



**Government of the District of Columbia**

**Mayor Adrian M. Fenty**

**Office of the Chief Financial Officer**

**Dr. Natwar M. Gandhi**

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**Office of Tax and Revenue**

**Real Property Tax Administration**

**FY 2011 Assessment Ratio Report**

Real Property Tax Administration  
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October 12, 2010



**Government of the District of Columbia**  
**Office of the Chief Financial Officer**  
**Office of Tax and Revenue**

October 12, 2010

The Honorable Adrian M. Fenty  
Mayor of the District of Columbia

and

The Honorable Vincent C. Gray  
Chairman of the Council of the District of Columbia

Dear Mayor Fenty and Chairman Gray:

In accordance with D.C. Code § 47-823(c), I am pleased to submit the Office of Tax and Revenue's (OTR) Fiscal Year 2011 Assessment Ratio Report. This report measures the quality of real property assessments within the District of Columbia.

Uniform and accurate assessments for similar properties are the foundation of fair property taxation. District law and the Federal Constitution require that all real property subject to property taxation be assessed uniformly. District law also requires that assessments be based on the estimated market value (fair market value) of the property. Therefore, uniformity and market value are the standards used to measure the quality of the assessment work performed by the Real Property Tax Administration.

This report measures assessment quality by looking at the most recent reassessment program and comparing the results of that effort to actual market conditions. District law requires that all real property be assessed annually, and this reassessment resulted in approximately 195,000 reassessment notices being issued in February 2010 effective for Fiscal Year 2011. These reassessments reflected OTR's estimate of property values as of January 1, 2010. To provide an objective performance measure of that work, this report tests those reassessment results against actual property sales for the 12 months in calendar year 2009.

OTR is guided by national standards for measuring property assessment quality, as promulgated by the International Association of Assessing Officers. Those national standards and our compliance therewith are discussed in this report. The data show that the District has acceptable levels and uniformity of assessments.

I hope that you find this report useful and informative. Please feel free to contact me to share any suggestions that you may have to improve this report or the assessment process in the District of Columbia.

Sincerely,

Stephen M. Cordi  
Deputy Chief Financial Officer  
Office of Tax and Revenue

## **FY 2011 ASSESSMENT RATIO REPORT**

### ***Overview***

The Office of Tax and Revenue's (OTR) Real Property Tax Administration (RPTA) assesses real property for purposes of property taxation. A portion of all properties will be physically reviewed each year. During the review, RPTA appraisers will visit properties to verify property characteristics existing in our current assessment records. The characteristics include property type, size, quality of construction, condition of structure and any new improvements.

For Fiscal Year (FY) 2011, the District assessed approximately 195,000 properties. The magnitude of the reassessment requires the use of mass appraisal techniques. While a private fee appraiser is concerned with valuing one property at a time, an RPTA appraiser values all properties in an entire neighborhood at a time. To accomplish this, special mass appraisal procedures are used. When real property is transferred, the deed and transfer documents are filed with the Recorder of Deeds of the District of Columbia. These documents are imaged, used as a record to change ownership on the assessment roll, and used to capture sales information. RPTA's Assessment Division reviews all deeds and property sales prices after the deed transferring the property is recorded. In the appraiser's review and analysis of the sales, the appraiser will develop land rates, depreciation tables, and sales analysis and/or market analysis reports. After completing the analysis, the appraiser applies the factors uniformly throughout the neighborhood to value all comparable properties.

Supervisory personnel carefully review each RPTA appraiser's work, and the RPTA appraiser's work is also scrutinized by individual property owners. We are continually striving for higher quality in assessment uniformity. Our quality control program begins with the individual appraiser and the appraiser's immediate supervisor. As work is completed, each supervisor reviews the analysis, making revisions or approving the work. When the appraiser completes the revaluation, the supervisor makes a random check using procedural and data editing reports. Following the completion of the revaluation, various computer edits are made to ensure good valuation quality.

A measurement of quality is the assessed value/sale price ratio. A ratio is the relationship between two numbers; in this case it is the relationship between the assessed value and sale price. The ratio measures how closely our values compare to the actual sales prices. The average assessed value/sale price ratio indicates the typical level of assessment. Because the marketplace is not perfect, there will always be properties that sell for more or less than what can be anticipated due to factors such as sales between people unfamiliar with the market or buyers willing to pay extra for a unique property, among other reasons.

