

Government of the District of Columbia Mayor Muriel E. Bowser Office of the Chief Financial Officer Mr. Jeffrey S. DeWitt

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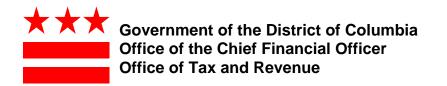
Office of Tax and Revenue

Real Property Tax Administration

FY 2016 Assessment

Ratio Report

Real Property Tax Administration 1101 4th Street, SW Washington, DC 20024 Phone (202) 442-6652 www.cfo.dc.gov December 14, 2015



December 14, 2015

The Honorable Muriel E. Bowser Mayor of the District of Columbia

and

The Honorable Phil Mendelson

Chairman of the Council of the District of Columbia

Dear Mayor Bowser and Chairman Mendelson:

In accordance with D.C. Code § 47-823(c), I am pleased to submit the Office of Tax and Revenue's (OTR) Fiscal Year 2016 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 2015 effective for Fiscal Year 2016. These reassessments reflected OTR's estimate of property values as of January 1, 2015. 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 2014.

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 2016 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) 2016, the District assessed approximately 200,000 properties. The magnitude of the reassessment requires the use of mass appraisal techniques. In using the mass appraisal technique, an RPTA appraiser values all properties in an entire neighborhood at a time with standardized appraisal method(s) and statistical testing. This is in contrast with the practice of a fee appraiser, who is concerned with valuing one property at a time.

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. Real estate market is an imperfect market; 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.

Subsequent portion of this report provides detailed explanation of the statistical terms as applied to assessment administration and quality control, and 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 includes 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 prices. The median 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 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. PRD 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	(2) Sale	(3) Assessed	(4) Ratio	(5) Deviation
Number	Price	Value	A/S%	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%
TOTAL	\$5,997,000	\$6,023,000	1500%	120%

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

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

International Association of Assessing Officers (IAAO) is a professional organization of assessing officials that provides educational programs, assessment administration standards and research on assessment and tax policy issues. 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

Type of property—General	Type of property—Specific	COD Range**						
Single-family residential (including residential		5.0 to 10.0						
condominiums)	Newer or more homogeneous areas							
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						
These types of property are provided for guidance only and may not represent jurisdictional requirements. * Appraisal level for each type of property shown should be between 0.90 and 1.10, unless stricter local standards are required. PRD's for each type of property should be between 0.98 and 1.03 to demonstrate vertical equity. PRD standards are not absolute and may be less meaningful when samples are small or when wide variations in prices exist. In such cases, statistical tests of vertical equity hypotheses should be substituted								
(see table 1-2).	ate sales chasing or non-representative sal							

IAAO's Ratio Study Performance Standards

Source: Standard on Ratio Studies; International Association of Assessing Officers; Kansas City, Mo; January, 2010; pp.18, 19.

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 2014 before the valuation date of January 1, 2015, that is the valuation date for the FY 2016 assessments. Generally, only sales that are verified as arms-length transactions 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) are not 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 6,690 sales of improved residential property and 300 sales of improved commercial property from January 1, 2014 to December 31, 2014, and it compares such sales to the administration's valuations on the tax roll for FY 2016.

Table 3 summarizes the FY 2016 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 2014 real estate sales. Table 6 provides a summary of the compliance with standards, by property type, for the FY 2016 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 2016 at approximately 97% of their respective sale prices and that on average all other properties have very similar ratios as indicated by the 8% 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 2016, fifty-one had a sufficient number of sales to be statistically relevant. All fifty-one residential neighborhoods met all applicable IAAO standards for assessment performance. In the case of commercial property, more weight is given to the income approach to valuation; additionally, 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.

