Conduent Data Exploration

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ISSUING AUTHORITY

Though Traffic and Parking are not the only ticket issuing authorities in our data, they write the most tickets than any other issuing authority. The Boston Police also write a small proportion of parking tickets, but the Parking Department is a the largest ticket writer in Boston.

Issuing_Authority	No_Tickets
TRAFFIC AND PARKING	178383
BOSTON POLICE	5154
OUTSIDE	365
PUBLIC FACILITIES	210
METRO DIST COMMISSION	1641
MASS BAY TRANS AUTHORITY	49
ENVIRONMENTAL PROTECTION AGENCY	4
SHERIFF	6

DIFFERENT TYPES OF TICKETS

For the most part, parking tickets are written for vehicles that park at an expired parking meter. The next common reason to write a ticket is that the vehicle is parked illegally in a residentally permitted area. Though not as common, but certainly worth mentioning are expired inspection, street cleaning, no parking signs, loading zones, and parking for too long in a spot with a time limit.

Seemingly problematic issues such as double parking do not seem to be high on the ticketing list. This doesn't mean that it doesn't happen, but it does show that the Parking Department isn't ticketing double parking as much as it is simple parking time expired or parking in the wrong kind of spot.

Ticket_Type	No_Tickets
METER UNPD	39729
RES PERMIT	24487
EXP INSPTN	15742
STR CLEAN	14030
NOSTOPST	13271
LOAD ZONE	12906
OVR POSTED	12223
OVR METER	10878
EXP/NO PLT	8120
OVR NIGHT	6723
DOUBLE PK	5937
NO PARKING	3600
BUS STOP	2210
HYDRANT	2108
NO PARK B	1782
DRIVEWAY	1681
DOUBLE PKB	1405

Ticket_Type	No_Tickets
W/20 FT IN	1360
HP-DV PLT	1174
HP RAMP	1117
ST CLEAN	833
SIDEWALK	809
TAXI STAND	786
NO VIOL	589
BIKELANE	546
CROSSWALK	538
1FT CURB	390
OTHER	309
LESS 10 FT	241
CNTR STRIP	203
NOT MTR SP	174
R/P ONLY	137
NO STP/STD	121
HEAVY VHCL	62
NO PRK-B	45
DBLE PARK	33
COMM OVNIT	30
AVR-FIRST	20
OV PST LIM	4
PEDESTRIAN	2
DBLE PKG-B	1

LOOKING AT STATE DESCRIMINATION

We look at tickets issued by plate origin. The data show that the most ticketed plate origin is Massachusetts, which does not come as a surprise as one would expect the most common plate to come from the state in which they are being ticketed. The next four highest origins cover New York and all New England states except Vermont and Maine. Again, one would assume that vehicles from neighboring states would be ticketed fairly often as these states aren't all that far from Boston. If we want to determine if there is any kind of discrimination based on plate origin, we will need to know the proportion of drivers coming into Boston from each neighboring state, data which will be impossible to get.

What is interesting is that Vermont, a bordering state to Massachusetts, has far fewer parking tickets issued. The state ranks 14th of all states ticketed, below even Maine which ranks 8th. This could mean that there are fewer people from Vermont coming to Boston (possibly out of fear or a deep seeded, parochial-centric culture) and parking illegally. This theory is questionable as Maine, which has about 20 miles of New Hampshire separating it from Massachusetts, attracts more tickets than vehicle counterparts from Vermont. This would then suggest, since Maine undoes the ease of entry theory, that drivers from Vermont are just better at being able to read and comprehend the various traffic signs in Boston than drivers from other New England states.

