Area 6 – Haller Lake/ North Greenwood/ Crown Hill
Area 7 – Northgate/ Maple Leaf/ Meadowbrook
Area 19 – West Ballard
Area 82 – East Ballard

Residential Revalue for 2022 Assessment Roll

King County
Department of Assessments
Setting values, serving the community, and pursuing excellence

KSC – AS – 0708
201 S. Jackson St., Room 708
Seattle, WA 98104

OFFICE (206) 296-7300   FAX (206) 296-0595
Email: assessor.info@kingcounty.gov
http://www.kingcounty.gov/assessor/

Dear Property Owners,

Our field appraisers work hard throughout the year to visit properties in neighborhoods across King County. As a result, new commercial and residential valuation notices are mailed as values are completed. We value your property at its "true and fair value," reflecting its highest and best use as prescribed by state law (RCW 84.40.030; WAC 458-07-030).

We continue to work to implement your feedback and ensure we provide you accurate and timely information. We have made significant improvements to our website and online tools to make interacting with us easier. The following report summarizes the results of the assessments for your area. Additionally, I have provided a brief tutorial on our property assessment process. It is meant to provide you with background information about our process and the basis for your area assessments.

Fairness, accuracy, and transparency set the foundation for an effective and accountable government. I am pleased to continue to incorporate your input as we make ongoing improvements to serve you. Our goal is to ensure every taxpayer is treated fairly and equitably.

Our office is here to serve you. Please don't hesitate to contact us if you ever have any questions, comments, or concerns about the property assessment process and how it relates to your property.

In Service,

John Wilson
King County Assessor

How Property Is Valued

King County along with Washington's 38 other counties use mass appraisal techniques to value all real property each year for property assessment purposes.

What Are Mass Appraisal Techniques?

In King County the Mass Appraisal process incorporates statistical testing, generally accepted valuation methods, and a set of property characteristics for approximately 700,000 residential, commercial, and industrial properties. More specifically for residential property, we break up King County into 88 residential market areas and annually develop market models from the sale of properties using multiple regression statistical tools. The results of the market models are then applied to all similarly situated homes within the same appraisal area.

Are Properties Inspected?

All property in King County is physically inspected at least once during each six-year cycle. Each year our appraisers inspect a different geographic area. An inspection is frequently an external observation of the property to confirm whether the property has changed by adding new improvements or shows signs of deterioration more than normal for the property's age. From the property inspections we update our property assessment records for each property. In cases where an appraiser has a question, they will leave or mail a card requesting the property owner contact them.

> RCW 84.40.025 - Access to property
>> For the purpose of assessment and valuation of all taxable property in each county, any real or personal property in each county shall be subject to visitation, investigation, examination, discovery, and listing at any reasonable time by the county assessor of the county or by any employee thereof designated for this purpose by the assessor.
>>
>> In any case of refusal to such access, the assessor shall request assistance from the department of revenue which may invoke the power granted by chapter 84.08 RCW.

How Are Property Sales Used?

For the annual revaluation of residential properties, three years of sales are analyzed with the sales prices time adjusted to January 1 of the current assessment year. Sales prices are adjusted for time to reflect that market prices change over time. During an increasing market, older sales prices often understate the current market value. Conversely, during downward (or recessionary) markets, older sales prices may overstate a property's value on January 1 of the assessment year unless sales are time adjusted. Hence time adjustments are an important element in the valuation process.

How is Assessment Uniformity Achieved?

We have adopted the Property Assessment Standards prescribed by the International Association of Assessing Officers that may be reviewed at www.IAAO.org. As part of our valuation process statistical testing is performed by reviewing the uniformity of assessments within each specific market area, property type, and quality grade or residence age. More specifically Coefficients of Dispersion (aka COD) are developed that show the uniformity of predicted property assessments. We have set our target CODs using the standards set by IAAO which are summarized in the following table:

Type of property - General	Type of property - Specific	COD Range
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 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

Source: IAAO, Standard on Ratio Studies, 2013, Table 1-3

More results of the statistical testing process is found within the attached area report.

Requirements of State Law

Within Washington State, property is required to be revalued each year to market value based on its highest and best use. (RCW 84.41.030; 84.40.030; and WAC 458-07-030). Washington Courts have interpreted fair market value as the amount of money a buyer, willing but not obligated to buy, would pay to a seller willing but not obligated to sell. Highest and Best Use is simply viewed as the most profitable use that a property can be legally used for. In cases where a property is underutilized by a property owner, it still must be valued at its highest and best use.

Appraisal Area Reports

The following area report summarizes the property assessment activities and results for general market areas. The areas listed and analyzed in this report represent groupings combined for the purposes of determining time trend. Each area was analyzed separately for the final assessment level analysis. The area report is meant to comply with state law for appraisal documentation purposes as well as provide the public with insight into the mass appraisal process.

King County
Department of Assessments
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John Wilson
Assessor

Area 6 – Haller Lake/ North Greenwood/ Crown Hill
Area 7 – Northgate/ Maple Leaf/ Meadowbrook
Area 19 – West Ballard
Area 82 – East Ballard
2022 Assessment Roll Year

Recommendation is made to post values for Areas 6, 7, 19 and 82 to the 2023 tax roll:

Steve Elliott	8/2/2022
Appraiser II: Steve Elliott	Date
M. de la Pena	09/07/2022
NW District Senior Appraiser: Maria de la Pena	Date
Jeff Darrow	9/08/2022
Residential Division Director: Jeff Darrow	Date

This report is hereby accepted, and the values described in the attached documentation for Areas 6, 7, 19 and 82 should be posted to the 2023 tax roll.

John Wilson	9/12/2022
John Wilson, King County Assessor	Date

Executive Summary
Areas 6, 7, 19 and 82
Annual Update
Characteristics Based Market Adjustment for 2022 Assessment Roll

Appraisal Date: 1/1/2022
Area 6 Number of Improved Sales: 1,595
Area 7 Number of Improved Sales: 1,159
Area 19 Number of Improved Sales: 1,264
Area 82 Number of Improved Sales: 1,291
Range of Sale Dates: 1/1/2019 – 12/31/2021 Sales were time adjusted to 1/1/2022

Improved Valuation Change Summary – Sales and Population								
Area	2021 Total Value	2022 Total Value	$ Change	% Change	Mean Sale Price	Ratio	2021 COD	2022 COD
Area 6 Sales	$667,900	$733,800	+$65,900	+9.9%	$800,100	91.7%	9.04%	7.91%
Area 6 Pop	$662,400	$739,600	+$77,200	+11.7%				
Area 7 Sales	$733,800	$822,800	+$89,000	+12.1%	$897,700	92.1%	8.93%	7.98%
Area 7 Pop	$717,700	$810,100	+$92,400	+12.9%				
Area 19 Sales	$857,400	$925,600	+$68,200	+8.0%	$1,009,400	91.6%	8.91%	7.75%
Area 19 Pop	$849,000	$935,300	+$86,300	+10.2%				
Area 82 Sales	$860,000	$905,400	+$45,400	+5.3%	$988,900	92.2%	10.79%	7.33%
Area 82 Pop	$847,400	$921,800	+$74,400	+8.8%				

Coefficient of Dispersion (COD) is a measure of the uniformity of the predicted assessed values for properties within this geographic area. Areas 6, 7, 19 and 82 are more heterogeneous market areas and the COD threshold prescribed by the International Association of Assessing Officers should be no more than 15%. The resulting COD meets or exceeds the industry assessment standards and have improved since the previous year.

