144
11:45 AM	0	0	0	2	0	0	1	28	0	5	0	4	0	0	0	55	89	6	95
Total	0	3	0	12	0	1	1	122	1	22	1	21	2	6	0	263	418	37	455
12:00 PM	0	3	0	1	0	2	0	41	0	8	1	1	2	0	0	57	100	16	116
12:15 PM	0	3	2	12	1	1	1	16	0	7	0	6	0	0	0	49	83	15	98
12:30 PM	0	3	0	21	0	1	0	29	0	3	0	3	0	1	0	65	118	8	126
12:45 PM	0	3	0	14	0	0	0	51	0	3	0	3	3	0	0	82	150	9	159
Total	0	12	2	48	1	4	1	137	0	21	1	13	5	1	0	253	451	48	499
Grand Total	2	31	3	72	1	9	4	444	1	65	2	71	8	17	0	886	1473	143	1616
Apprch %	5.6	86.1	8.3		7.1	64.3	28.6		1.5	95.6	2.9		32	68	0				
Total %	1.4	21.7	2.1		0.7	6.3	2.8		0.7	45.5	1.4		5.6	11.9	0		91.2	8.8	

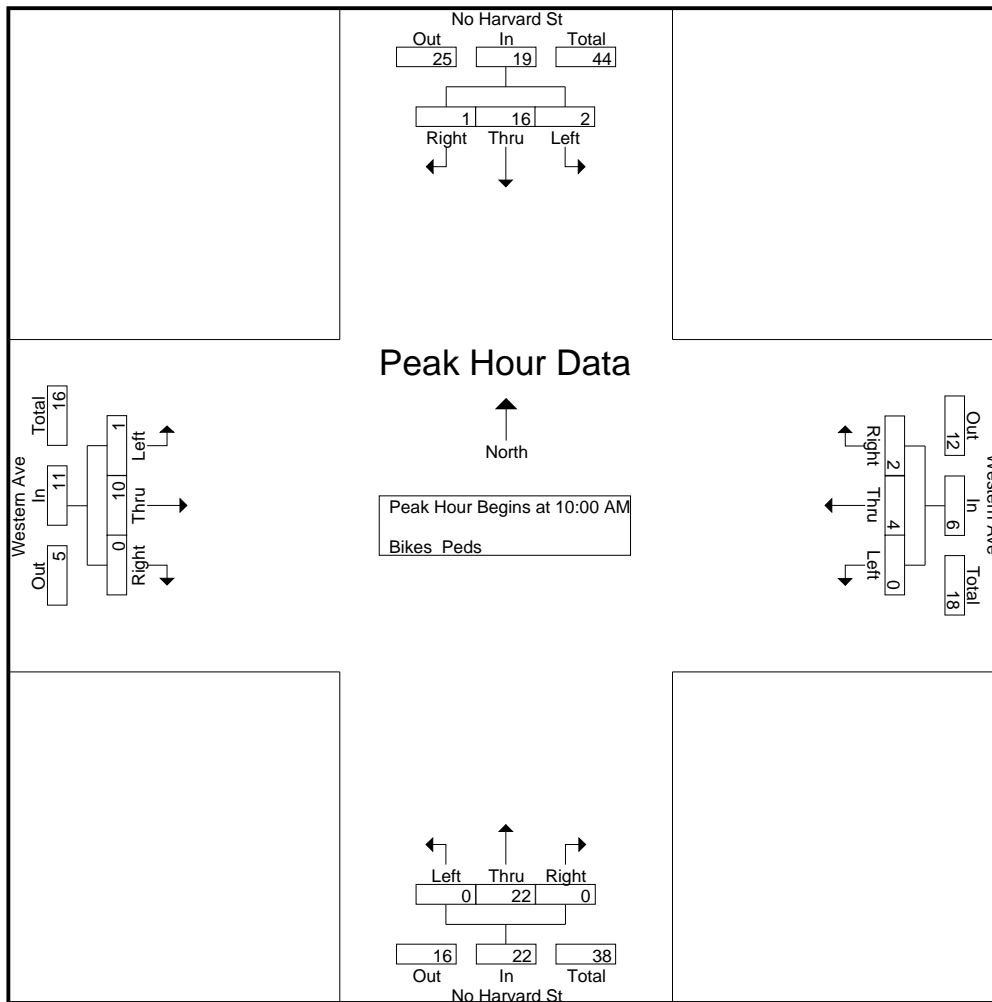
Accurate Counts

978-664-2565

N/S Street : North Harvard Dstreet
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

File Name : 10463002
 Site Code : 10463002
 Start Date : 11/22/2014
 Page No : 11

Start Time	No Harvard St From North				Western Ave From East				No Harvard St From South				Western Ave From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 10:00 AM to 12:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 10:00 AM																	
10:00 AM	0	3	1	4	0	0	0	0	0	5	0	5	0	1	0	1	10
10:15 AM	0	4	0	4	0	0	1	1	0	5	0	5	0	4	0	4	14
10:30 AM	0	3	0	3	0	4	0	4	0	7	0	7	1	3	0	4	18
10:45 AM	2	6	0	8	0	0	1	1	0	5	0	5	0	2	0	2	16
Total Volume	2	16	1	19	0	4	2	6	0	22	0	22	1	10	0	11	58
% App. Total	10.5	84.2	5.3		0	66.7	33.3		0	100	0		9.1	90.9	0		
PHF	.250	.667	.250	.594	.000	.250	.500	.375	.000	.786	.000	.786	.250	.625	.000	.688	.806



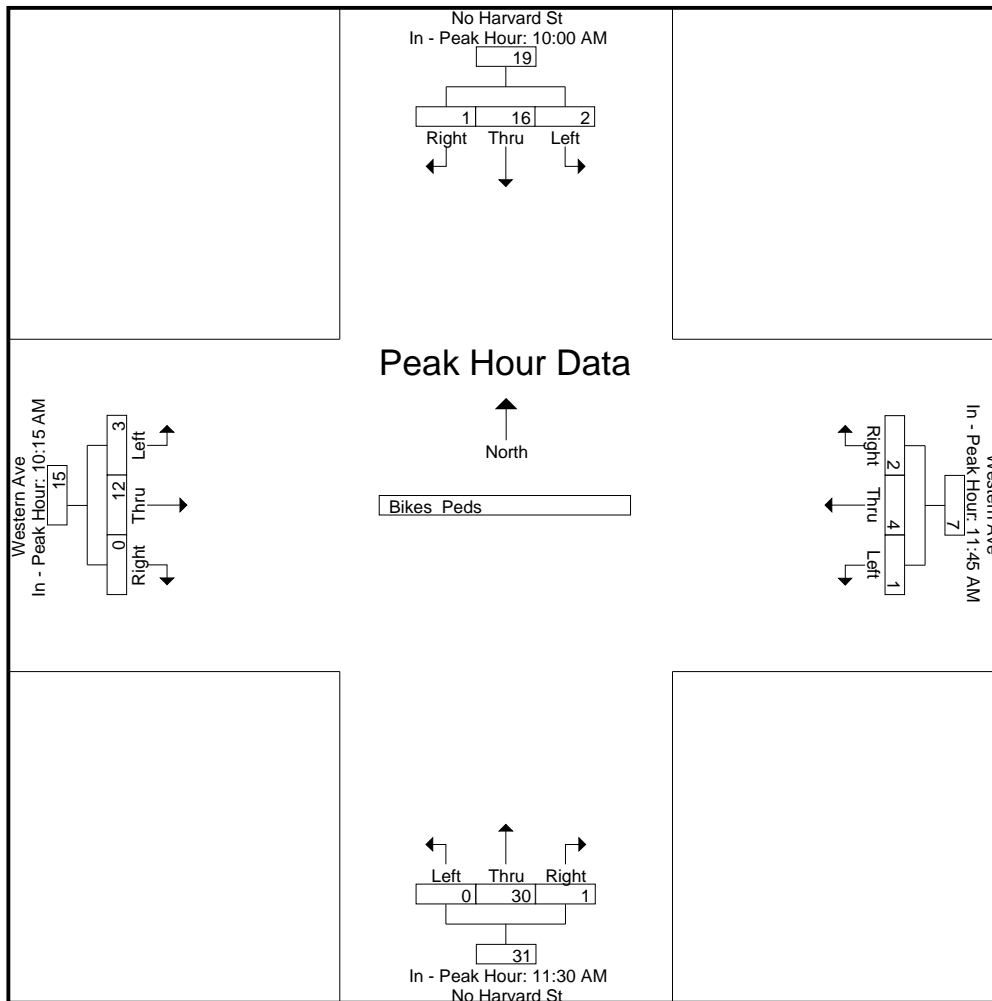
Accurate Counts

978-664-2565

N/S Street : North Harvard Dstreet
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

File Name : 10463002
 Site Code : 10463002
 Start Date : 11/22/2014
 Page No : 12

Start Time	No Harvard St From North				Western Ave From East				No Harvard St From South				Western Ave From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 10:00 AM to 12:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	10:00 AM				11:45 AM				11:30 AM				10:15 AM				
+0 mins.	0	3	1	4	0	0	1	1	0	10	0	10	0	4	0	4	
+15 mins.	0	4	0	4	0	2	0	2	0	5	0	5	1	3	0	4	
+30 mins.	0	3	0	3	1	1	1	3	0	8	1	9	0	2	0	2	
+45 mins.	2	6	0	8	0	1	0	1	0	7	0	7	2	3	0	5	
Total Volume	2	16	1	19	1	4	2	7	0	30	1	31	3	12	0	15	
% App. Total	10.5	84.2	5.3		14.3	57.1	28.6		0	96.8	3.2		20	80	0		
PHF	.250	.667	.250	.594	.250	.500	.500	.583	.000	.750	.250	.775	.375	.750	.000	.750	



Accurate Counts

978-664-2565

N/S Street : Batten Way / Hague Street
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

File Name : 10463003
 Site Code : 10463003
 Start Date : 11/22/2014
 Page No : 1

Groups Printed- Cars - Trucks

Start Time	Batten Wy From North			Western Ave From East			Hague St From South			Western Ave From West			Int. Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
10:00 AM	17	0	5	6	121	26	15	18	7	11	56	1	283
10:15 AM	47	3	12	9	102	25	22	16	15	11	67	6	335
10:30 AM	36	0	4	8	109	26	15	20	14	10	81	5	328
10:45 AM	26	2	8	8	106	15	22	22	25	5	91	7	337
Total	126	5	29	31	438	92	74	76	61	37	295	19	1283
11:00 AM	29	1	5	6	95	14	20	18	22	7	96	7	320
11:15 AM	25	2	10	15	104	14	14	7	31	4	80	3	309
11:30 AM	18	0	9	4	102	15	11	8	3	3	92	6	271
11:45 AM	25	1	10	8	128	15	12	3	13	6	86	4	311
Total	97	4	34	33	429	58	57	36	69	20	354	20	1211
12:00 PM	15	0	4	11	128	16	8	4	10	7	76	3	282
12:15 PM	21	3	7	5	104	17	11	7	12	8	72	0	267
12:30 PM	9	0	7	8	119	15	5	3	9	0	79	1	255
12:45 PM	7	0	3	8	114	9	6	5	7	1	67	4	231
Total	52	3	21	32	465	57	30	19	38	16	294	8	1035
Grand Total	275	12	84	96	1332	207	161	131	168	73	943	47	3529
Apprch %	74.1	3.2	22.6	5.9	81.5	12.7	35	28.5	36.5	6.9	88.7	4.4	
Total %	7.8	0.3	2.4	2.7	37.7	5.9	4.6	3.7	4.8	2.1	26.7	1.3	
Cars	275	12	84	95	1303	207	157	131	166	72	919	47	3468
% Cars	100	100	100	99	97.8	100	97.5	100	98.8	98.6	97.5	100	98.3
Trucks	0	0	0	1	29	0	4	0	2	1	24	0	61
% Trucks	0	0	0	1	2.2	0	2.5	0	1.2	1.4	2.5	0	1.7