Origin_State	No_Tickets
MA	163073
NH	4588
NY	2560
RI	2408
CT	2342
NJ	1486
FL	1143

Origin_State	No_Tickets
ME	1019
PA	882
IN	559
DD	501
VA	495
MD	468
VT	415
CA	361
TX	327
NC	288
GA	286
OH	284
IL	258
AZ	252
MI	214
TN	195
MN	188
OK	157
SC	142
CO	124
QC	106
ON	101
ZZ	79
NE	74
OR	69
MO	63
DE	63
WA	58
DC	55
WI	50
AL	49
KY	48
US	44
LA	44
NV	32
MT	31
UT	25
WV	23
AR	23
AV	22
NM	21
IA	21
KS	19
MS	18
AM	16
NS	12
AK	10
ID	10
NB	9
SD	7
AB	5
WY	5

Origin_State	No_Tickets
ND	5
BC	5
MR	4
HI	3
MB	3
MX	3
YT	2
PQ	1
7D	1
PE	1
VN	1
KT	1

CAR TYPES

Car make may affect whether or not a ticket is written. According to the data, Toyotas are the highest ticketed car make, followed closely by Ford and Honda. This could be a reflection of the types of drivers that use these makes of car, or it could simply be a problem of auto market saturation as Toyota is a very reliable and popular brand of car. More data would be needed, specifically from the Registry of Motor Vehicles, to examine the proportion of registrations for each car make and calculate how representative each make is compared to the number of tickets issued.

Car_Make	No_Tickets
TOYT	24481
FORD	23969
HOND	20177
CHEV	12813
NISS	11462
JEEP	9746
BMW	6580
SUBA	6082
MERZ	5363
VOLK	5295
HYUN	4553
DODG	4382
AUDI	4339
GMC	3886
LEXU	3410
ACUR	3386
MAZD	3251
FRHT	3186
KIA	2726
VOLV	2446
INFI	2108
UNKN	1765
UPS	1716
CHRY	1219
INTL	1206
CADI	1182
LNDR	940
ISUZ	905

Car_Make	No_Tickets
TOY	825
MITS	818
ROVE	814
HONDA	776
HINO	694
MERC	670
COOP	662
PORS	640
BUIC	637
LINC	624
SCI	539
NISSN	430
SAAB	415
CHEVY	356
MNNI	337
PONT	330
TESL	283
RAM	241
SATU	224
JAGU	219
VW	205
FIAT	173
KEN	164
DODGE	144
LEXUS	133
PET	128
ACURA	112
MASE	106
SUZU	98
OLDS	76
SUBAR	59
ALFA	57
SMAR	56
STER	56
HUM	50
MAZDA	47
HYUND	36
KAWA	34
HARL	33
MACK	30
VOLVO	28
YAMA	27
LEXS	20
ISU	19
BENT	17
MINI	17
GEO	13
INFIN	13
BUICK	12
SCION	12
CHRYS	11
TESLA	11

Car_Make	No_Tickets
FER	11
UNK	10
DUCA	8
ROLL	8
KW	8
TRIU	8
PTRB	7
DAEW	7
PLYM	7
LINCO	6
LAND	5
STRN	4
SMART	4
JAG	4
STERL	4
HUND	4
SAA	4
MER	4
AMC	4
EAGL	4
SCIO	4
TOYOT	4
CHEVR	4
MAZ	3
SATN	3
SATUR	3
DOGE	3
VOLKS	3
INTE	3
RANGE	3
INTER	3
SUZI	2
FEDEX	2
FRE	2
RANG	2
VOLOV	2
RENA	2
MCI	2
FREIG	2
MK	2
TRAIL	2
SUZUK	2
VOL	2
POR	2
RAN	2
SAT	2
SUZ	2
CHE	2
ACU	1
DODNG	1
AIROM	1
MCLA	1

Car_Make	No_Tickets
NITS	1
SMRT	1
CEHV	1
SUBU	1
JAGUA	1
HFNO	1
BINC	1
SRERL	1
INF	1
COLC	1
ROVER	1
MIT	1
SLION	1
LZ	1
FRTH	1
COPPE	1
PON	1
SABAR	1
FREI	1
NERZ	1
HUN	1
MARZ	1
PORSC	1
ROV	1
PONTI	1
MIFI	1
SBUA	1
FOR	1
DOG	1
CAD	1
KEXUS	1
SUCI	1
MZDA	1
HYN	1
CASE	1
JLLP	1
HAR	1
SUZK	1
TPY	1
SISS	1
KAWK	1
SOBA	1
DODE	1
CHIE	1
BMB	1
HO	1
FOUR	1
HYON	1
MINN	1
SBUAR	1
MEZ	1
ROL	1