In mass appraisal and assessment ratio studies, we are not only concerned with the typical level of assessment as indicated by the average assessed value/sale price levels

(ratios), but also the degree of spread, or variation, from the typical ratio. One such statistical measurement of variation is called the coefficient of dispersion (COD). The lower the COD, the more uniform the assessments.

In the balance of this report, we will give a more detailed explanation of the statistical terms as applied to assessment administration and quality control, and we will explain the International Association of Assessing Officers' (IAAO) Standard of Performance for ratio studies.

## ***RATIO STATISTICS***

The purpose of this ratio study is to test the quality of the assessment product of the properties most recently valued. From our most recent valuation, we have performed many ratio studies examining neighborhoods, types of structures, age of structures, etc. We use ratio studies as a performance gauge that include several measures of central tendency. A measure of central tendency indicates the typical level of assessments to actual selling prices of real estate. These may be the average of the assessed value/sale price ratios, the weighted average of the assessed value/sale price ratios or the median of the assessed value/sale price ratios. The average assessed value/sale price ratio is simply the average of all the ratios in the sample. The weighted assessed value/sale price ratio is the result of dividing the total of the assessments by the total of the sale prices. The median assessed value/sale price ratio is the midpoint ratio of all ratios after the ratios are arrayed from highest to lowest.

In addition to the general level of assessments, we are also concerned with the relative spread or variation that individual ratios depart from the typical ratio. This is measured by the coefficient of dispersion. The coefficient of dispersion is calculated by dividing the average absolute deviation by the median ratio. To calculate the average absolute deviation, subtract the median ratio from the individual ratios and add all the results, ignoring positive or negative signs, and then divide the sum by the number of ratios. The acceptable level for the coefficient of dispersion depends upon the type of properties being reviewed. According to IAAO, coefficients of dispersion should typically be 20% or less, depending on the types of properties being valued.

Another statistical measure used to gauge assessment uniformity is the Price-Related Differential (PRD). The PRD tests to see if higher and lower valued properties are assessed at the same level. It is calculated by dividing the mean ratio by the weighted mean ratio. PRDs should range between 0.98 and 1.03, except for very small samples. For example, a PRD of 1.03 indicates an under-valuation of high-priced properties, while a PRD of .98 shows an under-valuation of low-priced properties. Table 1 of this report illustrates a sample computation of these statistics.

**Table 1**

**Illustration of Ratio Study Statistics**  
**Sample Jurisdiction**

(1) Property Number	(2) Sale Price	(3) Assessed Value	(4) Ratio A/S%	(5) Deviation From Average
1	\$280,000	\$224,000	80%	20%
2	\$220,000	\$192,500	88%	12%
3	\$635,000	\$555,750	88%	12%
4	\$559,000	\$517,000	92%	7%
5	\$200,000	\$190,000	95%	5%
6	\$210,000	\$204,750	98%	2%
7	\$800,000	\$800,000	100%	0%
8	\$400,000	\$400,000	100%	0%
9	\$330,000	\$333,000	101%	1%
10	\$450,000	\$461,250	103%	3%
11	\$240,000	\$252,000	105%	5%
12	\$390,000	\$419,250	108%	8%
13	\$370,000	\$416,250	113%	13%
14	\$403,000	\$458,000	114%	14%
15	\$510,000	\$599,250	118%	18%
<b>TOTAL</b>	<b>\$5,997,000</b>	<b>\$6,023,000</b>	<b>1500%</b>	<b>120%</b>

<b>Average Ratio</b>	=	Total of Ratios (4)	÷	Number of Sales (1)	=	<b>100%</b>
		<b>1500%</b>		<b>15</b>		
<b>Weighted Ratio</b>	=	Total of Assessed Values (3)	÷	Total of Sale Prices (2)	=	<b>100%</b>
		<b>\$6,023,000</b>		<b>\$5,997,000</b>		
<b>Average Absolute Deviation</b>	=	Total Deviations (5)	÷	Number of Sales (1)	=	<b>8%</b>
		<b>120%</b>		<b>15</b>		
<b>Median Ratio</b>	=	Middle Value of Data Array (i.e. property #8)	=		=	<b>100%</b>
<b>Coefficient of Dispersion</b>	=	Average Deviation (5)	÷	Median Ratio (4)	=	<b>8%</b>
		<b>8%</b>		<b>100%</b>		
<b>Price-Related Differential</b>	=	Average Ratio (4)	÷	Weighted Ratio	=	<b>1.00</b>
		<b>100%</b>		<b>100%</b>		