The International Association of Assessing Officers recommends a range of 0.90 to 1.10. The resulting assessment level meets or exceeds the industry assessment standards and have improved since the previous year.

Area 6 Annual Update Ratio Study Report
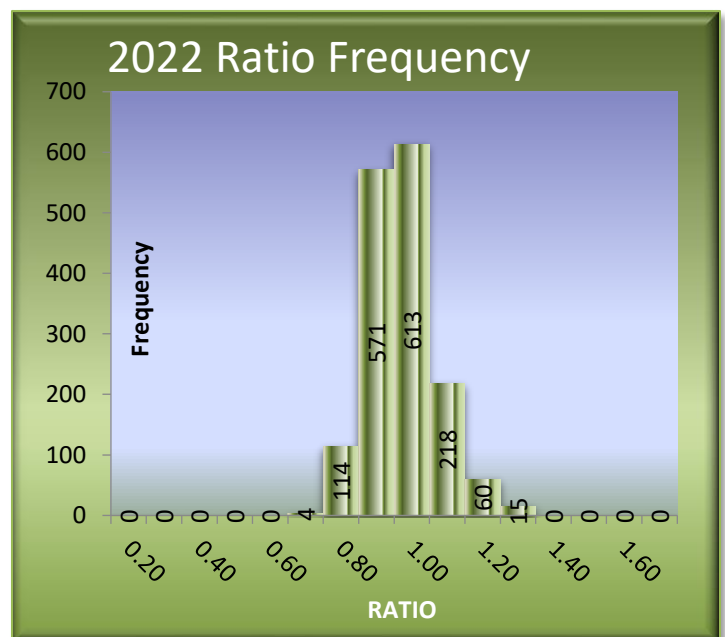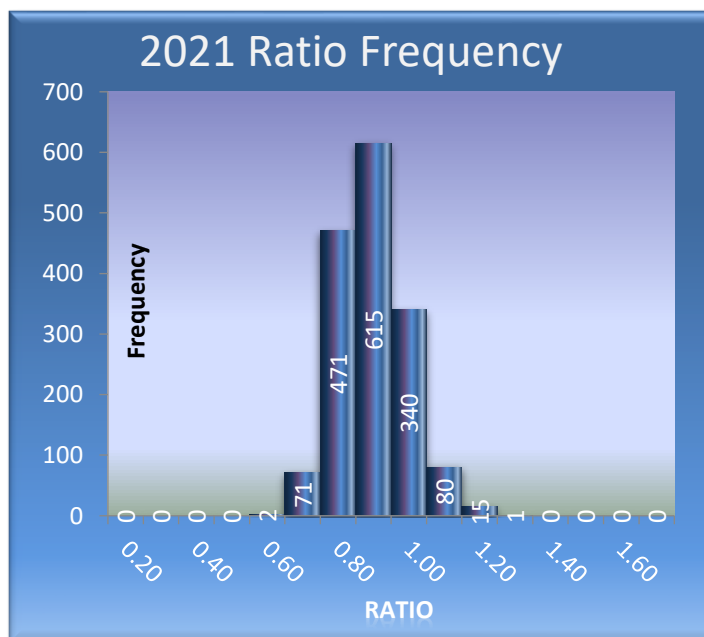
PRE-REVALUE RATIO ANALYSIS

Pre-revalue ratio analysis compares time-adjusted sales from 2019 through 2021 in relation to the previous assessed value as of 1/1/2021.

POST-REVALUE RATIO ANALYSIS

Post revalue ratio analysis compares time-adjusted sales from 2019 through 2021 and reflects the assessment level after the property has been revalued to 1/1/2022.

PRE-REVALUE RATIO SAMPLE STATISTICS	
Sample size (n)	1,595
Mean Assessed Value	$667,900
Mean Adj. Sales Price	$800,100
Standard Deviation AV	$180,928
Standard Deviation SP	$242,371
ASSESSMENT LEVEL	
Arithmetic Mean Ratio	0.846
Median Ratio	0.841
Weighted Mean Ratio	0.835
UNIFORMITY	
Lowest ratio	0.567
Highest ratio:	1.233
Coefficient of Dispersion	9.04%
Standard Deviation	0.095
Coefficient of Variation	11.27%
Price Related Differential (PRD)	1.013
Price Related Bias (PRB)	-0.076

POST REVALUE RATIO SAMPLE STATISTICS	
Sample size (n)	1,595
Mean Assessed Value	$733,800
Mean Sales Price	$800,100
Standard Deviation AV	$212,560
Standard Deviation SP	$242,371
ASSESSMENT LEVEL	
Arithmetic Mean Ratio	0.924
Median Ratio	0.917
Weighted Mean Ratio	0.917
UNIFORMITY	
Lowest ratio	0.643
Highest ratio:	1.268
Coefficient of Dispersion	7.91%
Standard Deviation	0.094
Coefficient of Variation	10.15%
Price Related Differential (PRD)	1.008
Price Related Bias (PRB)	-0.028

