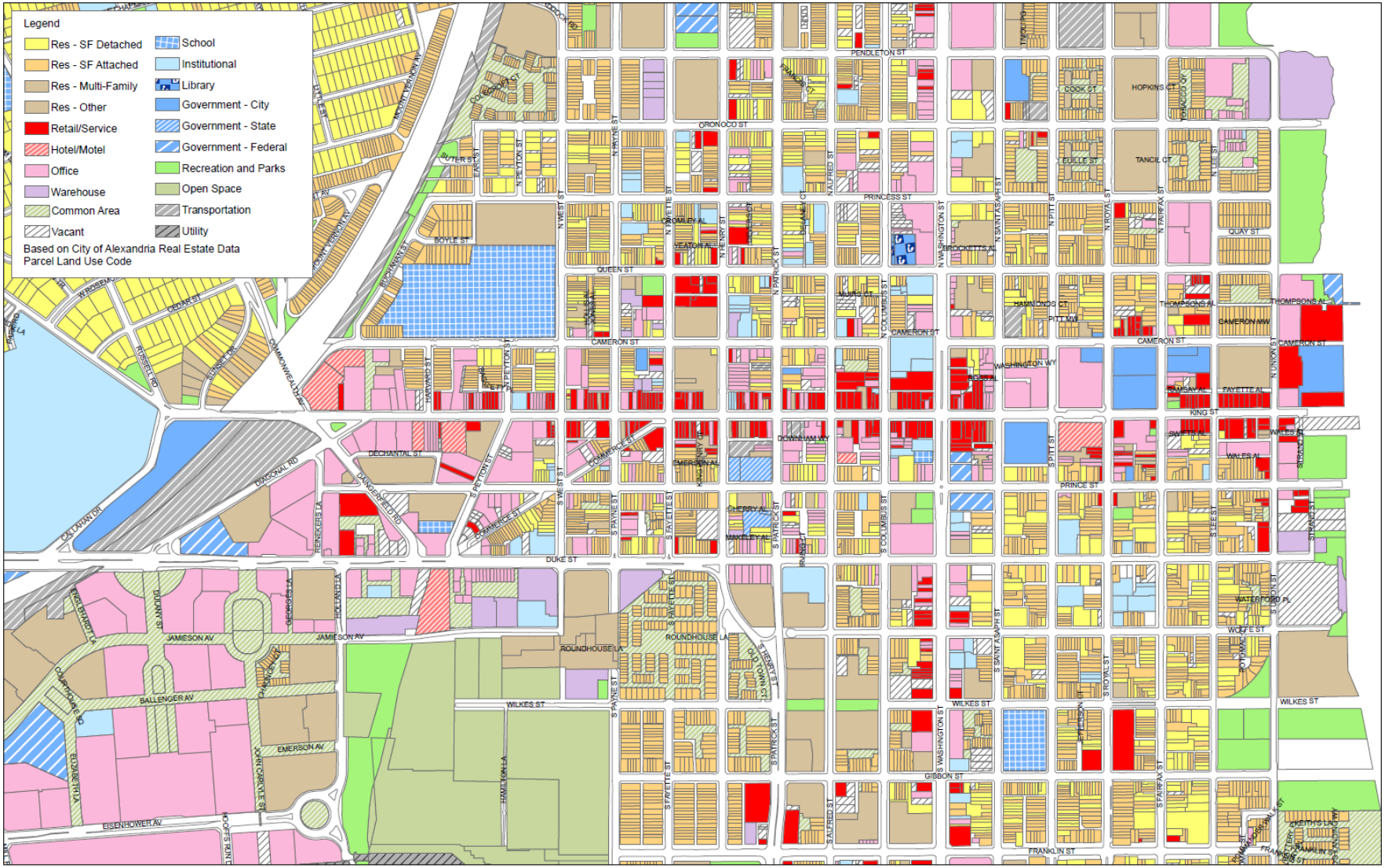
Old Town Area Parking Study Work Group
Background Data
As of April 24, 2015

Page #	Data Request for Old Town Area Parking Study	Status
2	Land uses in Old Town	Complete
3-4	Wayfinding Plan Implementation	Complete
5-6	Vehicle Ownership	Complete
7	Residential Parking Permits Issued by Household Yearly Comparison	Complete
8	Residential Parking Restrictions	Complete
9	Residential Parking Restrictions End Time	Complete
10	Metered and Non-metered Parking Occupancy, East and West of Alfred Street	Complete
11	Single Space and Multispace Meter Parking	Complete
12	Pango Report	Complete
13-15	Garage Rate Comparison	Complete
16	Locations of Garages	Complete
17	Summary of Garage Occupancy - ***New***	Complete
18	Garage Occupancies after Removal of the Strand Parking Lot – ***New***	Complete
19	Number of Employees	Complete
20	Parking Violations	Complete
21	Meter Charges and Ticket Fines Comparison	Complete
22	Gross Sales Receipts for Businesses on King Street	Complete
23	Metered and Non-Metered Occupancy Comparison	Complete
24	Meter Revenue in Old Town, FY 2009 – FY 2014	Complete
25	King Street Metrorail Station Plan	Complete
26	Revenue from Parking Enforcement- ***New***	Complete
27	Parking Spaces provided by approved Waterfront development since 2012 - ***New***	Complete
28	Number of On-Street Parking Spaces Lost in OTAP Study Area since 2010 - ***New***	Complete
29	Number of Parking Spaces Added for People with Mobility Issues Added since 2010 - ***New***	Complete

Land Uses in Old Town



Wayfinding Plan Implementation

City of Alexandria, Virginia | Community Development

Transportation Signage and Wayfinding System

Document Subsection: City-Wide Amenities
Managing Department: Transportation & Environmental Services
Supporting Department(s): Planning & Zoning
ORG: 43301599

Project Location: Citywide
Reporting Area: Citywide
Project Category/Priority: 3 – New Facilities
Estimated Useful Life: Varies

Transportation Signage & Wayfinding System

	A (B+M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	*Through FY 2015*	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total FY 2016-2025
Expenditure Budget	2,869,000	*1,120,000*	0	200,000	515,000	361,000	432,000	241,000	0	0	0	0	1,749,000
Financing Plan													
Prior City Funding	1,120,000	*1,120,000*	0	0	0	0	0	0	0	0	0	0	0
Cash Capital	1,749,000	*0*	0	200,000	515,000	361,000	432,000	241,000	0	0	0	0	1,749,000
Total Financing Plan	2,869,000	*1,120,000*	0	200,000	515,000	361,000	432,000	241,000	0	0	0	0	1,749,000
Additional Operating Impact													
Annual Impact			0	0	0	0	0	25,000	25,750	26,523	27,318	28,138	132,728
Cumulative Impact			0	0	0	0	0	25,000	50,750	77,273	104,591	132,728	132,728

Changes from Prior Year CIP: Planned funding for FY 2016 - 2020 in last year's CIP was moved back to FY 2017 - 2021 based on prior year balances available to completed FY 2016 initiatives. No other changes from prior year CIP.

Project Description & Justification

This project provides for the comprehensive design of a signage, wayfinding, and identity system that will project a consistent image for the entire City, reduce clutter, promote walking and mass transit, and be sustainable and expandable. A well-designed and implemented wayfinding program will increase identification of key sites and attractions, including parking, and support the City's goals of orienting and informing visitors and residents, motivating them to visit historic sites, and making the navigation of the City easier.

Work sessions with the City Council, Planning Commission, and the Board of Architectural Review were held in January 2009. The design phase of this project was approved in FY 2010. Implementation began in FY 2011 with Phase 1, and remaining phases, occurring over time as funding becomes available. Implementation involves the fabrication and installation of the wayfinding signs and will be coordinated with the implementation of the Braddock Road, King Street, Mt. Vernon Avenue, Arlandria, Waterfront, Beauregard, Potomac Yard, and Landmark/Van Dorn plans. In order to distribute the cost of the wayfinding program over multiple years, a phased approach is recommended for implementation.

The completed and planned project implementation schedule, including estimated cost and timeline for completion, is provided on the next page.

City's Strategic Plan & Budget Guidance

Primary Strategic Plan Goal: Goal 1 – Economic Development

Focus Area: Livable, Green, & Prospering City

- Promote neighborhoods that are amenity-rich
- Promote an attractive urban environment that reflects our history and provides well-functioning infrastructure
- Increase the economic benefits of tourism to the City
- Ensure Alexandria supports, retains, and attracts businesses
- Increase transportation system mobility, connectivity, and accessibility that supports the City's economy

External or Internal Adopted Plan or Recommendation

- City of Alexandria Wayfinding System Design Guidelines Manual approved by the Planning Commission, September 2010

Additional Operating Budget Impact

As part of the FY 2015 Operating Budget, a 0.5 FTE position was added in T&ES to support this, and other, transportation related projects, paid through the TIP. Those costs are now part of the FY 2016 operating budget and not reflected in the table above. Beginning FY 2021, $25,000 is planned annually to replace signs and kiosks on an as-needed basis through General Fund sources.