Other descriptive statistical methods that may be used to analyze the assessment product are frequency distributions, scatter diagrams and coefficients of variation. Due to the scope of this report, we have not fully examined these methods here. For further information on statistics relating to assessments, IAAO's publication, "Property Assessment Valuation," is recommended.

## **RATIO STUDY STANDARDS - VALUES TO SALE PRICES**

The IAAO is a professional organization of assessing officials that provides educational programs, assessment administration standards and research on assessment and tax policy issues. The IAAO has developed numerous standards and texts on assessments and assessment administration. Additionally, the organization is a founding member of the Appraisal Foundation that developed the Uniform Standards of Professional Appraisal Practice (USPAP).

The IAAO's Standard on Ratio Studies was first published in September 1990 and was revised in January, 2010. The IAAO standards are advisory in nature and provide guidance to those performing ratio studies in the mass appraisal field regarding design, statistics, performance measures and related issues in conducting ratio studies. The RPTA uses the fundamental ratio statistical measures of IAAO standards, and is guided by the criteria of IAAO's Assessment Ratio Performance Standards, to judge the performance of the District's reassessments. See Table 2 below.

**Table 2**

### **IAAO's Ratio Study Performance Standards**

<b>Type of property—General</b>	<b>Type of property—Specific</b>	<b>COD Range**</b>
Single-family residential (including residential condominiums)	Newer or more homogeneous areas	5.0 to 10.0
Single-family residential	Older or more heterogeneous areas	5.0 to 15.0
Other residential	Rural, seasonal, recreational, manufactured housing, 2–4 unit family housing	5.0 to 20.0
Income-producing properties	Larger areas represented by large samples	5.0 to 15.0
Income-producing properties	Smaller areas represented by smaller samples	5.0 to 20.0
Vacant land		5.0 to 25.0
Other real and personal property		Varies with local conditions
<p><i>These types of property are provided for guidance only and may not represent jurisdictional requirements.</i></p> <p><i>* Appraisal level for each type of property shown should be between 0.90 and 1.10, unless stricter local standards are required.</i></p> <p><i>PRD's for each type of property should be between 0.98 and 1.03 to demonstrate vertical equity.</i></p> <p><i>PRD standards are not absolute and may be less meaningful when samples are small or when wide variation in prices exist. In such cases, statistical tests of vertical equity hypotheses should be substituted (see table 1-2).</i></p> <p><i>** CODs lower than 5.0 may indicate sales chasing or non-representative samples.</i></p>		

Source: Standard on Ratio Studies; International Association of Assessing Officers; Kansas City, Mo; January, 2010; p.17.

Ratio studies may be performed for various reasons, including assessment accuracy and equity studies, to judge the need for and management of a reassessment, to

identify problems with assessment procedures, to assist in market analysis, and to adjust assessed values. Many ratio study design issues must be considered depending on the purpose of the ratio study.

This study considers unadjusted sales price data during calendar year 2009 before the valuation date of January 1, 2010, which is the date for the FY 2011 assessments. Generally, only sales that are arms-length transactions between a buyer and seller are included in the study. Sales between related parties, to or from financial institutions or government agencies, or sales with extreme ratios (which indicate abnormal transactions) have not been used in this study. An attempt was made to contact the property owner and physically inspect all sales. Where property owners were not at home or failed to respond to the "Sales Verification Questionnaire" mailed to them, an exterior inspection was performed. Thus, some of these transactions may have had conditions that could have warranted their exclusion from the study; but the transactions were included notwithstanding. Generally, RPTA's ratio performance is good and conforms to IAAO standards.

While several measures of central tendency may be calculated (average, median, and weighted average), the median is less affected by extreme ratios. Therefore, IAAO observes in its standards that the median is generally the preferred measure of central tendency for monitoring assessment performance. For this reason, median ratios are used in this study to measure compliance with IAAO standards.