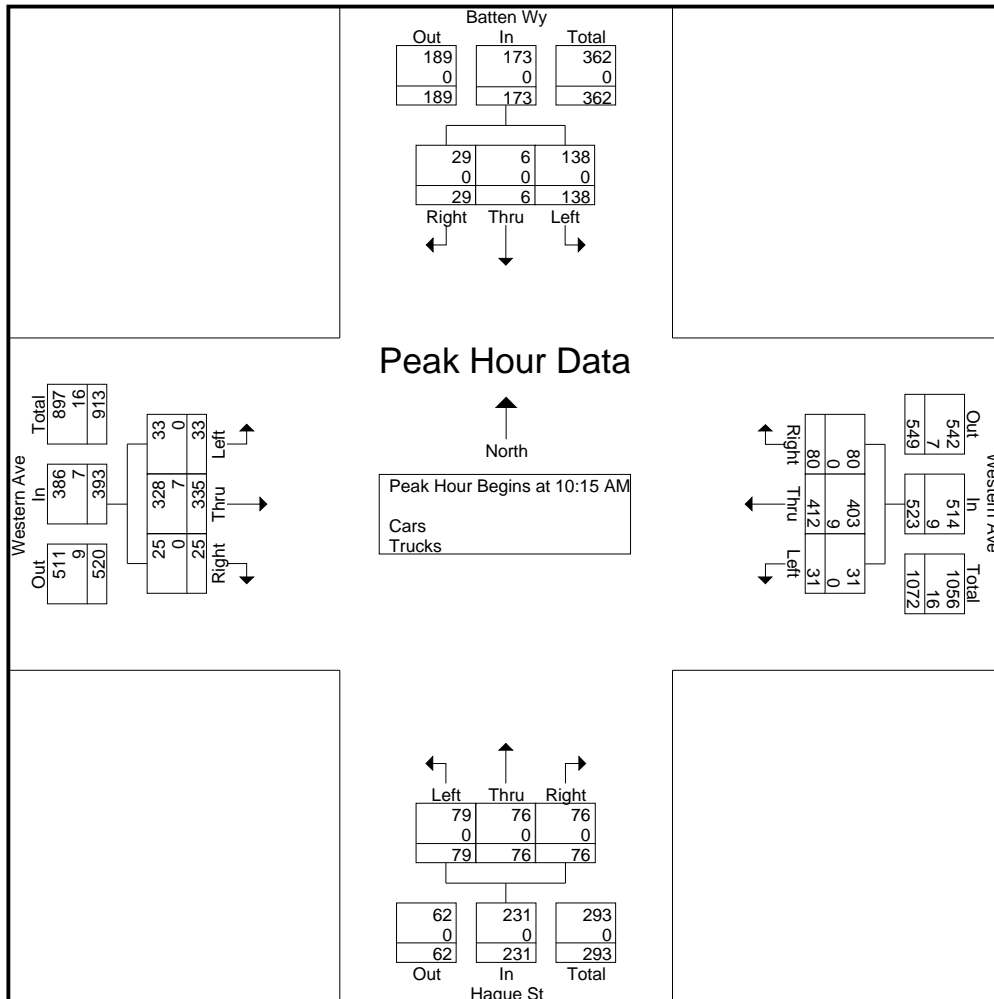
Accurate Counts

978-664-2565

N/S Street : Batten Way / Hague Street
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

File Name : 10463003
 Site Code : 10463003
 Start Date : 11/22/2014
 Page No : 2

Start Time	Batten Wy From North				Western Ave From East				Hague St From South				Western Ave From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 10:00 AM to 12:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 10:15 AM																	
10:15 AM	47	3	12	62	9	102	25	136	22	16	15	53	11	67	6	84	335
10:30 AM	36	0	4	40	8	109	26	143	15	20	14	49	10	81	5	96	328
10:45 AM	26	2	8	36	8	106	15	129	22	22	25	69	5	91	7	103	337
11:00 AM	29	1	5	35	6	95	14	115	20	18	22	60	7	96	7	110	320
Total Volume	138	6	29	173	31	412	80	523	79	76	76	231	33	335	25	393	1320
% App. Total	79.8	3.5	16.8		5.9	78.8	15.3		34.2	32.9	32.9		8.4	85.2	6.4		
PHF	.734	.500	.604	.698	.861	.945	.769	.914	.898	.864	.760	.837	.750	.872	.893	.893	.979
Cars	138	6	29	173	31	403	80	514	79	76	76	231	33	328	25	386	1304
% Cars	100	100	100	100	100	97.8	100	98.3	100	100	100	100	100	97.9	100	98.2	98.8
Trucks	0	0	0	0	0	9	0	9	0	0	0	0	0	7	0	7	16
% Trucks	0	0	0	0	0	2.2	0	1.7	0	0	0	0	0	2.1	0	1.8	1.2



Accurate Counts

978-664-2565

N/S Street : Batten Way / Hague Street
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

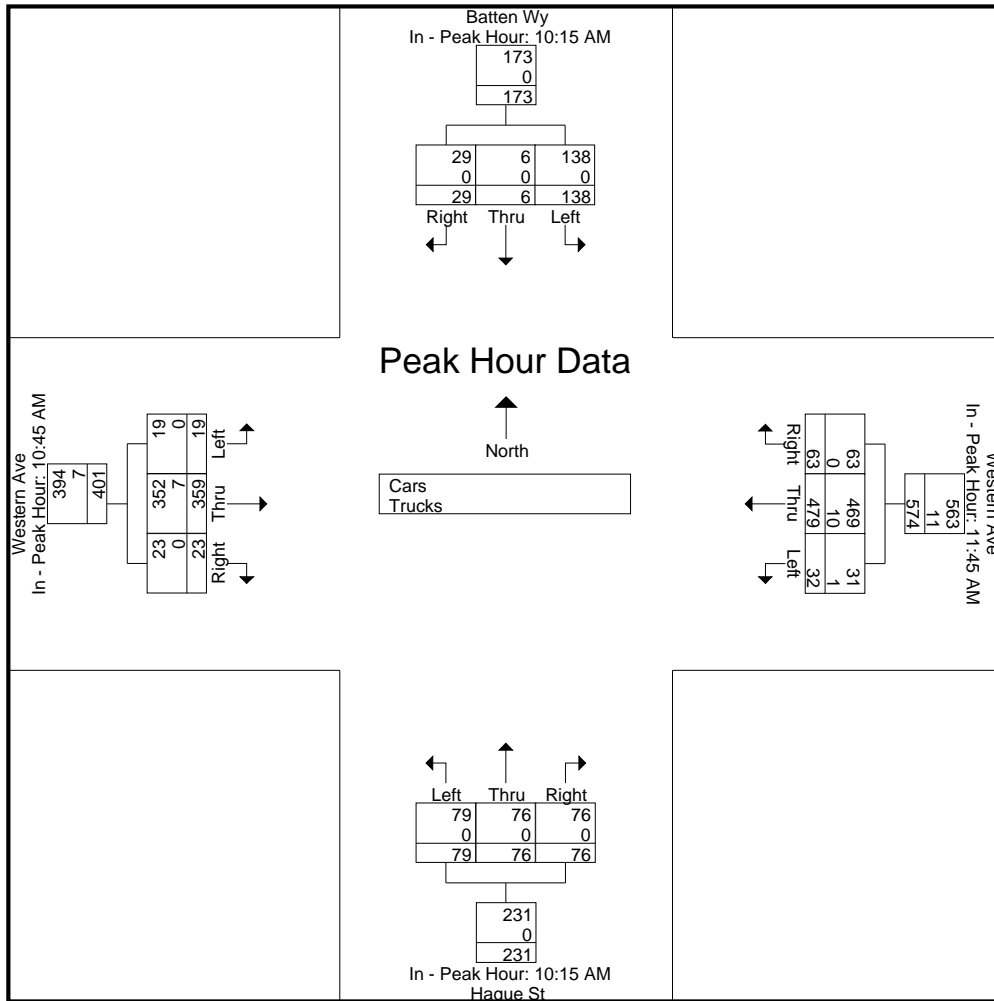
File Name : 10463003
 Site Code : 10463003
 Start Date : 11/22/2014
 Page No : 3

Start Time	Batten Wy From North				Western Ave From East				Hague St From South				Western Ave From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	

Peak Hour Analysis From 10:00 AM to 12:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	10:15 AM				11:45 AM				10:15 AM				10:45 AM			
+0 mins.	47	3	12	62	8	128	15	151	22	16	15	53	5	91	7	103
+15 mins.	36	0	4	40	11	128	16	155	15	20	14	49	7	96	7	110
+30 mins.	26	2	8	36	5	104	17	126	22	22	25	69	4	80	3	87
+45 mins.	29	1	5	35	8	119	15	142	20	18	22	60	3	92	6	101
Total Volume	138	6	29	173	32	479	63	574	79	76	76	231	19	359	23	401
% App. Total	79.8	3.5	16.8		5.6	83.4	11		34.2	32.9	32.9		4.7	89.5	5.7	
PHF	.734	.500	.604	.698	.727	.936	.926	.926	.898	.864	.760	.837	.679	.935	.821	.911
Cars	138	6	29	173	31	469	63	563	79	76	76	231	19	352	23	394
% Cars	100	100	100	100	96.9	97.9	100	98.1	100	100	100	100	100	98.1	100	98.3
Trucks	0	0	0	0	1	10	0	11	0	0	0	0	0	7	0	7
% Trucks	0	0	0	0	3.1	2.1	0	1.9	0	0	0	0	0	1.9	0	1.7



Accurate Counts

978-664-2565

N/S Street : Batten Way / Hague Street
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

File Name : 10463003
 Site Code : 10463003
 Start Date : 11/22/2014
 Page No : 4

Groups Printed- Cars

Start Time	Batten Wy From North			Western Ave From East			Hague St From South			Western Ave From West			Int. Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
10:00 AM	17	0	5	6	120	26	15	18	6	11	53	1	278
10:15 AM	47	3	12	9	101	25	22	16	15	11	64	6	331
10:30 AM	36	0	4	8	107	26	15	20	14	10	81	5	326
10:45 AM	26	2	8	8	102	15	22	22	25	5	90	7	332
Total	126	5	29	31	430	92	74	76	60	37	288	19	1267
11:00 AM	29	1	5	6	93	14	20	18	22	7	93	7	315
11:15 AM	25	2	10	15	101	14	14	7	31	4	78	3	304
11:30 AM	18	0	9	4	99	15	11	8	2	3	91	6	266
11:45 AM	25	1	10	7	124	15	12	3	13	5	83	4	302
Total	97	4	34	32	417	58	57	36	68	19	345	20	1187
12:00 PM	15	0	4	11	125	16	8	4	10	7	75	3	278
12:15 PM	21	3	7	5	104	17	11	7	12	8	71	0	266
12:30 PM	9	0	7	8	116	15	5	3	9	0	75	1	248
12:45 PM	7	0	3	8	111	9	2	5	7	1	65	4	222
Total	52	3	21	32	456	57	26	19	38	16	286	8	1014
Grand Total	275	12	84	95	1303	207	157	131	166	72	919	47	3468
Apprch %	74.1	3.2	22.6	5.9	81.2	12.9	34.6	28.9	36.6	6.9	88.5	4.5	
Total %	7.9	0.3	2.4	2.7	37.6	6	4.5	3.8	4.8	2.1	26.5	1.4	