Wayfinding Plan Implementation

Transportation Signage and Wayfinding System (Continued)

Phase 1 - Parking signs in Old Town ($100,000, FY 2010) – Completed

Phase 2 - Old Town visitor kiosks, pedestrian pointers ($295,000, FY 2013) – Planning complete; fabrication and installation in late summer 2015

Phase 3a - Vehicular signs for primary routes ($225,000, FY 2014 –FY 2016) – Currently in planning phase; fabrication and installation in spring 2016

Phase 3b – Metro station visitor kiosks, highway signs, freestanding interpretive panels ($200,000, FY 2017)

Phase 4 - City gateways, parking signs (non-Old Town), vehicular signs for secondary routes, shared use trail signs, destination identification signs ($515,000, FY 2018)

Phase 5 - Destination Identification signs (City attractions/parks/civic-double post), vehicular signs for secondary routes ($361,000, FY 2019)

Phase 6 - Destination Identification signs (City parks/civic-single post), pedestrian mini kiosks and pointers (Waterfront and non-Old Town), interpretive ground plane medallions ($432,000, FY 2020)

Phase 7 - Interpretive panels and two-sided kiosks (Waterfront), district markers ($241,000, FY 2021)

Vehicle Ownership

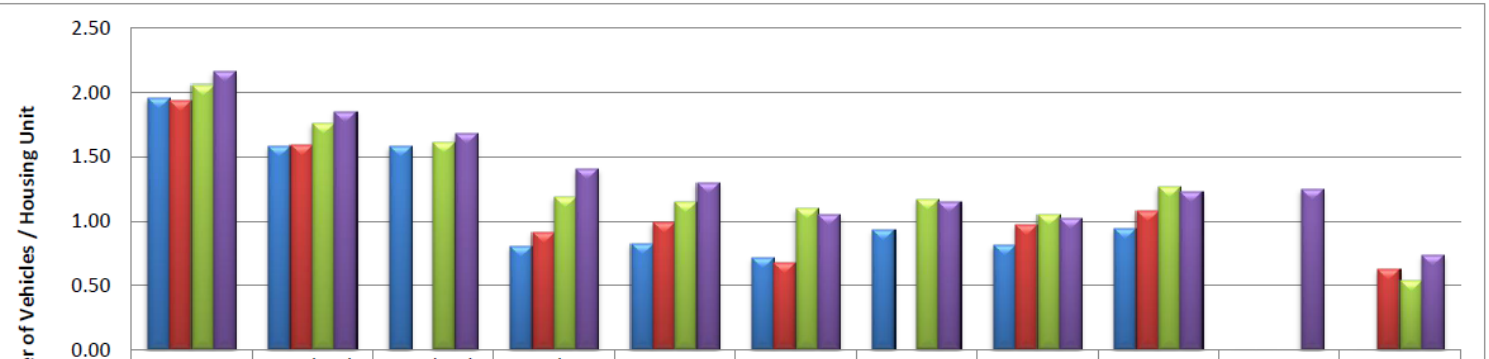
Vehicle Ownership by Residential Housing Type and Proximity to Metro

The purpose of this project was to gain a better understanding of residential parking needs and, therefore, better inform policy decisions by analyzing current vehicle ownership and, in the future, vehicle ownership trends.

For this study, vehicle ownership and parking need is expressed as the ratio between the number of vehicles owned to the number of housing units. Residential units were classified into 44 subcategories by housing type and proximity to Metro, which are thought to be closely correlated with auto ownership.

Analysis highlights

- *Highest and lowest vehicle generators:* Detached houses had the highest number of vehicles per unit, at an average of 2.11; while Mid Rise Apartments had the lowest, at an average 1.01 vehicles per unit. (Because of their unique nature, ARHA-managed properties were looked as their own class, regardless of actual structure type. However, they were lower than mid-rise apartments at an average of 0.60 vehicles per unit).
- *Proximity to Metro*: The average number of vehicles per unit "greater than 1 mile from Metro" was 32.7% higher than the average number of vehicles per unit "within ¼ mile of Metro".
- *Multifamily condominiums vs. apartments:* Multifamily units classified as condominium had slightly more (8.54%) vehicles per household than those classified as apartment.



	Detached 9,025 Units	Duplex / Townhouse 12,476 Units	Duplex / Townhouse Condos 1,491 Units	Garden Apartment 12,121 Units	Garden Condo 6,680 Units	High Rise Apartment 9,868 Units	High Rise Condo 6,711 Units	Mid Rise Apartment 8,115 Units	Mid Rise Condo 4,621 Units	Co-op 335 Units	ARHA 771 Units
1/4 Mile	1.96	1.58	1.58	0.80	0.82	0.71	0.93	0.81	0.94	0.00	0.00
1/2 Mile	1.94	1.59	0.00	0.91	0.99	0.68	0.00	0.97	1.08	0.00	0.63
1 Mile	2.06	1.76	1.61	1.18	1.15	1.10	1.17	1.05	1.27	0.00	0.54
Over 1 Mile	2.16	1.85	1.68	1.41	1.29	1.05	1.15	1.02	1.23	1.24	0.74

Vehicle Ownership

Methodology

Each structure in the City was classified by residential structure type, ownership (where applicable) and straight line distance to the nearest Metro.

Structure Type

- Detached
- Duplex / Townhouse
- Garden
- Mid Rise Apartment
- High Rise

Ownership

- Apartment
- Condominium
- Cooperative
- ARHA

Proximity to Metro

- Less than ¼ Mile
- Greater than ¼ mile less than ½ mile
- Greater than ½ mile less than 1 mile
- Greater than 1 mile

The 2011 personal property tax file containing only the total number of active vehicle counts at each unique property address (excluding boats & trailers) was provided by the Finance Department. This file contained a total count of 106,294 vehicles. Of these 105,347 could be matched within the City's GIS to a structure. Using a geoprocessing model, each vehicle was associated with the above property characteristics. 5,676 were matched to a structure containing exclusively non-residential uses and were not considered in the analysis. The 947 vehicles* which could not be matched were not included in the analysis. The remaining 99,671 vehicles were matched to 72,214 residential units in 24,028 structures. 84 of these structures also included some use other than residential; no additional processing was done for these the structures and all vehicles were attributed to the residential units.

Notes

- No result was reported for study categories with fewer than 100 housing units. These have a value of 0.00 in the table above (i.e. Townhouse Condos within ½ mile of Metro).
- Although the analysis shows that access to transit is correlated with the number of vehicles owned, no other transit or alternative transportation opportunities were evaluated.
- Proximity to Metro assumed the ability to walk to Metro, but the analysis used straight line buffers, not walking sheds
- Other factors which might influence vehicle ownership decisions such as availability of parking or proximity to other amenities such as grocery stores, recreation centers, medical offices etc. were not evaluated.
- 525 of 21,841 detached homes and townhouses were attributed more than 5 vehicles. These were included in the analysis. Elimination of the abnormally high numbers or reducing them to an arbitrary, but reasonable number would likely slightly reduce the ratio for these structure types. It is not known if this was the case with multifamily units. Due to inconsistencies in the formatting of unit numbers, multifamily unit numbers were removed before summarizing data to the exterior entrance address. Therefore, all initial vehicle counts for these building included multiple housing units.

  * Of the 947 addresses that could not be matched to Alexandria's GIS, 355 were found to be in neighboring jurisdictions, 170 had incomplete or non-existent street numbers and 422 require further research.

Residential Parking Permits Issued by Household

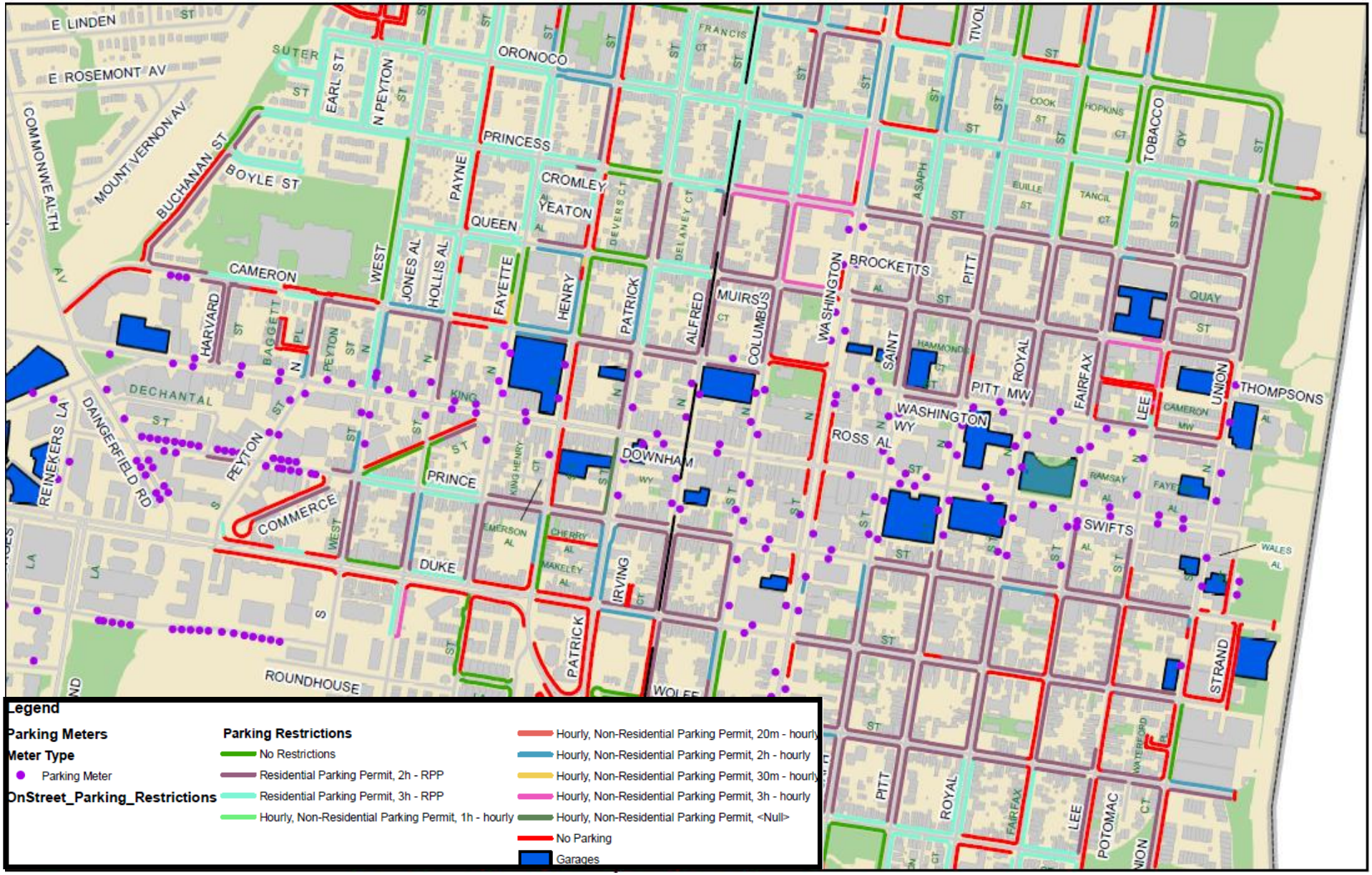
Residential Permits Issued by Household in 2011