In circumstances where property values are rapidly changing, ratio statistics will be adversely affected. Where real estate prices have been increasing (decreasing), ratio statistics will indicate a lower (higher) assessed value/sale price ratio. However, one should review the average deviation, coefficient of dispersion, and standard deviation to ensure that assessments are uniform.

### ***COMPARISON OF RPTA's VALUES TO SALE PRICES***

Quality is the degree of excellence of a product or service. Also, quality is the extent to which a product measures up to certain standards. In this case, a measure of quality is the ratio study measuring whether the RPTA appraiser assessed properties uniformly and at estimated market value. Assuming the appraiser applied the mass appraisal model uniformly to all properties, this ratio study should show uniformity of assessment. The ratio study is a cross-check by the RPTA management to ensure quality of the mass appraisal. The ratio study was conducted on 4,878 sales of improved residential property and 107 sales of improved commercial property from January 1, 2009 to December 31, 2009, and it compares such sales to the administration's valuations on the tax roll for FY 2011.

Table 3 summarizes the FY 2011 Real Property Assessment/Sale Ratio by neighborhood within the District of Columbia for residential properties. Table 4 displays similar information for commercial properties. Table 5 illustrates the frequency of assessment sale ratios, in the form of a histogram, for residential properties; the sales used in this study were calendar year 2009 real estate sales. Table 6 provides a

summary of the compliance with standards, by property type, for the FY 2011 assessment program.

The histogram in Table 5 graphically represents the frequency distribution of individual residential ratios in the study. The general shape of the graph helps to illustrate the amount of dispersion existing in the data. A tall, narrow shape usually indicates less dispersion from the measure of central tendency, whereas a more flat and broad shape illustrates more dispersion and less desirable uniformity. The histogram of RPTA's results illustrates both good central tendency and reasonable dispersion. The measures of central tendency indicate that properties, on average, have been valued for FY 2011 at approximately 98% of their respective sale prices and that on average all other properties have very similar ratios as indicated by the 6% coefficient of dispersion.

The analysis from Table 6 and the following descriptive statistics indicate that values determined by appraisers for the most recent valuation attained a uniform and appropriate level of value. Table 6 shows that of the fifty-six residential neighborhoods that were valued for FY 2011, forty-two had a sufficient number of sales to be statistically relevant. Forty-one neighborhoods met all applicable IAAO standards for assessment performance, and all forty-two met all but one. In the case of commercial property, more weight is given to the income approach to valuation; but there are fewer sales thereby impeding a more thorough investigation.

The summary data presented in Table 7 indicate that District-wide, for the category of all property types, the sales ratio statistics are in full compliance with IAAO's standards.



**TABLE 3****FY 2011*****Residential Real Property Assessment Ratio by Neighborhood***

This table shows the real property assessment ratio data for residential properties. The ratios concern arms-length sales of properties. The sales used were sold between January 1, 2009 and December 31, 2009, and such sales are compared with RPTA's FY 2011 reassessment effective January 1, 2010. In neighborhoods with fewer than 20 sales, the statistics may not represent actual market conditions due to the small sample size.