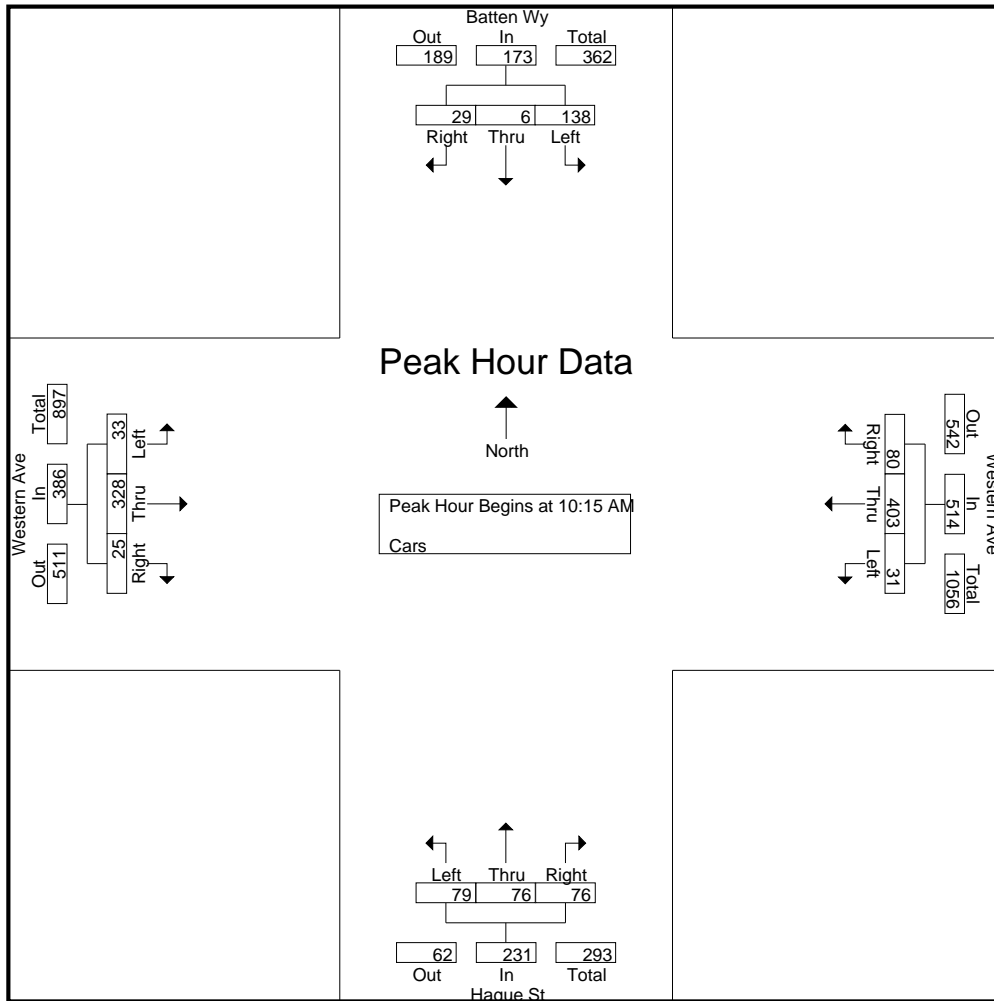
Accurate Counts

978-664-2565

N/S Street : Batten Way / Hague Street
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

File Name : 10463003
 Site Code : 10463003
 Start Date : 11/22/2014
 Page No : 5

Start Time	Batten Wy From North				Western Ave From East				Hague St From South				Western Ave From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 10:00 AM to 12:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 10:15 AM																	
10:15 AM	47	3	12	62	9	101	25	135	22	16	15	53	11	64	6	81	331
10:30 AM	36	0	4	40	8	107	26	141	15	20	14	49	10	81	5	96	326
10:45 AM	26	2	8	36	8	102	15	125	22	22	25	69	5	90	7	102	332
11:00 AM	29	1	5	35	6	93	14	113	20	18	22	60	7	93	7	107	315
Total Volume	138	6	29	173	31	403	80	514	79	76	76	231	33	328	25	386	1304
% App. Total	79.8	3.5	16.8		6	78.4	15.6		34.2	32.9	32.9		8.5	85	6.5		
PHF	.734	.500	.604	.698	.861	.942	.769	.911	.898	.864	.760	.837	.750	.882	.893	.902	.982



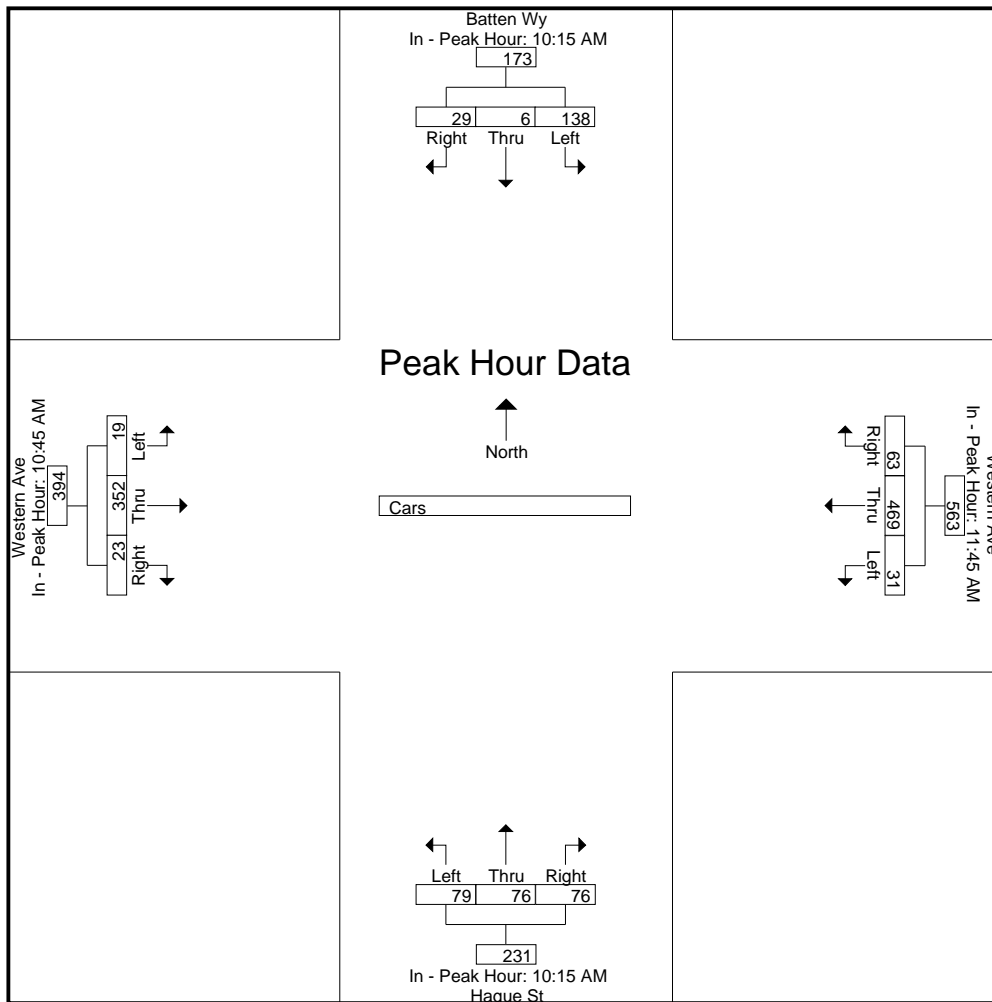
Accurate Counts

978-664-2565

N/S Street : Batten Way / Hague Street
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

File Name : 10463003
 Site Code : 10463003
 Start Date : 11/22/2014
 Page No : 6

Start Time	Batten Wy From North				Western Ave From East				Hague St From South				Western Ave From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 10:00 AM to 12:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	10:15 AM				11:45 AM				10:15 AM				10:45 AM				
+0 mins.	47	3	12	62	7	124	15	146	22	16	15	53	5	90	7	102	
+15 mins.	36	0	4	40	11	125	16	152	15	20	14	49	7	93	7	107	
+30 mins.	26	2	8	36	5	104	17	126	22	22	25	69	4	78	3	85	
+45 mins.	29	1	5	35	8	116	15	139	20	18	22	60	3	91	6	100	
Total Volume	138	6	29	173	31	469	63	563	79	76	76	231	19	352	23	394	
% App. Total	79.8	3.5	16.8		5.5	83.3	11.2		34.2	32.9	32.9		4.8	89.3	5.8		
PHF	.734	.500	.604	.698	.705	.938	.926	.926	.898	.864	.760	.837	.679	.946	.821	.921	



Accurate Counts

978-664-2565

N/S Street : Batten Way / Hague Street
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

File Name : 10463003
 Site Code : 10463003
 Start Date : 11/22/2014
 Page No : 7

Groups Printed- Trucks

Start Time	Batten Wy From North			Western Ave From East			Hague St From South			Western Ave From West			Int. Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
10:00 AM	0	0	0	0	1	0	0	0	1	0	3	0	5
10:15 AM	0	0	0	0	1	0	0	0	0	0	3	0	4
10:30 AM	0	0	0	0	2	0	0	0	0	0	0	0	2
10:45 AM	0	0	0	0	4	0	0	0	0	0	1	0	5
Total	0	0	0	0	8	0	0	0	1	0	7	0	16
11:00 AM	0	0	0	0	2	0	0	0	0	0	3	0	5
11:15 AM	0	0	0	0	3	0	0	0	0	0	2	0	5
11:30 AM	0	0	0	0	3	0	0	0	1	0	1	0	5
11:45 AM	0	0	0	1	4	0	0	0	0	1	3	0	9
Total	0	0	0	1	12	0	0	0	1	1	9	0	24
12:00 PM	0	0	0	0	3	0	0	0	0	0	1	0	4
12:15 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
12:30 PM	0	0	0	0	3	0	0	0	0	0	4	0	7
12:45 PM	0	0	0	0	3	0	4	0	0	0	2	0	9
Total	0	0	0	0	9	0	4	0	0	0	8	0	21
Grand Total	0	0	0	1	29	0	4	0	2	1	24	0	61
Apprch %	0	0	0	3.3	96.7	0	66.7	0	33.3	4	96	0	
Total %	0	0	0	1.6	47.5	0	6.6	0	3.3	1.6	39.3	0	