Car_Make	No_Tickets
ACRUA	1
PORCH	1
JEE	1
RUNGE	1
TOY4	1
MG	1
OLD	1
UHAU	1
MITSU	1
MERCE	1
ACION	1
CADIL	1
CHARY	1
HYJN	1
FLAT	1
HUYN	1
DAAB	1
PORSH	1
HODNA	1
THOM	1
HIND	1
STLG	1
LLEXU	1
6MC	1
SUV	1

CAR TYPES AND AMOUNT

Looking at the amount of money a certain make of vehicle brings in on average, we see a less surprising landscape. Though the data isn't entirely clean, we see that "UPS", meaning the UPS trucks, bring in quite a bit per ticket, at about $69 per ticket issued. Of the vehicles mentioned in the previous section, though Toyota has a higher number of tickets issued than Ford, each ticket is actually for a smaller amount than their American made counterparts. Toyota tickets average to be about $52, whereas For tickets come in, on average, at $55.

Car_Make	No_Tickets	Total_AMT	Av_Per_Tkt
KEN	164	11605	70.76
INTL	1206	84651	70.19
FRHT	3186	223210	70.06
HINO	694	48145	69.37
UPS	1716	118005	68.77
PET	128	8595	67.15
CHEVY	356	23210	65.20
ISUZ	905	58562	64.71
ACURA	112	7244	64.68
HONDA	776	49636	63.96
DODGE	144	9197	63.87
NISSN	430	27279	63.44
UNKN	1765	110245	62.46
VW	205	12572	61.33
TOY	825	47522	57.60

Car_Make	No_Tickets	Total_AMT	Av_Per_Tkt
RAM	241	13605	56.45
MITS	818	46053	56.30
LEXUS	133	7403	55.66
FORD	23969	1319655	55.06
CADI	1182	64463	54.54
GMC	3886	211582	54.45
DODG	4382	237256	54.14
CHEV	12813	692485	54.05
LINC	624	33529	53.73
CHRY	1219	65163	53.46
MERZ	5363	282220	52.62
INFI	2108	110656	52.49
NISS	11462	599912	52.34
KIA	2726	142459	52.26
SATU	224	11685	52.17
TOYT	24481	1276966	52.16
MERC	670	34910	52.10
HYUN	4553	236766	52.00
MASE	106	5480	51.70
ACUR	3386	174398	51.51
PONT	330	16975	51.44
PORS	640	32820	51.28
HOND	20177	1034156	51.25
LNDR	940	47903	50.96
JEEP	9746	495281	50.82
SCI	539	27307	50.66
ROVE	814	41030	50.41
BMW	6580	330723	50.26
JAGU	219	10983	50.15
VOLV	2446	122318	50.01
BUIC	637	31840	49.98
MAZD	3251	161916	49.80
SAAB	415	20615	49.67
LEXU	3410	169092	49.59
MNNI	337	16695	49.54
FIAT	173	8535	49.34
VOLK	5295	260760	49.25
AUDI	4339	212039	48.87
SUBA	6082	295377	48.57
TESL	283	13555	47.90
COOP	662	31060	46.92

MOST PROFITABLE ROUTE

These data need some clarification from the Parking Department, but it can be inferred that South Boston (route "SB") is likely the highest ticketed route. Close behind are routes "DOR", "EB", and "CHAS" (inferring Dorchester, East Boston, and Charlestown respectively). These areas have a relatively high residential density and so it is not surprising that more tickets are issued there, since we have already established that the non-resident parking tickets are among the top 2 ticketing reasons.

More data is needed to really look at hotspots for both number of tickets written as well as average amount per ticket.