**Type of Property: Residential**

Number	Neighborhood Name	Number of Sales	Average Sale Price	Median Sale Price	Median Ratio	Mean Ratio	Weighted Mean Ratio	Coefficient of Dispersion	Price-Related Differential
1	AMERICAN UNIVERSITY	81	\$794,824	\$763,500	98.0	98.0	97.7	2	1.00
2	ANACOSTIA	38	\$258,230	\$257,500	103.1	101.0	101.2	9	1.00
3	BARRY FARMS	23	\$276,421	\$297,500	86.3	89.7	88.4	9	1.01
4	BERKELEY	26	\$1,310,519	\$1,257,500	98.5	98.8	98.5	2	1.00
5	BRENTWOOD	23	\$224,056	\$195,000	100.0	103.0	101.6	7	1.02
6	BRIGHTWOOD	76	\$398,794	\$390,000	98.0	97.0	97.1	4	1.00
7	BROOKLAND	120	\$317,337	\$335,450	98.6	99.0	98.1	6	1.01
8	BURLEITH	17	\$1,014,238	\$925,650	96.2	97.4	97.1	3	1.00
9	CAPITOL HILL	140	\$650,177	\$637,500	97.1	96.1	95.9	5	1.00
10	CENTRAL	268	\$608,007	\$416,500	94.7	95.1	93.7	8	1.01
11	CHEVY CHASE	172	\$860,153	\$788,500	97.4	97.2	96.9	5	1.00
12	CHILLUM	12	\$362,833	\$337,500	99.9	98.9	98.8	2	1.00
13	CLEVELAND PARK	108	\$743,949	\$446,500	97.9	99.0	97.7	6	1.01
14	COLONIAL VILLAGE	10	\$827,200	\$772,500	96.8	94.5	93.3	4	1.01
15	COLUMBIA HEIGHTS	400	\$384,938	\$365,000	99.5	97.8	97.2	6	1.01
16	CONGRESS HEIGHTS	38	\$198,743	\$193,450	98.0	97.6	96.4	6	1.01
17	CRESTWOOD	11	\$827,273	\$724,000	99.3	99.2	99.4	3	1.00
18	DEANWOOD	74	\$259,711	\$249,978	97.5	99.3	98.7	8	1.01
19	ECKINGTON	53	\$367,137	\$352,000	99.2	99.8	99.9	3	1.00
20	FOGGY BOTTOM	35	\$347,743	\$240,000	97.8	98.6	97.2	5	1.01
21	FOREST HILLS	43	\$756,673	\$390,000	96.0	96.0	96.1	6	1.00
22	FORT DUPONT PARK	45	\$231,846	\$224,000	94.7	95.3	95.0	8	1.00
23	FOXHALL	16	\$764,431	\$739,500	98.4	97.8	97.7	3	1.00
24	GARFIELD	49	\$648,304	\$505,000	96.0	98.4	98.3	6	1.00
25	GEORGETOWN	133	\$1,317,403	\$1,010,000	98.4	99.2	97.3	7	1.02
26	GLOVER PARK	64	\$556,377	\$643,175	98.3	97.7	97.2	4	1.00
27	HAWTHORNE	5	\$786,675	\$731,375	101.0	100.0	100.3	2	1.00
28	HILLCREST	31	\$289,106	\$250,000	100.0	98.8	97.4	6	1.01
29	KALORAMA	144	\$715,689	\$422,500	97.5	97.8	98.4	6	0.99
30	KENT	33	\$1,525,970	\$1,135,000	98.6	98.3	98.7	2	1.00

31	LEDROIT PARK	71	\$410,245	\$375,000	99.0	98.3	98.2	3	1.00
32	LILY PONDS	12	\$217,233	\$221,950	98.9	101.0	100.5	8	1.01
33	MARSHALL HEIGHTS	79	\$281,464	\$315,000	95.4	97.7	97.1	5	1.01
34	MASS. AVE. HEIGHTS	4	\$1,558,750	\$1,480,000	96.8	97.1	97.3	1	1.00
35	MICHIGAN PARK	9	\$377,066	\$362,790	94.4	98.4	96.6	11	1.02
36	MOUNT PLEASANT	137	\$523,609	\$515,000	96.0	95.7	95.3	6	1.00
37	N. CLEVELAND PARK	30	\$804,298	\$834,500	98.3	98.6	98.8	4	1.00
38	OBSERVATORY CIRCLE	49	\$563,092	\$440,000	97.4	98.0	97.8	5	1.00
39	OLD CITY #1	658	\$491,519	\$451,500	97.3	98.1	96.8	8	1.01
40	OLD CITY #2	974	\$448,055	\$405,750	97.4	97.4	96.5	7	1.01
41	PALISADES	34	\$735,191	\$722,000	98.8	98.0	98.7	2	0.99
42	PETWORTH	140	\$323,732	\$320,000	97.2	99.8	98.3	9	1.02
43	RANDLE HEIGHTS	29	\$246,221	\$235,000	92.3	95.3	94.2	11	1.01
44	R.L.A.(N.E.)	0	\$0	\$0	0.0	0.0	0.0	0	0.00
46	R.L.A. (S.W.)	73	\$310,358	\$257,000	98.5	95.6	96.2	6	0.99
47	RIGGS PARK	28	\$274,896	\$268,638	100.6	102.0	101.1	7	1.00
48	SHEPHERD PARK	13	\$660,750	\$650,000	98.3	94.8	94.5	5	1.00
49	16TH STREET HEIGHTS	49	\$502,448	\$525,000	95.3	96.8	95.9	6	1.01
50	SPRING VALLEY	24	\$1,932,958	\$1,432,500	99.1	98.1	98.4	2	1.00
51	TAKOMA PARK	12	\$380,658	\$330,000	98.9	98.6	98.6	1	1.00
52	TRINIDAD	26	\$271,568	\$269,500	100.0	103.0	99.8	11	1.03
53	WAKEFIELD	16	\$535,375	\$360,500	95.4	94.1	95.6	6	0.98
54	WESLEY HEIGHTS	46	\$764,497	\$508,500	98.3	99.0	98.3	5	1.01
55	WOODLEY	11	\$1,360,818	\$1,235,000	96.8	96.1	95.8	5	1.00
56	WOODRIDGE	33	\$348,148	\$339,900	98.0	99.1	98.4	8	1.01
66	FORT LINCOLN	33	\$438,998	\$450,950	98.7	97.1	97.1	4	1.00