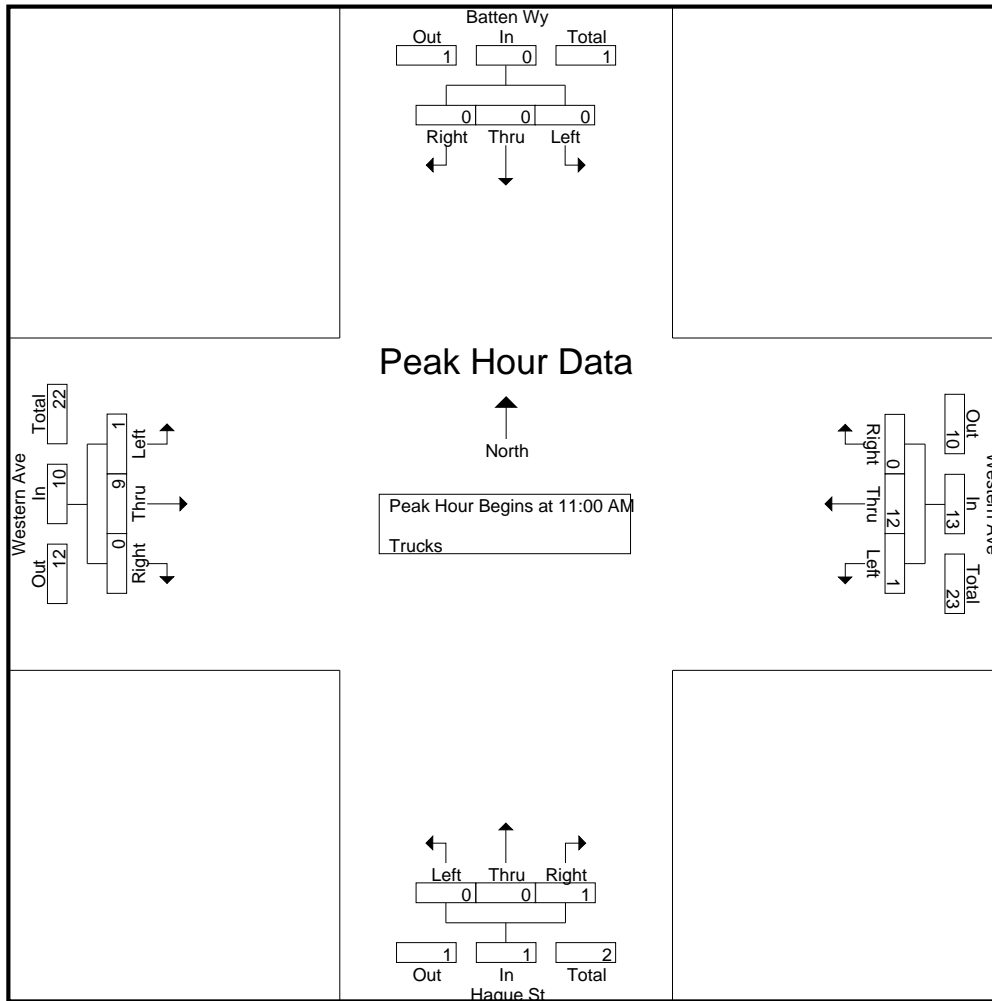
Accurate Counts

978-664-2565

N/S Street : Batten Way / Hague Street
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

File Name : 10463003
 Site Code : 10463003
 Start Date : 11/22/2014
 Page No : 8

Start Time	Batten Wy From North				Western Ave From East				Hague St From South				Western Ave From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 10:00 AM to 12:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 11:00 AM																	
11:00 AM	0	0	0	0	0	2	0	2	0	0	0	0	0	3	0	3	5
11:15 AM	0	0	0	0	0	3	0	3	0	0	0	0	0	2	0	2	5
11:30 AM	0	0	0	0	0	3	0	3	0	0	1	1	0	1	0	1	5
11:45 AM	0	0	0	0	1	4	0	5	0	0	0	0	1	3	0	4	9
Total Volume	0	0	0	0	1	12	0	13	0	0	1	1	1	9	0	10	24
% App. Total	0	0	0		7.7	92.3	0		0	0	100		10	90	0		
PHF	.000	.000	.000	.000	.250	.750	.000	.650	.000	.000	.250	.250	.250	.750	.000	.625	.667



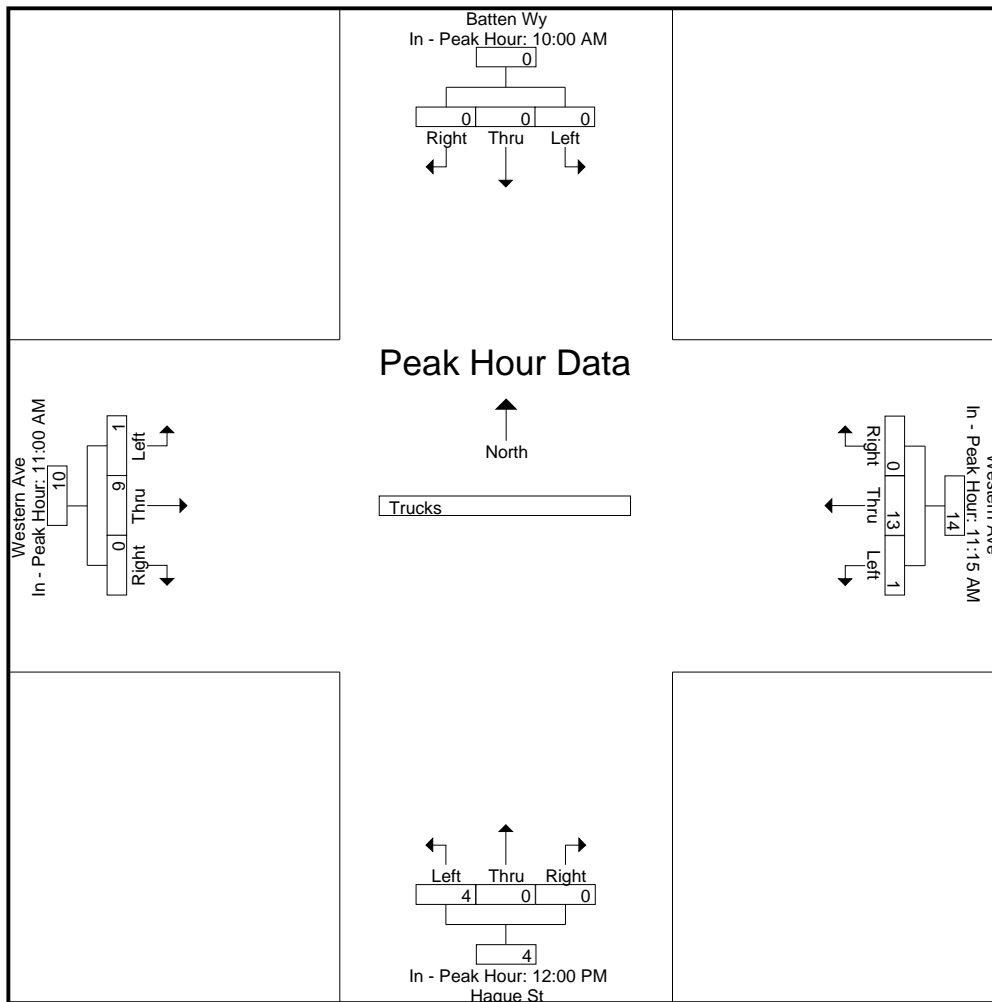
Accurate Counts

978-664-2565

N/S Street : Batten Way / Hague Street
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

File Name : 10463003
 Site Code : 10463003
 Start Date : 11/22/2014
 Page No : 9

Start Time	Batten Wy From North				Western Ave From East				Hague St From South				Western Ave From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 10:00 AM to 12:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	10:00 AM				11:15 AM				12:00 PM				11:00 AM				
+0 mins.	0	0	0	0	0	3	0	3	0	0	0	0	0	3	0	3	
+15 mins.	0	0	0	0	0	3	0	3	0	0	0	0	0	2	0	2	
+30 mins.	0	0	0	0	1	4	0	5	0	0	0	0	0	1	0	1	
+45 mins.	0	0	0	0	0	3	0	3	4	0	0	4	1	3	0	4	
Total Volume	0	0	0	0	1	13	0	14	4	0	0	4	1	9	0	10	
% App. Total	0	0	0		7.1	92.9	0		100	0	0		10	90	0		
PHF	.000	.000	.000	.000	.250	.813	.000	.700	.250	.000	.000	.250	.250	.750	.000	.625	



Accurate Counts

978-664-2565

N/S Street : Batten Way / Hague Street
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

File Name : 10463003
 Site Code : 10463003
 Start Date : 11/22/2014
 Page No : 10

Groups Printed- Bikes Peds

Start Time	Batten Wy From North				Western Ave From East				Hague St From South				Western Ave From West				Exclu. Total	Inclu. Total	Int. Total
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds			
10:00 AM	0	0	0	11	0	1	0	0	0	0	1	1	0	1	0	0	12	3	15
10:15 AM	0	0	0	6	0	2	0	3	0	0	0	4	1	2	0	2	15	5	20
10:30 AM	0	0	0	14	0	1	1	0	0	0	0	4	0	3	0	2	20	5	25
10:45 AM	0	0	0	7	0	2	0	1	0	0	0	4	0	1	0	2	14	3	17
Total	0	0	0	38	0	6	1	4	0	0	1	13	1	7	0	6	61	16	77
11:00 AM	0	1	0	0	0	0	0	0	0	0	0	5	0	2	0	11	16	3	19
11:15 AM	0	0	0	5	0	3	0	5	0	0	0	8	0	1	0	1	19	4	23
11:30 AM	0	0	0	1	0	1	0	0	0	0	1	0	0	6	0	0	1	8	9
11:45 AM	0	0	0	3	0	2	0	2	0	0	0	3	0	2	0	5	13	4	17
Total	0	1	0	9	0	6	0	7	0	0	1	16	0	11	0	17	49	19	68
12:00 PM	1	0	0	4	0	6	0	2	0	0	1	3	0	2	0	7	16	10	26
12:15 PM	0	0	0	3	0	3	0	0	0	0	1	3	0	1	0	5	11	5	16
12:30 PM	1	0	0	5	0	1	1	0	0	0	0	1	0	1	0	3	9	4	13
12:45 PM	1	0	0	2	0	3	2	0	0	0	1	2	0	4	0	9	13	11	24
Total	3	0	0	14	0	13	3	2	0	0	3	9	0	8	0	24	49	30	79
Grand Total	3	1	0	61	0	25	4	13	0	0	5	38	1	26	0	47	159	65	224
Apprch %	75	25	0		0	86.2	13.8		0	0	100		3.7	96.3	0				
Total %	4.6	1.5	0		0	38.5	6.2		0	0	7.7		1.5	40	0		71	29	

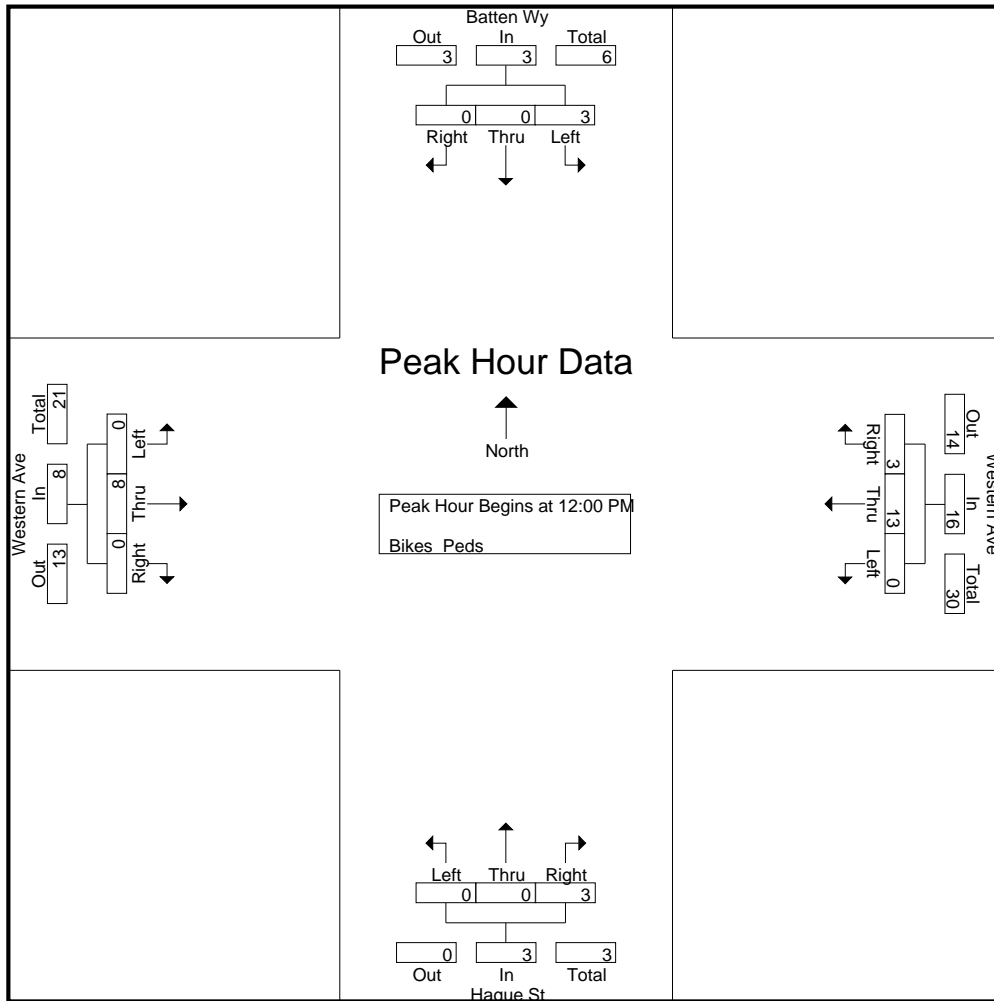
Accurate Counts

978-664-2565

N/S Street : Batten Way / Hague Street
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