District #	Number of Housholds with a permit in 2011						Total # of HH with permits	Total # of permits
	1 Permit Per HH	2 Permits Per HH	3 Permit Per HH	4 Permit Per HH	5 Permit Per HH	6 Permit Per HH		
1	1,031	553	147	36	8	2	**1,777**	**2,774**
2	489	257	40	19	2	0	**807**	**1,209**
3	347	146	30	7	1	0	**531**	**762**
4	620	255	45	10	0	0	**930**	**1,305**
5	549	190	45	8	2	0	**794**	**1,106**
Total	**3,036**	**1,401**	**307**	**80**	**13**	**2**	**4,839**	**7,156**

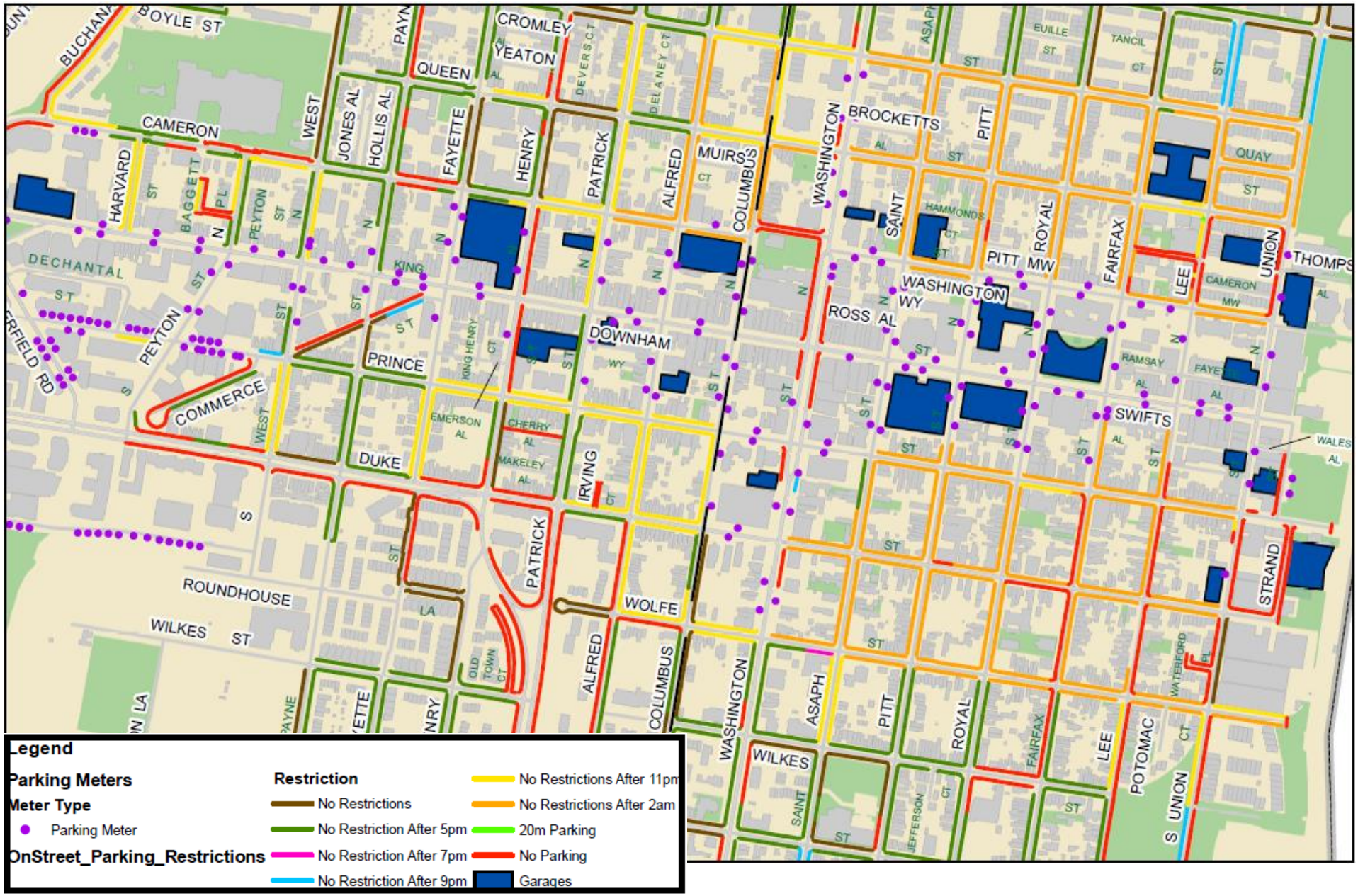
Residential Permits Issued by Household in 2014

District #	Number of Housholds with a permit in 2014						Total # of HH with permits	Total # of permits
	1 Permit Per HH	2 Permits Per HH	3 Permit Per HH	4 Permit Per HH	5 Permit Per HH	6 Permit Per HH		
1	1,096	529	112	22	1	0	**1,760**	**2,583**
2	491	229	47	11	1	0	**779**	**1,139**
3	364	148	32	4	0	0	**548**	**772**
4	620	213	35	3	1	0	**872**	**1,168**
5	517	182	31	3	2	1	**736**	**1,002**
Total	**3,088**	**1,301**	**257**	**43**	**5**	**1**	**4,695**	**6,664**