2021 Ratio Frequency

2022 Ratio Frequency

Area 7 Annual Update Ratio Study Report
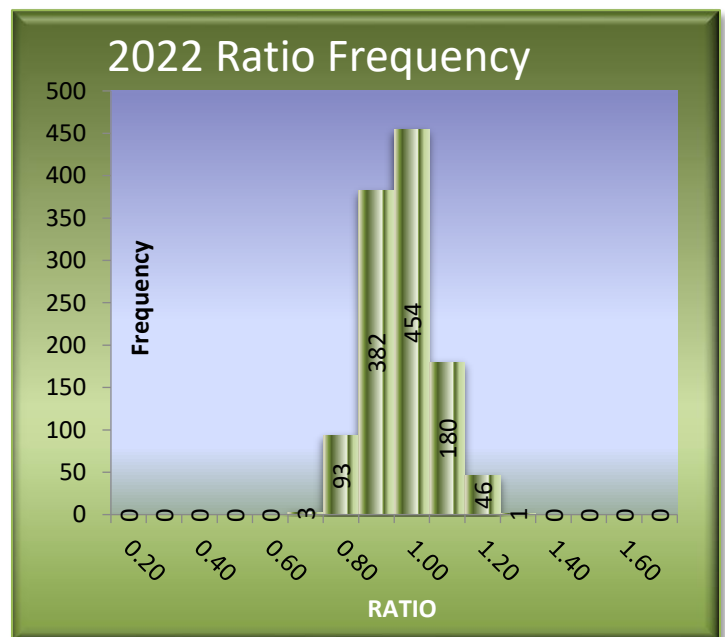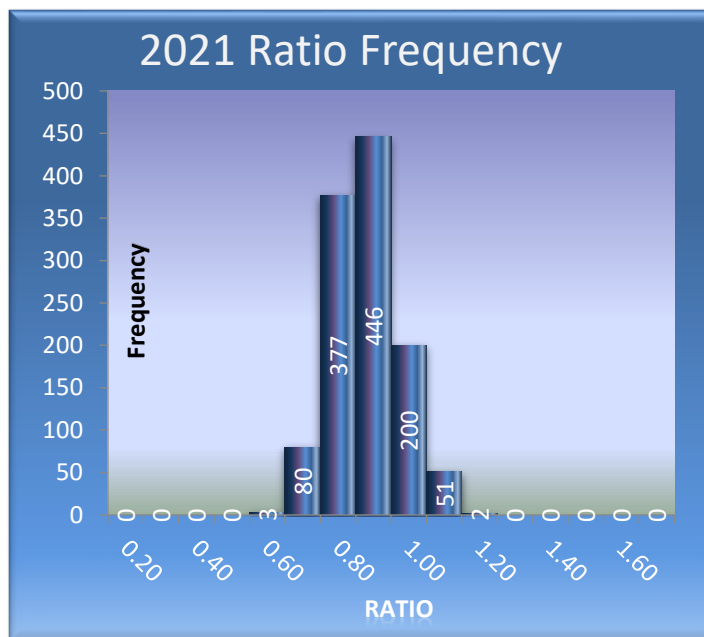
PRE-REVALUE RATIO ANALYSIS

Pre-revalue ratio analysis compares time-adjusted sales from 2019 through 2021 in relation to the previous assessed value as of 1/1/2021.

PRE-REVALUE RATIO SAMPLE STATISTICS	
Sample size (n)	1,159
Mean Assessed Value	$733,800
Mean Adj. Sales Price	$897,700
Standard Deviation AV	$191,544
Standard Deviation SP	$264,297
ASSESSMENT LEVEL	
Arithmetic Mean Ratio	0.829
Median Ratio	0.824
Weighted Mean Ratio	0.817
UNIFORMITY	
Lowest ratio	0.593
Highest ratio:	1.135
Coefficient of Dispersion	8.93%
Standard Deviation	0.091
Coefficient of Variation	11.01%
Price Related Differential (PRD)	1.014
Price Related Bias (PRB)	-0.082

POST-REVALUE RATIO ANALYSIS

Post revalue ratio analysis compares time-adjusted sales from 2019 through 2021 and reflects the assessment level after the property has been revalued to 1/1/2022.

POST REVALUE RATIO SAMPLE STATISTICS	
Sample size (n)	1,159
Mean Assessed Value	$822,800
Mean Sales Price	$897,700
Standard Deviation AV	$229,887
Standard Deviation SP	$264,297
ASSESSMENT LEVEL	
Arithmetic Mean Ratio	0.924
Median Ratio	0.921
Weighted Mean Ratio	0.917
UNIFORMITY	
Lowest ratio	0.674
Highest ratio:	1.212
Coefficient of Dispersion	7.98%
Standard Deviation	0.093
Coefficient of Variation	10.07%
Price Related Differential (PRD)	1.009
Price Related Bias (PRB)	-0.035

2021 Ratio Frequency

2022 Ratio Frequency

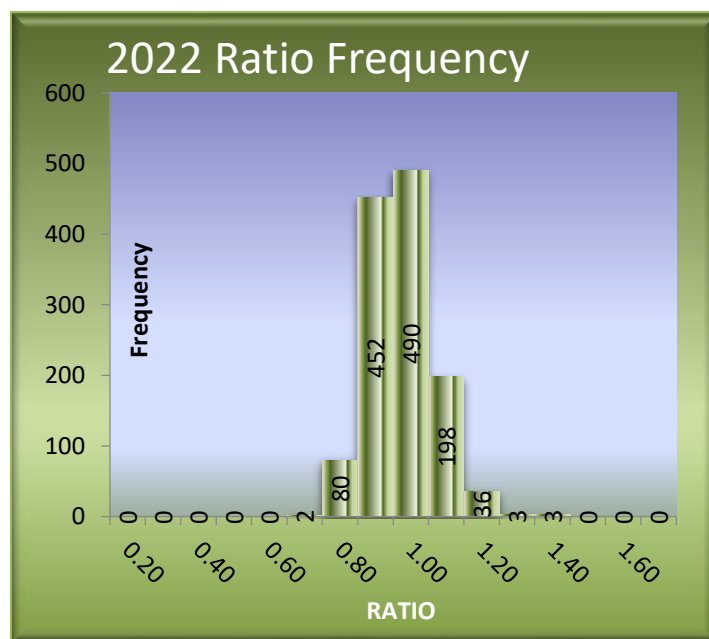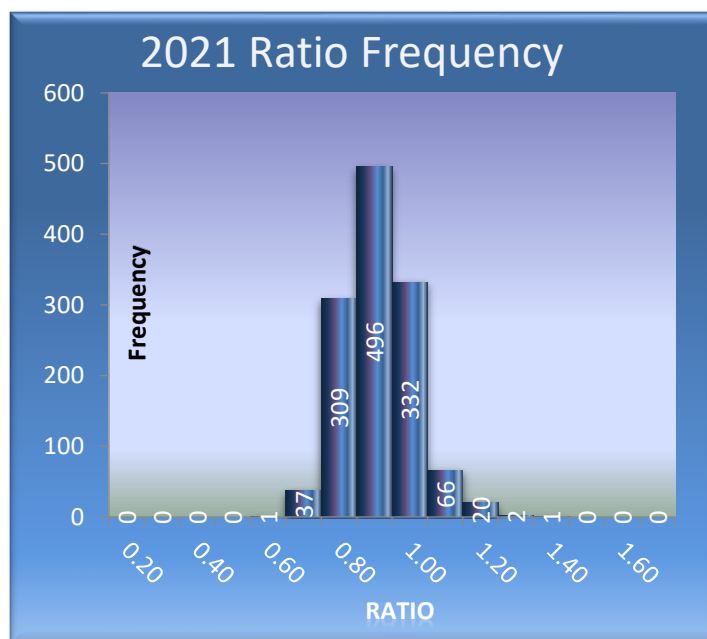# Area 19 Annual Update Ratio Study Report

PRE-REVALUE RATIO ANALYSIS

Pre-revalue ratio analysis compares time-adjusted sales from 2019 through 2021 in relation to the previous assessed value as of 1/1/2021.