**TABLE 4****FY 2011*****Commercial Real Property Assessment Ratio by Neighborhood***

This table shows the real property assessment ratio data for commercial properties. The ratios concern arms-length sales of properties. The sales used were sold between January 1, 2009 and December 31, 2009, and such sales are compared with RPTA's FY 2011 reassessment effective January 1, 2010. In neighborhoods with fewer than 20 sales, the statistics may not represent actual market conditions due to the small sample size.

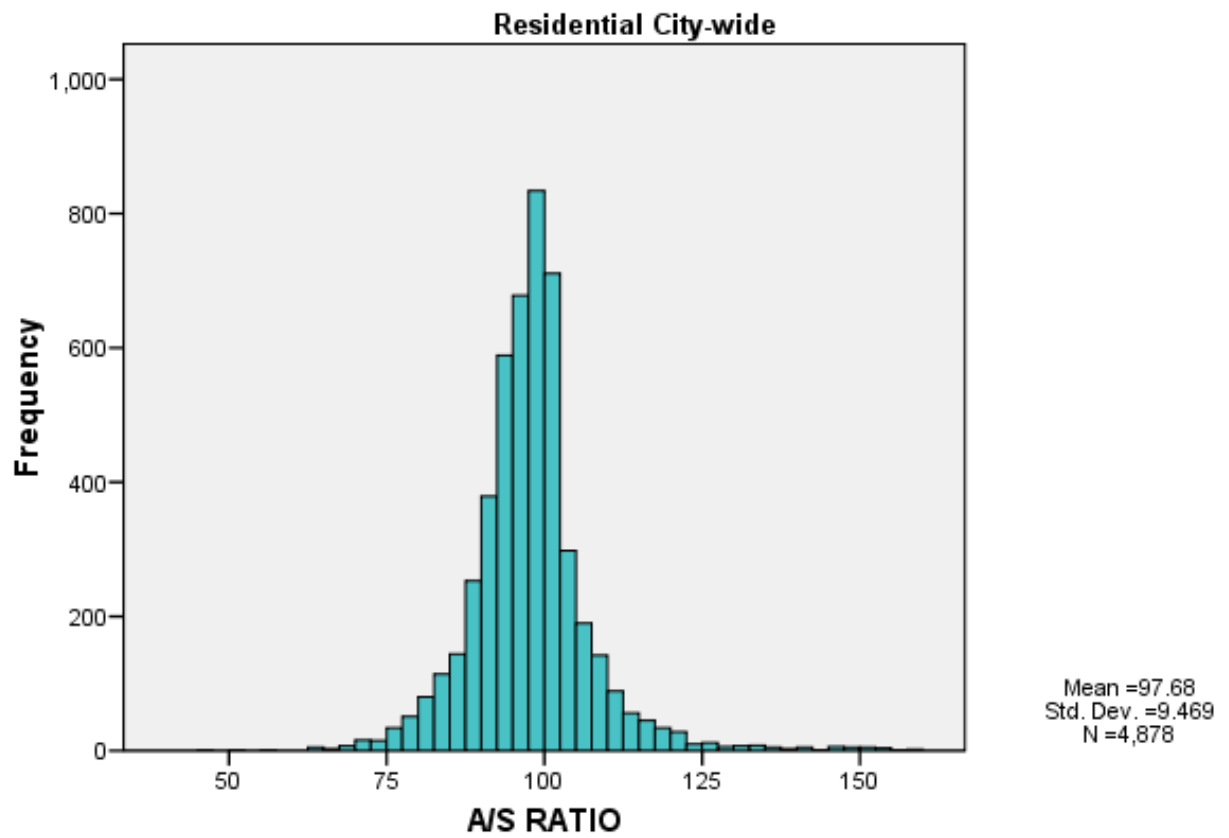
**Type of Property: Commercial**

<b>Number</b>	<b>Neighborhood Name</b>	<b>Number of Sales</b>	<b>Average Sale Price</b>	<b>Median Sale Price</b>	<b>Median Ratio</b>	<b>Mean Ratio</b>	<b>Weighted Mean Ratio</b>	<b>Coefficient of Dispersion</b>	<b>Price-Related Differential</b>
3	BARRY FARMS	1	\$2,553,000	\$2,553,000	90.8	90.8	90.8	0	1.00
5	BRENTWOOD	4	\$745,000	\$495,000	76.2	75.0	72.5	25	1.03
6	BRIGHTWOOD	2	\$1,305,000	\$1,305,000	83.8	83.8	80.5	36	1.04
7	BROOKLAND	5	\$583,400	\$450,000	119.9	119.0	122.4	5	0.97
9	CAPITOL HILL	7	\$1,245,107	\$975,000	52.0	62.2	62.0	26	1.00
10	CENTRAL	17	\$37,920,619	\$16,254,441	82.6	83.6	90.3	16	0.93
11	CHEVY CHASE	2	\$3,062,500	\$3,062,500	85.4	85.4	81.5	9	1.05
12	CHILLUM	2	\$267,500	\$267,500	68.2	68.2	70.4	23	0.97
15	COLUMBIA HEIGHTS	8	\$835,938	\$847,500	105.5	108.0	110.4	15	0.98
16	CONGRESS HEIGHTS	1	\$180,000	\$180,000	81.8	81.8	81.8	0	1.00
