

Division of Property Valuation

2017

Kansas Real Estate Ratio Study

DAVID HARPER, RMA, DIRECTOR

2017 Kansas Appraisal/Sales Ratio Study

ABBREVIATIONS

Ag. Agricultural

BMed. Broadened Median Ratio
BOTA Board of Tax Appeals
C/I Commercial/Industrial
COD Coefficient of Dispersion

Comm. Commercial Ex. Exempt

IAAO International Association of Assessing Officers

Impr. Improvement Ind. Industrial

K.S.A. Kansas Statutes Annotated

LOC Level of confidence
N/A Not applicable
NP Not-for-profit

PRB Price-Related Bias

PRD Price-Related Differential PVD Property Valuation Division

Res. Residential

S Supplemental sales

T Time trended

Ut. Utility w With

2017 Kansas Appraisal/Sales Ratio Study

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Introduction

This publication contains the Official 2017 Kansas Appraisal/Sales Ratio Study that is based upon real estate transfers occurring from January 1, 2017, through December 31, 2017. This study is conducted annually by the Kansas Department of Revenue, Division of Property Valuation for all 105 Kansas Counties.





http://www.ksrevenue.org/pvdratiostats.html

2017 Kansas Appraisal/Sales Ratio Study

Section 1

Year 2017

Official Appraisal/Sales Ratio Study

2017 Kansas Appraisal/Sales Ratio Study

Purpose and Overview

Fundamental to the administration of the property tax is the concept that all property should be appraised and assessed on a uniform basis. The Kansas Constitution requires that all taxable property be appraised and assessed uniformly as to class. Uniformity of like property assures an equitable distribution of the property tax burden.

The *purpose* of the 2017 Official *Kansas Appraisal/Sales Ratio Study* is to meet the requirements pursuant to K.S.A. 79-1489. It also provides statistical information used to evaluate appraisal *level* and *uniformity* for substantial statutory compliance as set forth in Property Valuation's Directive #14-046 pursuant to the provisions of L. 1992, ch. 249, §1. A copy of the Kansas Statutes and Directives is located in Section IV of this publication.

The study includes sales that are *valid* arm's-length transactions. Supplemental sales from the four prior years have been included for the commercial/industrial subclass if less than six valid commercial sales were available in the year 2017. In addition, the sales were trimmed of outliers prior to the computation of some statistical measures. A further explanation of the validation and trimming procedures are discussed in Section III of this publication.

In 1994, changes in statute permitted the use of a sampling process for the residential subclass of property in counties with a total parcel count in excess of 15,000 parcels. These counties must also have experienced at least 200 valid residential sales based on previous studies to be considered for sampling. The 2017 ratio study has used a representative sampling for those counties meeting the statutory criteria. A brief explanation of the sampling process is included in Section III of this publication.

The letter *T* denotes the subclass (residential or commercial/industrial) where sale prices have been *trended* back to January 1, 2017, the date of appraisal, where inflation or deflationary market trends were identifiable and documented by the county.

The ratios analyzed in this study are appraisal/sales ratios computed by dividing the appraised value of real estate as determined by the county appraiser by the total selling price of the real property. A perfect ratio would be 100.0. Care should be taken when reviewing the agricultural subclass. Agricultural land is appraised according to its *use* value; therefore, for *Agricultural Land Only* and *Agricultural with/Improvements* no ideal ratio exists. The total statistical measures can be misleading because the ratios for agricultural land are included with the ratios of all other real property subclasses to determine the county *TOTAL with/Agricultural & Farm* category.

We are grateful to the Kansas County Appraisers and their professional organization for their cooperation in this annual task. Our appreciation further extends to our support staff at the Department of Revenue, our associates within the Division and to the Ratio Study Technical Advisory Committee for their service and guidance.

	2017 Ratio Study Technical Advisory Com	mittee
Dr. John Boyer	Dr. Ronald L. Wasserstein	Dr. Paul Byrne
Prof. of Statistics	Executive Director	Assoc. Prof. of Economics
101 Dickens Hall	American Statistical Assn.	Washburn University
Kansas State University	732 N Washington St.	School of Business
Manhattan, KS 66506	Alexandria, Virginia 22314-3402	Henderson 310-P
		1700 SW College Ave.
		Topeka, KS 66621

2017 County Appraiser's Ratio Study Committee

Chairman: Truette McQueen, Ottawa County Appraiser

Members: Barry Porter

Barry Porter Republic-Cloud County Appraiser

				001:	ALLEN COL	JNTY								
	Madian	Cor	nfide	200		Cor	nfider	200		Cor	nfider	260	Valid	Trim
	Median				600				DDD				Valid	
PROPERTY CLASS	Ratio	II	iterva	al	COD	ır	nterva	31	PRD	ır	nterva	31	Sales	Sales
Residential	97.5	95.1	to	99.3	14.3	11.4	to	18.1	1.05	1.02	to	1.08	103	18
Commercial/Ind. 5-7	98.3	79.4	to	126.1	22.3	15.3	to	34.4	1.09	1.01	to	1.20	10	(
Vacant Lot	148.3	-	N/A	-	125.5	-	N/A	-	2.11	-	N/A	-	4	(
Farm & Home	65.6	-	N/A	-	24.6	-	N/A	-	0.89		N/A	-	7	(
Ag. Land Only	6.1		N/A	-	30.8		N/A	-	0.86		N/A	-	8	(
Ag.(Impr.+ Land)	6.2		N/A	-	30.8		N/A	-	0.86		N/A	-	9	
Other/Ex/Ut/NP/Mix	83.4		N/A	-	-		N/A	-	-		N/A	-	1	(
TOTAL w/Ag.& F&H	95.3		N/A	-	18.7		N/A	-	1.08	-	N/A	-	135	2
TOTAL MARKET	97.1		N/A	-	16.6		N/A	-	1.06	-	N/A	-	119	19
			002	: ANDE	RSON CO	JNTY								
	Median	Cor	nfide	nce		Cor	nfider	nce		Cor	nfider	nce	Valid	Trin
PROPERTY CLASS	Ratio		iterva		COD		nterva		PRD		nterva		Sales	Sale
THOTERT CEASS	ratio			41	200			41	1110		icei ve	41	Suics	Juic
Residential	100.0	95.5	to	107.7	18.4	15.1	to	22.7	1.05	1.02	to	1.09	88	12
Commercial/Ind.	73.3	58.1	to	91.8	16.2	4.0	to	18.9	1.06	0.97	to	1.11	4	(
Vacant Lot	106.3	-	N/A	-	27.1	-	N/A	-	1.18	-	N/A	-	7	
Farm & Home	52.9	-	N/A	-	53.7	-	N/A	-	1.20	-	N/A	-	13	(
Ag. Land Only	6.3	-	N/A	-	63.7	-	N/A	-	0.89	-	N/A	-	12	(
Ag.(Impr.+ Land)	4.7	-	N/A	-	92.9	-	N/A	-	0.97	-	N/A	-	15	(
Other/Ex/Ut/NP/Mix	659.0	-	N/A	-	-	-	N/A	-	-	-	N/A	-	2	
TOTAL w/Ag.& F&H	93.6		N/A	-	35.0	-	N/A	-	1.27	-	N/A	-	130	13
TOTAL MARKET	99.6		N/A	-	20.0		N/A	-	1.08		N/A	-	102	1!
			00	3 : ATCH	IISON COL	JNTY								
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	Median		nfide		CO.D		nfider		חחח		nfider		Valid	Trin
PROPERTY CLASS	Ratio	ır	iterva	dI I	COD	Ir	nterva	11	PRD	Ir	nterva	il.	Sales	Sale
Residential	98.9	96.9	to	101.0	11.9	10.2	to	13.9	1.03	1.01	to	1.04	156	1
Commercial/Ind.	97.5	79.8	to	101.8	2.4	0.7	to	3.0	1.01	0.99	to	1.03	6	
Vacant Lot	315.5	-	N/A	-	563.8	-	N/A	-	15.18	-	N/A	-	7	
Farm & Home	55.2	-	N/A	-	45.1	-	N/A	-	1.26	-	N/A	-	7	
Ag. Land Only	9.4		N/A	-	28.8		N/A	-	1.04		N/A	-	7	(
Ag.(Impr.+ Land)	9.4		N/A	-	28.8		N/A	-	1.04		N/A	-	7	
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	97.8		N/A	-	12.2	-	N/A	-	1.02	-	N/A	-	184	34
TOTAL MARKET	98.9		N/A	-	12.5		N/A	_	1.03	_	N/A	_	170	22
= .	3.2.3													