PRE-REVALUE RATIO SAMPLE STATISTICS	
Sample size (n)	1,264
Mean Assessed Value	$857,400
Mean Adj. Sales Price	$1,009,400
Standard Deviation AV	$230,715
Standard Deviation SP	$312,369
ASSESSMENT LEVEL	
Arithmetic Mean Ratio	0.863
Median Ratio	0.860
Weighted Mean Ratio	0.849
UNIFORMITY	
Lowest ratio	0.574
Highest ratio:	1.327
Coefficient of Dispersion	8.91%
Standard Deviation	0.097
Coefficient of Variation	11.27%
Price Related Differential (PRD)	1.016
Price Related Bias (PRB)	-0.100

POST-REVALUE RATIO ANALYSIS

Post revalue ratio analysis compares time-adjusted sales from 2019 through 2021 and reflects the assessment level after the property has been revalued to 1/1/2022.

POST REVALUE RATIO SAMPLE STATISTICS	
Sample size (n)	1,264
Mean Assessed Value	$925,600
Mean Sales Price	$1,009,400
Standard Deviation AV	$274,190
Standard Deviation SP	$312,369
ASSESSMENT LEVEL	
Arithmetic Mean Ratio	0.924
Median Ratio	0.916
Weighted Mean Ratio	0.917
UNIFORMITY	
Lowest ratio	0.646
Highest ratio:	1.353
Coefficient of Dispersion	7.75%
Standard Deviation	0.091
Coefficient of Variation	9.85%
Price Related Differential (PRD)	1.008
Price Related Bias (PRB)	-0.032

2021 Ratio Frequency

2022 Ratio Frequency

# Area 82 Annual Update Ratio Study Report

PRE-REVALUE RATIO ANALYSIS

Pre-revalue ratio analysis compares time-adjusted sales from 2019 through 2021 in relation to the previous assessed value as of 1/1/2021.

POST-REVALUE RATIO ANALYSIS

Post revalue ratio analysis compares time-adjusted sales from 2019 through 2021 and reflects the assessment level after the property has been revalued to 1/1/2022.

PRE-REVALUE RATIO SAMPLE STATISTICS	
Sample size (n)	1,291
Mean Assessed Value	$860,000
Mean Adj. Sales Price	$988,900
Standard Deviation AV	$236,112
Standard Deviation SP	$342,089
ASSESSMENT LEVEL	
Arithmetic Mean Ratio	0.894
Median Ratio	0.887
Weighted Mean Ratio	0.870
UNIFORMITY	
Lowest ratio	0.600
Highest ratio:	1.260
Coefficient of Dispersion	10.79%
Standard Deviation	0.116
Coefficient of Variation	12.99%
Price Related Differential (PRD)	1.028
Price Related Bias (PRB)	-0.188

POST REVALUE RATIO SAMPLE STATISTICS	
Sample size (n)	1,291
Mean Assessed Value	$905,400
Mean Sales Price	$988,900
Standard Deviation AV	$295,017
Standard Deviation SP	$342,089
ASSESSMENT LEVEL	
Arithmetic Mean Ratio	0.924
Median Ratio	0.922
Weighted Mean Ratio	0.916
UNIFORMITY	
Lowest ratio	0.674
Highest ratio:	1.300
Coefficient of Dispersion	7.33%
Standard Deviation	0.086
Coefficient of Variation	9.28%
Price Related Differential (PRD)	1.010
Price Related Bias (PRB)	-0.040

2021 Ratio Frequency

2022 Ratio Frequency
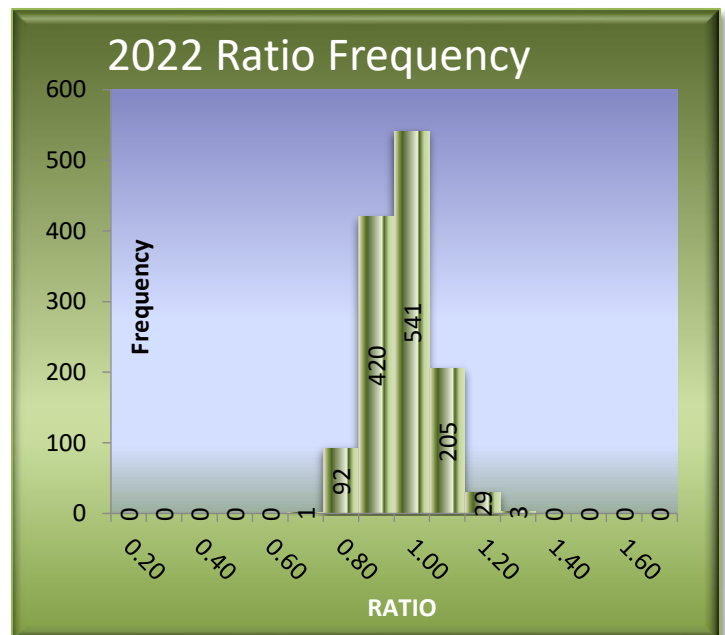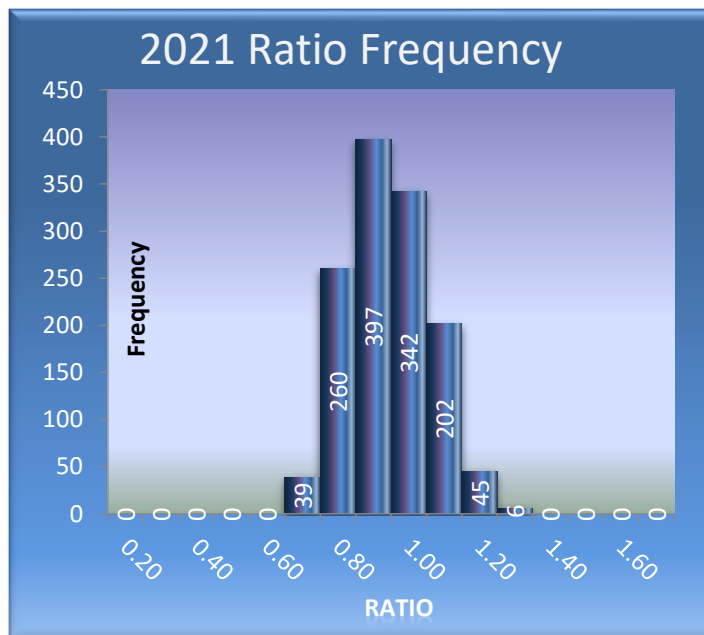
Annual Update Process

Effective Date of Appraisal: January 1, 2022
Date of Appraisal Report: August 1, 2022

Sales Screening for Improved Parcel Analysis

In order to ensure that the Assessor's analysis of sales of improved properties best reflects the market value of the majority of the properties within an area, non-typical properties must be removed so a representative sales sample can be analyzed to determine the new valuation level. The following list illustrates examples of non-typical properties which are removed prior to the beginning of the analysis.