18	DEANWOOD	2	\$402,050	\$402,050	101.4	101.0	107.4	10	0.94
19	ECKINGTON	1	\$300,000	\$300,000	55.6	55.6	55.6	0	1.00
20	FOGGY BOTTOM	1	\$420,000	\$420,000	86.2	86.2	86.2	0	1.00
24	GARFIELD	1	\$1,600,000	\$1,600,000	63.2	63.2	63.2	0	1.00
25	GEORGETOWN	5	\$1,297,500	\$950,000	73.4	79.6	84.5	15	0.94
26	GLOVER PARK	1	\$1,100,000	\$1,100,000	70.3	70.3	70.3	0	1.00
29	KALORAMA	2	\$1,005,000	\$1,005,000	96.7	96.7	96.7	2	1.00
31	LEDROIT PARK	1	\$470,000	\$470,000	141.7	142.0	141.7	0	1.00
33	MARSHALL HEIGHTS	1	\$2,300,000	\$2,300,000	82.7	82.7	82.7	0	1.00
36	MOUNT PLEASANT	5	\$2,645,000	\$2,100,000	93.5	95.4	104.0	24	0.92
39	OLD CITY #1	5	\$791,000	\$795,000	81.8	84.1	77.2	26	1.09
40	OLD CITY #2	16	\$1,267,156	\$825,000	92.6	96.9	95.2	14	1.02
42	PETWORTH	3	\$240,000	\$215,000	122.0	114.0	114.4	8	0.99
43	RANDLE HEIGHTS	3	\$966,666	\$400,000	99.6	106.0	96.5	13	1.10
48	SHEPHERD PARK	1	\$490,000	\$490,000	50.3	50.3	50.3	0	1.00
49	16TH STREET HEIGHTS	2	\$450,000	\$450,000	76.1	76.1	87.3	33	0.87
56	WOODRIDGE	8	\$694,329	\$550,000	105.0	99.5	87.4	25	1.14

**TABLE 5**

***FY 2011 HISTOGRAM OF RESIDENTIAL SALES RATIOS***

**GRAPH OF SALES RATIOS**



**TABLE 6****Compliance with IAAO Ratio Study Performance Standards for FY 2011 Assessments**

The IAAO sets advisory standards for assessment statistics. These standards are depicted in Table 2. In this table, a “+” indicates compliance with the standards.

