

MEMORANDUM

TO: Michael Behrendt
FROM: Jim Lawson
DATE: September 24, 2013
SUBJECT: Updated Parking Use Data

SUMMARY

Data on parking use was collected in the downtown during the first three weeks of September (excluding weekends). This is the third time I have collected parking data since 2010, and this latest effort provides updated information on downtown public parking availability. Data was collected nine times focusing on the morning and early afternoon when use is the highest (based on past data).

Free and metered parking was always available in the Core Downtown, and never exceeded the 85% maximum utilization threshold recommended for downtown Durham¹. However, the data shows that increasing the use of downtown parking by only twenty-two spaces results in exceeding this threshold, which may require implementing a number of tactical measures to ensure parking is available without unnecessary traffic circling and driver frustration. Longer term, additional parking may be required. Potential tactical measures include:

- Requiring that proposed developments maintain the existing number of required spaces under zoning ordinance 175-112:A.2 “Central Business District Special Conditions – Exemptions”. ***This measure could be implemented immediately as general Planning Board policy.***
- Installing new Kiosks on Main Street to manage the 1 hour of free parking in order to reduce parking abuse that impacts downtown businesses.
- Installing new Kiosks in the Tedeschi Lot.
- Limiting parking times or imposing higher parking rates (beyond 2 hours) on Pettee Brook Lane and Main Street near Huddleston Hall to discourage parking by persons with a destination on the UNH campus.

DATA COLLECTION TARGETS

Data was collected in the following parking areas:

Core Downtown

- Metered Parking
 - Main Street (south side) in the vicinity of Huddleston Hall
 - Pettee Brook Lane
 - Pettee Brook Parking Lot
 - Lower Madbury Road (across from the Post Office and near 9/11 Madbury Road)

¹ “Town of Durham – Parking Pricing & Management Report”, TND Engineering, November 2011, Page 31.

- One Hour Free Parking
 - Main Street (north side)
 - Tedeschi Parking Lot
- Permit
 - Pettee Brook Permit Lot
 - Permit Area of the Pettee Brook Metered Lot
 - Cowell Drive

Outside the Core Downtown

- Metered Parking
 - Main Street (north side) in the vicinity of the Memorial Union Building
 - Garrison Avenue
- Free Parking
 - Madbury Road (north of the Mathes Terrace intersection)

Data was *not* collected for the following parking areas and types of parking:

- Handicapped parking
- Commercial parking lots
- Post Office parking lot
- Jenkins Court
- Depot Road parking lot

PARKING USE INFORMATION

Appendix A provides the data collected for each parking area. The data shows that there was parking in all areas at all times with the exception of the free parking on Main Street. There was one occasion (Sept 13 at 11:15AM) when no free parking was observed on Main Street; however, there were six open parking spaces in the Tedeschi Parking Lot at that time.

Figure 1 shows the average parking use, average spaces available and minimum spaces available for key areas in the Core Downtown. Figure 2 provides a summary of the total free and metered parking utilization in the Core Downtown.

Parking Area	Average Utilization	Average Spaces Available	Minimum Spaces Available	2011 Utilization
Main Street (Free)	81.4%	5.8	0	79.9%
Tedeschi Lot (Free)	64.4%	15.7	7	64.0%
Madbury Road (Free)	62.1%	8.3	3	41.3%
Pettee Brook Lane Metered	72.0%	5.9	2	N/A
Main Street - Huddleston Metered	88.1%	1.8	0	68.9%
Pettee Brook Meter Lot	74.8%	12.1	8	57.6%

Figure 1 – Parking Area Use in the Core Downtown

	Averages
Metered Spaces Core Downtown	100
Average Spaces Available	27.2
Core Downtown Meter Utilization	72.8%
1 Hr Free Core Downtown	75
Average Spaces Available	21.4
1 Hr Core Downtown Utilization	71.4%
Core Downtown - Total	175
Average Spaces Available	48.7
Core Downtown Utilization	72.2%
Total Non-Permit Spaces	229
Average Spaces Available	59.8
Non-Permit Space Utilization	73.9%
Total Permit Only Spaces	31
Average Spaces Available	6.0
Non-Permit Space Utilization	80.6%