File Name : 10463003
 Site Code : 10463003
 Start Date : 11/22/2014
 Page No : 11

Start Time	Batten Wy From North				Western Ave From East				Hague St From South				Western Ave From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 10:00 AM to 12:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 12:00 PM																	
12:00 PM	1	0	0	1	0	6	0	6	0	0	1	1	0	2	0	2	10
12:15 PM	0	0	0	0	0	3	0	3	0	0	1	1	0	1	0	1	5
12:30 PM	1	0	0	1	0	1	1	2	0	0	0	0	0	1	0	1	4
12:45 PM	1	0	0	1	0	3	2	5	0	0	1	1	0	4	0	4	11
Total Volume	3	0	0	3	0	13	3	16	0	0	3	3	0	8	0	8	30
% App. Total	100	0	0		0	81.2	18.8		0	0	100		0	100	0		
PHF	.750	.000	.000	.750	.000	.542	.375	.667	.000	.000	.750	.750	.000	.500	.000	.500	.682



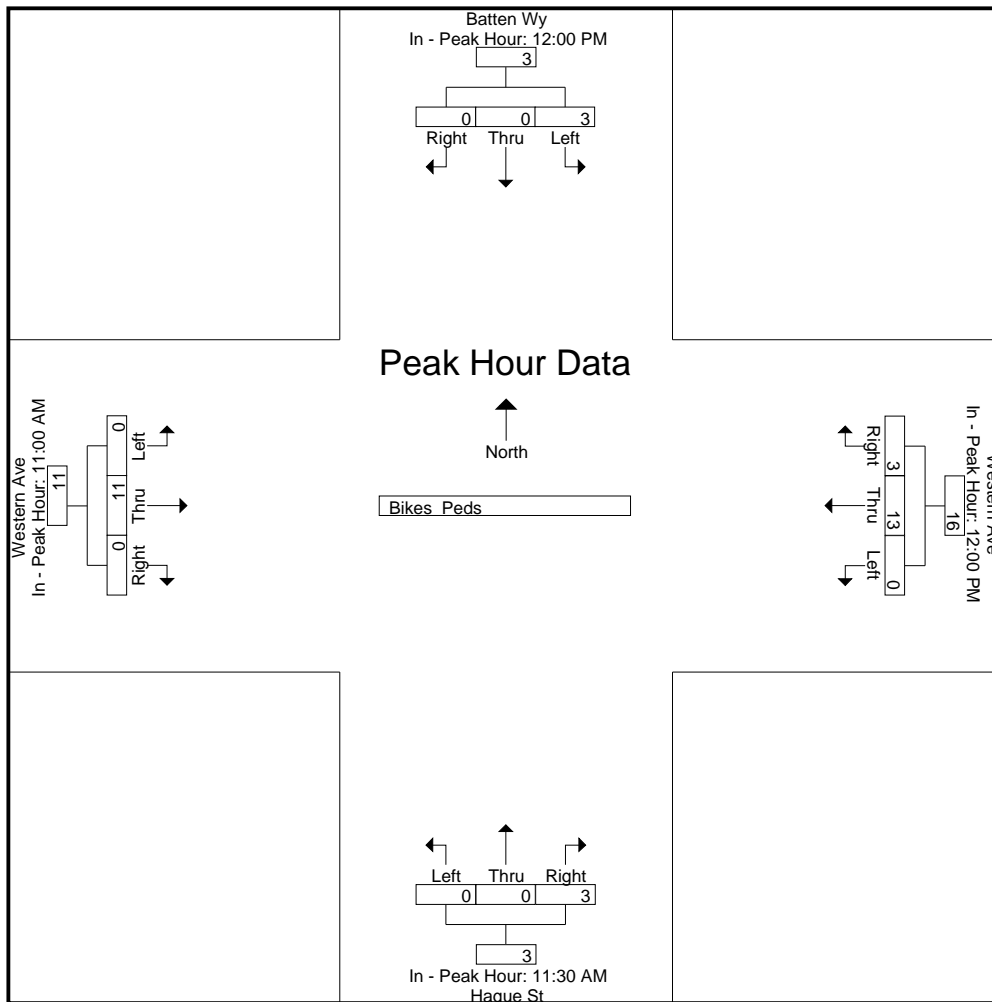
Accurate Counts

978-664-2565

N/S Street : Batten Way / Hague Street
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

File Name : 10463003
 Site Code : 10463003
 Start Date : 11/22/2014
 Page No : 12

Start Time	Batten Wy From North				Western Ave From East				Hague St From South				Western Ave From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 10:00 AM to 12:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	12:00 PM				12:00 PM				11:30 AM				11:00 AM				
+0 mins.	1	0	0	1	0	6	0	6	0	0	1	1	0	2	0	2	
+15 mins.	0	0	0	0	0	3	0	3	0	0	0	0	0	1	0	1	
+30 mins.	1	0	0	1	0	1	1	2	0	0	1	1	0	6	0	6	
+45 mins.	1	0	0	1	0	3	2	5	0	0	1	1	0	2	0	2	
Total Volume	3	0	0	3	0	13	3	16	0	0	3	3	0	11	0	11	
% App. Total	100	0	0		0	81.2	18.8		0	0	100		0	100	0		
PHF	.750	.000	.000	.750	.000	.542	.375	.667	.000	.000	.750	.750	.000	.458	.000	.458	



Accurate Counts

978-664-2565

N/S Street : East Dr / Private Dr
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

File Name : 10463004
 Site Code : 10463004
 Start Date : 11/22/2014
 Page No : 1

Groups Printed- Cars - Trucks

Start Time	East Dr From North			Western Ave From East			Private Dr From South			Western Ave From West			Int. Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
10:00 AM	0	0	0	5	149	42	2	0	2	18	71	4	293
10:15 AM	0	0	0	3	138	47	4	0	1	45	91	8	337
10:30 AM	0	0	0	3	120	45	2	1	3	52	84	5	315
10:45 AM	0	0	0	1	122	42	0	0	1	44	104	7	321
Total	0	0	0	12	529	176	8	1	7	159	350	24	1266
11:00 AM	0	0	0	1	126	42	2	0	5	44	111	0	331
11:15 AM	0	0	0	2	103	50	5	0	5	42	94	2	303
11:30 AM	0	0	0	3	104	47	1	0	5	32	91	2	285
11:45 AM	0	0	0	2	141	43	4	0	3	24	106	3	326
Total	0	0	0	8	474	182	12	0	18	142	402	7	1245
12:00 PM	0	0	0	3	134	32	4	0	2	14	98	3	290
12:15 PM	0	0	0	3	116	18	3	0	2	12	99	2	255
12:30 PM	0	0	0	1	119	17	5	0	1	5	95	5	248
12:45 PM	0	0	0	2	85	4	4	0	2	4	76	3	180
Total	0	0	0	9	454	71	16	0	7	35	368	13	973
Grand Total	0	0	0	29	1457	429	36	1	32	336	1120	44	3484
Apprch %	0	0	0	1.5	76.1	22.4	52.2	1.4	46.4	22.4	74.7	2.9	
Total %	0	0	0	0.8	41.8	12.3	1	0	0.9	9.6	32.1	1.3	
Cars	0	0	0	28	1426	429	36	1	28	335	1094	44	3421
% Cars	0	0	0	96.6	97.9	100	100	100	87.5	99.7	97.7	100	98.2
Trucks	0	0	0	1	31	0	0	0	4	1	26	0	63
% Trucks	0	0	0	3.4	2.1	0	0	0	12.5	0.3	2.3	0	1.8

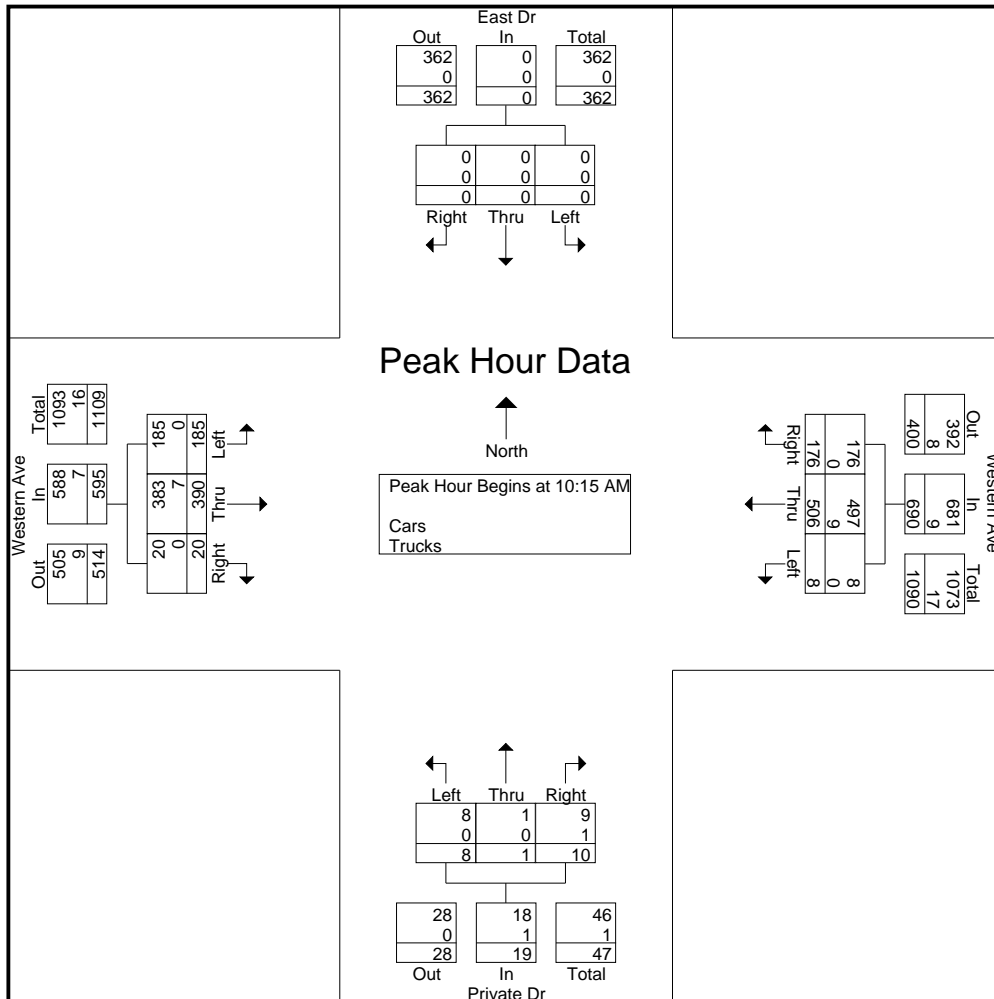
Accurate Counts

978-664-2565

N/S Street : East Dr / Private Dr
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