2011	Residential Median Ratio	Residential Coefficient of Dispersion	Residential Price-Related Differential	Commercial Median Ratio
AMERICAN UNIVERSITY	+	+	+	Ø
ANACOSTIA	+	+	+	Ø
BARRY FARMS	x	+	+	Ø
BERKELEY	+	+	+	Ø
BRENTWOOD	+	+	+	Ø
BRIGHTWOOD	+	+	+	Ø
BROOKLAND	+	+	+	Ø
BURLEITH	Ø	Ø	Ø	Ø
CAPITOL HILL	+	+	+	Ø
CENTRAL	+	+	+	Ø
CHEVY CHASE	+	+	+	Ø
CHILLUM	Ø	Ø	Ø	Ø
CLEVELAND PARK	+	+	+	Ø
COLONIAL VILLAGE	Ø	Ø	Ø	Ø
COLUMBIA HEIGHTS	+	+	+	Ø
CONGRESS HEIGHTS	+	+	+	Ø
CRESTWOOD	Ø	Ø	Ø	Ø
DEANWOOD	+	+	+	Ø
ECKINGTON	+	+	+	Ø
FOGGY BOTTOM	+	+	+	Ø
FOREST HILLS	+	+	+	Ø
FORT DUPONT PARK	+	+	+	Ø
FOXHALL	Ø	Ø	Ø	Ø
GARFIELD	+	+	+	Ø
GEORGETOWN	+	+	+	Ø
GLOVER PARK	+	+	+	Ø
HAWTHORNE	Ø	Ø	Ø	Ø
HILLCREST	+	+	+	Ø
KALORAMA	+	+	+	Ø
KENT	+	+	+	Ø
LEDROIT PARK	+	+	+	Ø
LILY PONDS	Ø	Ø	Ø	Ø
MARSHALL HEIGHTS	+	+	+	Ø
MASS. AVE. HEIGHTS	Ø	Ø	Ø	Ø
MICHIGAN PARK	Ø	Ø	Ø	Ø
MOUNT PLEASANT	+	+	+	Ø
N. CLEVELAND PARK	+	+	+	Ø
OBSERVATORY CIRCLE	+	+	+	Ø
OLD CITY #1	+	+	+	Ø

OLD CITY #2	+	+	+	Ø
PALISADES	+	+	+	Ø
PETWORTH	+	+	+	Ø
RANDLE HEIGHTS	+	+	+	Ø
R.L.A. (N.E.)	Ø	Ø	Ø	Ø
R.L.A. (S.W.)	+	+	+	Ø
RIGGS PARK	+	+	+	Ø
SHEPHERD PARK	Ø	Ø	Ø	Ø
16TH STREET HEIGHTS	+	+	+	Ø
SPRING VALLEY	+	+	+	Ø
TAKOMA PARK	Ø	Ø	Ø	Ø
TRINIDAD	+	+	+	Ø
WAKEFIELD	Ø	Ø	Ø	Ø
WESLEY HEIGHTS	+	+	+	Ø
WOODLEY	Ø	Ø	Ø	Ø
WOODRIDGE	+	+	+	Ø
FORT LINCOLN	+	+	+	Ø

+ = Meets IAAO Standard

✗ = Does not meet IAAO Standard

Ø = Insufficient data

**TABLE 7**  
**SUMMARY OF SALES RATIO STATISTICS FY 2011**

SALES RATIOS BY PROPERTY TYPE: CITY-WIDE								
PROPERTY TYPE	SALES	AVE PRICE	MED PRICE	MEDIAN	MEAN	WEIGHTED	COD	PRD
All	4,985	\$673,608	\$417,900	97.8	97.5	95.5	7	1.02
Residential	4,878	\$536,382	\$415,000	97.8	97.7	96.9	6	1.01
Commercial	107	\$6,929,575	\$915,000	91.6	90.3	90.3	21	1.00