1. Vacant parcels
2. Mobile Home parcels
3. Multi-Parcel or Multi Building parcels
4. New construction where less than a 100% complete house was assessed for 2021
5. Existing residences where the data for 2021 is significantly different than the data for 2022 due to remodeling
6. Parcels with improvement values, but no characteristics
7. Parcels with either land or improvement values of $25,000 or less posted for the 2021 Assessment Roll
8. Short sales, financial institution re-sales and foreclosure sales verified or appearing to be not at market
   (Available sales and additional Area information can be viewed from sales lists (006, 007, 019, 082), eSales and Localscape)

Land Update

Area	Previous Land Value	Restrictions	Adjustment
6	<=$10,000		Previous Land Value * 1
6	>$10,000		Previous Land Value * 1.099
6	>$10,000	Restricted Sewer/ Water or Unbuildable	Previous Land Value * 1
7	<=$10,000		Previous Land Value * 1
7	>$10,000		Previous Land Value * 1.121
7	>$10,000	Restricted Sewer/ Water or Unbuildable	Previous Land Value * 1
19	<=$10,000		Previous Land Value * 1
19	>$10,000		Previous Land Value * 1.080
19	>$10,000	Restricted Sewer/ Water or Unbuildable	Previous Land Value * 1
82	<=$10,000		Previous Land Value * 1
82	>$10,000		Previous Land Value * 1.053
82	>$10,000	Restricted Sewer/ Water or Unbuildable	Previous Land Value * 1

With results truncated to the next $1,000.

Parcels with minimal values below the stated thresholds do not typically follow broader market trends.

Model Adjustments

1-3 Unit Residences

2022 Total Value = 2021 Total Value + Overall (+/-) Characteristic Adjustments

Due to truncating the coefficient values used to develop the percentages and further rounding of the percentages in this table, the results you will obtain are an approximation of adjustment achieved in production.

The percentages listed in the following table are total adjustments, not additive adjustments.

Area	Standard Adj %	# Parcels Adjusted	% of Population	Model Variable	Adj %	# of Sales	# of Pop	% Representation
6	+13.30%	7,015	79%	THmod	+5.29%	563	1,835	31%
				TH97andWdlwn	-3.82%	9	8	113%
				TH97andAsh	-13.52%	4	4	100%
				TH95andAsh	-17.51%	6	6	100%
				TH88andMidv	-6.76%	15	13	115%
				TH88andMdvl	-9.96%	8	8	100%
				TH85andMary	-0.83%	21	21	100%
				TH85andInlk	-6.24%	7	6	117%
7	+13.72%	6,804	81%	SFRGrd9	+20.35%	33	212	16%
				SFRSub1	+10.33%	106	804	13%
				TH120and14th	-5.86%	6	6	100%
				TH123rdand14th	-4.19%	5	5	100%
				TH125thand15th	-4.19%	8	8	100%
				THNgateand11th	-8.35%	8	8	100%
				THmodified	+2.35%	131	545	24%

Area	Standard Adj %	# Parcels Adjusted	% of Population	Model Variable	Adj %	# of Sales	# of Pop	% Representation
19	+12.78%	4,433	70%	DuplTriplSFR	+5.32%	20	263	8%
				ThomeSub1	+4.47%	513	1,335	38%
				ThomeSub10	+0.09%	130	297	44%
				TH65and24th	-14.51%	7	7	100%
				TH59and28th	-17.79%	7	7	100%
				TH59and22nd	-14.88%	6	6	100%
82	+12.36%	3,673	59%	Sub2SFR	+9.94%	243	1,523	16%
				TownhousePlat	-7.25%	498	1,070	47%

The analysis for these combined areas consisted of a general review of applicable characteristics such as grade, age, condition, stories, living area, views, waterfront, lot size, land problems, and neighborhoods. The analysis results showed that several location-based and characteristic-based variables were needed to be included in the valuation formula in order to improve the uniformity of assessments throughout the areas.

There were no properties that would receive a multiple variable adjustment.

Improved Parcel Update

The analysis for these combined areas consisted of a general review of applicable characteristics such as grade, age, condition, stories, living area, views, waterfront, lot size, land problems, and neighborhoods. The analysis results showed that several location-based and characteristic-based variables were needed to be included in the valuation formula in order to improve the uniformity of assessments throughout the areas.

The derived adjustment formula for Area 6 is:
2022 Total Value = 2021 Total Value *(1-0.075)/ (0.816402005434513 + 0.170169394422631 * TH85andInlk + 0.116309838184536 * TH85andMary + 0.210961749940489 * TH88andMdvl + 0.175623112098822 * TH88andMidv + 0.304975538398821 * TH95andAsh + 0.253207270065489 * TH97andAsh + 0.145298556121044 * TH97andWdlwn + 0.0621103412475489 * THmod)

> The resulting total value is truncated to the next $1,000, then:
> 2022 Improvements Value = 2022 Total Value minus 2022 Land Value

The derived adjustment formula for Area 7 is:
2022 Total Value = 2021 Total Value *(1-0.075)/ (0.813406598738979 - 0.044811818799585 * SFRGrd9 + 0.024968543213851 * SFRSub1 + 0.169134519927688 * TH120and14th + 0.152003466661021 * TH123rdand14th + 0.15203822963602 * TH125thand15th + 0.0903114977877384 * THmodified + 0.195882693011021 * THNgateand11th)

> The resulting total value is truncated to the next $1,000, then:
> 2022 Improvements Value = 2022 Total Value minus 2022 Land Value

The derived adjustment formula for Area 19 is:
2022 Total Value = 2021 Total Value *(1-0.075)/ (0.820151827736661 + 0.058160950013339 * DuplTriplSFR + 0.266592713763339 * TH59and22nd + 0.304981721406196 * TH59and28th + 0.261844420549053 * TH65and24th + 0.0652646884095378 * ThomeSub1 + 0.103986534878724 * ThomeSub10)

> The resulting total value is truncated to the next $1,000, then:
> 2022 Improvements Value = 2022 Total Value minus 2022 Land Value

The derived adjustment formula for Area 82 is:
2022 Total Value = 2021 Total Value *(1-0.075)/ (0.823253891889091 + 0.0181371433495922 * Sub2SFR + 0.174022486757496 * TownhousePlat)

> The resulting total value is truncated to the next $1,000, then:
> 2022 Improvements Value = 2022 Total Value minus 2022 Land Value

Area	Previous Imp Value	Restrictions	Adjustment
6	<$1,000		Previous Imp Value * 1
6	>=$1,000 <=$10,000		Model Adjustment or Previous Imp Value * 1, whichever is less.
6	>$10,000		Model Adjustment
6	>$10,000	Restricted Sewer, Restricted Water, Unbuildable, Poor Condition, or Net Condition	Model Adjustment or Previous Imp Value * 1, whichever is less.