Route	No_Tickets	Av_Per_Tkt
SB	11680	50.08
SC	9971	66.07
DOR	7837	54.54
EB	6826	48.42
CHAS	4426	56.71
A04	4225	51.36
A18	4203	67.59
F02	4123	45.06
A07	3767	54.65
A17	3712	45.73
A01	3309	58.15
B09	3240	51.94
B03	3221	49.21
C03	3137	46.84
B01	3136	49.01
D02	3095	46.75
B04	3076	49.98
JP	3035	55.99
E04	3009	48.78
B05	2953	48.85
B14	2920	49.62
D05	2767	51.02
A10	2714	72.57
B12	2710	50.21
B06	2689	49.79
B07	2594	47.89
E07	2579	45.54
E08	2390	48.25
A13	2388	50.94
A14	2370	54.65
E06	2345	47.94
B08	2336	48.80
A09	2334	53.70
C04	2319	43.91
D04	2303	53.76
E01	2249	55.40
F01	2103	52.25
A11	2032	81.01
A20	2030	54.73
A05	2025	53.29
A15	2004	72.67
E05	1991	47.93
A12	1931	64.46
A21	1924	54.97
F04	1904	46.73
B10	1871	49.82
A02	1776	58.99
B13	1775	46.59
E03	1688	52.68
B02	1408	46.09
D03	1378	48.11
F06	1356	46.45

Route	No_Tickets	Av_Per_Tkt
E02	1332	50.97
TOW	1278	58.30
F03	1253	46.09
F05	1233	46.55
C01	1196	45.95
B11	1137	49.98
WROX	968	46.12
A08	949	52.30
A16	935	72.04
C02	918	47.46
SCDO	792	40.11
SCSE	672	37.86
A19	647	69.18
D01	596	54.27
A03	513	56.06
SA	458	54.04
ROX	447	55.26
A1	400	57.50
A06	349	49.84
MATT	343	46.20
SCJP	280	38.79
SCBB	234	35.68
SCAB	230	42.70
E7	198	43.51
SCMH	194	37.11
ROS	181	56.10
A321	172	53.40
SCBH	167	36.08
SCSB	143	54.20
HP	116	58.62
SCFK	106	37.36
901	104	60.23
A421	100	42.05
BT55	99	67.30
AT55	89	71.97
632	85	72.94
SCRO	75	37.87
F101	71	58.52
F4A	65	52.54
DETA	62	67.63
A426	62	77.50
T55	60	51.50
A411	55	73.91
A202	54	73.76
L412	49	39.49
C411	48	61.12
E4	48	51.25
CS	48	31.88
D20	46	33.70
J690	46	94.07
KT56	46	55.65
F4C	46	53.04

Route	No_Tickets	Av_Per_Tkt
F4D	45	45.33
T322	45	50.51
101	43	54.07
414A	42	68.81
DOZ	41	48.41
ET55	39	65.13
J431	39	50.72
L101	39	70.77
E435	39	47.18
A103	39	72.05
A437	38	65.26
202	37	54.86
J411	36	69.03
SCEB	35	38.86
VAL	34	83.24
E103	34	40.74
F6A	34	75.74
T320	32	50.97
T330	32	41.91
T333	32	29.28
SCNE	31	37.42
DCR	31	60.97
T02	30	17.20
DT55	30	64.17
GT55	29	74.83
498	27	80.00
SH	27	81.48
F201	27	57.78
CD40	26	21.54
G412	26	65.77
T324	26	35.19
416A	26	74.04
K412	25	71.60
J201	25	76.40
421	25	61.20
JT55	25	28.80
103A	25	44.00
GT5	24	33.96
D431	24	57.08
D421	24	37.71
603	24	70.62
T314	24	22.38
H425	23	34.13
F441	23	64.57
F431	23	41.30
D103	22	56.95
K426	22	62.95
F499	21	65.00
411	21	59.52
L411	21	53.57
K424	21	58.81
H441	20	29.75

Route	No_Tickets	Av_Per_Tkt
C902	20	89.55
J412	20	49.00
426	20	83.25
A691	20	87.75
103	20	53.75
G416	19	67.11
F606	19	58.68
L422	19	64.47
695	19	93.68
101A	19	41.84
T338	19	44.74
425	18	47.50
C111	18	48.33
K498	18	52.22
J101	18	55.83
AX	18	72.50
A632	18	83.06
911	18	28.33
C202	17	46.24
693F	17	89.41
A697	17	54.71
D101	16	28.75
K01	16	51.56
412	16	39.38
F4B	16	70.62
T335	16	38.12
H435	15	62.80
957	15	44.00
DET	15	38.67
L608	15	57.00
697	15	99.00
G201	14	40.50
F6B	14	71.79
416	14	55.36
EF	14	5.21
B3	13	69.62
FK1	13	64.23
C421	13	54.08
D691	13	82.31
E202	13	92.31
F102	13	85.00
431	13	42.69
691	13	55.00
H447	13	48.77
A416	13	58.46
C660	12	43.33
HT55	12	66.67
C112	12	66.67
D201	12	80.67
J425	12	47.75
H445	12	40.67
F424	11	44.55