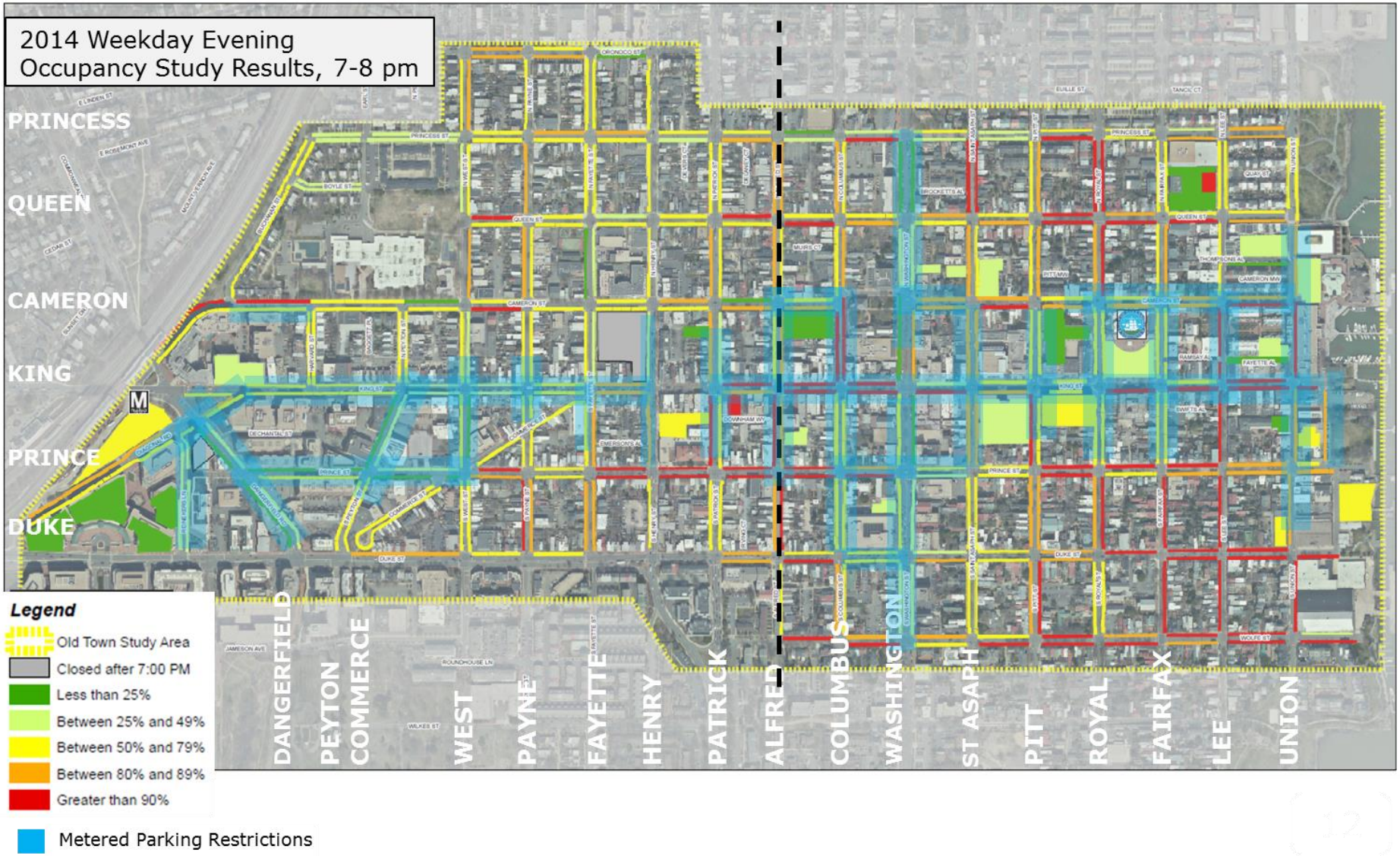
Residential Parking Restrictions



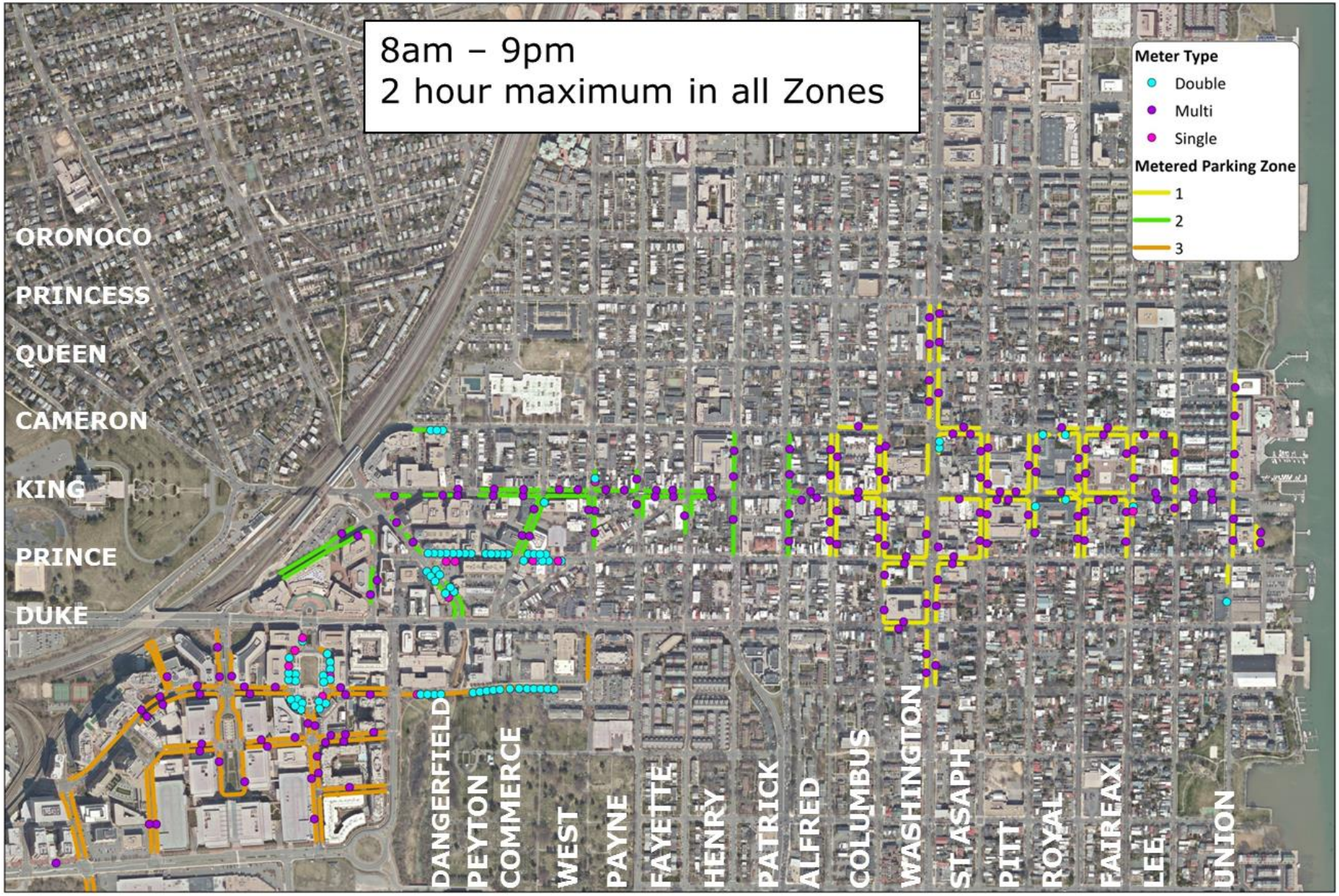
Residential Parking Restrictions Restriction End Time



Metered and Non-metered Parking Occupancy, East and West of Alfred Street

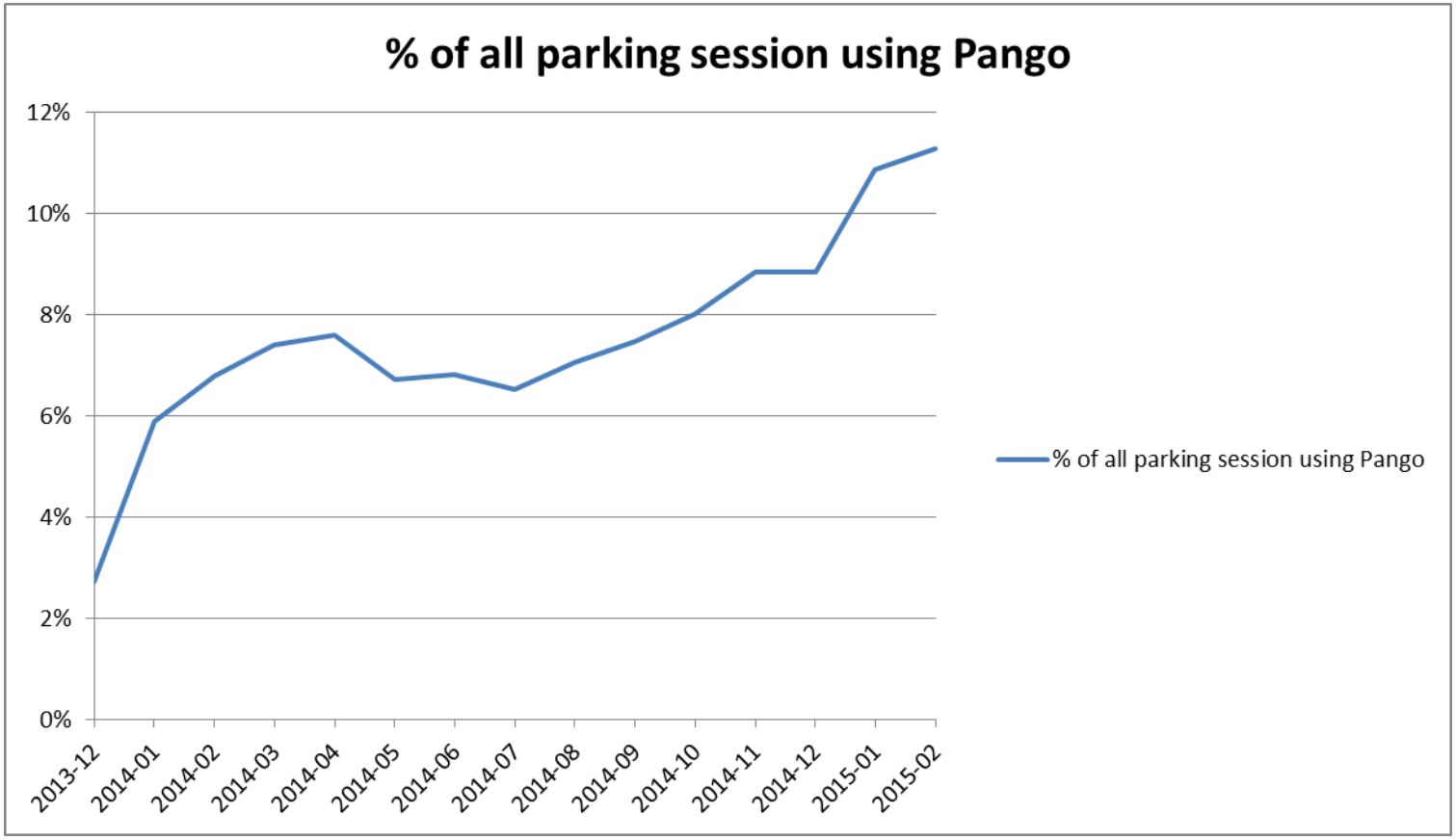


Single Space and Multispace Meter Parking



Pango Report

	December 2013	January 2014	February 2014	March 2014	April 2014	May 2014	June 2014	July 2014	August 2014	September 2014	October 2014	November 2014	December 2014	January 2015	February 2015
Pango Sessions	2,883	5,376	6,116	7,845	8,897	8,074	7,782	8,375	9,298	9,745	11,014	9,855	11,241	12,082	11,487
Total Parking Meter Sessions	103,035	86,070	83,936	98,085	108,132	112,122	106,540	120,158	122,293	120,736	126,561	101,475	115,712	98,972	90,330
Pango Adoption Rate	**2.72%**	**5.88%**	**6.79%**	**7.41%**	**7.60%**	**6.72%**	**6.81%**	**6.52%**	**7.07%**	**7.47%**	**8.01%**	**8.85%**	**8.85%**	**10.88%**	**11.28%**



Garage Rates Comparison

2009 Rates																		
					Hours					Cost (Dollars)								
										Weekday Daytime		Weekday Night-time		Weekend				
Garage # (Map)	Garage Name	Access Point	Garage Address	Operator	M	Tu-Th	F	Sa	Su	1st Hour	Max	1st Hour	Max	1st Hour	Max	Spaces	Comments	Public/Private
G1	Solo Garage	225 S. Union St	101 Duke St	Solo Parking	9AM-11PM					$5.00 Flat Rate						25		Privately Owned
G2	115 S. Union Garage	115 S. Union St (alley)	115 S. Union St	Cental Parking	9:30AM-1AM			9:30AM-8PM		$9.00 Flat Rate		$7.00 Flat Rate		$7.00 Flat Rate		68		Privately Owned
G3	Torpedo Plant Condo Garage	102 N. Union St	102 N. Union St	Colonial Parking	7AM-1AM		7AM-3AM	8AM-3AM	8AM-12AM	$5.00	$10.00	$5.00/ $6.00 Fri	$10.00/ $12.00 Fri	$5.00/ $6.00 Sat after 5PM	$10.00/ $12.00 Sat after 5PM	361		Privately Owned
G4	Thompson's Alley Garage	10 Thompson's Alley	5 Cameron St	Republic Parking	8AM-11PM			9AM-11PM	10AM-10PM	$2.00	$8.00	$1.50 / $2.25 Fri after 5PM	$3 / $4.50 Fri after 5PM	$1.50 / $2.25 Sat after 5PM	$3 / $4.50 Sat after 5PM	98		City Owned
G5	N. Union St Garage	220 N. Union St	221 N. Lee St	Republic Parking	7AM-1AM		7AM-2:30AM		10AM-1AM	$3.00	$8.00	$2.00	$4.00	$2.00	$4.00	175		City Owned
G6	Market Square Garage	108 N. Fairfax St	108 N. Fairfax St	Republic Parking	7AM-1AM		7AM-2:30AM		10AM-1AM	$2.00	$8.00	$0.50 / $1.00 Fri	$2.00	$1.00 / $0.50 Sun after 5PM	$2.00	107		City Owned
G7	Tavern Square Garage	418 Cameron St	411 King St	Cental Parking	6AM-9:30PM		6AM-11PM	8AM-11PM	Closed	$6.00	$10.00	$6.00 Flat Rate				164	Early Bird $8/day	Privately Owned
G8	Courthouse Square Garage	111 S. Pitt St	520 King St	Republic Parking	7AM-3AM				9AM-1AM	$2.00	$8.00	$0.50 / $1.00 Fri	$2.00	$1.00 / $0.50 Sun after 5PM	$2.00	289		City Owned
G9	N. Alfred St. Garage	115 N. Alfred St	119 N. Alfred St	Lawrence & Brandt, Inc.	7AM-11PM		7AM-1AM	8AM-1AM	Closed	$4.00	$15.00	$7.00	$15.00	$4.00	$15.00	220		Privately Owned
G10	PNC Bank Garage	1700 Diagonal Road	1600 Diagonal Road	Landmark Parking	7AM-6:30PM			Closed		$14.00						102		Privately Owned
G11	King St Station / Embassy Suites Garage	1900 Diagonal Road	1900 Diagonal Road	Colonial Parking	6AM-1AM					$6.00	$12.00	$6.00 Flat Rate				831		Privately Owned
G11	King St Station / Embassy Suites Garage	1950 Diagonal Road	1950 Diagonal Road	Colonial Parking	6AM-1AM					$6.00	$12.00	$6.00 Flat Rate						Privately Owned
G11	King St Station / Embassy Suites Garage	225 Reinekers Lane	225 Reinekers Lane	Colonial Parking	6AM-1AM					$6.00	$12.00	$6.00 Flat Rate						Privately Owned
G11	King St Station / Embassy Suites Garage	1725 Duke St	1725 Duke St	Colonial Parking	6AM-1AM					$6.00	$12.00	$6.00 Flat Rate						Privately Owned
G12	Altman's Garage	110 S. Union St	108 S. Union St	Altman's Parking	Closed	6PM - 12 AM Wed-Thurs	5:30PM-1AM	9:30AM-1AM	9:30AM-8PM	$7 flate rate						59		Privately Owned
G13	Hotel Monaco Garage	100 Blk S. Pitt (480 King St)	480 King St	Hotel Monaco	24/7					$10.00						174	Valet $10/day - $24 overnight- (pay at front desk)	Privately Owned
G14	Morrison House Hotel Garage	116 S Alfred St	116 S Alfred St	Morrison House hotel	24/7					$10.00						54	Valet parking only- $24 overnight	Privately Owned
G15	1120 Cameron St Garage	1120 Cameron St	1101 King St	Landmark Parking	7AM-7PM			Closed		$6.00	$14.00					472		Privately Owned
G16	Hilton Old Town Garage	1737 King St	1747 King St	Town Park	7AM-12AM					$6.00	$14.00	$6.00	$14.00	$6.00	$14.00	288		Privately Owned

