# 2015 Parking Utilization Study Downtown Portsmouth, NH



Parking & Traffic Safety Committee April 7, 2016

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#### Introduction

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- Certified Administrator of Public Parking (CAPP)
- Transportation Engineer
- MBA/Public Finance
- ➤ 25+ years experience
- Former Parking & Transportation Director
  - Lewiston/Auburn, ME MPO
  - City of Portsmouth, NH
  - City of Evanston, IL
- Independent consultant since 2009

#### Introduction

#### Municipal Parking Projects in New England

- > Haverhill, MA
- Manchester, CT
- > Mansfield, MA
- Narragansett, RI
- Newburyport, MA
- Newport, RI
- > Plymouth, MA
- > Portsmouth, NH
- > Rye, NH
- > Wareham, MA
- Worcester, MA

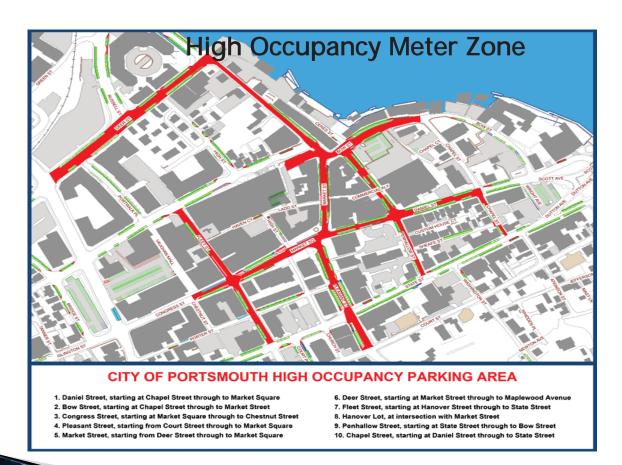
#### **Study Overview**

- I. Study Background/History
- **II.** Parking Survey Objectives
- III. Parking Survey Methodology
- IV. Parking Occupancy Survey
- v. Duration-of-Stay/Turnover Survey
- vi. Study Recommendations

#### I. Study Background/History

- 2011 City adopts an Omnibus approach to integrating supplyside parking improvements & land use/zoning strategies with demand-based pricing. Baseline parking use survey completed.
- 2012 High Occupancy Meter (HOM) Zone established in and around Market Square at \$1.50/hr. based on demand. All other metered parking set at \$1.00/hr. High-Hanover Parking Facility (HHPF) set at \$0.75/hr. with 1st-hour free promotion.
- 2013 Residents allowed to park free in HHPF on Sundays.
- 2014 HHPF rate raised to \$1.00/hr. & 1st-hr. free promotion ended. On-street parking time limits extended from 2 to 3-hrs.
- 2015 HOM Zone expanded with rate increase to \$1.75/hr.
   Lower-demand metered parking and HHPF rate increased to \$1.25/hr. Monthly permit rates also increased.

## I. Study Background/History

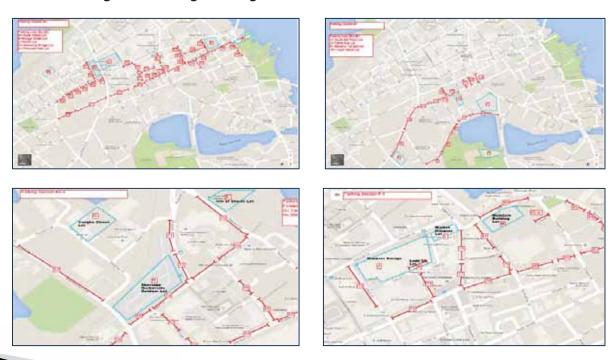


#### II. Parking Survey Objectives (2015)

- Conduct May and October occupancy counts to evaluate the need for annual parking rate adjustments based on demand.
- Conduct "peak" summer parking occupancy counts (July) to evaluate the seasonality of use;
- Expand parking survey area to include non-metered streets & lots located on the fringe of downtown; and
- Conduct "spot" duration of stay and turnover counts to evaluate parking efficiency, the effectiveness of on-street time limits and enforcement.

#### III. Parking Survey Methodology

Parking occupancy counts conducted on an hourly basis from 8 a.m. to 8 p.m. on typical Thursdays and Saturday in May, July and October.