Route	No_Tickets	Av_Per_Tkt
101D	11	37.73
LT56	11	52.27
1	11	93.64
A422	11	64.09
AG03	11	49.55
T336	11	74.18
D445	11	54.09
J660	11	70.91
D4	10	73.50
J416	10	68.00
J103	10	53.50
D441	10	56.50
F411	10	47.50
T623	10	32.00
437	10	52.00
T326	10	47.70
F412	9	43.89
C6	9	62.78
CH	9	80.00
H415	9	37.89
4	9	81.11
D411	9	39.44
635	9	57.78
F422	9	60.56
G101	9	47.78
A696	9	66.67
B432	9	82.78
FK1A	8	49.38
C431	8	56.00
F630	8	67.50
C113	8	61.88
K416	8	72.50
C11	8	69.38
415	8	40.62
K422	8	40.62
909	8	71.25
E427	8	55.62
F901	8	67.50
F6	7	93.57
H103	7	29.29
D435	7	64.29
414	7	51.43
DK01	7	56.86
L202	7	66.43
D	7	72.86
A435	7	67.86
435	7	55.00
A436	7	72.14
A432	7	90.00
436	7	57.86
E437	7	102.86
B650	7	74.29

Route	No_Tickets	Av_Per_Tkt
G425	7	82.86
J102	7	30.71
E428	7	45.00
G421	6	90.83
C425	6	44.17
425F	6	95.83
435A	6	40.00
AK01	6	80.83
7	6	56.67
D499	6	98.33
L421	6	45.83
660	6	55.17
10V	6	35.00
F603	6	37.50
HD03	6	60.83
D21	5	55.00
421D	5	67.00
G415	5	19.00
E414	5	59.00
411D	5	84.60
A7	5	80.00
K414	5	58.00
608	5	98.00
E626	5	80.00
K411	5	8.00
D631	5	72.00
KK02	5	33.00
T339	5	62.40
B431	5	48.00
654	5	60.60
B411	5	69.00
FK01	5	73.00
H909	5	0.00
B651	5	74.00
T311	5	54.60
B9	4	90.00
D5	4	92.50
6	4	60.00
TX	4	47.50
437D	4	90.00
F3	4	61.25
H411	4	67.00
GD07	4	25.00
422	4	67.50
103F	4	43.75
H104	4	46.25
B454	4	85.00
447	4	22.50
B436	4	38.75
B433	4	47.00
LT55	4	70.00
A101	4	55.00

Route	No_Tickets	Av_Per_Tkt
F432	4	70.00
367	4	0.00
RR	4	0.00
D633	4	77.50
J499	4	76.25
F442	4	96.25
BTSS	4	92.50
A631	4	91.25
B434	3	50.00
441	3	48.33
D415	3	33.33
D105	3	73.33
KT55	3	30.00
D693	3	45.00
18	3	30.00
AD	3	80.00
696	3	55.00
435D	3	96.67
D425	3	43.33
VK19	3	100.00
F615	3	40.00
6621	3	51.67
GT33	3	36.67
201A	3	61.67
A457	3	56.67
GD20	3	38.33
452	3	61.00
499	3	81.67
H498	3	41.67
A415	3	81.67
432	3	46.67
431F	3	91.00
B412	3	100.00
T31	3	35.33
T341	3	20.00
H436	3	16.67
650	3	60.00
TO2	3	0.00
K9	3	0.00
401	3	76.67
T357	3	0.00
T332	3	0.00
415F	3	101.67
608D	3	73.33
H1	3	36.67
B416	3	41.67
WV	3	80.00
T313	3	48.67
D1	2	70.00
F608	2	50.00
G414	2	50.00
0B7	2	20.00