Garage Rates Comparison

2014 Rates																		
					Hours					Cost (Dollars)								
										Weekday Daytime		Weekday Night-time		Weekend				
Garage # (Map)	Garage Name	Access Point	Garage Address	Operator	M	Tu-Th	F	Sa	Su	1st Hour	Max	1st Hour	Max	1st Hour	Max	Spaces	Comments	Public/Private
G1	Solo Garage	225 S. Union St	101 Duke St	Solo Parking	9 AM-9 PM	9AM-11PM			9 AM-9 PM	$7.00						25		Privately Owned
G2	115 S. Union Garage	115 S. Union St (alley)	115 S. Union St	Central Parking	24/7					$9.00	$12.00	$9.00	$12.00	$9.00	$12.00	68		Privately Owned
G3	Torpedo Plant Condo Garage	102 N. Union St	102 N. Union St	Colonial Parking	7AM-1AM		7AM-3AM	8AM-3AM	8AM-12AM	$6.00	$11.00	$7.00	$13.00	$6.00	$11.00	369		Privately Owned
G4	Thompson's Alley Garage	10 Thompson's Alley	5 Cameron St	Republic Parking	7AM-1AM	7AM-2:30AM			10AM-1AM	$2.50	$10.00	$2.00	$4.00	$2.00	$4.00	87		City Owned
G5	N. Union St Garage	220 N. Union St	221 N. Lee St	Republic Parking	7AM-1AM	7AM-2:30AM			10AM-1AM	$2.50	$10.00	$2.00	$4.00	$2.00	$4.00	175		City Owned
G6	Market Square Garage	108 N. Fairfax St	108 N. Fairfax St	Republic Parking	7AM-1AM	7AM-2:30AM			10AM-1AM	$2.50	$10.00	$2.00	$4.00	$2.00	$4.00	240		City Owned
G7	Tavern Square Garage	418 Cameron St	411 King St	Central Parking	7AM-9PM			10 AM-6PM	Closed	$8.00	$12.00	$5.00		$8.00	$12.00	286	Early Bird $8/day	Privately Owned
G8	Courthouse Square Garage	111 S. Pitt St	520 King St	Republic Parking	7AM-1AM	7AM-2:30AM			10AM-1AM	$2.50	$10.00	$2.00	$4.00	$2.00	$4.00	281		City Owned
G9	N. Alfred St. Garage	115 N. Alfred St	119 N. Alfred St	Lawrence & Brandt, Inc.	7AM-11PM	7AM-1AM			7AM-5PM	$5.00	$20.00	$7.00		$5.00	$20.00	220		Privately Owned
G10	PNC Bank Garage	1700 Diagonal Road	1600 Diagonal Road	Landmark Parking	7AM-7PM			Closed		$8.00	$14.00	$8.00	$14.00			127		Privately Owned
G11	King St Station / Embassy Suites Garage	1900 Diagonal Road	1900 Diagonal Road	Colonial Parking	6AM-1AM	6AM-2AM			6AM-1AM	$9.00	$19.00	$10.00				333		Privately Owned
G11	King St Station / Embassy Suites Garage	1950 Diagonal Road	1950 Diagonal Road	Colonial Parking	6AM-1AM	6AM-2AM			6AM-1AM	$9.00	$19.00	$10.00						Privately Owned
G11	King St Station / Embassy Suites Garage	225 Reinekers Lane	225 Reinekers Lane	Colonial Parking	6AM-1AM	6AM-2AM			6AM-1AM	$9.00	$19.00	$10.00						Privately Owned
G11	King St Station / Embassy Suites Garage	1725 Duke St	1725 Duke St	Colonial Parking	6AM-1AM	6AM-2AM			6AM-1AM	$9.00	$19.00	$10.00						Privately Owned
G12	Altman's Garage	110 S. Union St	108 S. Union St	Altman's Parking	6 PM-12 AM		5:30PM-1AM	9:30AM-1AM	9:30AM-8PM	$7 flate rate						62		Privately Owned
G13	Hotel Monaco Garage	100 Blk S. Pitt (480 King St)	480 King St	Hotel Monaco	24/7					$12.00	$27.00	$12.00	$27.00	$12.00	$27.00	174	Valet $10/day - $27 overnight- (pay at front desk)	Privately Owned
G14	Morrison House Hotel Garage	116 S Alfred St	116 S Alfred St	Morrison House hotel	24/7					$10.00	$25.00	$10.00	$25.00	$10.00	$25.00	74	Valet parking only- $25 overnight	Privately Owned
G15	1120 Cameron St Garage	1120 Cameron St	1101 King St	Landmark Parking	7AM-7PM			Closed		$6.00	$14.00					472		Privately Owned
G16	Hilton Old Town Garage	1737 King St	1747 King St	Town Park	7AM-12AM					$6.00	$14.00	$6.00	$14.00	$6.00	$14.00	484	$35 Overnight	Privately Owned