#### III. Parking Survey Methodology

Parking duration-of-stay/turnover counts were conducted on Thursday, September 24<sup>th</sup> from 9 a.m. to 5 p.m. on portions of the following streets:

- State Street

- Market Street

- Fleet Street

- Deer Street

Congress Street

- Bridge Street

- Daniel Street

- Islington Street

- Bow Street

All occupancy and duration-of-stay/turnover counts were conducted on good weather days free of rain and any major special event that could skew results.

#### IV. Parking Occupancy Survey (2015)

- Parking occupancy rates were calculated for public use parking lots and streets at the block level.
- 4-day average occupancy rates (Noon to 7 p.m.) period were calculated for May/Oct, 2015 and compared to May/Oct, 2014 rates.
- Increases/decreases in occupancy rates year-overyear were quantified.
- 4-day average occupancy rates above 85% are considered exceeding effective capacity and considered for a rate increase; below 40% underutilized and considered for a rate decrease.

## IV. Parking Occupancy Survey/Rates

2014/2015 Average 4-Day Parking Occupancy Rates May/Oct., 12:00 p.m. to 7:00 p.m.

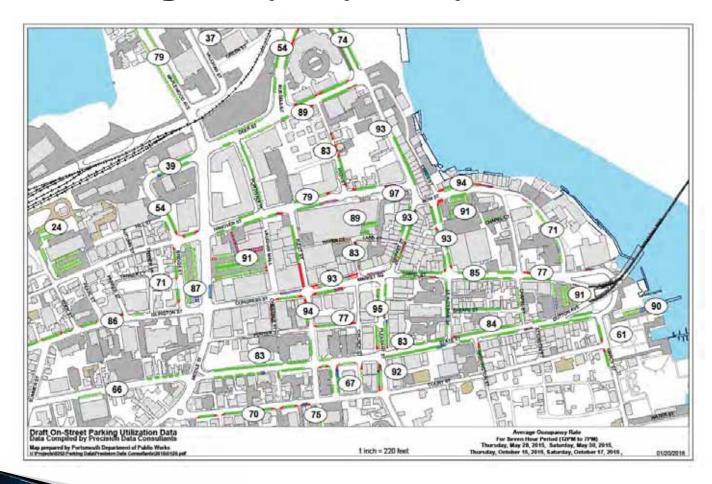
Street/Lot	Segment	Thursday	Thursday	Saturday	Saturday	2015	2014	Current
	, and the second	(5/28/15)	(10/15/15)	(5/30/15)	(10/17/15)	4-day Avg.	4-day Avg.	<b>Hourly Rate</b>
Market St.	Deer to Hanover	93.9	84.3	95.9	99.0	93.3	90.0	\$1.75
Market St.	Hanover to Market Sq.		92.5	95.5	92.5	93.5*	93.0	\$1.75
Congress St.	Market Sq. to Chestnut	87.5	92.3	91.7	100.0	92.9	90.8	\$1.75
Pleasant St.	Market Sq. to State	90.1	99.1	88.8	100.0	94.6	86.2	\$1.75
Pleasant St.	State to Court	85.7	93.9	93.9	95.9	92.3	79.9	\$1.75
Bow St.	Market to Chapel	94.0	91.0	100.0	91.7	94.2	85.0	\$1.75
Daniel St.	Market Sq. to Chapel	81.9	90.0	80.8	87.8	85.0	82.4	\$1.75
Hanover St. Lot	Parking Lot	96.1	93.5	98.7	98.7	96.8	94.4	\$1.75
Penhallow St.	Bow to State	90.8	90.8	90.3	98.6	92.6	90.0	\$1.75
Chapel St.**	Daniel to State						109.2	\$1.75
Fleet St.	Hanover to State	87.4	100.8	84.9	102.5	93.9	91.0	\$1.75
Deer St.	Market to Maplewood	76.8	88.5	90.0	99.5	88.7	89.3	\$1.75
Bow St.	Chapel to Daniel	66.1	73.2	67.8	78.6	71.4	65.6	\$1.25
Daniel St.	Chapel to Bow	73.0	92.1	50.8	92.1	77.0	75.4	\$1.25
State St.	Fleet to Penhallow	83.0	76.6	80.9	92.1	83.2	82.5	\$1.25
State St.	Penhallow to Marcy	69.9	85.4	83.3	96.8	83.8	75.9	\$1.25
Wright Ave. Lot	Parking Lot	88.9	87.6	90.8	97.7	91.2	79.0	\$1.25
Marcy St.	Court to State	10.7	66.1	82.1	85.7	61.2	68.4*	\$1.25
Market St.	Russell to Deer	62.8	72.4	70.4	89.8	73.8	67.6	\$1.25
Russell St.	Market to Deer	44.6	51.0	34.5	87.6	54.4	62.2	\$1.25
Hanover St.	Market to Maplewood	61.6	83.6	78.0	90.6	78.5	81.7	\$1.25
High St.	Hanover to Deer	71.4	76.6	90.9	93.5	83.1	81.8	\$1.25
High St.	Congress to Haven Ct.	97.1	80.0	71.4	82.8	82.8	83.6	\$1.25
Ladd St. Lot	Parking Lot	83.3	90.5	88.1	94.0	89.0		\$1.25
Worth Lot	Parking Lot	87.3	88.6	94.4	100.0	91.3	80.3	\$1.25
Bridge Lot	Parking Lot	61.9	94.6	88.4	100.0	86.7	80.8	\$1.25
Porter St.	Pleasant to Fleet	73.2	62.5	89.3	82.1	76.8	81.7	\$1.25
State St.	Fleet to Middle	66.7	97.8	70.0	97.8	83.1	75.2	\$1.25