				004 : BA	RBER CO	JNTY								
	Median	Cor	ıfide	nce		Cor	nfider	nce		Cor	nfidei	200	Valid	Trim
PROPERTY CLASS	Ratio		iterva		COD		iterva		PRD		iterva		Sales	Sales
PROPERTY CLASS	Natio	11	iterva	31	COD	- 11	iterva	31	PND	- 11	iterv	11	Sales	Sales
Residential	89.9	85.5	to	102.4	17.1	13.5	to	22.7	1.03	0.99	to	1.06	40	5
Commercial/Ind. S-6	104.0	53.8	to	116.4	23.1	10.9	to	55.9	1.01	0.93	to	1.14	9	(
Vacant Lot	-	-	-	-	-	-	-	-	-	-	-	-	0	
Farm & Home	41.9	-	N/A	-	39.7	-	N/A	-	0.93	-	N/A	-	3	(
Ag. Land Only	1.3		N/A	-	383.6		N/A	-	0.84		N/A	-	9	(
Ag.(Impr.+ Land)	3.4		N/A	-	152.5		N/A	_	0.84		N/A	_	11	(
Other/Ex/Ut/NP/Mix	108.5		N/A	-	51.2		N/A	-	1.38		N/A	-	2	(
TOTAL w/Ag.& F&H	85.6		N/A	_	40.2		N/A	_	1.47		N/A	_	66	
TOTAL MARKET	91.6		N/A	_	21.7		N/A	_	1.04		N/A		52	(
			,				.,							
			(005 : BA	RTON COL	JNTY								
	Median	Cor	nfide	nce		Cor	nfider	nce		Cor	nfidei	nce	Valid	Trin
PROPERTY CLASS	Ratio		iterva		COD		nterva		PRD		nterva		Sales	Sale
TROTERTT CLASS	Natio	- 11	itel ve	21	СОВ		icei ve	A 1	TIND	- 11	itei v	21 	Jaies	Jaic
Residential	99.1	95.7	to	101.7	15.7	14.2	to	17.4	1.04	1.02	to	1.05	287	2
Commercial/Ind.	92.8	69.3	to	120.6	22.5	15.3	to	35.5	1.40	1.03	to	1.69	11	(
Vacant Lot	187.5	-	N/A	-	61.1	-	N/A	-	1.71	-	N/A	-	5	(
Farm & Home	65.6	-	N/A	-	38.6	-	N/A	-	0.81	-	N/A	-	6	(
Ag. Land Only	17.8	-	N/A	-	18.5	-	N/A	-	1.04	-	N/A	-	16	
Ag.(Impr.+ Land)	17.3	-	N/A	-	15.5	-	N/A	-	1.03	-	N/A	-	17	
Other/Ex/Ut/NP/Mix	146.2		N/A	-	-		N/A	-	-		N/A	-	1	(
TOTAL w/Ag.& F&H	98.1		ν/Α	_	17.0		N/A	-	1.06		N/A	_	328	40
TOTAL MARKET	99.2		N/A	-	16.3		N/A	-	1.07		N/A	-	305	25
			00	6 : BOUI	RBON CO	JNTY								
	Modian	Cor	fida	200		Cor	fidor			Cox	fida	200	Valid	Trin
PROPERTY CLASS	Median Ratio		ıfide iterva		COD		nfider nterva		PRD		nfide nterva		Valid Sales	Trin Sale:
I NOI ENTI CEASS	เลเเบ	11	icei ve	41	COD	- 11	icei ve	41	ווט	- 11	icei V	41	Jaies	Jaic
Residential	98.0	94.5	to	101.2	14.3	12.6	to	16.5	1.02	0.99	to	1.04	152	1
Commercial/Ind. <u>s-7</u>	81.1	76.2	to	98.3	16.0	10.3	to	28.9	1.03	0.94	to	1.13	11	
Vacant Lot	96.9	-	N/A	-	44.0	-	N/A	-	2.07	-	N/A	-	23	- 2
Farm & Home	59.2	-	N/A	-	50.8	-	N/A	-	1.17	-	N/A	-	13	(
Ag. Land Only	3.6		N/A	-	80.2		N/A	-	1.15		N/A	-	13	
Ag.(Impr.+ Land)	4.1		ν/Α	-	67.2		N/A	-	1.13		N/A	-	20	
Other/Ex/Ut/NP/Mix	139.7		N/A	-	-		N/A	_	_		N/A	_	1	
TOTAL w/Ag.& F&H	92.9		N/A	-	18.9		N/A	-	1.03		N/A	-	221	38
TOTAL MARKET	97.1		N/A	-	16.4		N/A	_	1.02		N/A	-	188	20
· · · · · · · · · · · · · · · · · · ·														

				007 : BR	OWN COL	JNTY								
	Median	Cor	nfide	nce		Cor	nfider	nce		Cor	nfidei	nce	Valid	Trim
PROPERTY CLASS	Ratio		terv		COD		nterva		PRD		nterva		Sales	Sales
Residential	97.8	92.0	to	103.3	19.4	16.0	to	24.6	1.07	1.04	to	1.12	90	14
Commercial/Ind.	94.1	77.9		115.5	16.8		to	45.5	0.99	0.89		1.08	7	
Vacant Lot	102.4		N/A	_	75.9		N/A	-	1.66		N/A		5	Ì
Farm & Home	59.1		N/A	_	30.5		N/A	-	0.97		N/A	_	3	
Ag. Land Only	14.6		N/A	_	36.8		N/A	-	0.95		N/A	_	11	
Ag.(Impr.+ Land)	14.1		N/A	_	38.8		N/A	_	0.94		N/A	_	12	(
Other/Ex/Ut/NP/Mix	114.0		N/A	_	-		N/A	_	0.54		N/A	_	1	(
TOTAL w/Ag.& F&H	94.1		N/A	_	24.6		N/A	_	1.35		N/A	_	119	2
TOTAL MARKET	97.8		N/A	_	17.3		N/A	_	1.06		N/A	_	104	20
TO THE WINTING	37.0		.,,,		17.0		.,,,		1.00		.,,,,		101	
				008 : BU	TLER CO	JNTY								
	Median	Cor	nfide	nce		Cor	nfider	200		Cor	nfidei	200	Valid	Trin
PROPERTY CLASS	Ratio		iterv		COD		nterva		PRD		nterva		Sales	Sale
PROPERTY CLASS	Natio	!!	iterv	al	СОБ	- 11	iterva	31	PND	- 11	itei va	21	Sales	Sale
Residential	96.2	94.6	to	97.1	7.7	6.9	to	8.7	1.04	0.99	to	1.11	249	3
Commercial/Ind.	97.8	61.4	to	102.7	23.2	13.6	to	37.4	1.12	1.00	to	1.35	18	(
Vacant Lot	76.2	-	N/A	-	49.9	-	N/A	-	1.19	-	N/A	-	60	3
Farm & Home	61.5	-	N/A	-	26.7	-	N/A	-	1.01	-	N/A	-	35	(
Ag. Land Only	1.8	-	N/A	-	58.8	-	N/A	-	0.84	-	N/A	-	36	Į.
Ag.(Impr.+ Land)	1.8	-	N/A	-	56.2	-	N/A	-	0.84	-	N/A	-	40	
Other/Ex/Ut/NP/Mix	_	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	92.2	-	N/A	-	16.8	-	N/A	-	1.05	-	N/A	-	403	60
TOTAL MARKET	95.3		N/A	-	11.1		N/A	-	1.03		N/A	-	328	4:
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PROPERTY CLASS	Median Ratio		ifide iterv		COD		nfider nterva		PRD		nfidei nterva		Valid Sales	Trin Sale
					555									5410
Residential	106.1	89.8		118.6	25.7	15.8		39.3	1.20	1.10		1.37	22	
Commercial/Ind. S-3	94.2	70.8		108.0	18.9	11.0		37.4	0.98	0.90		1.04	7	
Vacant Lot	100.0	-	N/A	-	-	-	N/A	-	-	-	N/A	-	1	(
Farm & Home	-	-	-	-	-	-	-	-	-	-	-	-	0	
Ag. Land Only	-	-	-	-	-	-	-	-	-	-	-	-	0	
Ag.(Impr.+ Land)	-	-	-	-	-	-	-	-	-	-	-	-	0	
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	102.4	-	N/A	-	16.3	-	N/A	-	1.07	-	N/A	-	31	!