FY 2016

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, 2014 and December 31, 2014, and such sales are compared with RPTA's FY 2016 reassessment effective January 1, 2015. 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	80	904,853	900,750	97.1	96.8	96.5	5	1.00
2	ANACOSTIA	67	274,579	280,000	94.4	95.4	92.9	11	1.03
3	BARRY FARMS	40	290,829	305,400	100.8	103.0	102.9	9	1.01
4	BERKELEY	35	1,958,397	1,400,000	98.0	98.1	98.1	7	1.00
5	BRENTWOOD	29	306,922	270,900	94.2	91.8	91.8	9	1.00
6	BRIGHTWOOD	152	485,629	470,000	96.6	96.5	95.9	8	1.01
7	BROOKLAND	239	506,019	500,000	97.2	97.9	97.4	8	1.01
8	BURLEITH	29	1,093,810	925,000	99.2	98.2	97.9	5	1.00
9	CAPITOL HILL	162	858,286	847,500	98.7	99.2	97.9	7	1.01
10	CENTRAL	440	749,580	592,025	94.3	93.5	90.5	8	1.03
11	CHEVY CHASE	191	976,170	918,500	98.2	98.2	98.4	6	1.00
12	CHILLUM	35	453,017	465,000	95.6	93.4	92.2	7	1.01
13	CLEVELAND PARK	114	812,019	440,250	98.3	99.2	98.2	6	1.01
14	COLONIAL VILLAGE	21	878,281	775,000	99.9	100.0	98.6	12	1.02
15	COLUMBIA HEIGHTS	513	498,049	485,000	97.4	97.6	96.6	8	1.01
16	CONGRESS HEIGHTS	65	236,402	245,000	95.0	95.9	93.6	13	1.03
17	CRESTWOOD	33	823,792	800,000	100.2	99.2	98.8	6	1.00
18	DEANWOOD	143	238,846	235,000	97.8	97.9	97.2	10	1.01
19	ECKINGTON	135	483,855	499,900	95.6	95.4	94.5	5	1.01
20	FOGGY BOTTOM	47	333,970	290,000	97.6	99.0	99.0	9	1.00
21	FOREST HILLS	66	675,509	390,000	98.4	97.6	98.3	4	0.99
22	FORT DUPONT PARK	53	241,613	230,000	94.6	94.1	91.9	13	1.02
23	FOXHALL	19	912,453	848,000	99.7	98.3	97.8	5	1.01
24	GARFIELD	45	704,885	505,000	98.1	97.6	97.1	6	1.01
25	GEORGETOWN	187	1,543,191	1,115,000	98.1	98.3	97.8	5	1.00
26	GLOVER PARK	66	606,552	625,500	98.3	98.8	98.2	3	1.01

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
27	HAWTHORNE	7	1,023,786	1,012,500	98.9	99.6	98.8	6	1.01
28	HILLCREST	72	291,609	327,000	98.8	97.5	96.3	9	1.01
29	KALORAMA	131	817,479	521,000	97.1	97.2	97.3	4	1.00
30	KENT	30	1,435,525	1,067,500	96.8	96.9	95.1	9	1.02
31	LEDROIT PARK	79	642,714	675,000	95.0	95.4	94.8	6	1.01
32	LILY PONDS	60	270,922	284,900	98.0	96.9	96.7	7	1.00
33	MARSHALL HEIGHTS	45	275,318	295,000	98.8	98.1	97.1	8	1.01
34	MASS. AVE. HEIGHTS	7	2,023,571	1,900,000	100.2	99.5	100.3	4	0.99
35	MICHIGAN PARK	24	457,290	444,500	98.7	99.5	99.4	4	1.00
36	MOUNT PLEASANT	214	628,366	612,450	97.8	97.8	97.3	7	1.01
37	N. CLEVELAND PARK	26	1,035,782	925,000	97.3	97.5	96.4	6	1.01
38	OBSERVATORY CIRCLE	70	859,822	681,000	97.2	97.2	97.5	7	1.00
39	OLD CITY #1	779	615,811	595,000	97.0	97.6	97.2	7	1.00
40	OLD CITY #2	931	603,796	505,000	97.0	96.9	96.2	6	1.01
41	PALISADES	50	1,155,798	1,160,000	98.4	97.4	97.2	5	1.00
42	PETWORTH	274	541,310	549,250	96.3	96.6	96.2	8	1.00
43	RANDLE HEIGHTS	67	278,002	274,829	98.9	98.6	97.1	10	1.01
44	NOMA	0	0	0	0.0	0.0	0.0	0	0.00
46	SW WATERFRONT	122	368,904	342,500	92.9	92.8	93.1	7	1.00
47	RIGGS PARK	76	353,486	348,250	94.2	94.9	94.2	8	1.01
48	SHEPHERD PARK	24	738,514	687,000	94.8	97.9	96.9	10	1.01
49	16TH STREET HEIGHTS	83	614,940	635,000	98.3	96.4	95.9	9	1.01
50	SPRING VALLEY	42	1,617,055	1,449,500	99.6	102.0	101.2	7	1.00
51	TAKOMA PARK	52	560,822	545,199	99.0	98.4	99.0	7	0.99
52	TRINIDAD	134	421,312	421,000	95.0	95.5	95.1	9	1.00
53	WAKEFIELD	23	630,530	508,000	96.9	93.8	96.1	6	0.98
54	WESLEY HEIGHTS	69	934,724	625,000	97.3	96.1	97.9	9	0.98
55	WOODLEY	5	1,589,800	1,450,000	97.2	97.9	97.7	7	1.00
56	WOODRIDGE	78	457,793	455,000	95.7	95.3	94.5	5	1.01
66	FORT LINCOLN	110	477,447	487,503	97.1	97.7	97.5	5	1.00