File Name : 10463004
 Site Code : 10463004
 Start Date : 11/22/2014
 Page No : 2

Start Time	East Dr From North				Western Ave From East				Private Dr From South				Western Ave From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 10:00 AM to 12:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 10:15 AM																	
10:15 AM	0	0	0	0	3	138	47	188	4	0	1	5	45	91	8	144	337
10:30 AM	0	0	0	0	3	120	45	168	2	1	3	6	52	84	5	141	315
10:45 AM	0	0	0	0	1	122	42	165	0	0	1	1	44	104	7	155	321
11:00 AM	0	0	0	0	1	126	42	169	2	0	5	7	44	111	0	155	331
Total Volume	0	0	0	0	8	506	176	690	8	1	10	19	185	390	20	595	1304
% App. Total	0	0	0		1.2	73.3	25.5		42.1	5.3	52.6		31.1	65.5	3.4		
PHF	.000	.000	.000	.000	.667	.917	.936	.918	.500	.250	.500	.679	.889	.878	.625	.960	.967
Cars	0	0	0	0	8	497	176	681	8	1	9	18	185	383	20	588	1287
% Cars	0	0	0	0	100	98.2	100	98.7	100	100	90.0	94.7	100	98.2	100	98.8	98.7
Trucks	0	0	0	0	0	9	0	9	0	0	1	1	0	7	0	7	17
% Trucks	0	0	0	0	0	1.8	0	1.3	0	0	10.0	5.3	0	1.8	0	1.2	1.3



Accurate Counts

978-664-2565

N/S Street : East Dr / Private Dr
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

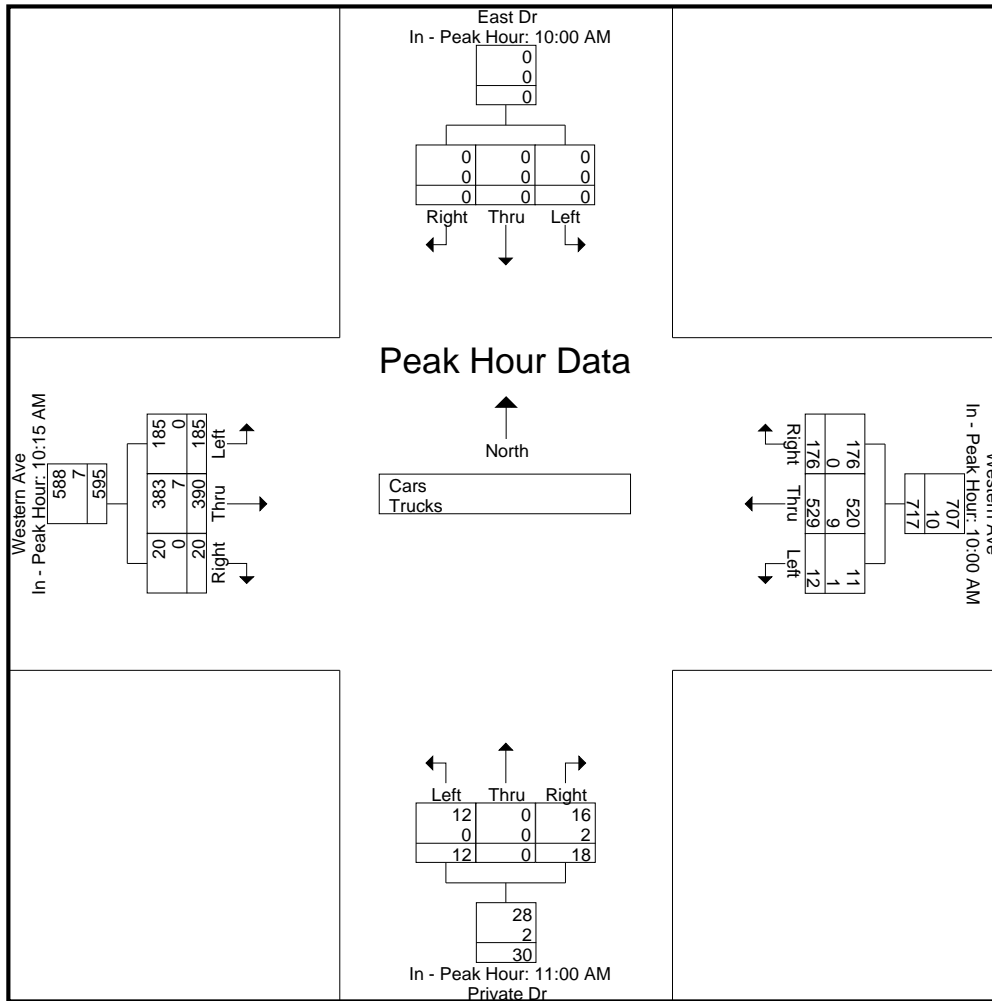
File Name : 10463004
 Site Code : 10463004
 Start Date : 11/22/2014
 Page No : 3

	East Dr From North				Western Ave From East				Private Dr From South				Western Ave From West				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total

Peak Hour Analysis From 10:00 AM to 12:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	10:00 AM				10:00 AM				11:00 AM				10:15 AM			
+0 mins.	0	0	0	0	5	149	42	196	2	0	5	7	45	91	8	144
+15 mins.	0	0	0	0	3	138	47	188	5	0	5	10	52	84	5	141
+30 mins.	0	0	0	0	3	120	45	168	1	0	5	6	44	104	7	155
+45 mins.	0	0	0	0	1	122	42	165	4	0	3	7	44	111	0	155
Total Volume	0	0	0	0	12	529	176	717	12	0	18	30	185	390	20	595
% App. Total	0	0	0		1.7	73.8	24.5		40	0	60		31.1	65.5	3.4	
PHF	.000	.000	.000	.000	.600	.888	.936	.915	.600	.000	.900	.750	.889	.878	.625	.960
Cars	0	0	0	0	11	520	176	707	12	0	16	28	185	383	20	588
% Cars	0	0	0	0	91.7	98.3	100	98.6	100	0	88.9	93.3	100	98.2	100	98.8
Trucks	0	0	0	0	1	9	0	10	0	0	2	2	0	7	0	7
% Trucks	0	0	0	0	8.3	1.7	0	1.4	0	0	11.1	6.7	0	1.8	0	1.2



Accurate Counts

978-664-2565

N/S Street : East Dr / Private Dr
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

File Name : 10463004
 Site Code : 10463004
 Start Date : 11/22/2014
 Page No : 4

Groups Printed- Cars

Start Time	East Dr From North			Western Ave From East			Private Dr From South			Western Ave From West			Int. Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
10:00 AM	0	0	0	4	148	42	2	0	2	18	67	4	287
10:15 AM	0	0	0	3	137	47	4	0	0	45	88	8	332
10:30 AM	0	0	0	3	118	45	2	1	3	52	84	5	313
10:45 AM	0	0	0	1	117	42	0	0	1	44	103	7	315
Total	0	0	0	11	520	176	8	1	6	159	342	24	1247
11:00 AM	0	0	0	1	125	42	2	0	5	44	108	0	327
11:15 AM	0	0	0	2	100	50	5	0	3	42	92	2	296
11:30 AM	0	0	0	3	100	47	1	0	5	31	90	2	279
11:45 AM	0	0	0	2	135	43	4	0	3	24	102	3	316
Total	0	0	0	8	460	182	12	0	16	141	392	7	1218
12:00 PM	0	0	0	3	132	32	4	0	1	14	97	3	286
12:15 PM	0	0	0	3	115	18	3	0	2	12	98	2	253
12:30 PM	0	0	0	1	117	17	5	0	1	5	91	5	242
12:45 PM	0	0	0	2	82	4	4	0	2	4	74	3	175
Total	0	0	0	9	446	71	16	0	6	35	360	13	956
Grand Total	0	0	0	28	1426	429	36	1	28	335	1094	44	3421
Apprch %	0	0	0	1.5	75.7	22.8	55.4	1.5	43.1	22.7	74.3	3	
Total %	0	0	0	0.8	41.7	12.5	1.1	0	0.8	9.8	32	1.3	

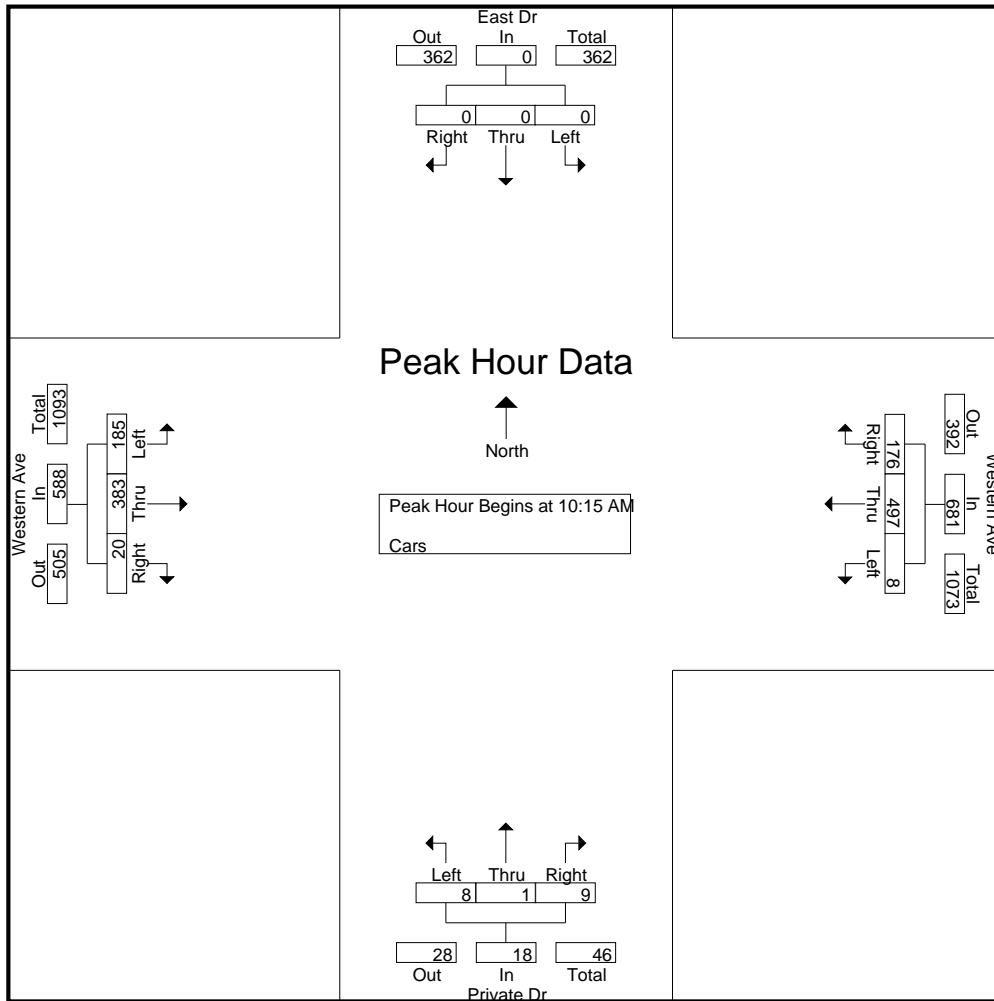
Accurate Counts

978-664-2565

N/S Street : East Dr / Private Dr
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