Median Ratio:): 20.0							8 to 1.02	
		01	0 : C	HAUTAL	JQUA COI	JNTY								
	Median	Cor	nfide	nce		Cor	nfider	nce		Cor	nfidei	nce	Valid	Trim
PROPERTY CLASS	Ratio		terva		COD		iterva		PRD		nterva		Sales	Sales
5 · 1 · · · 1	00.0	77.6		06.7	22.4	45.5		24.7	4.00	4.04		4.22	25	
Residential	88.0	77.6		96.7	22.1	15.5		34.7	1.09	1.01		1.23	25	3
Commercial/Ind. S-6	94.3	75.2		128.1	22.4	12.9		44.9	1.17	1.00		1.55	8	(
Vacant Lot	47.3		N/A	-	26.4		N/A	-	0.87	-	-	-	2	(
Farm & Home	27.5		N/A	-	52.7		N/A	-	1.12		N/A	-	6	(
Ag. Land Only	3.9		N/A	-	26.9		N/A	-	1.09		N/A	-	12	(
Ag.(Impr.+ Land)	3.8	-	N/A	-	25.4	-	N/A	-	1.08	-	N/A	-	13	(
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	72.3	-	N/A	-	57.8		N/A	-	1.88	-	N/A	-	55	
TOTAL MARKET	88.6	-	N/A	-	24.4	-	N/A	-	1.11	-	N/A	-	36	
			01:	1 : CHER	OKEE COI	JNTY								
	Madian	Cor	nfide			Cor	-fidor			Car	ofid o		Valid	Trin
	Median				605		nfider		DDD		nfide		Valid	Trin
PROPERTY CLASS	Ratio	ır	iterva	31	COD	ır	nterva	31	PRD	ır	nterva	aı	Sales	Sale
Residential	95.9	92.3	to	100.7	17.0	14.8	to	19.7	1.06	1.04	to	1.09	149	12
Commercial/Ind.	104.1	83.2	to	125.6	18.2	11.8	to	33.6	0.93	0.84	to	1.03	11	(
Vacant Lot	102.9	-	N/A	-	42.7	-	N/A	-	2.26	-	N/A	-	14	(
Farm & Home	70.2	-	N/A	-	33.0	-	N/A	-	0.99	-	N/A	-	15	2
Ag. Land Only	9.7	-	N/A	-	40.8	-	N/A	-	0.80	-	N/A	-	15	(
Ag.(Impr.+ Land)	9.2	-	N/A	-	44.0	-	N/A	-	0.78	-	N/A	-	17	:
Other/Ex/Ut/NP/Mix	103.1	-	N/A	-	22.9	-	N/A	-	1.07	-	N/A	-	4	(
TOTAL w/Ag.& F&H	92.8		N/A	-	20.4		N/A	-	1.09		N/A	-	211	32
TOTAL MARKET	96.3		N/A	-	19.4		N/A	-	1.06		N/A	-	179	12
			012	2 : CHEY	ENNE COL	JNTY								
	Modici	C =	nfide			C =	۲: ۲-۱ -	200		<u> </u>	- اد:4		\/al:-l	⊤ ,.:.
PROPERTY CLASS	Median Ratio		iterva		COD		nfider nterva		PRD		nfide nterva		Valid Sales	Trim Sale:
Residential	96.2	94.4		99.8	7.3		to	10.9	1.03	1.00		1.05	30	
Commercial/Ind.	80.8	50.8		103.3	29.9	16.7		64.7	2.00	1.02		2.62	8	
Vacant Lot	210.0		N/A	-	-		N/A	-	-	-	N/A	-	1	(
Farm & Home	82.2		N/A	-	-		N/A	-	-		N/A	-	1	(
Ag. Land Only	8.0		N/A	-	16.2		N/A	-	0.98		N/A	-	7	(
Ag.(Impr.+ Land)	8.1	-	N/A	-	16.2	-	N/A	-	0.98	-	N/A	-	8	
011 /5 /11//10/0/14	-	-	-	-	-	-	-	-	-	-		-	0	
Other/Ex/Ut/NP/Mix			N1 / A		24.0		NI/A		1 60		N/A		49	2
TOTAL w/Ag.& F&H	94.2	-	N/A	-	31.8		N/A	-	1.65		IV/A	-	49	

				013 :	CLARK CO	UNTY								
	Median	Cor	ıfideı	200		Cou	nfidei	260		Cor	nfider	200	Valid	Trim
PROPERTY CLASS	Ratio		terva		COD		nterva		PRD		nterva		Sales	Sales
PROPERTY CLASS	Natio	11	terva	31	COD	- 11	iterva	11	PND	- 11	iterva	1 1	Sales	Sales
Residential	90.0	77.7	to	95.0	17.1	11.5	to	25.9	0.97	0.91	to	1.03	26	1
Commercial/Ind.	89.3	39.6	to	115.4	26.3	8.1	to	47.9	1.19	1.01	to	1.33	5	(
Vacant Lot	28.9	-	N/A	-	-	-	N/A	-	-	-	N/A	-	1	(
Farm & Home	_	-	-	-	-	-	-	-	-	-	-	-	0	
Ag. Land Only	8.8	-	N/A	-	11.1	-	N/A	-	1.02	-	N/A	-	2	(
Ag.(Impr.+ Land)	8.8	-	N/A	-	11.1	-	N/A	-	1.02	-	N/A	-	2	(
Other/Ex/Ut/NP/Mix	293.7	-	N/A	-	40.0	-	N/A	-	0.86	-	N/A	-	2	(
TOTAL w/Ag.& F&H	89.3	-	N/A	-	24.6	-	N/A	-	1.15	-	N/A	-	37	4
TOTAL MARKET	89.4	-	N/A	-	20.3	-	N/A	-	0.98	-	N/A	-	35	4
				014	: CLAY COI	UNTY								
	Modian	Cor	ıfideı				nfidei	200		Cor	nfider	200	Valid	Trin
PROPERTY CLASS	Median Ratio		iterva		COD		nterva		PRD		nterva		Sales	Sale
PROPERTY CLASS	Natio	"	lei va	31	COD		iterva	31	FND	- 11	iterva	31	Sales	Sale
Residential	95.9	90.1	to	99.0	15.0	12.5	to	18.4	1.03	1.01	to	1.07	88	Į.
Commercial/Ind.	86.5	72.4	to	100.1	11.0	6.2	to	24.9	1.00	0.97	to	1.07	10	:
Vacant Lot	223.3	-	N/A	-	88.0	-	N/A	-	7.89	-	N/A	-	3	:
Farm & Home	21.5	-	N/A	-	-	-	N/A	-	-	-	N/A	-	1	(
Ag. Land Only	10.6	-	N/A	-	60.9	-	N/A	-	1.10	-	N/A	-	9	(
Ag.(Impr.+ Land)	10.6	-	N/A	-	63.5	-	N/A	-	1.13	-	N/A	-	11	:
Other/Ex/Ut/NP/Mix	196.0	-	N/A	-	-	-	N/A	-	-	-	N/A	-	1	(
TOTAL w/Ag.& F&H	91.3	-	N/A	-	14.6	-	N/A	-	1.03	-	N/A	-	115	2
TOTAL MARKET	95.7	-	N/A	-	14.8	-	N/A	-	1.03	-	N/A	-	103	12
				015 : 0	CLOUD COL	UNTY								
	Median	Cor	ıfide				nfidei	200		Cor	nfider	200	Valid	Trin
PROPERTY CLASS	Ratio		terva		COD		nterva		PRD		iterva		Sales	Sale
Residential	99.0	95.9	to	105.7	17.0	14.4	to	20.4	1.08	1.05	to	1.12	102	
Commercial/Ind.	87.0	81.3		97.0	9.6		to	19.1	1.03	0.99		1.08	7	
Vacant Lot	95.9		N/A	-	-		N/A	-	-		N/A	-	1	(
Farm & Home	67.7		N/A	_	28.8		N/A	-	1.09		N/A	-	3	(
Ag. Land Only	13.6		N/A	_	24.8		N/A	-	0.97		N/A	-	10	
Ag.(Impr.+ Land)	14.9		N/A	_	31.8		N/A	_	1.02		N/A	_	11	(
Other/Ex/Ut/NP/Mix		-	-	_		_	_	_	-	-	-	_	0	
TOTAL w/Ag.& F&H	96.4	-	N/A	_	16.2	_	N/A	_	1.07	-	N/A	_	125	22
TOTAL MARKET	98.1		N/A	_	15.6		N/A	_	1.06		N/A	_	111	1:

				016 : C	OFFEY CO	JNTY								
	Madian	Cor	nfide	nco		Cor	nfider	260		Cor	nfidei	260	Valid	Trim
PROPERTY CLASS	Median				COD				PRD					
PROPERTY CLASS	Ratio	11	iterv	dl	COD	11	nterva	11	PKU	11	iterva	d1	Sales	Sales
Residential	88.7	83.2	to	92.1	19.1	15.2	to	23.5	1.04	1.01	to	1.09	79	5
Commercial/Ind.	93.6	64.0	to	128.2	26.9	15.9	to	48.6	1.10	0.92	to	1.45	6	(
Vacant Lot	44.2	-	N/A	-	46.3	-	N/A	-	1.23	-	N/A	-	5	(
Farm & Home	58.7	-	N/A	-	91.0		N/A	-	1.42		N/A	-	5	(
Ag. Land Only	5.8		N/A	-	61.8		N/A	-	1.04		N/A	-	21	(
Ag.(Impr.+ Land)	6.0		n/A	-	62.2		N/A	-	1.04		N/A	_	24	(
Other/Ex/Ut/NP/Mix	83.6		N/A	-	-		N/A	-			N/A	-	1	(
TOTAL w/Ag.& F&H	79.5		N/A	_	41.3		N/A	_	1.12		N/A	_	121	
TOTAL MARKET	88.4		N/A	_	21.1		N/A	_	1.03		N/A	_	92	
							,							
			017	: COMA	NCHE CO	JNTY								
	Median	Cor	nfide	nce		Cor	nfider	nce		Cor	nfidei	100	Valid	Trin
PROPERTY CLASS	Ratio		iterv		COD		nterva		PRD		nterva		Sales	Sales
FROFERIT CLASS	Natio		itei v	aı	COD		itei va	וג	FIND	- 11	itei v	21 	Jaies	Jaic
Residential	82.8	71.9	to	114.5	45.9	35.4	to	68.9	1.35	1.21	to	1.58	26	(
Commercial/Ind.	89.0	55.2	to	100.4	20.2	9.3	to	49.7	1.29	0.93	to	1.58	8	(
Vacant Lot	104.5	-	N/A	-	83.2	-	N/A	-	2.41	-	N/A	-	2	(
Farm & Home	124.4	-	N/A	-	59.2	-	N/A	-	1.56	-	N/A	-	2	(
Ag. Land Only	9.5	-	N/A	-	52.4	-	N/A	-	0.86	-	N/A	-	6	(
Ag.(Impr.+ Land)	9.5	-	N/A	-	52.4	-	N/A	-	0.86	-	N/A	-	6	
Other/Ex/Ut/NP/Mix	_	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	78.0	_	N/A	-	46.5	-	N/A	-	1.45	-	N/A	_	45	
TOTAL MARKET	84.6		, N/A	-	33.2		n/A	-	1.16		N/A	-	37	4
			(018 : CO	WLEY CO	JNTY								
	Median	Cor	nfide	nce		Cor	nfider	nce		Cor	nfidei	nce	Valid	Trin
PROPERTY CLASS	Ratio	Ir	iterv	al	COD	Ir	nterva	al	PRD	lr	nterva	al	Sales	Sale
Residential	99.5	97.8	to	101.7	14.6	13.1	to	16.3	1.05	1.03	to	1.07	310	40
Commercial/Ind.	118.7	98.6		134.2	16.4	10.5		27.5	1.02	0.98		1.07	10	
Vacant Lot	100.3		N/A		35.6		N/A		1.08				18	
Farm & Home	54.9		N/A	_	48.9		N/A	_	1.04		N/A		12	
Ag. Land Only	2.9		N/A		30.9		N/A	_	1.02		N/A		7	
Ag.(Impr.+ Land)	2.9		N/A		30.9		N/A		1.02		N/A		7	
Other/Ex/Ut/NP/Mix	199.1		N/A	-	30.3		N/A	-	1.02		N/A	-	1	
TOTAL w/Ag.& F&H	99.3		N/A	-	17.7		N/A	-	1.07		N/A	-	359	44
	33.3	-		-	1/./			-				-		
TOTAL W/Ag.&T&IT	99.8		N/A		16.9		N/A		1.05		N/A		340	30