2022 Annual Update

King County
Department of Assessments

13

Area	Previous Imp Value	Restrictions	Adjustment
7	<$1,000		Previous Imp Value * 1
7	>=$1,000 <=$10,000		Model Adjustment or Previous Imp Value * 1, whichever is less.
7	>$10,000		Model Adjustment
7	>$10,000	Restricted Sewer, Restricted Water, Unbuildable, Poor Condition, or Net Condition	Model Adjustment or Previous Imp Value * 1, whichever is less.
19	<$1,000		Previous Imp Value * 1
19	>=$1,000 <=$10,000		Model Adjustment or Previous Imp Value * 1, whichever is less.
19	>$10,000		Model Adjustment
19	>$10,000	Restricted Sewer, Restricted Water, Unbuildable, Poor Condition, or Net Condition	Model Adjustment or Previous Imp Value * 1, whichever is less.
82	<$1,000		Previous Imp Value * 1
82	>=$1,000 <=$10,000		Model Adjustment or Previous Imp Value * 1, whichever is less.
82	>$10,000		Model Adjustment
82	>$10,000	Restricted Sewer, Restricted Water, Unbuildable, Poor Condition, or Net Condition	Model Adjustment or Previous Imp Value * 1, whichever is less.

Parcels with minimal values below the stated thresholds do not typically follow broader market trends.

Exception Parcels

The following exception parcels were deemed to not follow broader market trends and were adjusted as follows.

Area	Exception Type	Adjustment
6	Multiple Improvements	Model Adjustment from primary improvement
6	House and Mobile Home	Model Adjustment from primary improvement
6	Mobile Home only	Previous Total Value * 1.099
6	Accessory only	Previous Total Value * 1.099
7	Multiple Improvements	Model Adjustment from primary improvement
7	House and Mobile Home	Model Adjustment from primary improvement
7	Mobile Home only	Previous Total Value * 1.121
7	Accessory only	Previous Total Value * 1.121
19	Multiple Improvements	Model Adjustment from primary improvement
19	House and Mobile Home	Model Adjustment from primary improvement
19	Mobile Home only	Previous Total Value * 1.080
19	Accessory only	Previous Total Value * 1.080
82	Multiple Improvements	Model Adjustment from primary improvement
82	House and Mobile Home	Model Adjustment from primary improvement
82	Mobile Home only	Previous Total Value * 1.053
82	Accessory only	Previous Total Value * 1.053

Any properties excluded from the annual up-date process are noted in RealProperty.

Areas 6, 7, 19 and 82 Market Value Changes Over Time for Non – Townhouse Residences

In a changing market, recognition of a sales trend to adjust a population of sold properties to a common date is required to allow for value differences over time. Market conditions prevalent in the last three years indicated that the best methodology for tracking market movement through time is a modeling technique using splines. Put simply, this is a way of drawing best-fit lines through the data points in situations where there may be several different trends going on at different times. Splines are the use of two or more straight lines to approximate trends and directions in the market. Splines are best suited to react to sudden market changes. To create larger and more reliable data sets for time trending, it was necessary in most instances to combine geographic areas that were performing similarly in the marketplace. The following chart shows the % time adjustment required for sales to reflect the indicated market value as of the assessment date, **January 1, 2022**.

The **non-townhouse** time adjustment formula for Areas 6, 7, 19 and 82 is:

(0.821080075883687-0.000269494981003239*((SaleDate>=43723)*SaleDate+(SaleDate<43723)*43723-44562))/(0.821080075883687)

For example, a sale of $650,000 which occurred on October 1, 2020 would be adjusted by the time trend factor of 1.150, resulting in an adjusted value of $747,000 ($650,000 * 1.150=$747,500) – truncated to the nearest $1000.

Areas 6, 7, 19 and 82

Non-Townhouse Market Value Changes Over

Time...continued

Sale Date	Adjustment (Factor)	Equivalent Percent
1/1/2019	1.275	27.5%
2/1/2019	1.275	27.5%
3/1/2019	1.275	27.5%
4/1/2019	1.275	27.5%
5/1/2019	1.275	27.5%
6/1/2019	1.275	27.5%
7/1/2019	1.275	27.5%
8/1/2019	1.275	27.5%
9/1/2019	1.275	27.5%
10/1/2019	1.270	27.0%
11/1/2019	1.260	26.0%
12/1/2019	1.250	25.0%
1/1/2020	1.240	24.0%
2/1/2020	1.230	23.0%
3/1/2020	1.220	22.0%
4/1/2020	1.210	21.0%
5/1/2020	1.200	20.0%
6/1/2020	1.190	19.0%
7/1/2020	1.180	18.0%
8/1/2020	1.170	17.0%
9/1/2020	1.160	16.0%
10/1/2020	1.150	15.0%
11/1/2020	1.140	14.0%
12/1/2020	1.130	13.0%
1/1/2021	1.120	12.0%
2/1/2021	1.110	11.0%
3/1/2021	1.100	10.0%
4/1/2021	1.090	9.0%
5/1/2021	1.080	8.0%
6/1/2021	1.070	7.0%
7/1/2021	1.060	6.0%
8/1/2021	1.050	5.0%
9/1/2021	1.040	4.0%
10/1/2021	1.030	3.0%
11/1/2021	1.020	2.0%
12/1/2021	1.010	1.0%
1/1/2022	1.000	0.0%

Areas 6, 7, 19 and 82 Market Value Changes Over Time for Townhouse Style Residences

In a changing market, recognition of a sales trend to adjust a population of sold properties to a common date is required to allow for value differences over time. Market conditions prevalent in the last three years indicated that the best methodology for tracking market movement through time is a modeling technique using splines. Put simply, this is a way of drawing best-fit lines through the data points in situations where there may be several different trends going on at different times. Splines are the use of two or more straight lines to approximate trends and directions in the market. Splines are best suited to react to sudden market changes. To create larger and more reliable data sets for time trending, it was necessary in most instances to combine geographic areas that were performing similarly in the marketplace. The following chart shows the % time adjustment required for sales to reflect the indicated market value as of the assessment date, **January 1, 2022**.

The **townhouse** time adjustment formula for Areas 6, 7, 19 and 82 is:

(0.895265295555478-0.000216107381578479*((SaleDate>=43800)*SaleDate+(SaleDate<43800)*43800-44562))/(0.895265295555478)

For example, a sale of $650,000 which occurred on October 1, 2020 would be adjusted by the time trend factor of 1.110, resulting in an adjusted value of $721,000 ($650,000 * 1.110=$721,500) – truncated to the nearest $1000.