Garage Rates Comparison

Garage # (Map)	Garage Name	Access Point
G1	Solo Garage	225 S. Union St
G2	115 S Union Garage	115 S. Union St (alley)
G3	Torpedo Plant Condo Garage	102 N. Union St
G4	Thompson's Alley Garage	10 Thompson's Alley
G5	N. Union St Garage	220 N. Union St
G6	Market Square Garage	108 N. Fairfax St
G7	Tavern Square Garage	418 Cameron St
G8	Courthouse Square Garage	111 S. Pitt St
G9	N. Alfred St. Garage	115 N. Alfred St
G10	PNC Bank Garage	1700 Diagonal Road
G11	King St Station / Embassy Suites Garage	1900 Diagonal Road
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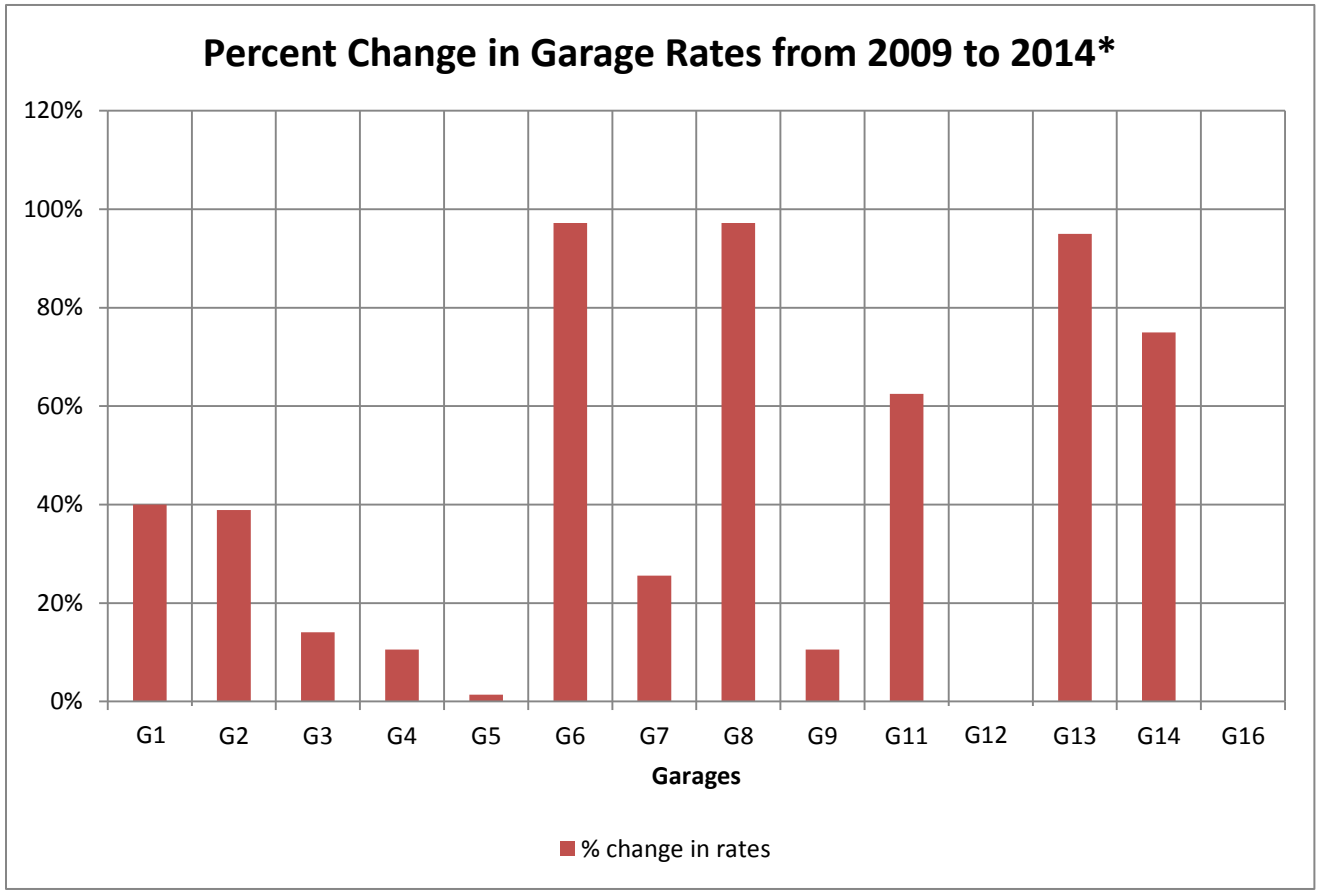
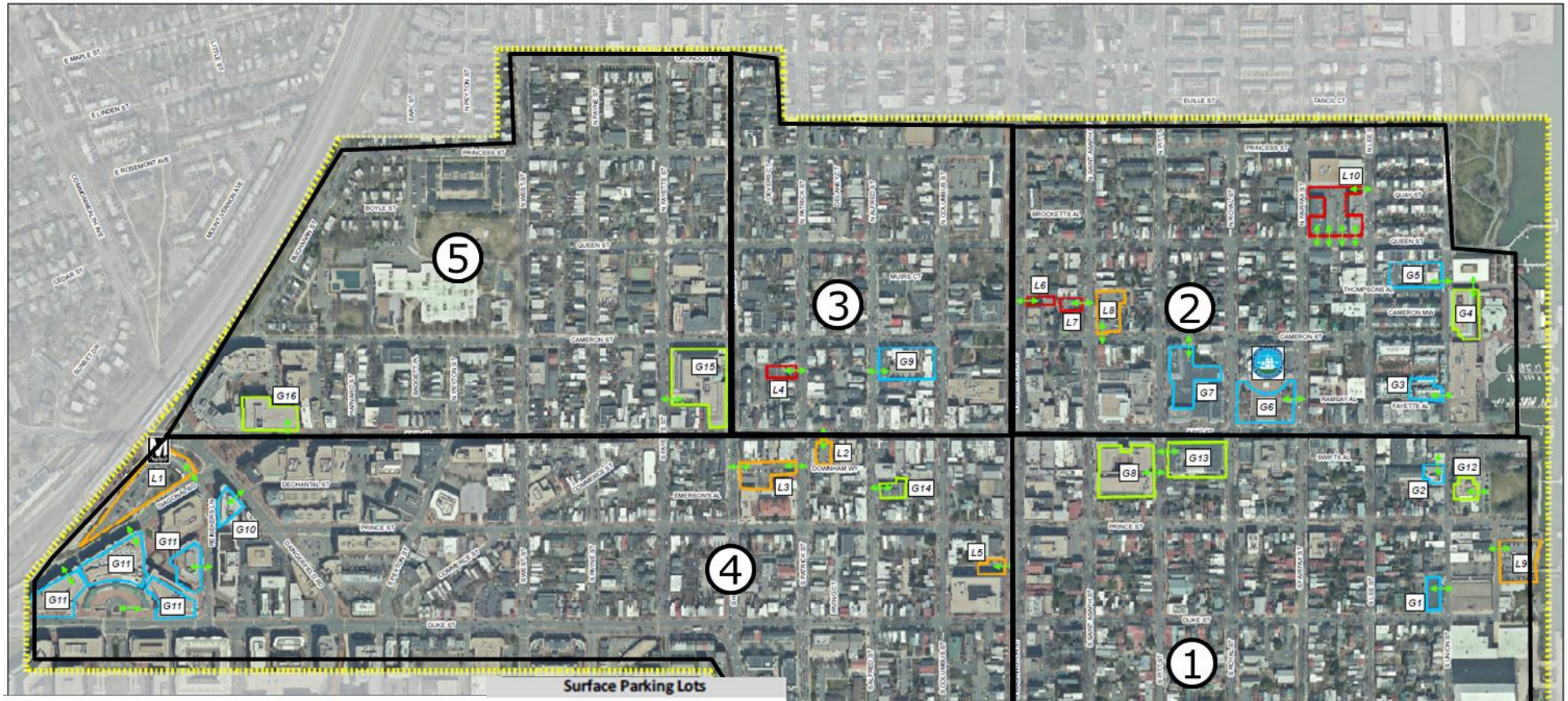
G11	King St Station / Embassy Suites Garage	1725 Duke St
G12	Altman's Garage	110 S. Union St
G13	Hotel Monaco Garage	100 Blk S. Pitt (480 King St)
G14	Morrison House Hotel Garage	116 S Alfred St
G15	1120 Cameron St Garage	1120 Cameron St
G16	Hilton Old Town Garage	1737 King St



**G12 and G16 did not have rate changes*

Garage Locations



Legend

- Public Surface Lot
- Public-Private Surface Lot
- Public Parking Garage
- Public-Private Parking Garage
- Old Town Study Area
- Entrance

Surface Parking Lots
1. King Street Metro Lot
2. King Street Metered Lot
3. South Henry Street Lot
4. North Patrick Street Lot
5. Lyceum Museum Lot
6. Military Officers Association Lot 1
7. Military Officers Association Lot 2
8. Cameron Street / St. Asaph Street Lot
9. The Strand Parking Lot
10. Altman's Lot

Parking Garages		
G1. Solo Garage	G6. Market Square Garage	G11. King Street Station / Embassy Suites Garage (1-4)
G2. 115 S. Union Garage	G7. Tavern Square Garage	G12. Altman's Garage
G3. Torpedo Plant Condo Garage	G8. Courthouse Square Garage	G13. Hotel Monaco Garage
G4. Thompson's Alley Garage	G9. N. Alfred Street Garage	G14. Morrison House Hotel Garage
G5. N. Union Street Garage	G10. PNC Bank Garage	G15. 1100 Cameron Street Garage
G16. Hilton Hotel Garage		

Summary of Garage Occupancy (2014)

Garage/Lot Name	Map Label	Gargage/Lot Type	Spaces	Weekday Count	Weekday occupancy	Friday Count	Friday Occupancy	Saturday Count	Saturday Occupancy
Solo Garage	G01	Public Parking Garage	25	13	52%	30	100%	24	96%
115 S. Union Garage	G02	Public Parking Garage	68	12	18%	18	26%	16	24%
Torpedo Plant Condo	G03	Public Parking Garage	369	139	38%	248	67%	258	70%
Thompson's Alley Garage	G04	Public-Private Parking Garage	87	26	30%	37	43%	38	44%
N. Union Street Garage	G05	Public Parking Garage	175	53	30%	91	52%	129	74%
Market Square Garage	G06	Public Parking Garage	240	95	40%	139	58%	170	71%
Tavern Square Garage	G07	Public Parking Garage	286	27	9%	32	11%	28	10%
Courthouse Square Garage	G08	Public-Private Parking Garage	281	83	30%	121	43%	121	43%
Military Officers Association Lot 1	L06	Public-Private Surface Lot	13	6	46%	2	15%	2	15%
Military Officers Association Lot 2	L07	Public-Private Surface Lot	18	8	44%	7	39%	9	50%
Lyceum Museum Lot	L05	Public Surface Lot	21	8	38%	3	14%	3	14%
N. Alfred St. Garage	G09	Public Parking Garage	220	54	25%	65	30%	54	25%
N. Patrick Street Lot	L04	Public-Private Surface Lot	19	4	21%	3	16%	4	21%
PNC Bank Garage	G10	Public Parking Garage	127	0	0%	0	0%	0	0%
King Street Station 1	G11	Public Parking Garage	333	49	15%	49	15%	46	14%
King Street Station 2	G11	Public Parking Garage	333	49	15%	49	15%	46	14%
King Street Station 3	G11	Public Parking Garage	333	49	15%	50	15%	47	14%
King Street Station 4	G11	Public Parking Garage	334	49	15%	50	15%	47	14%
The Strand Parking Lot	L09	Public Surface Lot	101	63	62%	99	98%	98	97%
S. Henry Street Lot	L03	Public Surface Lot	49	26	53%	24	49%	28	57%
King Street Metro Lot	L01	Public Surface Lot	56	30	54%	40	71%	55	98%
King Street Metered Lot	L02	Public Surface Lot	15	14	93%	15	100%	16	100%
Cameron/St. Asaph Lot	L08	Public Surface Lot	50	13	26%	37	74%	48	96%
Altman's Garage	G12	Public-Private Parking Garage	62	41	66%	49	79%	51	82%
Altmans's Lot	L10	Public-Private Surface Lot	122	19	16%	28	23%	48	39%
Hotel Monaco	G13	Public-Private Parking Garage	174	88	51%	135	78%	156	90%
Morrison House Hotel Garage	G14	Public-Private Parking Garage	74	34	46%	38	51%	38	51%
1100 Cameron Street Garage	G15	Public-Private Parking Garage	472	0	0%	0	0%	0	0%
Hilton Hotel Garage	G16	Public-Private Parking Garage	484	175	36%	159	33%	190	39%

Notes:

1. Counts taken in September and October 2014, 7-9pm
2. 1100 Cameron Street Garage and PNC Garage are closed during the evenings