			019	: CRAW	FORD CO	JNTY								
	Median	Cor	nfide	nce		Cor	nfider	nce		Cor	nfidei	nce	Valid	Trim
PROPERTY CLASS	Ratio		iterva		COD		nterva		PRD		iterva		Sales	Sales
THOTENTI CEASS	Natio		I CI V	ai	COD	- 11	itei ve	41	TIND	- 11	itei v	ai e	Jaies	Jaics
Residential	97.0	95.5	to	99.2	15.3	13.9	to	16.8	1.05	1.03	to	1.06	419	47
Commercial/Ind.	100.1	88.6	to	104.7	13.0	7.5	to	21.9	1.03	1.00	to	1.07	16	1
Vacant Lot	80.7	-	N/A	-	47.9	-	N/A	-	1.37	-	N/A	-	31	2
Farm & Home	37.5	-	N/A	-	57.7	-	N/A	-	1.25	-	N/A	-	17	(
Ag. Land Only	5.4	-	N/A	-	66.5	-	N/A	-	0.74	-	N/A	-	23	
Ag.(Impr.+ Land)	5.4	-	N/A	-	68.6	-	N/A	-	0.85	-	N/A	-	29	2
Other/Ex/Ut/NP/Mix	95.0		N/A	-	-		N/A	-	-		N/A	-	1	(
TOTAL w/Ag.& F&H	95.0		N/A	-	16.4		N/A	-	1.05		N/A	-	514	94
TOTAL MARKET	96.6	-	N/A	-	15.9	-	N/A	-	1.04	-	N/A	-	468	58
			02	20 : DEC	ATUR COL	JNTY								
	Median	Cor	nfide	nce		Cor	nfider	200		Cor	nfidei	200	Valid	Trin
PROPERTY CLASS	Ratio		iterva		COD		nterva		PRD		nterva		Sales	Sale
PROPERTY CLASS	Natio	"	iterv	21	COD	- 11	iteiva	31	FND	- 11	iterv	21	Sales	Sale
Residential	106.7	97.1	to	125.6	32.1	25.4	to	42.6	1.15	1.07	to	1.26	52	4
Commercial/Ind.	99.0	66.6	to	152.5	35.7	21.6	to	57.1	1.13	0.96	to	1.48	6	(
Vacant Lot	65.3	-	N/A	-	-	-	N/A	-	-	-	N/A	-	1	(
Farm & Home	40.5	-	N/A	-	32.9	-	N/A	-	0.98	-	N/A	-	4	(
Ag. Land Only	14.0	-	N/A	-	15.0	-	N/A	-	1.07	-	N/A	-	5	(
Ag.(Impr.+ Land)	13.0	-	N/A	-	16.2	-	N/A	-	1.06	-	N/A	-	6	
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	98.6	-	N/A	-	42.1	-	N/A	-	1.75	-	N/A	-	70	4
TOTAL MARKET	104.3		N/A	-	33.9		N/A	-	1.12		N/A	-	60	4
			021	. : DICKII	NSON COL	JNTY								
	Median	Cor	nfide	200		Cor	nfider			Cor	nfidei		Valid	Trin
PROPERTY CLASS	Ratio		iterva		COD		nterva		PRD		nterva		Sales	Trim Sale:
Residential	98.0	94.5		99.6	14.7	13.1		16.6	1.03	1.01		1.04	225	20
Commercial/Ind.	85.7	65.0		176.2	40.1	19.8		77.4	1.15	0.96		1.63	9	(
Vacant Lot	62.4		N/A	-	77.8		N/A	-	1.12		,	-	4	(
Farm & Home	68.2		N/A	-	32.7		N/A	-	1.07		N/A	-	14	
Ag. Land Only	13.8	-	N/A	-	24.0		N/A	-	0.94		N/A	-	14	(
Ag.(Impr.+ Land)	13.8	-	N/A	-	24.7	-	N/A	-	0.96	-	N/A	-	16	(
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	94.6	-	N/A	-	16.5	-	N/A	-	1.03	-	N/A	-	269	40
														25

			022	: DONII	PHAN COL	JNTY								
	Median	Cor	nfide	nce		Cor	nfide	200		Cor	nfidei	200	Valid	Trim
PROPERTY CLASS	Ratio		iterva		COD		iterv		PRD		iterva		Sales	Sales
PROPERTY CLASS	Natio	- 11	iterv	31	COD	- 11	iterv	aı	PND	- 11	iterv	31	Sales	Sales
Residential	95.8	92.4	to	101.9	12.9	10.2	to	16.8	1.01	0.99	to	1.03	63	g
Commercial/Ind.	135.0	106.4	to	216.0	37.6	19.6	to	69.3	1.86	1.20	to	2.79	12	1
Vacant Lot	21.9	-	N/A	-	111.9	-	N/A	-	1.19	-	N/A	-	4	(
Farm & Home	35.3	-	N/A	-	100.7	-	N/A	-	1.50	-	N/A	-	5	(
Ag. Land Only	16.1	-	N/A	-	13.6	-	N/A	-	0.98	-	N/A	-	9	(
Ag.(Impr.+ Land)	16.1	-	N/A	-	13.6	-	N/A	-	0.99	-	N/A	-	11	
Other/Ex/Ut/NP/Mix	366.2		N/A	-	-		N/A	-	-		N/A	-	1	(
TOTAL w/Ag.& F&H	93.8		N/A	-	28.8		N/A	-	1.28		N/A	-	98	15
TOTAL MARKET	95.9	-	N/A	-	17.5	-	N/A	-	1.17	-	N/A	-	82	14
			02	23 : DOU	GLAS CO	JNTY								
	Median	Cor	nfide	nce		Cor	nfide	nce		Cor	nfidei	nce	Valid	Trin
PROPERTY CLASS	Ratio		iterva		COD		iterv		PRD		iterva		Sales	Sale
THOTERT CEASS	Ratio			41	COD		ite v	J1	1110		ite v	J.	Juics	Jaic
Residential	95.0	92.9	to	96.1	8.4	7.6	to	9.4	1.02	1.00	to	1.04	254	1
Commercial/Ind.	87.7	77.7	to	94.1	11.6	8.6	to	16.6	0.99	0.94	to	1.06	27	:
Vacant Lot	92.4	-	N/A	-	21.8	-	N/A	-	1.07	-	N/A	-	90	8
Farm & Home	78.0	-	N/A	-	23.4	-	N/A	-	0.98	-	N/A	-	15	(
Ag. Land Only	1.2	-	N/A	-	131.2	-	N/A	-	0.96	-	N/A	-	28	- 2
Ag.(Impr.+ Land)	1.3	-	N/A	-	149.6	-	N/A	-	0.74	-	N/A	-	29	
Other/Ex/Ut/NP/Mix	124.2		N/A	-	22.3		N/A	-	1.08		N/A	-	2	(
TOTAL w/Ag.& F&H	92.4	-	N/A	-	10.6	-	N/A	-	1.02		N/A	-	418	73
TOTAL MARKET	94.0		N/A	-	9.9		N/A	-	1.02		N/A	-	374	45
			02	4 : EDW	ARDS CO	JNTY								
	Median	Cor	nfide	200		Cor	nfide	0.00		Cor	nfidei	200	Valid	Trin
PROPERTY CLASS	Ratio		iterva		COD		iterv		PRD		nterva		Sales	Sale
		_												
Residential	96.2			113.4	24.5	19.3		34.3	1.13	1.06		1.25	29	
Commercial/Ind.	96.9	52.0		134.8	35.0	17.7		100.0	1.17	0.99		1.65	8	(
Vacant Lot	-	-	-	-	-	-	-	-	-	-	-	-	0	
Farm & Home	43.0		N/A	-	11.5		N/A	-	1.06		N/A	-	3	(
Ag. Land Only	11.5		N/A	-	91.9		N/A	-	1.72		N/A	-	8	(
Ag.(Impr.+ Land)	11.5	-	N/A	-	14.2	-	N/A	-	1.16	-	N/A	-	10	
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	80.4	-	N/A	-	46.0	-	N/A	-	2.02	-	N/A	-	51	(
101712 117718.01 011	95.8		N/A				N/A		1.14		N/A			