Areas 6, 7, 19 and 82

Townhouse Market Value Changes Over Time...continued

Sale Date	Adjustment (Factor)	Equivalent Percent
1/1/2019	1.184	18.4%
2/1/2019	1.184	18.4%
3/1/2019	1.184	18.4%
4/1/2019	1.184	18.4%
5/1/2019	1.184	18.4%
6/1/2019	1.184	18.4%
7/1/2019	1.184	18.4%
8/1/2019	1.184	18.4%
9/1/2019	1.184	18.4%
10/1/2019	1.184	18.4%
11/1/2019	1.184	18.4%
12/1/2019	1.184	18.4%
1/1/2020	1.176	17.6%
2/1/2020	1.169	16.9%
3/1/2020	1.162	16.2%
4/1/2020	1.154	15.4%
5/1/2020	1.147	14.7%
6/1/2020	1.140	14.0%
7/1/2020	1.133	13.3%
8/1/2020	1.125	12.5%
9/1/2020	1.118	11.8%
10/1/2020	1.110	11.0%
11/1/2020	1.103	10.3%
12/1/2020	1.096	9.6%
1/1/2021	1.088	8.8%
2/1/2021	1.081	8.1%
3/1/2021	1.074	7.4%
4/1/2021	1.066	6.6%
5/1/2021	1.059	5.9%
6/1/2021	1.052	5.2%
7/1/2021	1.044	4.4%
8/1/2021	1.037	3.7%
9/1/2021	1.029	2.9%
10/1/2021	1.022	2.2%
11/1/2021	1.015	1.5%
12/1/2021	1.007	0.7%
1/1/2022	1.000	0.0%

Uniform Standards of Professional Appraisal Practice Compliance

Client and Intended Use of the Appraisal:

This mass appraisal report is intended for use by the public, King County Assessor and other agencies or departments administering or confirming ad valorem property taxes. Use of this report by others for other purposes is not intended by the appraiser. The use of this appraisal, analyses and conclusions is limited to the administration of ad valorem property taxes in accordance with Washington State law. As such it is written in concise form to minimize paperwork. The assessor intends that this report conform to the Uniform Standards of Professional Appraisal Practice (USPAP) requirements for a mass appraisal report as stated in USPAP Standard 6. To fully understand this report the reader may need to refer to the Assessor's Property Record Files, Assessors Real Property Data Base, separate studies, Assessor's Procedures, Assessor's field maps, Revalue Plan and the statutes.

The purpose of this report is to explain and document the methods, data and analysis used in the revaluation of King County. King County is on a six-year physical inspection cycle with annual statistical updates. The revaluation plan is approved by Washington State Department of Revenue. The Revaluation Plan is subject to their periodic review.

Definition and date of value estimate:

Market Value

The basis of all assessments is the true and fair value of property. True and fair value means market value (Spokane etc. R. Company v. Spokane County, 75 Wash. 72 (1913); Mason County Overtaxed, Inc. v. Mason County, 62 Wn. 2d (1963); AGO 57-58, No. 2, 1/8/57; AGO 65-66, No. 65, 12/31/65).

The true and fair value of a property in money for property tax valuation purposes is its "market value" or amount of money a buyer willing but not obligated to buy would pay for it to a seller willing but not obligated to sell. In arriving at a determination of such value, the assessing officer can consider only those factors which can within reason be said to affect the price in negotiations between a willing purchaser and a willing seller, and he must consider all of such factors. (AGO 65,66, No. 65, 12/31/65)

Retrospective market values are reported herein because the date of the report is subsequent to the effective date of valuation. The analysis reflects market conditions that existed on the effective date of appraisal.

Highest and Best Use

RCW 84.40.030

All property shall be valued at one hundred percent of its true and fair value in money and assessed on the same basis unless specifically provided otherwise by law.

An assessment may not be determined by a method that assumes a land usage or highest and best use not permitted, for that property being appraised, under existing zoning or land use planning ordinances or statutes or other government restrictions.

WAC 458-07-030 (3) True and fair value -- Highest and best use.

Unless specifically provided otherwise by statute, all property shall be valued on the basis of its highest and best use for assessment purposes. Highest and best use is the most profitable, likely use to which a property can be put. It is the use which will yield the highest return on the owner's investment. Any reasonable use to which the property may be put may be taken into consideration and if it is peculiarly adapted to some particular use, that fact may be taken into consideration. Uses that are within the realm of possibility, but not reasonably probable of occurrence, shall not be considered in valuing property at its highest and best use.

If a property is particularly adapted to some particular use this fact may be taken into consideration in estimating the highest and best use. (Samish Gun Club v. Skagit County, 118 Wash. 578 (1922))

The present use of the property may constitute its highest and best use. The appraiser shall, however, consider the uses to which similar property similarly located is being put. (Finch v. Grays Harbor County, 121 Wash. 486 (1922))

The fact that the owner of the property chooses to use it for less productive purposes than similar land is being used shall be ignored in the highest and best use estimate. (Samish Gun Club v. Skagit County, 118 Wash. 578 (1922))

Where land has been classified or zoned as to its use, the county assessor may consider this fact, but he shall not be bound to such zoning in exercising his judgment as to the highest and best use of the property. (AGO 63-64, No. 107, 6/6/64)

Date of Value Estimate

RCW 84.36.005

All property now existing, or that is hereafter created or brought into this state, shall be subject to assessment and taxation for state, county, and other taxing district purposes, upon equalized valuations thereof, fixed with reference thereto on the first day of January at twelve o'clock meridian in each year, excepting such as is exempted from taxation by law.

RCW 36.21.080

The county assessor is authorized to place any property that is increased in value due to construction or alteration for which a building permit was issued, or should have been issued, under chapter 19.27, 19.27A, or 19.28 RCW or other laws providing for building permits on the assessment rolls for the purposes of tax levy up to August 31st of each year. The assessed valuation of the property shall be considered as of July 31st of that year.

Reference should be made to the property card or computer file as to when each property was valued. Sales consummating before and after the appraisal date may be used and are analyzed as to their indication of value at the date of valuation. If market conditions have changed then the appraisal will state a logical cutoff date after which no market date is used as an indicator of value.

Property Rights Appraised: Fee Simple

Wash Constitution Article 7 § 1 Taxation:

> *All taxes shall be uniform upon the same class of property within the territorial limits of the authority levying the tax and shall be levied and collected for public purposes only. The word "property" as used herein shall mean and include everything, whether tangible or intangible, subject to ownership. All real estate shall constitute one class.*

Trimble v. Seattle, 231 U.S. 683, 689, 58 L. Ed. 435, 34 S. Ct. 218 (1914)

> *…the entire [fee] estate is to be assessed and taxed as a unit…*

Folsom v. Spokane County, 111 Wn. 2d 256 (1988)

> *…the ultimate appraisal should endeavor to arrive at the fair market value of the property as if it were an unencumbered fee…*

The Dictionary of Real Estate Appraisal, 3rd Addition, Appraisal Institute.