## IV. Parking Occupancy Survey/Rates

## 2014/2015 Average 4-Day Parking Occupancy Rates May/Oct., Noon to 7:00 p.m.

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Street/Lot	Segment	Thursday	Thursday	Saturday	Saturday	2015	2014	Current
		(5/28/15)	(10/15/15)	(5/30/15)	(10/17/15)	4-day Avg.	4-day Avg.	<b>Hourly Rate</b>
Court Place	State to Court	78.6	72.5	58.9	59.3	67.3	72.4	\$1.25
Fire Station Lot	Parking Lot	74.7	76.2	74.7	74.7	75.1	72.8*	\$1.25
Vaughn St. Lot	Parking Lot	5.6	21.3	44.9	76.7	37.1		\$1.25
Bridge	Hanover to Islington	61.9	66.7	66.7	90.5	71.4	72.3	\$1.25
Court	Fleet to Middle	72.3	83.0	58.9	67.2	70.4	56.3	\$1.25
Deer	Maplewood to Bridge	14.3	36.4	7.1	59.5	39.1	12.1	\$1.25
Bridge	Deer to Hanover	30.2	63.5	28.6	93.6	54.0	38.4	\$1.25
Hanover**	Maplewood to Bridge						28.6	\$1.25
S. Mill Pond Lot	Parking Lot	87.7	88.0	46.1	47.9	67.4		FREE
Parrott Ave. Lot	Parking Lot	98.1	99.7	99.7	99.1	99.2		FREE
Parrott Avenue	Junkins to Richards	81.5	86.5	79.5	94.3	85.4		FREE
Masonic Lot	Parking Lot	69.2	51.3	60.3	69.9	62.7		FREE
Middle Street	Court to Summer	67.4	67.3	55.4	47.6	59.4		FREE
Prescott Park Lot	Parking Lot	78.6	94.3	92.8	95.7	90.4		FREE
State Street	Middle to Summer	66.9	62.3	65.0	71.0	66.3		FREE/Meter
Rock Street Lot	Parking Lot (weekends)			18.0	31.0	24.5		FREE
Islington Street	Bridge to Summer	86.7	80.2	81.4	97.3	86.4		FREE
Maplewood Ave.	Raynes to Vaughn	73.8	83.6	70.1	90.4	79.4		FREE/Meter
McIntyre Lot	Parking Lot (weekends)			93.9	87.9	90.9		FREE
CCC Lot	Parking Lot	9.8	13.2	45.0	31.8	25.0		FREE
		Pea	k-Hour Count	in Parking Ga	rage			
High-Hanover	Parking Garage(900sp.)	766	831	899	809	826.2		\$1.25
Count conducted		(1–2pm)	(1-2pm)	(5-6pm)	(5-6pm)			
between:  Garage reported full by City at:		Did not fill	12:50 pm	6:30 pm	5:30 pm			

## IV. Parking Occupancy Survey/Rates



#### IV. Parking Occupancy Survey - Findings

- ➤ 2015 parking occupancy rates have increased from the 2014 survey. However, the full impact of the \$0.25/hr. rate increase of Sept. 2015 on parker behavior/use is not captured by the 2015 occupancy survey.
- City's shortage of long-term parking is evident
  - HHPF (900 spaces) continues to fill and close routinely
  - Parrott Ave. & Lot (300+/- spaces combined) at eff. capacity
  - Vaughan St., Raynes Ave. & Maplewood Ave. (100+/- spaces combined) at eff. capacity
  - Very few available long-term parking spaces (free or paid) within a 5-min. walk of Market Square.
- All HOM Zone streets are either at or exceeding the 4day average occupancy rate of 85%