				02	5 : ELK COL	JNTY								
	N A = -1! =	6	. f: -l -			C	£: -1 -			C	. f: -1 -		\	T
	Median		nfide		605		nfider		222		nfider		Valid	Trim
PROPERTY CLASS	Ratio	ır	iterva	al	COD	Ir	nterva	al	PRD	Ir	nterva	al	Sales	Sales
Residential	117.9	99.0	to	145.5	27.7	18.4	to	43.1	1.12	1.03	to	1.25	25	3
Commercial/Ind.	87.2		to	136.6	25.5	15.1		40.4	0.97	0.85		1.13	8	(
Vacant Lot	84.3	-	N/A	-	43.2	-	N/A	-	1.09	-	N/A	-	2	(
Farm & Home	34.7		N/A	-	83.9		N/A	-	2.39		N/A	-	4	(
Ag. Land Only	2.7		N/A	-	13.8		N/A	-	1.11		N/A	-	4	(
Ag.(Impr.+ Land)	2.9		N/A	-	13.2		N/A	-	0.98		N/A	-	5	(
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	96.6	-	N/A	-	42.1	-	N/A	-	2.63	-	N/A	-	45	
TOTAL MARKET	108.9		N/A	-	29.4		N/A	-	1.00	-	N/A	-	36	4
				026	: ELLIS COI	JNTY								
			C: I				r: 1				C: 1		\	
	Median		nfide		605		nfider		000		nfider		Valid	Trin
PROPERTY CLASS	Ratio	ır	iterva	al	COD	Ir	nterva	31	PRD	Ir	nterva	31	Sales	Sale
Residential	102.2	100.3	to	104.6	10.2	9.2	to	11.4	1.02	1.00	to	1.03	268	2
Commercial/Ind.	97.6	68.9	to	115.5	22.0	13.8	to	35.9	1.30	1.09		1.58	11	(
Vacant Lot	73.3	-	N/A	-	29.5	-	N/A	-	1.12	-	N/A	-	19	(
Farm & Home	58.9	-	N/A	-	4.9	-	N/A	-	1.01	-	N/A	-	2	(
Ag. Land Only	6.0	-	N/A	-	39.2	-	N/A	-	1.00	-	N/A	-	7	
Ag.(Impr.+ Land)	6.8		N/A	-	84.4	-	N/A	-	1.21	-	N/A	-	10	(
Other/Ex/Ut/NP/Mix	111.8	-	N/A	-	-	-	N/A	-	-	-	N/A	-	1	(
TOTAL w/Ag.& F&H	100.5	-	N/A	-	10.7	-	N/A	-	1.03	-	N/A	-	312	46
TOTAL MARKET	101.1	-	N/A	-	10.7	-	N/A	-	1.03	-	N/A	-	300	34
			027	: ELLSW	ORTH COL	JNTY								
	Median	Cor	nfide	nce		Cor	nfider	nce		Cor	nfider	nce	Valid	Trin
PROPERTY CLASS	Ratio		iterv		COD		nterva		PRD		nterva		Sales	Sale
Residential	100.0	95.2	to	103.5	10.3	8.2	to	12.9	1.04	1.02	to	1.06	62	
Commercial/Ind.	110.7			137.4	17.9	11.8		31.4	1.08	1.01		1.19	8	
Vacant Lot	49.2		N/A	-	-			-	-			-	1	(
Farm & Home	74.0		N/A	-	18.9		N/A	-	0.98		N/A	-	3	
Ag. Land Only	13.4		N/A	-	-		N/A	-	-		N/A	-	1	(
Ag.(Impr.+ Land)	10.3		N/A	-	30.3		N/A	-	1.16		N/A	-	2	(
Other/Ex/Ut/NP/Mix	131.4		N/A	_	-		N/A	_	-		N/A	_	1	(
TOTAL w/Ag.& F&H	99.7		N/A	-	11.9		N/A	-	1.05		N/A	-	78	1:
TOTAL MARKET	100.0		N/A	-	11.1		N/A	-	1.04		N/A	-	73	
	-		•				•				•			

Median Ratio	90.0 to	110.0			COD	: 20.0	or ie	SS				-KD: .98	8 to 1.02	
				028 : F	INNEY CO	JNTY								
	N 4 = -1: =	6	. f: -l -			C	. f: .l -			6	. f: .l .		\ /= I! -I	T
	Median		nfide		200		nfide		200		nfide		Valid	Trim
PROPERTY CLASS	Ratio	Ir	iterv	aı	COD	Ir	nterv	al	PRD	Ir	nterv	al	Sales	Sales
Residential	93.2	91.8	to	95.5	8.9	7.7	to	10.4	0.99	0.98	to	1.00	143	10
Commercial/Ind.	99.4	90.3	to	103.4	4.7	2.1	to	8.4	0.98	0.96	to	1.00	10	1
Vacant Lot	77.9	-	N/A	-	30.4	-	N/A	-	1.11	-	N/A	-	32	
Farm & Home	56.2	-	N/A	-	12.6	-	N/A	-	0.95	-	N/A	-	3	(
Ag. Land Only	16.8	-	N/A	-	11.8		N/A	-	1.09		N/A	-	7	:
Ag.(Impr.+ Land)	16.8		N/A	-	25.3		N/A	-	0.95		N/A	-	9	
Other/Ex/Ut/NP/Mix	84.5		N/A	-	37.9		N/A	-	1.35		N/A	-	2	(
TOTAL w/Ag.& F&H	92.2		n/A	-	10.6		N/A	-	0.99		N/A	_	200	30
TOTAL MARKET	93.0		N/A	-	10.1		N/A	-	0.99		N/A	-	188	2:
				029 :	FORD COL	JNTY								
			.				6. 1							
	Median		nfide		_		nfide				nfide		Valid	Trin
PROPERTY CLASS	Ratio	Ir	iterv	al	COD	Ir	nterv	al	PRD	Ir	nterv	al	Sales	Sale
Residential	89.4	87.3	to	91.4	10.1	9.1	to	11.3	1.00	0.99	to	1.01	235	2.
Commercial/Ind.	75.8	61.5	to	113.2	31.4	18.9	to	49.7	1.15	1.02	to	1.40	10	(
Vacant Lot	69.4	-	N/A	-	51.4	-	N/A	-	1.52	-	N/A	-	17	
Farm & Home	37.8	-	N/A	-	67.0	-	N/A	-	0.81	-	N/A	-	6	
Ag. Land Only	12.6	-	N/A	-	56.2	-	N/A	-	0.81	-	N/A	-	9	
Ag.(Impr.+ Land)	12.6		N/A	-	56.2		N/A	-	0.81		N/A	-	9	
Other/Ex/Ut/NP/Mix	98.9		N/A	_	-		N/A	-	-		N/A	_	1	
TOTAL w/Ag.& F&H	88.1		N/A	_	11.9		N/A	_	1.01		N/A	_	279	4:
TOTAL MARKET	88.7		N/A	-	10.5		N/A	-	1.01		N/A	-	264	38
			03	30 : FRA	NKLIN CO	JNTY								
	N 4 a al 1 a 11	C -	. £:I			C-	. ا _{- ا} .			<u> </u>	. ا £:		\ /e !! -l	T !
PROPERTY CLASS	Median Ratio		nfide nterv		COD		nfide nterva		PRD		nfide nterv		Valid Sales	Trin Sale:
Residential	92.1			93.8	14.5	13.1		16.0	1.04	1.02		1.05	314	30
Commercial/Ind.	97.2			128.9	23.9	16.3		37.0		1.02		1.43	13	:
Vacant Lot	96.8		N/A	-	45.0		N/A	-	1.43	-	N/A	-	26	
Farm & Home	57.8		N/A	-	33.3		N/A	-	1.00		N/A	-	30	
Ag. Land Only	4.2		N/A	-	86.1		N/A	-	0.82		N/A	-	32	
Ag.(Impr.+ Land)	4.8	-	N/A	-	77.4	-	N/A	-	0.85	-	N/A	-	36	- :
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	89.3		N/A	_	17.4		N/A	-	1.08		N/A	-	420	73
TOTAL MARKET	92.1	-	N/A	-	15.9	-	N/A	-	1.05	-	N/A	-	354	34