> *Absolute ownership unencumbered by any other interest or estate, subject only to the limitations imposed by the governmental powers of taxation, eminent domain, police power, and escheat.*

Assumptions and Limiting Conditions:

1. No opinion as to title is rendered. Data on ownership and legal description were obtained from public records. Title is assumed to be marketable and free and clear of all liens and encumbrances, easements and restrictions unless shown on maps or property record files. The property is appraised assuming it to be under responsible ownership and competent management and available for its highest and best use.
2. No engineering survey has been made by the appraiser. Except as specifically stated, data relative to size and area were taken from sources considered reliable, and no encroachment of real property improvements is assumed to exist.
3. No responsibility for hidden defects or conformity to specific governmental requirements, such as fire, building and safety, earthquake, or occupancy codes, can be assumed without provision of specific professional or governmental inspections.
4. Rental areas herein discussed have been calculated in accord with generally accepted industry standards.
5. The projections included in this report are utilized to assist in the valuation process and are based on current market conditions and anticipated short term supply demand factors. Therefore, the projections are subject to changes in future conditions that cannot be accurately predicted by the appraiser and could affect the future income or value projections.
6. The property is assumed uncontaminated unless the owner comes forward to the Assessor and provides other information.
7. The appraiser is not qualified to detect the existence of potentially hazardous material which may or may not be present on or near the property. The existence of such substances may have an effect on the value of the property. No consideration has been given in this analysis to any potential diminution in value should such hazardous materials be found (unless specifically noted). We urge the taxpayer to retain an expert in the field and submit data affecting value to the assessor.
8. No opinion is intended to be expressed for legal matters or that would require specialized investigation or knowledge beyond that ordinarily employed by real estate appraisers, although such matters may be discussed in the report.

9. Maps, plats and exhibits included herein are for illustration only, as an aid in visualizing matters discussed within the report. They should not be considered as surveys or relied upon for any other purpose.
10. The appraisal is the valuation of the fee simple interest. Unless shown on the Assessor's parcel maps, easements adversely affecting property value were not considered.
11. An attempt to segregate personal property from the real estate in this appraisal has been made.
12. Items which are considered to be "typical finish" and generally included in a real property transfer, but are legally considered leasehold improvements are included in the valuation unless otherwise noted.
13. The movable equipment and/or fixtures have not been appraised as part of the real estate. The identifiable permanently fixed equipment has been appraised in accordance with RCW 84.04.090 and WAC 458-12-010.
14. I have considered the effect of value of those anticipated public and private improvements of which I have common knowledge. I can make no special effort to contact the various jurisdictions to determine the extent of their public improvements.
15. Exterior inspections were made of all properties in the physical inspection areas (outlined in the body of the report) however; due to lack of access and time few received interior inspections.

Scope of Work Performed:

Research and analyses performed are identified in the body of the revaluation report. The assessor has no access to title reports and other documents. Because of legal limitations we did not research such items as easements, restrictions, encumbrances, leases, reservations, covenants, contracts, declarations and special assessments. Disclosure of interior home features and, actual income and expenses by property owners is not a requirement by law therefore attempts to obtain and analyze this information are not always successful. The mass appraisal performed must be completed in the time limits indicated in the Revaluation Plan and as budgeted. The scope of work performed and disclosure of research and analyses not performed are identified throughout the body of the report.

Certification:

I certify that, to the best of my knowledge and belief:

- The statements of fact contained in this report are true and correct
- The report analyses, opinions, and conclusions are limited only by the reported assumptions and limiting conditions and are my personal, impartial, and unbiased professional analyses, opinions, and conclusions.
- I have no present or prospective interest in the property that is the subject of this report and no personal interest with respect to the parties involved.
- I have no bias with respect to the property that is the subject of this report or to the parties involved.
- My engagement in this assignment was not contingent upon developing or reporting predetermined results.
- My compensation for completing this assignment is not contingent upon the development or reporting of predetermined value or direction in value that favors the cause of the client, the amount of the value opinion, the attainment of a stipulated result, or the occurrence of a subsequent event directly related to the intended use of this appraisal.
- My analyses, opinions, and conclusions were developed, and this report has been prepared, in conformity with the Uniform Standards of Professional Appraisal Practice.
- The area(s) physically inspected for purposes of this revaluation are outlined in the body of this report.
- The individuals listed below were part of the "appraisal team" and provided significant real property appraisal assistance to the person signing this certification. Any services regarding the subject area performed by the appraiser within the prior three years, as an appraiser or in any other capacity is listed adjacent their name.

> None

Any services regarding the subject area performed by me within the prior three years, as an appraiser or in any other capacity is listed below:

To the best of my knowledge the following services were performed by me within the subject area in the last three years:

- Annual Update Model Development and Report Preparation
- Data Collection
- Sales Verification
- Appeals Response Preparation / Review
- Appeal Hearing Attendance
- Physical Inspection Model Development and Report Preparation
- Land and total Valuation
- New Construction Evaluation

Steve Elliott

	8/2/2022
Appraiser II	Date

Department of Assessments
KSC – AS – 0708
201 S. Jackson St., Room 708
Seattle, WA 98104
OFFICE (206) 296-7300   FAX (206) 296-0595
Email: assessor.info@kingcounty.gov

John Wilson
Assessor

As we start preparations for the 2022 property assessments, it is helpful to remember that the mission and work of the Assessor's Office sets the foundation for efficient and effective government and is vital to ensure adequate funding for services in our communities. Maintaining the public's confidence in our property tax system requires that we build on a track record of fairness, equity, and uniformity in property assessments. Though we face ongoing economic challenges, I challenge each of us to seek out strategies for continuous improvement in our business processes.

Please follow these standards as you perform your tasks.

- Use all appropriate mass appraisal techniques as stated in Washington State Laws, Washington State Administrative Codes, Uniform Standards of Professional Appraisal Practice (USPAP), and accepted International Association of Assessing Officers (IAAO) standards and practices.
- Work with your supervisor on the development of the annual valuation plan and develop the scope of work for your portion of appraisal work assigned, including physical inspections and statistical updates of properties;
- Where applicable, validate correctness of physical characteristics and sales of all vacant and improved properties.
- Appraise land as if vacant and available for development to its highest and best use. The improvements are to be valued at their contribution to the total in compliance with applicable laws, codes, and DOR guidelines. The Jurisdictional Exception is applied in cases where Federal, State or local laws or regulations preclude compliance with USPAP;
- Develop and validate valuation models as delineated by IAAO standards: Standard on Mass Appraisal of Real Property and Standard on Ratio Studies. Apply models uniformly to sold and unsold properties, so that ratio statistics can be accurately inferred to the entire population.
- Time adjust sales to January 1, 2022 in conformance with generally accepted appraisal practices.
- Prepare written reports in compliance with USPAP Standard 6 for Mass Appraisals. The intended users of your appraisals and the written reports include the public, Assessor, the Boards of Equalization and Tax Appeals, and potentially other governmental jurisdictions. The intended use of the appraisals and the written reports is the administration of ad valorem property taxation.

Thank you for your continued hard work on behalf of our office and the taxpayers of King County. Your dedication to accurate and fair assessments is why our office is one of the best in the nation.

John Wilson
King County Assessor