Route	No_Tickets	Av_Per_Tkt
H455	2	90.00
H430	2	45.00
H105	2	0.00
421F	2	62.50
K202	2	27.50
J415	2	72.50
411H	2	95.00
K104	2	40.00
J692	2	100.00
C983	2	50.00
MP	2	55.00
421A	2	112.50
EN	2	90.00
441A	2	20.00
C3	2	90.00
C435	2	32.50
B	2	35.00
A698	2	72.50
FD96	2	32.50
CK01	2	77.50
A4	2	70.00
431A	2	40.00
445	2	75.00
TG04	2	86.50
D632	2	0.00
T343	2	0.00
J661	2	26.50
J421	2	57.50
F	2	95.00
E421	2	40.00
A	2	75.00
D14	2	27.50
E5	2	90.00
696D	2	90.00
101F	2	72.50
8	2	25.00
A692	2	45.00
344	2	0.00
9537	2	0.00
JR	2	70.00
E6	2	40.00
9586	2	0.00
AC	2	0.00
F911	2	0.00
J324	2	0.00
427D	2	57.50
0A1	2	105.00
ED20	2	27.50
CD20	2	53.00
CT56	2	80.00
661	2	17.50
A452	2	90.00

Route	No_Tickets	Av_Per_Tkt
MIL	2	100.00
H208	1	90.00
CK00	1	40.00
D2	1	90.00
T55F	1	55.00
FT55	1	90.00
F466	1	25.00
H442	1	0.00
C4	1	100.00
FKIA	1	25.00
CDET	1	55.00
625	1	100.00
F421	1	90.00
427	1	65.00
E13	1	120.00
43L	1	75.00
429	1	50.00
D426	1	100.00
K	1	0.00
639F	1	0.00
71	1	120.00
E425	1	90.00
T101	1	55.00
D5F	1	40.00
103D	1	40.00
D011	1	90.00
J220	1	100.00
JW	1	55.00
BC	1	90.00
D455	1	133.00
DAPR	1	55.00
620	1	90.00
AER	1	90.00
A690	1	90.00
A9	1	90.00
A412	1	120.00
A5	1	90.00
A601	1	60.00
A603	1	55.00
GA03	1	60.00
411F	1	100.00
MAT	1	15.00
E201	1	100.00
A12A	1	85.00
1419	1	55.00
419A	1	55.00
07	1	45.00
432A	1	100.00
G	1	120.00
K472	1	40.00
447F	1	90.00
T230	1	73.00

Route	No_Tickets	Av_Per_Tkt
R424	1	60.00
A2	1	100.00
201F	1	60.00
R832	1	90.00
D695	1	40.00
T910	1	133.00
K413	1	25.00
690	1	100.00
S202	1	60.00
DT	1	40.00
498F	1	25.00
9339	1	120.00
10D	1	40.00
A252	1	60.00
H203	1	85.00
B101	1	73.00
B201	1	0.00
0F	1	85.00
413P	1	35.00
G431	1	55.00
V149	1	133.00
H418	1	0.00
E413	1	25.00
J620	1	100.00
451	1	85.00
F631	1	25.00
AY	1	25.00
41	1	0.00
A32	1	60.00
B451	1	33.00
JK01	1	0.00
J423	1	55.00
EV	1	60.00
471	1	60.00
FKL	1	25.00
T199	1	100.00
910	1	40.00
C101	1	90.00
E18	1	65.00
FDTL	1	35.00
E905	1	85.00
90	1	160.00
69	1	90.00
FKC	1	100.00
CK1F	1	0.00
CK1	1	90.00
T327	1	40.00
T34	1	0.00
C441	1	0.00
526	1	0.00
H	1	0.00
HDT	1	0.00