				031:0	GEARY COL	JNTY								
	Madian	Cor	f:da			Car	ofid o			Car	ofid o	200	Valid	Trino
	Median		ıfide		600		nfide		DDD		nfide		Valid	Trim
PROPERTY CLASS	Ratio	II	terva	dI	COD	ır	nterva	11	PRD	ır	nterva	dl	Sales	Sales
Residential	99.8	97.8	to	101.8	10.1	9.1	to	11.3	1.01	1.01	to	1.02	299	36
Commercial/Ind.	100.9	74.9	to	137.4	19.5	10.4	to	32.1	1.05	0.96	to	1.14	8	(
Vacant Lot	38.5	-	N/A	-	83.8	-	N/A	-	0.71	-	N/A	-	3	1
Farm & Home	55.7		N/A	-	34.7		N/A	-	0.87		N/A	-	4	(
Ag. Land Only	1.8		N/A	-	34.3		N/A	-	0.74		N/A	-	5	(
Ag.(Impr.+ Land)	2.9		ν/Α	-	131.2		N/A	-	1.09		N/A	_	9	
Other/Ex/Ut/NP/Mix	38.6		N/A	-	-		N/A	-	_		N/A	-	1	(
TOTAL w/Ag.& F&H	99.0		N/A	-	10.6		N/A	_	1.01	_	N/A	_	325	5:
TOTAL MARKET	99.8		N/A	-	10.5		N/A	-	1.01	-	N/A	-	312	4(
				032 :	GOVE COU	JNTY								
	Median	Cor	nfide	nce		Cor	nfidei	100		Cor	nfidei	nce	Valid	Trin
PROPERTY CLASS	Ratio		iterva		COD		nterva		PRD		nterva		Sales	Sale
PROPERTY CLASS	Natio		iterv	aı	COD	- 11	iterva	31	PND	- 11	itei va	aı	Sales	Sale
Residential	91.5	79.5	to	105.0	23.6	17.8	to	32.7	1.15	1.06	to	1.33	26	
Commercial/Ind.	80.1	36.3	to	111.6	23.5	5.0	to	48.4	1.57	1.02	to	1.78	5	(
Vacant Lot	68.0	-	N/A	-	-	-	N/A	-	-	-	N/A	-	1	(
Farm & Home	20.7	-	N/A	-	82.9	-	N/A	-	1.13	-	N/A	-	3	(
Ag. Land Only	11.7	-	N/A	-	18.4	-	N/A	-	1.07	-	N/A	-	6	(
Ag.(Impr.+ Land)	11.1	-	N/A	-	28.3	-	N/A	-	0.99	-	N/A	-	8	(
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	77.4	-	N/A	-	43.7	-	N/A	-	1.58	-	N/A	-	44	(
TOTAL MARKET	86.6		N/A	-	25.1		N/A	-	1.17		N/A	-	33	-
			0:	33 : GR	AHAM COI	JNTY								
	Median	Cor	nfide	nce		Cor	nfidei	200		Cor	nfidei	nce	Valid	Trin
PROPERTY CLASS	Ratio		iterva		COD		nterva		PRD		nterva		Sales	Sale
5 · 1 · · ·	25.5			405 5	4= -	40 -		22.5	0.00			4.0:	, =	
Residential	96.9			106.6	15.1	10.0		23.3	0.98	0.94		1.01	18	(
Commercial/Ind.	94.2	61.0		127.9	21.3	10.4		36.6	1.04	0.91		1.14	7	:
Vacant Lot	-	-	-	-	-	-	-	-	-	-	-	-	0	
Farm & Home	45.8		N/A	-	43.7		N/A	-	1.33		N/A	-	2	(
Ag. Land Only	13.8		N/A	-	32.8		N/A	-	0.90		N/A	-	9	(
Ag.(Impr.+ Land)	13.8	-	N/A	-	32.8	-	N/A	-	0.90	-	N/A	-	9	(
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
			NI/A		45.9		N/A	-	1.18	_	N/A	_	37	
TOTAL w/Ag.& F&H	84.0 95.7		N/A N/A	-	45.9		N/A	-	0.98		N/A	-	37	

				034 : 0	GRANT COL	JNTY								
	Median	Cor	nfide	nco		Cor	nfider	200		Cor	nfidei	200	Valid	Trim
					600				DDD					
PROPERTY CLASS	Ratio	II	iterv	aı	COD	ır	nterva	31	PRD	ır	nterva	a l	Sales	Sales
Residential	100.2	97.0	to	102.3	9.3	7.0	to	12.2	1.01	0.99	to	1.03	43	3
Commercial/Ind.	92.4	84.5	to	114.7	11.9	6.0	to	19.2	1.03	0.97	to	1.10	8	(
Vacant Lot	38.3	-	N/A	-	-	-	N/A	-	-	-	N/A	-	1	(
Farm & Home	-	-	-	-	-	-	-	-	-	-	-	-	0	
Ag. Land Only	11.7	_	N/A	-	98.5	-	N/A	-	0.86	_	N/A	-	11	
Ag.(Impr.+ Land)	11.7		n/A	-	98.5		N/A	_	0.86		N/A	_	11	
Other/Ex/Ut/NP/Mix	-	_	-	_	-	_	-	_	-	_	-	-	0	
TOTAL w/Ag.& F&H	96.7	_	N/A	_	12.3	_	N/A	_	1.02	_	N/A	_	64	12
TOTAL MARKET	98.3		N/A	_	10.6		N/A	_	1.02	_	N/A	_	53	
							,							
				035 :	GRAY COL	JNTY								
	Madian	Cor	nfide	nco		Cor	nfider	200		Cor	nfidei	260	Valid	Trin
PROPERTY CLASS	Median Ratio		iterv		COD		nterva		PRD		nterva		Valid Sales	Trin Sale:
PROPERTY CLASS	Katio	IL	iterv	dI	СОБ	ır	iterva	31	PKD	ır	iterv	d1	Sales	Sale
Residential	92.2	86.0	to	99.1	11.4	9.0	to	16.0	1.02	1.00	to	1.06	42	Į.
Commercial/Ind.	101.6	63.1	to	117.1	21.3	11.9	to	39.9	1.18	1.04	to	1.40	8	(
Vacant Lot	84.4	-	N/A	-	42.8	-	N/A	-	1.20	-	N/A	-	6	(
Farm & Home	74.5	-	N/A	-	23.5	-	N/A	-	1.00	-	N/A	-	9	(
Ag. Land Only	9.9	-	N/A	-	32.6	-	N/A	-	0.91	-	N/A	-	9	:
Ag.(Impr.+ Land)	9.6	-	N/A	-	34.1	-	N/A	-	0.89	-	N/A	-	10	
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	85.9	-	N/A	-	23.3	-	N/A	-	1.06	-	N/A	-	76	1:
TOTAL MARKET	92.3		N/A	-	17.2		N/A	-	1.06		N/A	-	57	ļ
			()36 : GF	REELEY COU	JNTY								
		_								_				
	Median		nfide				nfider				nfide		Valid	Trin
PROPERTY CLASS	Ratio	Ir	iterv	al	COD	Ir	nterva	31	PRD	Ir	nterva	al	Sales	Sale
Residential	105.8	79.4	to	110.4	16.1	9.4	to	25.3	0.99	0.95	to	1.05	14	
Commercial/Ind.	113.4	85.9	to	144.9	22.0	2.3	to	23.5	0.87	0.77	to	1.11	4	(
Vacant Lot	21.3	-	N/A	-	15.5	-	N/A	-	1.01	-	N/A	-	2	(
Farm & Home	59.5	-	N/A	-	-	-	N/A	-	-	-	N/A	-	1	(
Ag. Land Only	10.0		N/A	-	10.7		N/A	-	0.98		N/A	-	6	(
Ag.(Impr.+ Land)	10.0		ν/Α	-	10.7		N/A	-	0.98		N/A	-	6	(
	-	-	-	_	-	-	-	-	-	-	-	-	0	
Other/Ex/Ut/NP/Mix														
Other/Ex/Ut/NP/Mix TOTAL w/Ag.& F&H	80.6	-	N/A	-	48.6	-	N/A	-	0.83	-	N/A	-	28	

Median Ratio:	90.0 to	110.0			COD	: 20.0	orie	SS			l	PRD: .9	8 to 1.02	
		0	37 : 0	GREENV	VOOD COL	JNTY								
	Median		nfide		_		nfide				nfide		Valid	Trim
PROPERTY CLASS	Ratio	Ir	iterv	al	COD	Ir	nterv	al	PRD	Ir	nterva	al	Sales	Sales
Residential	101.4	89.3	to	109.4	25.7	19.8	to	34.7	1.11	1.03	to	1.25	45	2
Commercial/Ind.	108.2	90.7	to	111.3	7.6	3.3	to	12.9	1.02	0.98	to	1.07	7	C
Vacant Lot	192.9	-	N/A	-	9.2	-	N/A	-	1.01	-	N/A	-	3	C
Farm & Home	31.5		N/A	-	54.3	-	N/A	-	1.12	-	N/A	-	8	C
Ag. Land Only	3.4	-	N/A	-	7.7	-	N/A	-	1.01	-	N/A	-	10	2
Ag.(Impr.+ Land)	3.4	-	N/A	-	14.6	-	N/A	-	1.01	-	N/A	-	14	1
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	88.1	-	N/A	-	50.7	-	N/A	-	1.95	-	N/A	-	78	1
TOTAL MARKET	104.2	-	N/A	-	24.4	-	N/A	-	1.14	-	N/A	-	56	4
			038	3 : HAM	ILTON COL	JNTY								
	Median	Cor	nfide	nce		Cor	nfide	nce		Cor	nfidei	200	Valid	Trim
PROPERTY CLASS	Ratio		iterv		COD		nterv		PRD		nterva		Sales	Sales
FROFERIT CLASS	Natio		itei v	aı	COD	- 11	itei v	aı	FILD	- 11	itei va	a I	Jaies	Jaies
Residential	94.1	84.6	to	104.6	14.3	9.9	to	23.7	1.03	0.99	to	1.07	17	2
Commercial/Ind.	107.8	71.3	to	323.3	80.8	37.4	to	218.3	1.63	1.05	to	2.93	6	(
Vacant Lot	98.0	-	N/A	-	-	-	N/A	-	-	-	N/A	-	1	C
Farm & Home	8.2	-	N/A	-	-	-	N/A	-	-	-	N/A	-	1	C
Ag. Land Only	8.5	-	N/A	-	14.5	-	N/A	-	1.12	-	N/A	-	7	1
Ag.(Impr.+ Land)	8.5	-	N/A	-	14.5	-	N/A	-	1.12	-	N/A	-	7	1
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	90.3	-	N/A	-	47.5	-	N/A	-	1.26	-	N/A	-	33	1
TOTAL MARKET	98.0	-	N/A	-	14.5	-	N/A	-	1.02	-	N/A	-	25	5
				039 : H	ARPER COL	UNTY								
			6: 1				ć. i				c : 1			
PROPERTY CLASS	Median Ratio		nfide nterva		COD		nfide nterv		PRD		nfidei nterva		Valid Sales	Trim Sales
CLAUS	natio	- 11	۷	u 1	200	- 11	.cci V	a 1	. 110	- 11	۷	A1	Juics	Jaies
Residential	105.9	98.3	to	138.5	26.3	20.0		36.2	1.16	1.09		1.27	37	2
Commercial/Ind.	122.6	86.2		140.8	23.6	13.7		43.0	1.00	0.87		1.20	7	1
Vacant Lot	3158.3		N/A	-	-		N/A	-	-	-	N/A	-	1	C
Farm & Home	76.0		N/A		9.8		N/A		0.96	-	N/A	-	2	
Ag. Land Only	7.0	-	N/A	-	25.0		N/A	-	1.05	-	N/A	-	9	1
Ag.(Impr.+ Land)	8.0	-	N/A	-	35.7	-	N/A	-	1.18	-	N/A	-	11	1
	231.5	-	N/A	-	0.2	-	N/A	-	1.00	-	N/A	-	2	C
Other/Ex/Ut/NP/Mix														
Other/Ex/Ut/NP/Mix TOTAL w/Ag.& F&H	101.6	-	N/A	-	45.9	-	N/A	-	1.62	-	N/A	-	61	