FY 2016

Commercial Real Property Assessment Ratio by Neighborhood

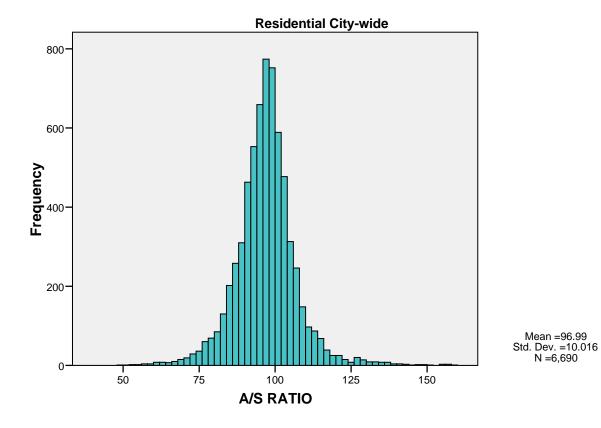
This table shows the real property assessment ratio data for commercial properties. The ratios concern arms-length sales of properties. The sales used were sold between January 1, 2014 and December 31, 2014, and such sales are compared with RPTA's FY 2016 reassessment effective January 1, 2015. In neighborhoods with fewer than 20 sales, the statistics may not represent actual market conditions due to the small sample size.

							~		
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	3	13,783,333	11,700,000	95.8	84.7	86.2	12	0.98
2	ANACOSTIA	4	735,191	727,500	99.3	98.0	98.4	3	1.00
3	BARRY FARMS	3	3,203,333	3,300,000	93.0	90.8	91.8	11	0.99
5	BRENTWOOD	14	4,861,090	2,450,000	96.0	104.0	105.1	22	0.99
6	BRIGHTWOOD	2	16,909,500	16,909,500	103.9	104.0	115.3	12	0.90
7	BROOKLAND	12	2,149,250	1,095,000	81.9	77.6	78.9	20	0.98
9	CAPITOL HILL	9	1,907,444	1,500,000	75.7	72.8	75.3	20	0.97
10	CENTRAL	40	79,036,408	9,625,000	95.5	95.3	96.7	8	0.99
11	CHEVY CHASE	1	7,225,000	7,225,000	99.9	99.9	99.9	0	1.00
12	CHILLUM	1	200,000	200,000	71.1	71.1	71.1	0	1.00
13	CLEVELAND PARK	2	6,037,500	6,037,500	82.9	82.9	82.6	1	1.00
15	COLUMBIA HEIGHTS	27	6,550,181	1,000,000	87.3	84.8	69.5	18	1.22
16	CONGRESS HEIGHTS	16	2,914,506	530,000	99.1	94.1	99.6	15	0.94
18	DEANWOOD	7	757,643	650,000	97.0	90.6	79.3	15	1.14
19	ECKINGTON	5	1,258,020	910,100	70.9	72.4	80.6	13	0.90
20	FOGGY BOTTOM	4	924,250	856,000	84.7	83.1	81.3	9	1.02
21	FOREST HILLS	2	12,237,500	12,237,500	89.5	89.5	98.1	11	0.91
22	FORT DUPONT PARK	1	549,000	549,000	100.0	100.0	100.0	0	1.00
24	GARFIELD	4	72,025,000	45,500,000	80.8	80.4	88.4	10	0.91
25	GEORGETOWN	17	8,325,118	1,375,000	91.2	92.7	93.7	11	0.99
26	GLOVER PARK	1	1,150,000	1,150,000	88.5	88.5	88.5	0	1.00
28	HILLCREST	1	2,150,000	2,150,000	100.1	100.0	100.1	0	1.00
29	KALORAMA	5	5,242,000	1,585,000	91.3	96.7	94.5	9	1.02
30	KENT	1	14,925,000	14,925,000	97.8	97.8	97.8	0	1.00