File Name : 10463004
 Site Code : 10463004
 Start Date : 11/22/2014
 Page No : 5

Start Time	East Dr From North				Western Ave From East				Private Dr From South				Western Ave From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 10:00 AM to 12:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 10:15 AM																	
10:15 AM	0	0	0	0	3	137	47	187	4	0	0	4	45	88	8	141	332
10:30 AM	0	0	0	0	3	118	45	166	2	1	3	6	52	84	5	141	313
10:45 AM	0	0	0	0	1	117	42	160	0	0	1	1	44	103	7	154	315
11:00 AM	0	0	0	0	1	125	42	168	2	0	5	7	44	108	0	152	327
Total Volume	0	0	0	0	8	497	176	681	8	1	9	18	185	383	20	588	1287
% App. Total	0	0	0		1.2	73	25.8		44.4	5.6	50		31.5	65.1	3.4		
PHF	.000	.000	.000	.000	.667	.907	.936	.910	.500	.250	.450	.643	.889	.887	.625	.955	.969



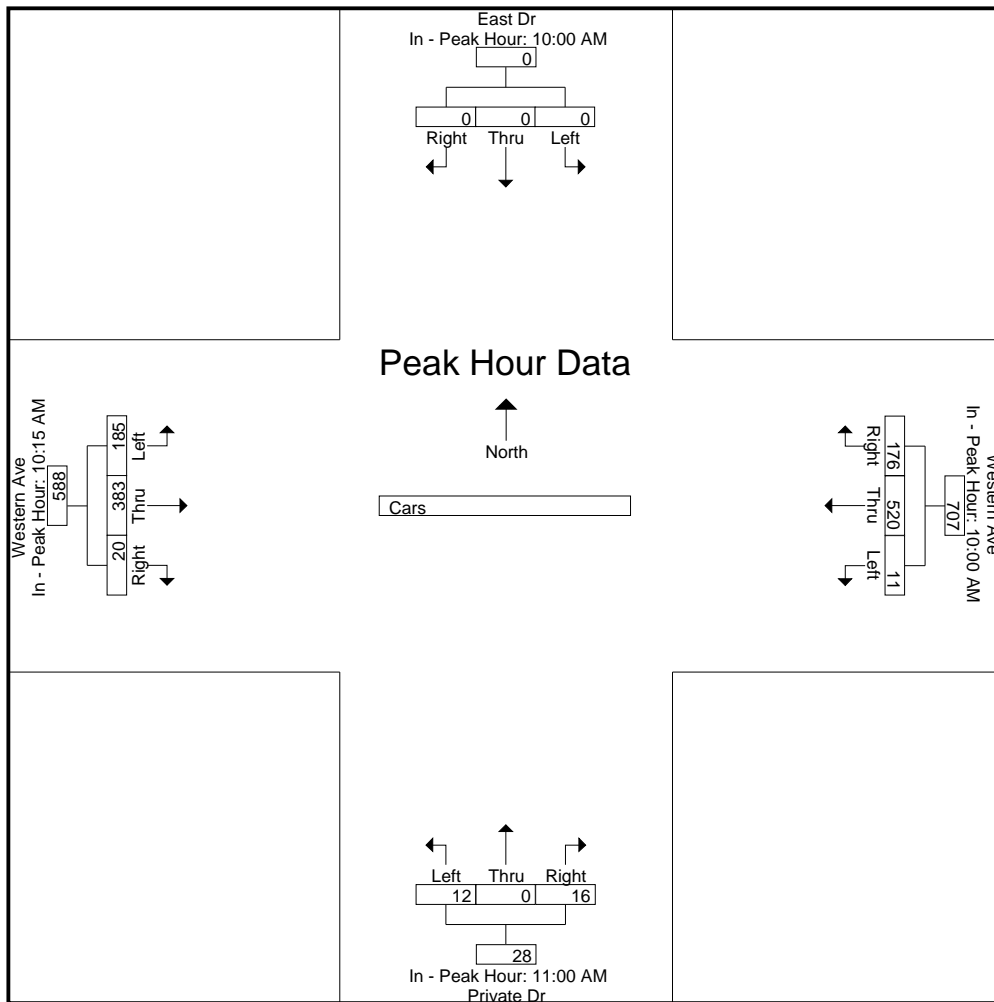
Accurate Counts

978-664-2565

N/S Street : East Dr / Private Dr
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

File Name : 10463004
 Site Code : 10463004
 Start Date : 11/22/2014
 Page No : 6

Start Time	East Dr From North				Western Ave From East				Private Dr From South				Western Ave From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 10:00 AM to 12:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	10:00 AM				10:00 AM				11:00 AM				10:15 AM				
+0 mins.	0	0	0	0	4	148	42	194	2	0	5	7	45	88	8	141	
+15 mins.	0	0	0	0	3	137	47	187	5	0	3	8	52	84	5	141	
+30 mins.	0	0	0	0	3	118	45	166	1	0	5	6	44	103	7	154	
+45 mins.	0	0	0	0	1	117	42	160	4	0	3	7	44	108	0	152	
Total Volume	0	0	0	0	11	520	176	707	12	0	16	28	185	383	20	588	
% App. Total	0	0	0		1.6	73.6	24.9		42.9	0	57.1		31.5	65.1	3.4		
PHF	.000	.000	.000	.000	.688	.878	.936	.911	.600	.000	.800	.875	.889	.887	.625	.955	



Accurate Counts

978-664-2565

N/S Street : East Dr / Private Dr
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

File Name : 10463004
 Site Code : 10463004
 Start Date : 11/22/2014
 Page No : 7

Groups Printed- Trucks

Start Time	East Dr From North			Western Ave From East			Private Dr From South			Western Ave From West			Int. Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
10:00 AM	0	0	0	1	1	0	0	0	0	0	4	0	6
10:15 AM	0	0	0	0	1	0	0	0	1	0	3	0	5
10:30 AM	0	0	0	0	2	0	0	0	0	0	0	0	2
10:45 AM	0	0	0	0	5	0	0	0	0	0	1	0	6
Total	0	0	0	1	9	0	0	0	1	0	8	0	19
11:00 AM	0	0	0	0	1	0	0	0	0	0	3	0	4
11:15 AM	0	0	0	0	3	0	0	0	2	0	2	0	7
11:30 AM	0	0	0	0	4	0	0	0	0	1	1	0	6
11:45 AM	0	0	0	0	6	0	0	0	0	0	4	0	10
Total	0	0	0	0	14	0	0	0	2	1	10	0	27
12:00 PM	0	0	0	0	2	0	0	0	1	0	1	0	4
12:15 PM	0	0	0	0	1	0	0	0	0	0	1	0	2
12:30 PM	0	0	0	0	2	0	0	0	0	0	4	0	6
12:45 PM	0	0	0	0	3	0	0	0	0	0	2	0	5
Total	0	0	0	0	8	0	0	0	1	0	8	0	17
Grand Total	0	0	0	1	31	0	0	0	4	1	26	0	63
Apprch %	0	0	0	3.1	96.9	0	0	0	100	3.7	96.3	0	
Total %	0	0	0	1.6	49.2	0	0	0	6.3	1.6	41.3	0	

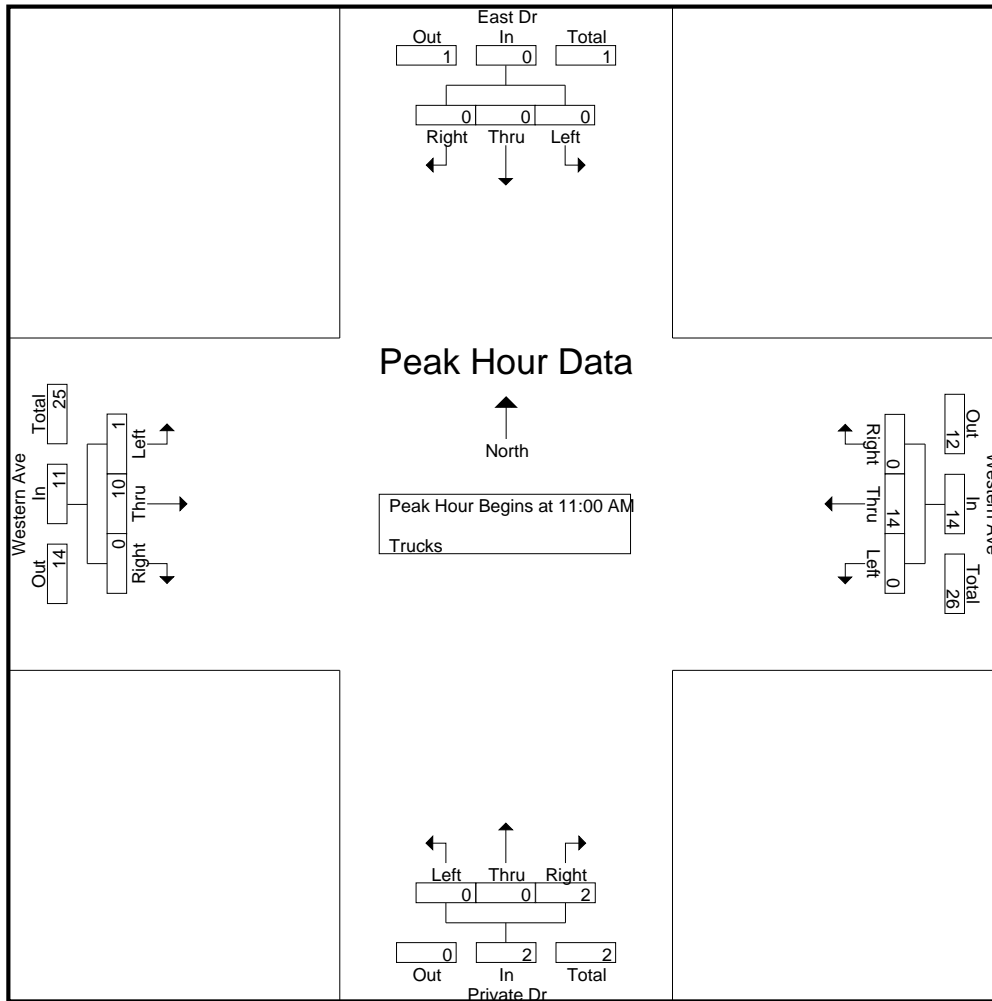
Accurate Counts

978-664-2565

N/S Street : East Dr / Private Dr
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

File Name : 10463004
 Site Code : 10463004
 Start Date : 11/22/2014
 Page No : 8

Start Time	East Dr From North				Western Ave From East				Private Dr From South				Western Ave From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 10:00 AM to 12:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 11:00 AM																	
11:00 AM	0	0	0	0	0	1	0	1	0	0	0	0	0	3	0	3	4
11:15 AM	0	0	0	0	0	3	0	3	0	0	2	2	0	2	0	2	7
11:30 AM	0	0	0	0	0	4	0	4	0	0	0	0	1	1	0	2	6
11:45 AM	0	0	0	0	0	6	0	6	0	0	0	0	0	4	0	4	10
Total Volume	0	0	0	0	0	14	0	14	0	0	2	2	1	10	0	11	27
% App. Total	0	0	0		0	100	0		0	0	100		9.1	90.9	0		
PHF	.000	.000	.000	.000	.000	.583	.000	.583	.000	.000	.250	.250	.250	.625	.000	.688	.675