				040 : HA	RVEY COL	JNTY								
	Median	Cor	nfide	nce		Cor	nfider	nce		Cor	nfidei	nce	Valid	Trim
PROPERTY CLASS	Ratio		iterva		COD		nterva		PRD		nterva		Sales	Sales
THOTERT CE 100	racio		100100	41	000		100110	^·	1110		10011		Saics	Jaics
Residential	97.8	96.7	to	99.0	11.3	10.4	to	12.4	1.01	1.00	to	1.02	468	62
Commercial/Ind.	89.2	70.4	to	101.7	24.0	15.9	to	38.9	1.25	1.05	to	1.64	14	(
Vacant Lot	84.6	-	N/A	-	51.2	-	N/A	-	1.53	-	N/A	-	18	(
Farm & Home	80.0	-	N/A	-	15.8	-	N/A	-	0.92	-	N/A	-	9	(
Ag. Land Only	7.3	-	N/A	-	56.4	-	N/A	-	0.88	-	N/A	-	15	(
Ag.(Impr.+ Land)	7.3	-	N/A	-	54.2	-	N/A	-	0.89	-	N/A	-	16	(
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	97.0	-	N/A	-	12.1	-	N/A	-	1.02	-	N/A	-	526	86
TOTAL MARKET	97.6	-	N/A	-	11.7	-	N/A	-	1.02	-	N/A	-	501	72
				244 - 1146	CKELL COL	INITY								
)41 : HAS	SKELL CO	YINI								
	Median	Cor	nfide	nce		Cor	nfider	nce		Cor	nfide	nce	Valid	Trin
PROPERTY CLASS	Ratio	Ir	iterva	al	COD	Ir	nterva	al	PRD	Ir	nterva	al	Sales	Sale
Residential	94.5	80.4	to	105.8	26.1	18.8	to	40.0	1.05	0.98	to	1.15	29	
Commercial/Ind.	118.9	81.9	to	142.9	20.2	11.7	to	29.3	0.99	0.94	to	1.08	6	(
Vacant Lot	47.6	-	N/A	-	9.7	-	N/A	-	0.98	-	N/A	-	4	(
Farm & Home	-	-	-	-	-	-	-	-	-	-	-	-	0	
Ag. Land Only	9.1	-	N/A	-	26.5	-	N/A	-	0.79	-	N/A	-	3	(
Ag.(Impr.+ Land)	9.1	-	N/A	-	26.5	-	N/A	-	0.79	-	N/A	-	3	
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	88.5	-	N/A	-	36.9	_	N/A	-	1.00	-	N/A	-	43	
TOTAL MARKET	89.8		N/A	-	32.5		N/A	-	1.00		N/A	-	40	-
			042 :	HODGE	MAN COL	JNTY								
	Median	Cor	nfide	nce		Cor	nfider	nce		Cor	nfidei	nce	Valid	Trin
PROPERTY CLASS	Ratio		iterva		COD		nterva		PRD		nterva		Sales	Sale
Residential	97.4	92.5	to	125.4	15.0	8.8	to	27.2	1.04	0.98	to	1.09	13	
Commercial/Ind.	72.3	52.1		83.2	15.5	7.6		26.5	1.13	0.99		1.20	6	
Vacant Lot	-	-	-	-	-	-	-	-	-	-	-	-	0	
Farm & Home	15.5	-	N/A	-	-	-	N/A	-	-	-	N/A	-	1	(
Ag. Land Only	8.1		N/A	-	50.2		N/A	-	1.13		N/A	-	12	(
Ag.(Impr.+ Land)	8.1		N/A	-	50.2		N/A	-	1.13		N/A	-	12	(
Other/Ex/Ut/NP/Mix	-	_	-	-	-	_	_	_	-	-	-	_	0	
TOTAL w/Ag.& F&H	54.3	_	N/A	-	79.9	_	N/A	_	2.13	-	N/A	_	33	(
TOTAL MARKET	92.4		N/A	-	19.6		N/A	_	1.01		N/A	-	20	
	· ·												= -	

			0	43 : JACK	SON COL	JNTY								
	Median	Cor	nfide	nce		Cor	nfider	nce		Cor	nfider	nce	Valid	Trim
PROPERTY CLASS	Ratio		iterva		COD		iterva		PRD		nterva		Sales	Sales
Residential	95.4	93.6	to	98.0	13.7	11.3	to	16.6	1.02	1.00	to	1.05	77	2
Commercial/Ind.	100.3	59.9	to	132.3	19.3	6.1	to	37.4	1.02	0.95	to	1.12	4	(
Vacant Lot	105.6	-	N/A	-	-	-	N/A	-	-	-	N/A	-	1	(
Farm & Home	69.8	-	N/A	-	26.1	-	N/A	-	1.07	-	N/A	-	37	2
Ag. Land Only	9.9	-	N/A	-	52.9	-	N/A	-	0.88	-	N/A	-	23	
Ag.(Impr.+ Land)	8.8	-	N/A	-	61.0	-	N/A	-	0.88	-	N/A	-	30	2
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	82.8	-	N/A	-	37.3	-	N/A	-	1.26	-	N/A	-	150	(
TOTAL MARKET	95.4	-	N/A	-	14.0	-	N/A	-	1.02	-	N/A	-	83	3
			044	1 : JEFFER	SON COL	JNTY								
	Median	Cor	nfide	nce		Cor	nfider	nce		Cor	nfider	nce	Valid	Trin
PROPERTY CLASS	Ratio		iterva		COD		iterva		PRD		iterva		Sales	Sale
Residential	90.3	87.3	to	93.0	14.3	12.5	to	16.3	1.04	1.02	to	1.06	181	10
Commercial/Ind.	98.0	67.8	to	103.8	13.5	2.1	to	19.7	1.11	1.01	to	1.14	5	(
Vacant Lot	109.2	-	N/A	-	57.0	-	N/A	-	1.35	-	N/A	-	18	:
Farm & Home	71.1	-	N/A	-	27.5	-	N/A	-	1.14	-	N/A	-	41	(
Ag. Land Only	3.2	-	N/A	-	49.3	-	N/A	-	0.89	-	N/A	-	14	:
Ag.(Impr.+ Land)	3.6	-	N/A	-	35.5	-	N/A	-	0.94	-	N/A	-	19	:
Other/Ex/Ut/NP/Mix	231.6	-	N/A	-	-	-	N/A	-	-	-	N/A	-	1	(
TOTAL w/Ag.& F&H	87.1		N/A	-	17.3	-	N/A	-	1.05		N/A	-	268	4
TOTAL MARKET	90.6		N/A	-	15.1		N/A	-	1.03		N/A	-	208	2.
				045 : JEV	VELL COI	JNTY								
	1.		6: 1				.				C : 1			
PROPERTY CLASS	Median Ratio		nfide nterva		COD		nfider nterva		PRD		nfider nterva		Valid Sales	Trin Sale:
FNOFENTI CLASS	natio	ır	iterv	aı	COD	ır	itei Vä	71	LVD	11	iterva	21	Sales	Sale
Residential	99.5	81.7	to	110.9	22.8	16.4	to	33.4	1.01	0.96	to	1.09	24	
Commercial/Ind.	120.6	55.2	to	122.0	19.8	0.4	to	46.2	0.94	0.92	to	1.00	3	(
Vacant Lot	-	-	-	-	-	_	-	-	-	-	-	-	0	
Farm & Home	30.0	-	N/A	-	21.3	_	N/A	-	1.17	-	N/A	-	4	(
Ag. Land Only	9.7	-	N/A	-	62.6	-	N/A	-	0.89	-	N/A	-	8	(
Ag.(Impr.+ Land)	13.5	-	N/A	-	53.4	-	N/A	-	0.93	-	N/A	-	10	
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	72.5	-	N/A	-	60.0	-	N/A	-	2.21	-	N/A	-	42	
TOTAL MARKET	99.5		N/A	-	26.6		N/A	-	0.97		N/A	-	28	