Figure 2 – Free, Metered and Permit Parking Use and Availability in the Core Downtown

APPENDIX A – PARKING USE DATA

	Date:	3-Sep	Date:	3-Sep	Date:	4-Sep
	Time:	11:15-11:45	Time:	13:00-13:15	Time:	11:40-11:55
Cowell Drive Permit	Total:	6	Total:	6	Total:	6
	Available:	0	Available:	1	Available:	0
	Used:		Used:		Used:	
	Percent Used:	100%	Percent Used:	83%	Percent Used:	100%
Lower Madbury Metered	Total:	8	Total:	8	Total:	8
	Available:	1	Available:	2	Available:	3
	Used:		Used:		Used:	
	Percent Used:	88%	Percent Used:	75%	Percent Used:	63%
Pettee Brook Metered	Total:	48	Total:	48	Total:	48
	Available:	10	Available:	8	Available:	10
	Used:		Used:		Used:	
	Percent Used:	79%	Percent Used:	83%	Percent Used:	79%
Pettee Brook Metered Lot Permit	Total:	8	Total:	8	Total:	8
	Available:	7	Available:	6	Available:	6
	Used:		Used:		Used:	
	Percent Used:	13%	Percent Used:	25%	Percent Used:	25%
Pettee Brook Permit	Total:	17	Total:	17	Total:	17
	Available:	0	Available:	0	Available:	0
	Used:		Used:		Used:	
	Percent Used:	100%	Percent Used:	100%	Percent Used:	100%
Huddleston Metered	Total:	15	Total:	15	Total:	15
	Available:	0	Available:	0	Available:	0
	Used:		Used:		Used:	
	Percent Used:	100%	Percent Used:	100%	Percent Used:	100%
Tedeschi Parking Lot	Total:	44	Total:	44	Total:	44
	Available:	17	Available:	7	Available:	12
	Used:		Used:		Used:	
	Percent Used:	61%	Percent Used:	84%	Percent Used:	73%
Main Street Free	Total:	31	Total:	31	Total:	31
	Available:	7	Available:	5	Available:	5
	Used:		Used:		Used:	
	Percent Used:	77%	Percent Used:	84%	Percent Used:	84%
Pettee Brook Lane	Total:	21	Total:	21	Total:	21
	Available:	7	Available:	10	Available:	5
	Used:		Used:		Used:	
	Percent Used:	67%	Percent Used:	52%	Percent Used:	76%
President's House - Metered	Total:	22	Total:	22	Total:	22
	Available:	2	Available:	4	Available:	2
	Used:		Used:		Used:	
	Percent Used:	91%	Percent Used:	82%	Percent Used:	91%
Garrison Ave	Total:	10	Total:	10	Total:	10
	Available:	1	Available:	1	Available:	1
	Used:		Used:		Used:	
	Percent Used:	90%	Percent Used:	90%	Percent Used:	90%
Upper Madbury 2 Hr	Total:	22	Total:	22	Total:	22
	Available:	7	Available:	10	Available:	4
	Used:		Used:		Used:	
	Percent Used:	68%	Percent Used:	55%	Percent Used:	82%
Upper Madbury Metered	Total:	8	Total:	8	Total:	8
	Available:	7	Available:	6	Available:	2
	Used:		Used:		Used:	
	Percent Used:	13%	Percent Used:	25%	Percent Used:	75%
Metered Spaces Core Downtown		100		100		100
Metered Spaces Available		25		26		20
Core Downtown Meter Utilization		75.0%		74.0%		80.0%
1 Hr Free Core Downtown		75		75		75
1 Hr Core Downtown Spaces Available		24		12		17
1 Hr Core Downtown Utilization		68.0%		84.0%		77.3%
Core Downtown - Total		175		175		175
Core Downtown Spaces Available		49		38		37
Core Downtown Utilization		72.0%		78.3%		78.9%
Total Non-Permit Spaces		229		229		229
Total Spaces Available		59		53		44
Non-Permit Space Utilization		74.2%		76.9%		80.8%
Total Permit Only Spaces		31		31		31
Total Permit Only Spaces Available		7		7		6
Non-Permit Space Utilization		77.4%		77.4%		80.6%