### IV. Parking Occupancy Survey - Findings

- None of the standard meter zone street segments exceed the 4-day average occupancy rate of 85%
  - However, the Bridge St. Lot (86.7%), Worth/Maplewood Lot (91.3%) and Wright Ave./Memorial Bridge Lot did (91.2%)
- Only one metered street segment and one metered lot were underutilized (below 40% use)
  - Deer Street Maplewood Ave. to Bridge St. (39.1%)
  - Vaughan St. Lot (37.1%)
- ➤ The following free lots and street segments exceeded the 4-day average occupancy rate of 85%
  - Parrott Ave. Lot (99.2%)
     McIntyre Lot (90.9%)
     Sat.
  - Parrott Ave. Junkins Ave. to Richards Ave. (85.4%)
  - Islington St. Bridge St. to Summer St. (86.4%)
    - Prescott Park Lot (90.4%)

## IV. Parking Occupancy Survey - Seasonality Peak Summer vs. Shoulder Months

Comparison of Avg. Peak (July) vs. Off-Peak (May/Oct.)

Streets/Lots	May/Oct. 2015	July 2015
HOM Zone	90.1	92.4
Standard Meter Zone	72.2	81.5
Unmetered/Free Areas	82.0	86.7
Avg. Total	80.0	85.8

- ➤ Total average use of the entire public parking supply in July exceeds 85% effective capacity.
- > Peak spreading is evident.
- ➤ The highest priced parking zone has the highest use. The free parking areas on the fringe of downtown has higher use than the moderately-priced, standard meter zone.

#### V. Duration-of-Stay/Turnover Survey

Duration of Stay - amt. of time a car parks at a given space

<u>Turnover</u> - # of unique cars that park in a given space over a specified time period.

<u>Time-Limit Non-Compliance</u> – % of cars parked in excess of posted time limits; and # moved to another parking space on the same block-face to avoid receiving a ticket.

These rates are useful in determining parking efficiency and the effectiveness of parking time limits and enforcement.

#### V. Duration-of-Stay/Turnover Survey - Findings

#### **Duration of Stay**

- Overall avg. duration-of-stay (1 hour, 34 minutes) within typical range found in mixed-use, downtown retail districts.
- All streets had average stays well within their posted time limits with the exception of the 2-hour zone on Islington St. between Bridge and Summer St.

#### **Turnover Rates**

Highest turnover rates in retail areas leading into and through Market Square. Lowest rates at edge of paid parking areas.

#### Compliance to Posted Time Limits

- Avg. % of vehicles exceeding time limits is quite low (3.9%) with exception of Islington St. – Bridge to Summer St. (13.1%) and Fleet Street – State to Congress (9.5%)
- Very little employee/merchant "shuffling" of cars was observed.

#### V. Duration-of-Stay/Turnover Survey

#### **Summary Findings**

"Overall, the street segments surveyed exhibited healthy levels of turnover with a relatively low number of time limit violations despite extremely high average occupancy levels and a shortage of long-term parking. These measures are an indication of consistent enforcement and appropriate rates. By extending on-street time limits from 2 hours to 3 hours, the City was able to reduce the number of time-zone citations issued without driving turnover rates out of an acceptable range."

#### VI. Study Recommendations

- With future rate adjustments, consider widening the pricing gap between the HOM Zone (\$1.75/hr.) and standard meter zone (\$1.25/hr.) to incentive parkers to use lower-cost parking outside of the HOM Zone.
- Change time limits on Deer & Russell Streets from 4 to 3 hours
- Meter Islington St. between Bridge and Summer Streets and change 2-hour time limit on Islington St. and 4-hour time limit on Bridge St. to 3 hours for consistency
- Replace all remaining coin-only parking meters with credit card-enabled meters in the \$1.25 meter zone
- Eliminate the six parking meters on outer State St. just east of Summer Street.

#### VI. Study Recommendations

- Offer discounted monthly parking in the underutilized 90space Vaughan St. Lot and install 3-hour metered parking on the 90+ on-street spaces on Vaughan St., Raynes Ave., and Maplewood Ave. that are being primarily used for all-day employee parking.
- Continue to actively promote the limited available long-term parking that exists in the South Mill Pond and Masonic Parking Lots and on outer State and Middle Street.
- Continue to investigate the feasibility of implementing a more dynamic, demand-based pricing system.

## QUESTIONS/DISCUSSION