Type of Property: Commercial

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
31	LEDROIT PARK	1	890,000	890,000	52.9	52.9	52.9	0	1.00
32	LILY PONDS	1	3,100,000	3,100,000	77.4	77.4	77.4	0	1.00
33	MARSHALL HEIGHTS	2	748,750	748,750	103.6	104.0	103.6	0	1.00
35	MICHIGAN PARK	3	516,667	250,000	57.1	66.1	60.5	19	1.09
36	MOUNT PLEASANT	8	3,286,375	1,162,500	86.0	87.6	83.5	8	1.05
37	N. CLEVELAND PARK	2	2,005,000	2,005,000	67.7	67.7	51.6	37	1.31
39	OLD CITY #1	22	2,167,436	850,000	94.3	91.7	92.4	16	0.99
40	OLD CITY #2	24	8,012,856	1,772,500	75.6	80.4	90.1	30	0.89
41	PALISADES	2	1,525,000	1,525,000	101.6	102.0	105.8	6	0.96
42	PETWORTH	13	992,305	620,000	103.8	101.0	104.3	10	0.97
43	RANDLE HEIGHTS	5	1,543,400	1,414,000	96.7	96.5	96.2	3	1.00
44	NOMA	3	108,443,733	81,000,000	101.2	107.0	92.0	22	1.17
46	SW WATERFRONT	1	67,250,000	67,250,000	94.6	94.6	94.6	0	1.00
48	SHEPHERD PARK	2	1,565,000	1,565,000	86.7	86.7	86.3	1	1.00
49	16TH STREET HEIGHTS	4	856,750	801,000	85.6	85.8	85.1	5	1.01
51	TAKOMA PARK	5	2,687,447	725,000	94.1	105.0	83.9	22	1.25
52	TRINIDAD	7	1,700,964	625,000	93.0	89.2	90.3	9	0.99
53	WAKEFIELD	1	1,350,000	1,350,000	95.9	95.9	95.9	0	1.00
56	WOODRIDGE	12	1,079,917	750,000	89.6	84.3	85.7	17	0.98

FY 2016 HISTOGRAM OF RESIDENTIAL SALES RATIOS



GRAPH OF SALES RATIOS

Compliance with IAAO Ratio Study Performance Standards for FY 2016 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.

2016	Residential Median Ratio	Residential Coefficient of Dispersion	Residential Price-Related Differential	Commercial Median Ratio
AMERICAN UNIVERSITY	+	+	+	Ø
ANACOSTIA	+	+	+	Ø
BARRY FARMS	+	+	+	Ø
BERKELEY	+	+	+	Ø
BRENTWOOD	+	+	+	Ø
BRIGHTWOOD	+	+	+	Ø
BROOKLAND	+	+	+	Ø
BURLEITH	+	+	+	Ø
CAPITOL HILL	+	+	+	Ø
CENTRAL	+	+	+	+
CHEVY CHASE	+	+	+	Ø
CHILLUM	+	+	+	Ø
CLEVELAND PARK	+	+	+	Ø
COLONIAL VILLAGE	+	+	+	Ø
COLUMBIA HEIGHTS	+	+	+	Х
CONGRESS HEIGHTS	+	+	+	Ø
CRESTWOOD	+	+	+	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

2016	Residential Median Ratio	Residential Coefficient of Dispersion	Residential Price-Related Differential	Commercial Median Ratio
KALORAMA	+	+	+	Ø
KENT	+	+	+	Ø
LEDROIT PARK	+	+	+	Ø
LILY PONDS	+	+	+	Ø
MARSHALL HEIGHTS	+	+	+	Ø
MASS. AVE. HEIGHTS	Ø	Ø	Ø	Ø
MICHIGAN PARK	+	+	+	Ø
MOUNT PLEASANT	+	+	+	Ø
N. CLEVELAND PARK	+	+	+	Ø
OBSERVATORY CIRCLE	+	+	+	Ø
OLD CITY #1	+	+	+	+
OLD CITY #2	+	+	+	x
PALISADES	+	+	+	Ø
PETWORTH	+	+	+	Ø
RANDLE HEIGHTS	+	+	+	Ø
NOMA	Ø	Ø	Ø	Ø
SW WATERFRONT	+	+	+	Ø
RIGGS PARK	+	+	+	Ø
SHEPHERD PARK	+	+	+	Ø
16TH STREET HEIGHTS	+	+	+	Ø
SPRING VALLEY	+	+	+	Ø
TAKOMA PARK	+	+	+	Ø
TRINIDAD	+	+	+	Ø
WAKEFIELD	+	+	+	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

SUMMARY OF SALES RATIO STATISTICS FY 2016

	SALES RATIO BY PROPERTY: CITY WIDE												
PROPERTY TYPE	SALES	AVG PRICE	MED PRICE	MEDIAN	MEAN	WEIGHTED	COD	PRD					
All	6,990	1,306,799	532,500	97.0	96.7	95.3	8	1.01					
Residential	6,690	639,340	521,000	97.0	97.0	96.5	7	1.01					
Commercial	300	16,191,139	1,394,500	92.6	89.7	94.2	15	0.95					