	Date:	5-Sep	Date:	6-Sep	Date:	9-Sep
	Time:	11:10-11:20	Time:	11:40-11:50	Time:	12:55-13:05
Cowell Drive Permit	Total:	6	Total:	6	Total:	6
	Available:	0	Available:	0	Available:	0
	Used:		Used:		Used:	
	Percent Used:	100%	Percent Used:	100%	Percent Used:	100%
Lower Madbury Metered	Total:	8	Total:	8	Total:	8
	Available:	2	Available:	3	Available:	4
	Used:		Used:		Used:	
	Percent Used:	75%	Percent Used:	63%	Percent Used:	50%
Pettee Brook Metered	Total:	48	Total:	48	Total:	48
	Available:	9	Available:	13	Available:	13
	Used:		Used:		Used:	
	Percent Used:	81%	Percent Used:	73%	Percent Used:	73%
Pettee Brook Metered Lot Permit	Total:	8	Total:	8	Total:	8
	Available:	6	Available:	6	Available:	8
	Used:		Used:		Used:	
	Percent Used:	25%	Percent Used:	25%	Percent Used:	0%
Pettee Brook Permit	Total:	17	Total:	17	Total:	17
	Available:	0	Available:	0	Available:	0
	Used:		Used:		Used:	
	Percent Used:	100%	Percent Used:	100%	Percent Used:	100%
Huddleston Metered	Total:	15	Total:	15	Total:	15
	Available:	2	Available:	2	Available:	3
	Used:		Used:		Used:	
	Percent Used:	87%	Percent Used:	87%	Percent Used:	80%
Tedeschi Parking Lot	Total:	44	Total:	44	Total:	44
	Available:	19	Available:	19	Available:	22
	Used:		Used:		Used:	
	Percent Used:	57%	Percent Used:	57%	Percent Used:	50%
Main Street Free	Total:	31	Total:	31	Total:	31
	Available:	5	Available:	1	Available:	8
	Used:		Used:		Used:	
	Percent Used:	84%	Percent Used:	97%	Percent Used:	74%
Pettee Brook Lane	Total:	21	Total:	21	Total:	21
	Available:	2	Available:	8	Available:	5
	Used:		Used:		Used:	
	Percent Used:	90%	Percent Used:	62%	Percent Used:	76%
President's House - Metered	Total:	22	Total:	22	Total:	22
	Available:	1	Available:	3	Available:	0
	Used:		Used:		Used:	
	Percent Used:	95%	Percent Used:	86%	Percent Used:	100%
Garrison Ave	Total:	10	Total:	10	Total:	10
	Available:	0	Available:	1	Available:	1
	Used:		Used:		Used:	
	Percent Used:	100%	Percent Used:	90%	Percent Used:	90%
Upper Madbury 2 Hr	Total:	22	Total:	22	Total:	22
	Available:	3	Available:	10	Available:	5
	Used:		Used:		Used:	
	Percent Used:	86%	Percent Used:	55%	Percent Used:	77%
Upper Madbury Metered	Total:	8	Total:	8	Total:	8
	Available:	5	Available:	7	Available:	3
	Used:		Used:		Used:	
	Percent Used:	38%	Percent Used:	13%	Percent Used:	63%
Metered Spaces Core Downtown		100		100		100
Metered Spaces Available		20		33		28
Core Downtown Meter Utilization		80.0%		67.0%		72.0%
1 Hr Free Core Downtown		75		75		75
1 Hr Core Downtown Spaces Available		24		20		30
1 Hr Core Downtown Utilization		68.0%		73.3%		60.0%
Core Downtown - Total		175		175		175
Core Downtown Spaces Available		44		53		58
Core Downtown Utilization		74.9%		69.7%		66.9%
Total Non-Permit Spaces		229		229		229
Total Spaces Available		48		67		64
Non-Permit Space Utilization		79.0%		70.7%		72.1%
Total Permit Only Spaces		31		31		31
Total Permit Only Spaces Available		6		6		8
Non-Permit Space Utilization		80.6%		80.6%		74.2%