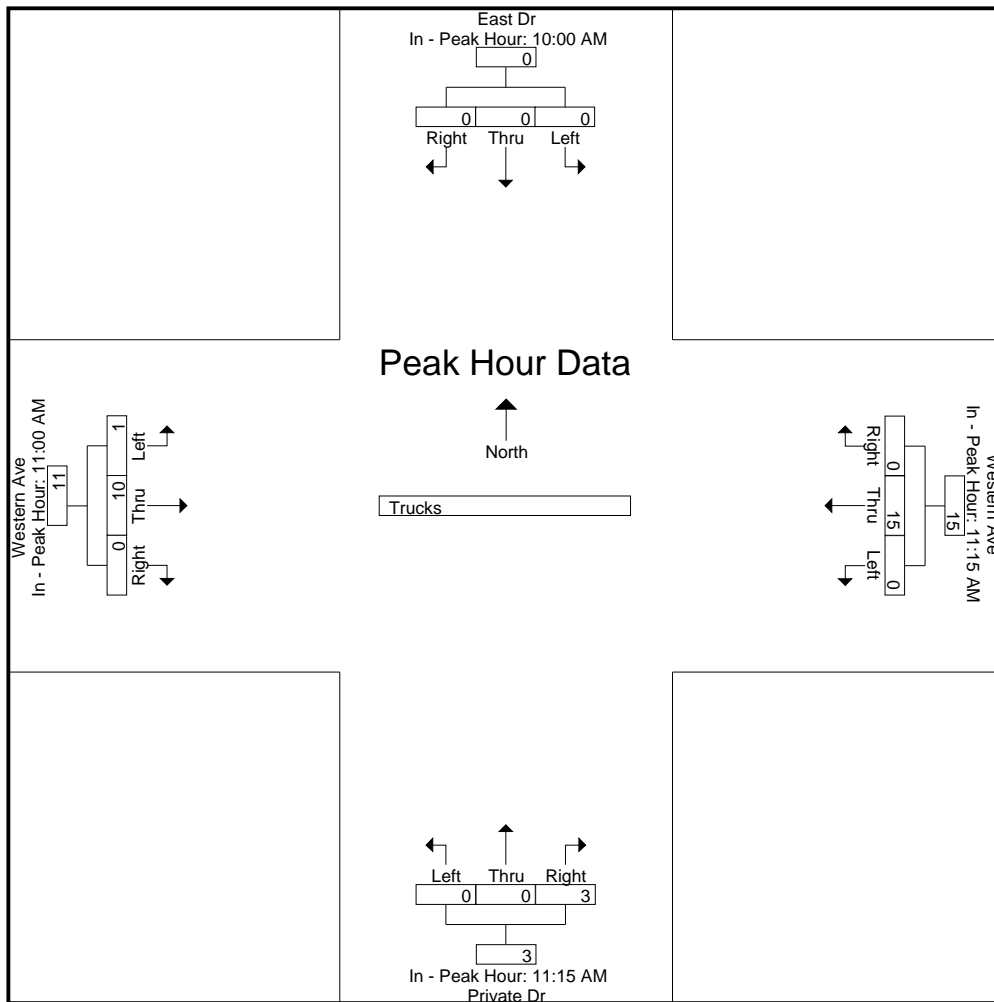
Accurate Counts

978-664-2565

N/S Street : East Dr / Private Dr
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

File Name : 10463004
 Site Code : 10463004
 Start Date : 11/22/2014
 Page No : 9

Start Time	East Dr From North				Western Ave From East				Private Dr From South				Western Ave From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 10:00 AM to 12:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	10:00 AM				11:15 AM				11:15 AM				11:00 AM				
+0 mins.	0	0	0	0	0	3	0	3	0	0	2	2	0	3	0	3	
+15 mins.	0	0	0	0	0	4	0	4	0	0	0	0	0	2	0	2	
+30 mins.	0	0	0	0	0	6	0	6	0	0	0	0	1	1	0	2	
+45 mins.	0	0	0	0	0	2	0	2	0	0	1	1	0	4	0	4	
Total Volume	0	0	0	0	0	15	0	15	0	0	3	3	1	10	0	11	
% App. Total	0	0	0		0	100	0		0	0	100		9.1	90.9	0		
PHF	.000	.000	.000	.000	.000	.625	.000	.625	.000	.000	.375	.375	.250	.625	.000	.688	



Accurate Counts

978-664-2565

N/S Street : East Dr / Private Dr
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

File Name : 10463004
 Site Code : 10463004
 Start Date : 11/22/2014
 Page No : 10

Groups Printed- Bikes Peds

Start Time	East Dr From North				Western Ave From East				Private Dr From South				Western Ave From West				Exclu. Total	Inclu. Total	Int. Total
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds			
10:00 AM	0	0	0	11	0	1	0	3	0	0	0	3	0	1	0	2	19	2	21
10:15 AM	0	0	0	9	0	1	0	17	0	0	0	8	0	2	0	14	48	3	51
10:30 AM	0	0	0	16	0	8	0	4	3	0	0	6	0	2	0	7	33	13	46
10:45 AM	0	0	0	30	0	4	0	3	1	0	0	5	1	1	0	3	41	7	48
Total	0	0	0	66	0	14	0	27	4	0	0	22	1	6	0	26	141	25	166
11:00 AM	1	0	0	9	0	4	0	8	0	0	0	2	0	1	0	0	19	6	25
11:15 AM	0	0	0	46	0	8	0	0	0	0	0	5	0	1	0	0	51	9	60
11:30 AM	0	0	0	18	0	2	1	6	0	0	0	4	0	3	0	7	35	6	41
11:45 AM	0	0	0	15	0	2	1	6	0	0	0	8	0	1	0	10	39	4	43
Total	1	0	0	88	0	16	2	20	0	0	0	19	0	6	0	17	144	25	169
12:00 PM	0	0	0	7	0	3	3	1	0	0	0	1	0	1	0	3	12	7	19
12:15 PM	0	0	0	8	0	4	2	13	0	0	0	1	0	2	0	0	22	8	30
12:30 PM	0	0	0	7	0	3	0	0	0	0	0	2	0	2	0	0	9	5	14
12:45 PM	0	0	0	2	0	5	1	0	0	0	0	1	0	3	1	1	4	10	14
Total	0	0	0	24	0	15	6	14	0	0	0	5	0	8	1	4	47	30	77
Grand Total	1	0	0	178	0	45	8	61	4	0	0	46	1	20	1	47	332	80	412
Apprch %	100	0	0		0	84.9	15.1		100	0	0		4.5	90.9	4.5				
Total %	1.2	0	0		0	56.2	10		5	0	0		1.2	25	1.2		80.6	19.4	

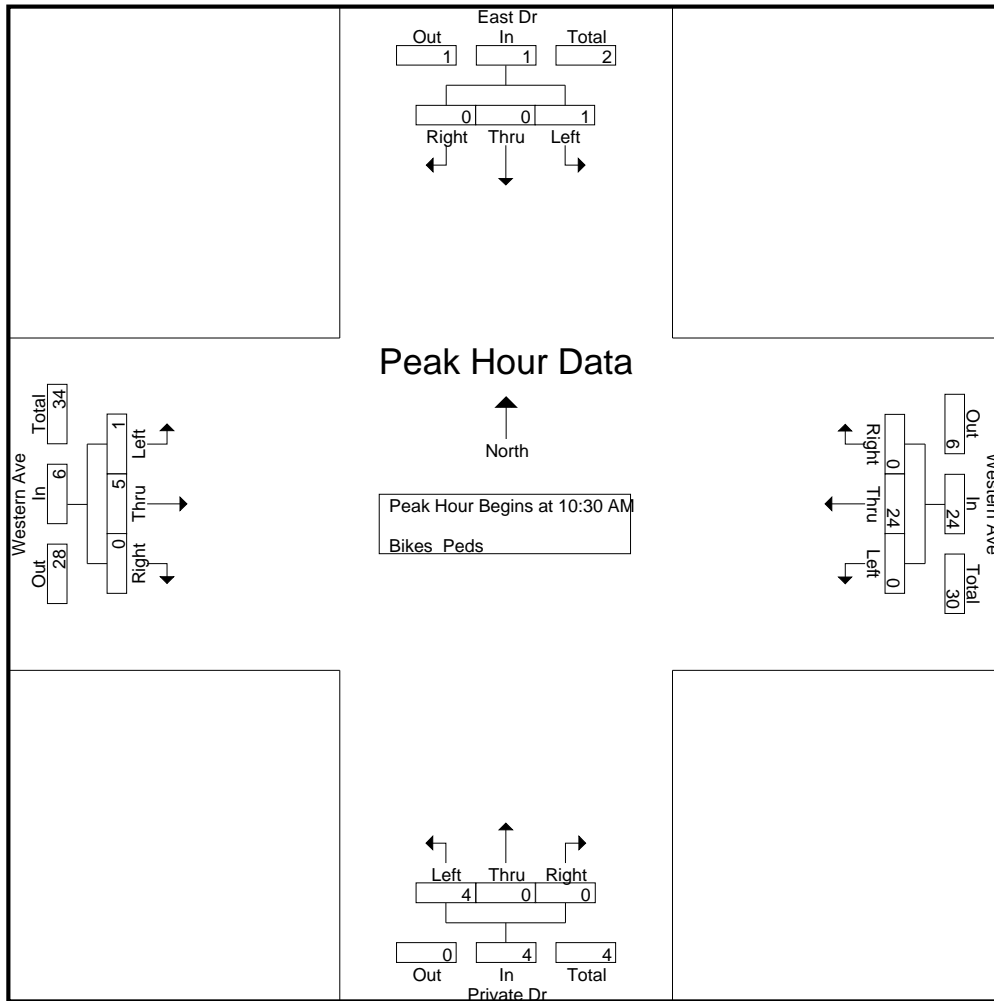
Accurate Counts

978-664-2565

N/S Street : East Dr / Private Dr
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

File Name : 10463004
 Site Code : 10463004
 Start Date : 11/22/2014
 Page No : 11

Start Time	East Dr From North				Western Ave From East				Private Dr From South				Western Ave From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 10:00 AM to 12:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 10:30 AM																	
10:30 AM	0	0	0	0	0	8	0	8	3	0	0	3	0	2	0	2	13
10:45 AM	0	0	0	0	0	4	0	4	1	0	0	1	1	1	0	2	7
11:00 AM	1	0	0	1	0	4	0	4	0	0	0	0	0	1	0	1	6
11:15 AM	0	0	0	0	0	8	0	8	0	0	0	0	0	1	0	1	9
Total Volume	1	0	0	1	0	24	0	24	4	0	0	4	1	5	0	6	35
% App. Total	100	0	0		0	100	0		100	0	0		16.7	83.3	0		
PHF	.250	.000	.000	.250	.000	.750	.000	.750	.333	.000	.000	.333	.250	.625	.000	.750	.673



Accurate Counts

978-664-2565

N/S Street : East Dr / Private Dr
 E/W Street : Western Avenue
 City/State : Boston, MA
 Weather : Clear

File Name : 10463004
 Site Code : 10463004
 Start Date : 11/22/2014
 Page No : 12

Start Time	East Dr From North				Western Ave From East				Private Dr From South				Western Ave From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 10:00 AM to 12:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach at:																	
	10:15 AM				10:30 AM				10:00 AM				12:00 PM				
+0 mins.	0	0	0	0	0	8	0	8	0	0	0	0	0	1	0	1	
+15 mins.	0	0	0	0	0	4	0	4	0	0	0	0	0	2	0	2	
+30 mins.	0	0	0	0	0	4	0	4	3	0	0	3	0	2	0	2	
+45 mins.	1	0	0	1	0	8	0	8	1	0	0	1	0	3	1	4	
Total Volume	1	0	0	1	0	24	0	24	4	0	0	4	0	8	1	9	
% App. Total	100	0	0		0	100	0		100	0	0		0	88.9	11.1		
PHF	.250	.000	.000	.250	.000	.750	.000	.750	.333	.000	.000	.333	.000	.667	.250	.563	