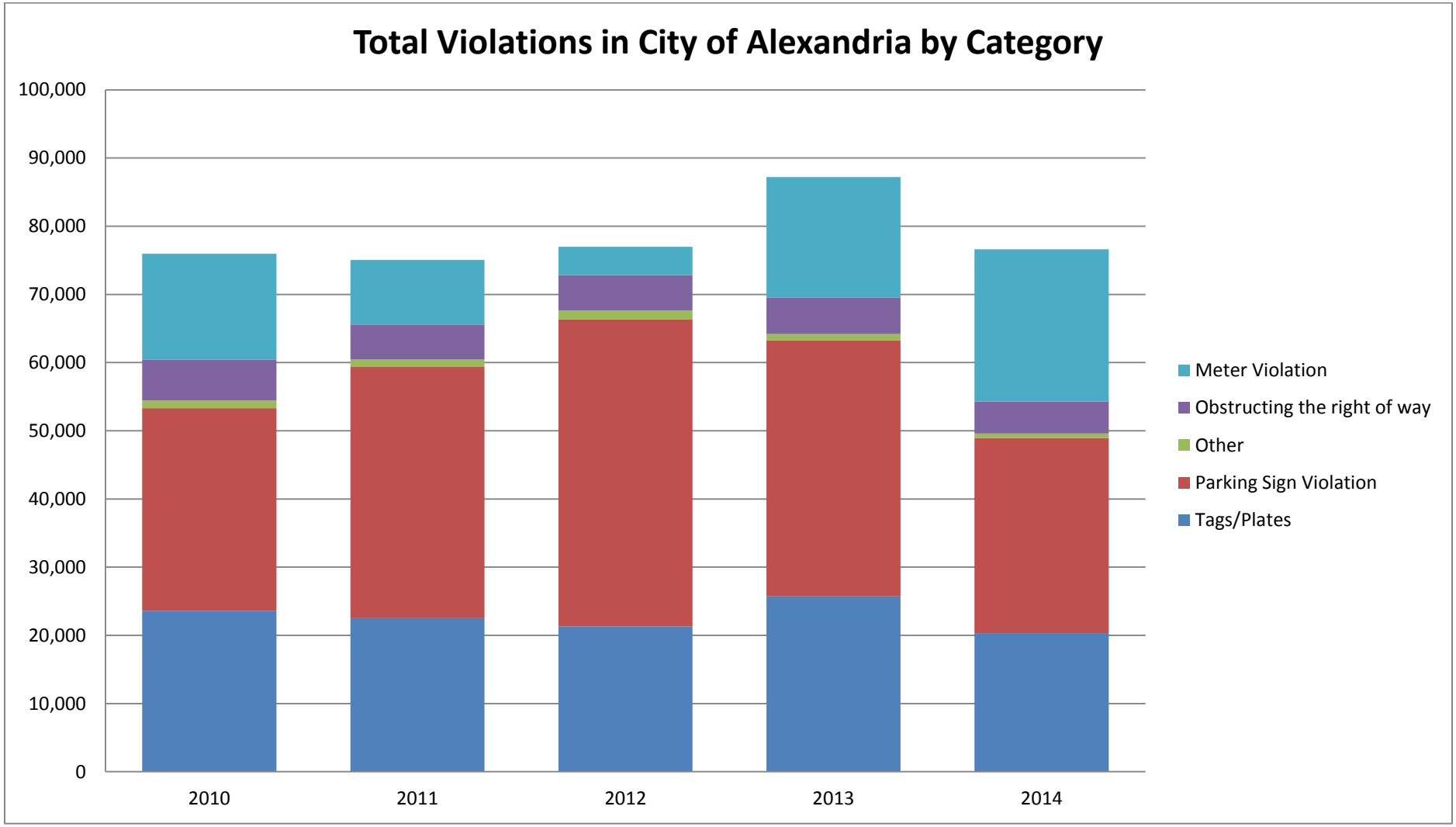
Garage Occupancies (within a ¼ mile) after Removal of The Strand Parking Lot

Garage	Number of Spaces	Weekday 7-9pm	Friday 7-9pm	Saturday 7-9pm
Solo Garage (101 Duke)	25	13 (52%)	30 (100%)	24 (96%)
Altman Garage (110 S. Union)	62	41 (66%)	49 (79%)	51 (82%)
115 S. Union	68	12 (18%)	18 (27%)	16 (24%)
Torpedo Plant Condo (102 N. Union)	369	139 (38%)	248 (68%)	258 (70%)
Total	**524**	**205 (39%)**	**345 (66%)**	**349 (67%)**
Total after The Strand Lot is removed *(assumes 101 spaces are relocated to garages)*	***524***	***306 (59%)***	***446 (85%)***	***450 (86%)***

Number of Employees

Business Employment by Type	# of Businesses	# Employees	#Emp/Bus
Total Businesses	**3,860**	**40,513**	**10**
Retail & Wholesale Trade	440	2,786	6
Hospitality & Food Service	197	4,101	21
Real Estate, Renting, Leasing	225	1,754	8
Finance & Insurance	221	2,115	10
Information	114	1,695	15
Scientific & Technology Services	1,154	11,438	10
Management of Companies	6	18	3
Health Care & Social Assistance	346	2,346	7
Educational Services	67	1,131	17
Public Administration & Sales	101	1,612	16
Arts, Entertainment, Recreation	92	524	6
Utilities & Waste Management	180	3,125	17
Construction	122	842	7
Manufacturing	37	352	10
Agriculture, Mining, Fishing	2	5	3
Other Services	556	6,669	12

Parking Violations



Meter Charges and Ticket Fines Comparison

Jurisdiction	Meter Rates/ Hour	Enforcement Hours	Fines for Expired Meters
Alexandria	$1.75*	Mon-Sat 8am – 9pm	$40
Annapolis	$2.00	Mon-Sun 10am – 7:30pm	$25
Arlington	Long-term: $1.00 Short-term: $1.25	Mon-Sat 8am – 6pm in most areas	$35
Baltimore	$1.00 to $3.00	Varies by district	$32
DC: Premium Demand**	$2.00	Mon – Sat 7am – 10pm	$25
DC: Normal Demand	$0.75	Mon – Sat 7am – 6:30pm	$25
Montgomery: Bethesda	$2.00	Mon – Sat 9am – 10pm	$45
Montgomery: Silver Spring	Long-term; $0.65 Short-term: $1.00	Mon-Fri 9am- 6pm	$45

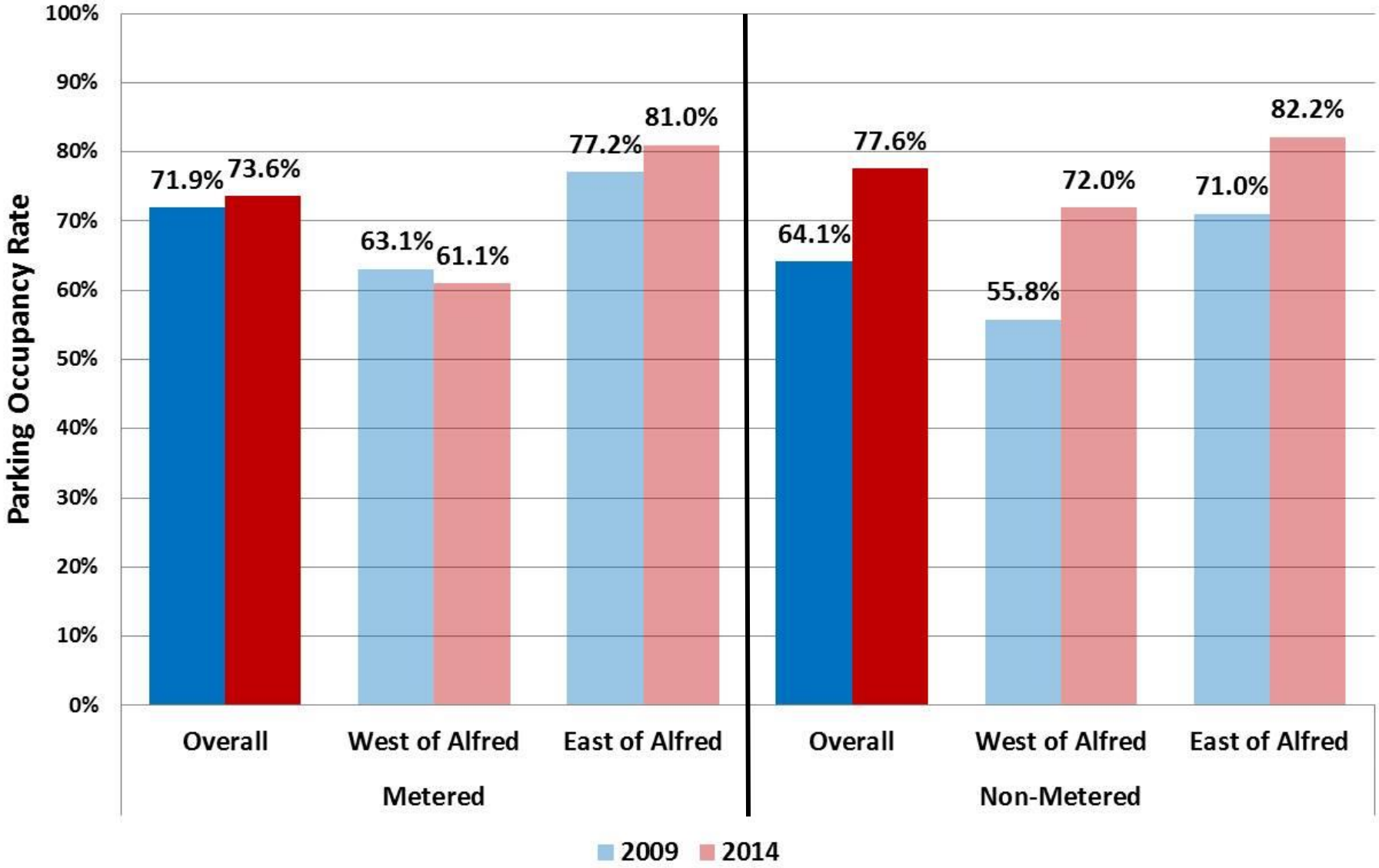
** $1.75/hr for multi-space meters and $1.25/hr for single space meters*