	Date: 10-Sep Time: 12:45-12:55	Date: 13-Sep Time: 11:15-11:25	Date: 16-Sep Time: 10:40-10:55
Cowell Drive Permit	Total: 6 Available: 0 Used: Percent Used: 100%	Total: 6 Available: 0 Used: Percent Used: 100%	Total: 6 Available: 0 Used: Percent Used: 100%
Lower Madbury Metered	Total: 8 Available: 2 Used: Percent Used: 75%	Total: 8 Available: 2 Used: Percent Used: 75%	Total: 8 Available: 4 Used: Percent Used: 50%
Pettee Brook Metered	Total: 48 Available: 13 Used: Percent Used: 73%	Total: 48 Available: 19 Used: Percent Used: 60%	Total: 48 Available: 14 Used: Percent Used: 71%
Pettee Brook Metered Lot Permit	Total: 8 Available: 8 Used: Percent Used: 0%	Total: 8 Available: 0 Used: Percent Used: 100%	Total: 8 Available: 0 Used: Percent Used: 100%
Pettee Brook Permit	Total: 17 Available: 2 Used: Percent Used: 88%	Total: 17 Available: 4 Used: Percent Used: 76%	Total: 17 Available: 0 Used: Percent Used: 100%
Huddleston Metered	Total: 15 Available: 6 Used: Percent Used: 60%	Total: 15 Available: 1 Used: Percent Used: 93%	Total: 15 Available: 2 Used: Percent Used: 87%
Tedeschi Parking Lot	Total: 44 Available: 13 Used: Percent Used: 70%	Total: 44 Available: 15 Used: Percent Used: 66%	Total: 44 Available: 17 Used: Percent Used: 61%
Main Street Free	Total: 31 Available: 6 Used: Percent Used: 81%	Total: 31 Available: 0 Used: Percent Used: 100%	Total: 31 Available: 15 Used: Percent Used: 52%
Pettee Brook Lane	Total: 21 Available: 6 Used: Percent Used: 71%	Total: 21 Available: 6 Used: Percent Used: 71%	Total: 21 Available: 4 Used: Percent Used: 81%
President's House - Metered	Total: 22 Available: 4 Used: Percent Used: 82%	Total: 22 Available: 0 Used: Percent Used: 100%	Total: 22 Available: 0 Used: Percent Used: 100%
Garrison Ave	Total: 10 Available: 4 Used: Percent Used: 60%	Total: 10 Available: 0 Used: Percent Used: 100%	Total: 10 Available: 0 Used: Percent Used: 100%
Upper Madbury 2 Hr	Total: 22 Available: 9 Used: Percent Used: 59%	Total: 22 Available: 12 Used: Percent Used: 45%	Total: 22 Available: 15 Used: Percent Used: 32%
Upper Madbury Metered	Total: 8 Available: 4 Used: Percent Used: 50%	Total: 8 Available: 5 Used: Percent Used: 38%	Total: 8 Available: 5 Used: Percent Used: 38%
Metered Spaces Core Downtown	100	100	100
Metered Spaces Available	31	33	29
Core Downtown Meter Utilization	69.0%	67.0%	71.0%
1 Hr Free Core Downtown	75	75	75
1 Hr Core Downtown Spaces Available	19	15	32
1 Hr Core Downtown Utilization	74.7%	80.0%	57.3%
Core Downtown - Total	175	175	175
Core Downtown Spaces Available	50	48	61
Core Downtown Utilization	71.4%	72.6%	65.1%
Total Non-Permit Spaces	229	229	229
Total Spaces Available	67	60	76
Non-Permit Space Utilization	70.7%	73.8%	66.8%
Total Permit Only Spaces	31	31	31
Total Permit Only Spaces Available	10	4	0
Non-Permit Space Utilization	67.7%	87.1%	100.0%