Route	No_Tickets	Av_Per_Tkt
521	1	0.00
A410	1	0.00
T224	1	0.00
CF40	1	0.00
FP	1	0.00
A107	1	0.00
631	1	0.00
428	1	25.00
SSA	1	0.00
55	1	0.00
VK13	1	0.00
K101	1	100.00
K907	1	0.00
C5	1	0.00
HD02	1	0.00
56	1	0.00
K904	1	0.00
982	1	0.00
D637	1	0.00
20	1	0.00
L941	1	0.00
R760	1	0.00
N455	1	0.00
H5	1	0.00
T33	1	0.00
605D	1	40.00
FU1	1	0.00
H437	1	0.00
A108	1	0.00
499A	1	85.00
G411	1	120.00
DTO	1	0.00
A423	1	0.00
K900	1	0.00
201	1	0.00
MSP	1	0.00
E102	1	0.00
H202	1	0.00
T347	1	0.00
635F	1	120.00
441F	1	0.00
426F	1	25.00
R949	1	90.00
126	1	90.00
L107	1	90.00
VK10	1	100.00
15	1	90.00
K102	1	100.00
B069	1	40.00
10U	1	0.00
1A5	1	90.00
S314	1	25.00

Route	No_Tickets	Av_Per_Tkt
611D	1	85.00
B435	1	25.00
NT	1	120.00
A326	1	60.00
B102	1	75.00
B415	1	25.00
VK23	1	100.00
B455	1	90.00
CLF	1	55.00
B404	1	33.00
458F	1	55.00
LA80	1	33.00
E423	1	90.00
417	1	40.00
VW	1	90.00
LA86	1	120.00
416R	1	40.00
401A	1	100.00
2820	1	0.00
E456	1	100.00
921	1	160.00
J432	1	0.00
T304	1	53.00
422D	1	90.00
436D	1	133.00
3545	1	40.00
4277	1	25.00
F435	1	0.00
F103	1	55.00
F402	1	90.00
11	1	0.00
DETL	1	0.00
D10	1	35.00
L600	1	55.00
F449	1	120.00
626F	1	40.00
F401	1	100.00
H475	1	40.00
G441	1	40.00
626	1	55.00
J630	1	100.00
L423	1	90.00
T364	1	53.00
6D	1	90.00
414D	1	25.00
TD2	1	40.00
6033	1	90.00
695F	1	90.00
A431	1	40.00
S13	1	65.00
AT5	1	90.00
638	1	90.00

Route	No_Tickets	Av_Per_Tkt
H4	1	53.00
AT01	1	100.00
AD43	1	40.00
A622	1	100.00

TICKET VOLUME BY TIME OF DAY

Hour by hour, we can see that Boston has peak periods of ticket issuance, as well as some times where ticket writing almost stops. The city issues the most tickets between the hours of noon and 1PM, then between 8AM and 11AM, with 11AM having slightly more than 10AM. The average ticket price, however is not highest during these peak hours, and the chances of getting a higher ticket are highest during the hours of midnight to 6AM, though the number of tickets issued during that time is lower than other hours.

Hour	No_Tickets	Av_Per_Tkt
0	4523	71.62
1	2741	63.60
2	2942	65.75
3	1909	68.14
4	1181	66.85
5	930	76.17
6	1551	56.42
7	2206	56.54
8	20170	47.64
9	16285	49.52
10	13781	51.99
11	15099	54.18
12	20450	50.42
13	12008	52.54
14	8136	53.00
15	9360	50.27
16	12759	50.97
17	10027	51.26
18	7067	54.23
19	8358	51.38
20	3952	58.16
21	3909	57.64
22	3055	57.64
23	3279	58.25

TICKET VOLUME BY DAY OF WEEK

Wednesdays and Fridays are the highest ticketing days with an average of about 1,400 and 1,300 tickets a day respectively. We see that the weekends lead to fewer tickets, however it is important to note that Sunday, which has the fewest average daily tickets of any day of the week, has the highest average price per ticket. If one wants to park illegally in Boston, Sunday has the lowest chance of a ticket, but if a vehicle does get a parking ticket on Sunday, it will be nearly $10 more than the rest of the week.

Hour	Av_Tic_Per_Day	Av_Per_Tkt
Wednesday	1407.6	1352.93

Hour	Av_Tic_Per_Day	Av_Per_Tkt
Friday	1320.8	1162.43
Tuesday	1130.2	1208.76
Thursday	1055.1	1173.80
Monday	828.9	828.56
Saturday	691.6	553.40
Sunday	69.9	77.49

TICKET VOLUME BY DAY OF WEEK BY TIME OF DAY

If we drill down even further and look at average tickets written per hour by day of the week, we see some interesting patterns emerge. The following analysis contains some very sensitive information and should be kept as confidential as possible given current public record laws.