*** Premium demand area includes Georgetown*

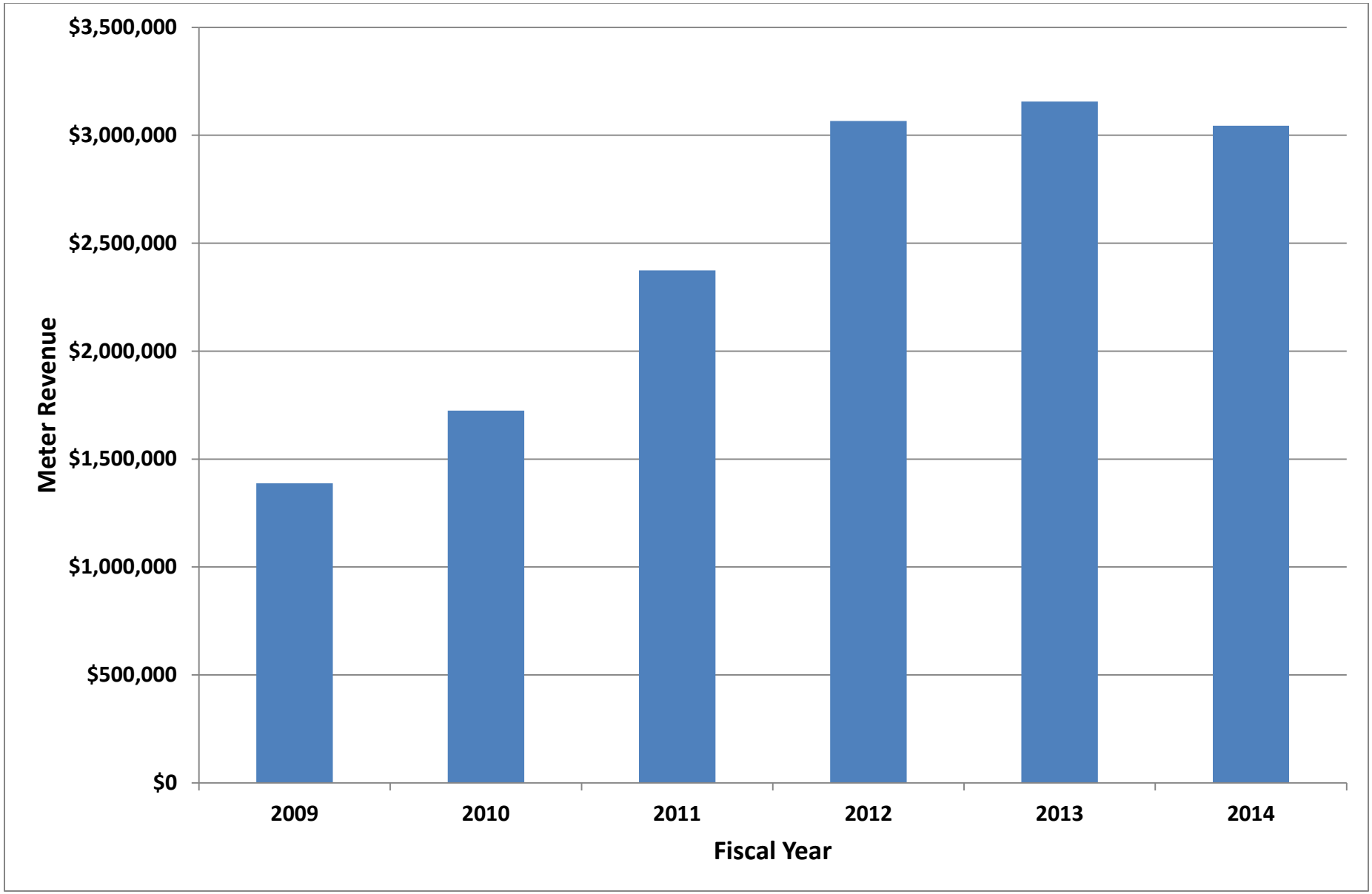
Gross Sales Receipts for Businesses on King Street

Year	# of Businesses	Actual Gross Receipts
2009	328	$319,311,819
2010	334	$247,046,996
2011	339	$301,615,475
2012	342	$283,500,675
2013	329	$310,609,016
2014	329	$293,656,781

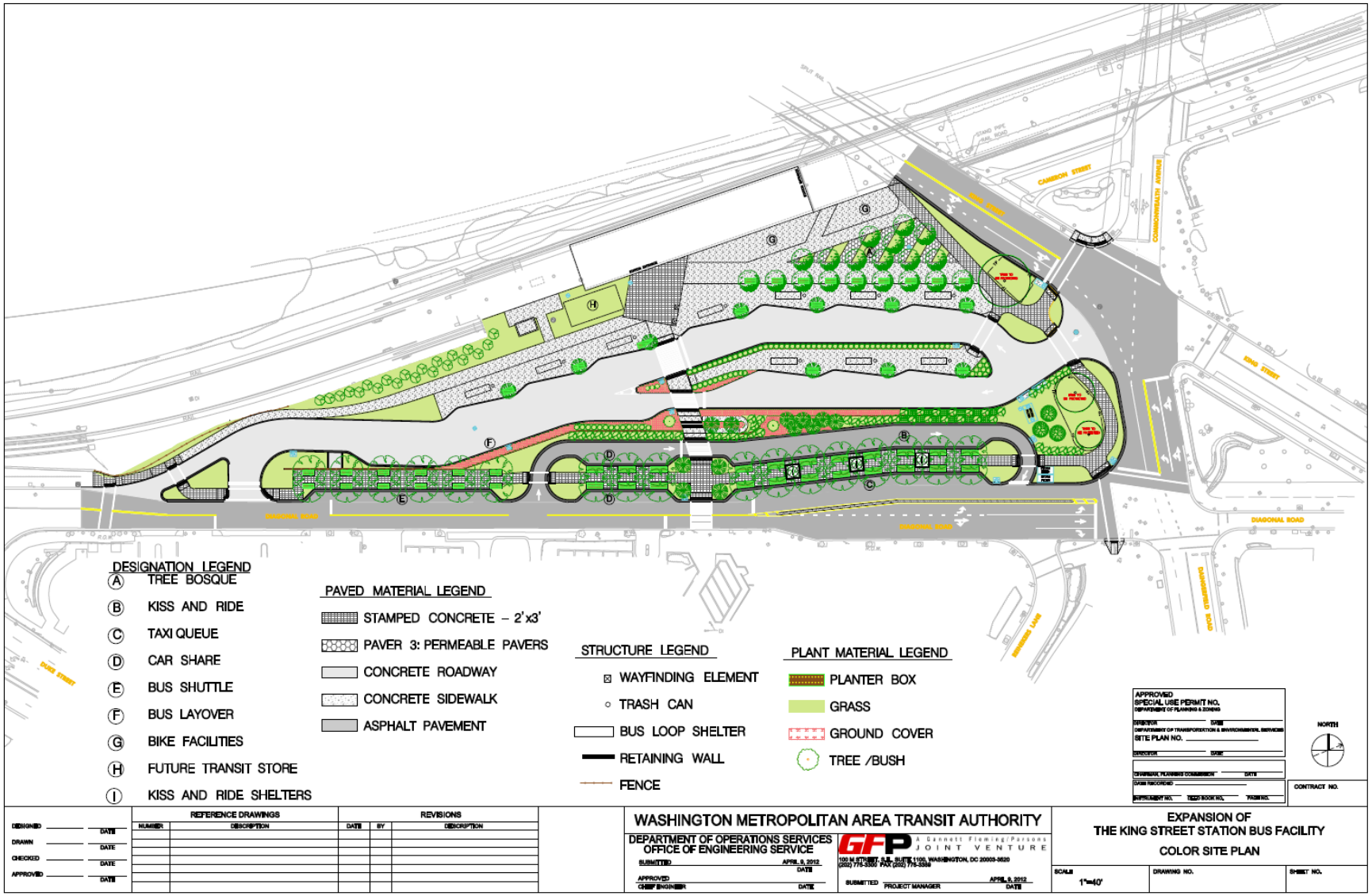
Metered and Non-Metered Occupancy Comparison, 2009-2014



Meter Revenue in Old Town, FY 2009 – FY 2014



King Street Metrorail Station Plan



Revenue from Parking Enforcement

Parking Meter Revenue and Fines – FY 2013 Comparison with Other Virginia Jurisdictions

	Total Number of Metered Spaces	Total Ticket Revenue	Total Meter Revenue
City of Alexandria	1,211	$3,696,673	$3,156,323
Arlington County	5,298	$6,079,979	$7,340,395
City of VA Beach	650	$670,433	$1,221,475
City of Richmond	1,676	$4,600,000	$704,000

Total # of Metered Spaces per PEO – FY 2013 Comparison with Other Virginia Jurisdictions

City	Total # of Metered Spaces	# of PEOs
Arlington	5,298	19
Alexandria	1,211	23
Richmond	1,676	33
VA Beach	650	20
Roanoke	None (1,290 non-metered)	3.5

Parking Spaces Provided by approved Waterfront development since 2012

Carr Waterfront Hotel

- 69 spaces in underground garage
- Entire garage valet operated
- Spaces available for hotel and restaurant guests

Robinson Terminal South

- 242 spaces in individual townhouse garages and underground garage
- 58 spaces dedicated for restaurant, retail, and residential visitors
- Commercial portion of the garage will be valet operated

Old Dominion Boat Club

- 45 tandem spaces in a surface lot
- Spaces available to members of the ODBC

Number of On-Street Parking Spaces Lost in OTAP Study Area since 2010

Date	Location	# of spaces gained or lost	Notes
1/25/2010	1300 block of King Street	1	No Parking sign removed
11/22/2010	100 block of N Fayette St	2	Loading zone removed
1/23/2012	815 King Street	2	Loading zone converted to metered parking
6/25/2012	unit block of Prince Street	-3	3 spaces removed for Capital Bikeshare station
9/24/2012	Intersection of Queen St and N Union St	-3	3 spaces removed to allow safe vehicle movements through intersection
2/25/2013	unit block of King Street	-1	1 space removed to allow for bicycle parking
4/22/2013	1600 block of Prince Street	-1	1 space removed for carshare
9/22/2014	124 N Fayette St	1	1 Loading zone space converted to 1 Handicap parking space

Total On-Street Parking Spaces Lost	8
Total On-Street Parking Spaces Gained	6
Net Reduction in On-Street Parking Spaces in OTAP Study Area (2010-2014)	2

Number of Parking Spaces Added for People with Mobility Issues Added since 2010

Date	Location	Handicap Parking Spaces Added	Notes
9/22/2014	124 N Fayette St	1	1 Loading zone space converted to 1 Handicap parking space
3/22/2010	200 block Reinekers Lane	1	1 metered space converted to Handicap space
10/25/2010	322 North Alfred Street	2	2 spaces converted to Handicap parking
4/25/2011	100 S Alfred St	2	2 spaces converted to Handicap parking
Total		6	