This breakdown shows us some of what we already know: the most average tickets written are between 8AM and 1PM. What we did not know before is the hourly breakdown per day. We now see that the glut of the morning ticket writing is done between 8 and 9AM. Then the average tickets per hour decreases over the next two hours, only to increase again each hour leading up to 1PM. This level of ticket issuance is rarely matched in any other hour or span of hours in the day.

Looking at the weekend sheds light on what can only be surmised as the Parking Department's little secret. Ticketing on Saturday effectively starts at 8AM and goes steadily, though not all that frequently compared to the weekdays, until midnight. Sunday we see almost no ticket issuance until 11PM.

Hour	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
0	20.4	34.8	34.8	23.8	35.0	3.7	3.9
1	15.1	18.4	22.7	14.2	17.7	3.1	3.8
2	20.1	19.9	23.7	16.8	19.3	0.6	1.0
3	14.8	12.1	15.6	10.4	12.2	0.4	0.4
4	10.2	6.8	10.1	6.6	6.5	0.1	0.4
5	8.6	6.5	7.6	5.8	3.1	0.0	0.1
6	12.5	9.5	14.1	7.1	10.3	0.0	0.1
7	16.3	12.8	16.9	11.7	18.2	0.4	0.4
8	107.1	119.4	171.6	112.0	147.3	43.7	1.9
9	78.3	99.0	131.4	91.8	119.1	46.8	2.2
10	63.8	78.5	101.0	74.8	98.1	66.3	2.4
11	74.0	93.0	106.1	86.9	105.5	59.7	3.0
12	94.5	143.0	158.0	122.6	138.9	51.2	1.3
13	59.5	72.3	87.7	66.7	87.9	45.5	1.0
14	36.7	53.7	53.1	42.4	59.8	38.4	1.8
15	35.8	58.1	69.9	55.6	76.1	31.3	1.0
16	40.1	68.4	99.3	73.8	96.8	70.6	1.8
17	32.7	57.9	73.2	58.8	69.6	57.2	4.0
18	18.6	34.6	52.9	42.7	47.2	51.2	3.6
19	21.8	51.5	61.9	50.4	65.6	41.0	1.9
20	7.9	21.8	30.9	22.0	32.2	24.4	1.2
21	8.3	19.9	24.6	23.3	32.0	30.5	0.8
22	10.3	16.3	19.7	16.3	20.3	23.1	2.6
23	20.6	21.2	20.2	18.0	1.7	1.3	28.8

AVERAGE TICKET AMOUNT BY DAY OF WEEK BY TIME OF DAY

The average ticket price per ticket doesn't change all that much hour to hour, day by day. We don't see the amounts ever dip below $40, owing mainly to the fact that a base parking ticket is $40. We don't see a lot of variation during the week, but the weekend seems to be a more expensive, per ticket, than the weekdays. Prices per ticket on Sunday are some of the most expensive per hour than other days of the week at the same hour. Knowing that we see almost no ticket writing pre-10PM on Sunday, this suggests that when tickets are written on Sunday, there are higher than they would be during the day, possibly due to the fact that it is Sunday.

Hour	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
0	70	74	72	72	74	55	57
1	61	68	65	61	62	59	64
2	65	64	68	64	68	61	55
3	74	64	73	64	65	50	61
4	65	69	70	66	63	97	44
5	81	71	81	74	68	NaN	90
6	58	58	53	58	57	65	22
7	57	57	57	55	57	35	24
8	47	47	49	49	48	41	59
9	49	49	50	52	49	44	58
10	51	53	53	53	53	47	56
11	52	56	54	57	54	49	60
12	50	50	49	51	52	48	58
13	53	53	52	54	53	51	54
14	53	52	53	57	50	53	60
15	51	51	51	51	48	49	62
16	53	53	51	51	50	48	60
17	52	52	51	51	50	50	67
18	58	55	54	54	52	54	62
19	51	52	51	51	50	53	80
20	60	58	58	60	57	57	72
21	59	57	57	60	58	56	54
22	58	58	59	58	56	56	68
23	57	57	58	57	43	63	62