			04	16 : JOHI	ISON COL	UNTY								
	Median	Cor	nfide	nce		Cor	nfidei	nce		Cor	nfidei	nce	Valid	Trim
PROPERTY CLASS	Ratio		terva		COD		nterva		PRD		nterva		Sales	Sales
Residential	94.0	93.0	to	95.6	7.8	7 2	to	8.6	0.99	0.99	to	1.00	310	15
Commercial/Ind.	86.7	82.4		93.3	22.9	19.9		26.9	1.04	0.99		1.10	127	- 1
Vacant Lot	64.5		N/A	93.3	22.6		N/A	20.9	1.02		N/A	1.10	507	32
Farm & Home	58.6		N/A	-	29.0		N/A	-	0.94		N/A	-	27	34
	0.2			-				-				-		
Ag. Land Only			N/A	-	161.0		N/A	-	0.91		N/A	-	71	10
Ag.(Impr.+ Land)	0.3		N/A	-	175.9		N/A	-	0.89		N/A	-	74	10
Other/Ex/Ut/NP/Mix	144.1		N/A	-	33.6		N/A	-	1.12		N/A	-	7	(
TOTAL w/Ag.& F&H	75.5		N/A	-	31.3		N/A	-	0.93		N/A	-	1060	2!
TOTAL MARKET	79.6	-	N/A	-	23.7	-	N/A	-	0.94	-	N/A	-	959	37
				047 : KE	ARNY COL	UNTY								
	N 41!	C	£: -1 -			C	- C: -I -			C	. f: .l -		\ /= l: -l	T
	Median		ıfide		605		nfide		000		nfide		Valid	Trin
PROPERTY CLASS	Ratio	Ir	iterva	al	COD	Ir	nterva	al	PRD	Ir	nterva	al	Sales	Sale
Residential	85.1	75.4	to	93.9	15.2	11.7	to	20.5	1.06	1.02	to	1.13	32	
Commercial/Ind.	86.2	56.2	to	104.5	18.8	10.7	to	29.8	0.93	0.81	to	1.04	9	:
Vacant Lot	63.0	-	N/A	-	52.4	-	N/A	-	1.52	-	N/A	-	2	(
Farm & Home	-	-	-	-	-	-	-	-	-	-	-	-	0	
Ag. Land Only	9.2	-	N/A	-	67.5	-	N/A	-	0.59	-	N/A	-	8	:
Ag.(Impr.+ Land)	7.9	-	N/A	-	76.0	-	N/A	-	0.58	-	N/A	-	9	
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	77.9	_	N/A	-	35.0	-	N/A	-	1.07	_	N/A	_	53	
TOTAL MARKET	85.1		N/A	-	16.9		N/A	-	1.02		N/A	-	44	•
			04	8 : KING	MAN CO	UNTY								
	N 41:	C	t : -1 -			C	- C: -I -			C	. f: .1 -		\ /= l: -l	T
PROPERTY CLASS	Median Ratio		ifide iterva		COD		nfide nterva		PRD		nfide nterva		Valid Sales	Trin Sale:
D:	400 :	00 =		442.2	45.0	12.5		20.5	4.00	0.00		4.05		
Residential	102.4	96.7		113.9	15.9	12.9		20.6	1.02	0.99		1.05	54	
Commercial/Ind.	102.1	97.9		141.3	19.7	10.0		36.4	0.84	0.77		1.04	9	(
Vacant Lot	185.4		N/A	-	50.2		N/A	-	1.20	-	N/A	-	4	:
Farm & Home	37.5		N/A	-	22.0		N/A	-	1.03		N/A	-	4	(
Ag. Land Only	7.5		N/A	-	72.1		N/A	-	1.02		N/A	-	11	
Ag.(Impr.+ Land)	6.2	-	N/A	-	73.3	-	N/A	-	0.98	-	N/A	-	16	(
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	96.8	-	N/A	-	39.2	-	N/A	-	1.18	-	N/A	-	88	4
TOTAL W/Ag.& T&IT														

Residential Commercial/Ind. Vacant Lot Farm & Home Ag. Land Only Ag.(Impr.+ Land) Other/Ex/Ut/NP/Mix TOTAL w/Ag.& F&H TOTAL MARKET Mec PROPERTY CLASS Residential Commercial/Ind. 1 Vacant Lot	88.7 74.8 44.6 17.0 13.7 - 86.8 90.9	86.8 69.7 - - - - -	to N/A N/A N/A - N/A N/A	nce al 119.8 90.7 - - -	COD 22.2 8.5 - 59.9 39.8 39.6 - 38.3 20.8	Cor Ir 14.8 0.8 - - - -	to to N/A N/A N/A N/A - N/A		PRD 1.04 1.18 - 0.95 0.99 1.00 - 1.16 1.23	0.99 1.00 - - -			Valid Sales 16 3 2 2 4 5 0 29 22	Trim Sales 00 01 10 00 00 11 22
Residential Commercial/Ind. Vacant Lot Farm & Home Ag. Land Only Ag.(Impr.+ Land) Other/Ex/Ut/NP/Mix TOTAL w/Ag.& F&H TOTAL MARKET Mec PROPERTY CLASS Residential Commercial/Ind. 1 Vacant Lot	93.5 88.7 74.8 44.6 17.0 13.7 - 86.8 90.9	86.8 69.7 - - - - -	to to N/A N/A N/A N/A N/A N/A	119.8 90.7 - - - -	22.2 8.5 - 59.9 39.8 39.6 - 38.3 20.8	14.8 0.8 - - - -	to to N/A N/A N/A N/A	37.0 9.9 -	1.04 1.18 - 0.95 0.99 1.00 - 1.16	0.99 1.00 - - -	to to N/A N/A N/A N/A	1.10	Sales 16 3 2 2 4 5 0 29	Sales CC CC CC CC CC CC CC CC CC
Residential Commercial/Ind. Vacant Lot Farm & Home Ag. Land Only Ag.(Impr.+ Land) Other/Ex/Ut/NP/Mix TOTAL w/Ag.& F&H TOTAL MARKET Mec PROPERTY CLASS Residential Commercial/Ind. 1 Vacant Lot	93.5 88.7 74.8 44.6 17.0 13.7 - 86.8 90.9	86.8 69.7 - - - - -	to to N/A N/A N/A N/A N/A N/A	119.8 90.7 - - - -	22.2 8.5 - 59.9 39.8 39.6 - 38.3 20.8	14.8 0.8 - - - -	to to N/A N/A N/A N/A	37.0 9.9 -	1.04 1.18 - 0.95 0.99 1.00 - 1.16	0.99 1.00 - - -	to to N/A N/A N/A N/A	1.10	Sales 16 3 2 2 4 5 0 29	Sales CC CC CC CC CC CC CC CC CC
Residential Commercial/Ind. Vacant Lot Farm & Home Ag. Land Only Ag.(Impr.+ Land) Other/Ex/Ut/NP/Mix TOTAL w/Ag.& F&H TOTAL MARKET Mec PROPERTY CLASS Residential Commercial/Ind. 1	93.5 88.7 74.8 44.6 17.0 13.7 - 86.8 90.9	86.8 69.7 - - - - -	to to N/A N/A N/A N/A N/A O N/A O O O O O O O O O O O O O O O O O O O	119.8 90.7 - - - - -	22.2 8.5 - 59.9 39.8 39.6 - 38.3 20.8	14.8	to to N/A N/A N/A N/A - N/A	37.0 9.9 -	1.04 1.18 - 0.95 0.99 1.00 - 1.16	0.99 1.00	to to N/A N/A N/A N/A - N/A	1.10	16 3 2 2 2 4 5 0	0 0 1 0 0 0
Commercial/Ind. Vacant Lot Farm & Home Ag. Land Only Ag.(Impr.+ Land) Other/Ex/Ut/NP/Mix TOTAL w/Ag.& F&H TOTAL MARKET Mec PROPERTY CLASS Residential Commercial/Ind. 1	88.7 74.8 44.6 17.0 13.7 - 86.8 90.9	69.7 - - - - -	to N/A N/A N/A - N/A N/A	90.7	8.5 - 59.9 39.8 39.6 - 38.3 20.8	0.8	to N/A N/A N/A N/A - N/A	9.9	1.18 - 0.95 0.99 1.00 - 1.16	1.00	to N/A N/A N/A N/A - N/A		3 2 2 4 5 0	C 1 C C C
Vacant Lot Farm & Home Ag. Land Only Ag. (Impr.+ Land) Other/Ex/Ut/NP/Mix TOTAL w/Ag.& F&H TOTAL MARKET Mec PROPERTY CLASS Residential Commercial/Ind. 1 Vacant Lot	74.8 44.6 17.0 13.7 - 86.8 90.9	- - - - - - - Cor	N/A N/A N/A - N/A N/A	- - - - - -	59.9 39.8 39.6 - 38.3 20.8	- - - - -	N/A N/A N/A N/A - N/A	-	0.95 0.99 1.00 - 1.16	- - - -	N/A N/A N/A N/A - N/A	1.18	2 2 4 5 0 29	1 0 0
Farm & Home Ag. Land Only Ag.(Impr.+ Land) Other/Ex/Ut/NP/Mix TOTAL w/Ag.& F&H TOTAL MARKET Mec PROPERTY CLASS Residential Commercial/Ind. 1 Vacant Lot	44.6 17.0 13.7 - 86.8 90.9 dian Ratio	- - - - - Cor	N/A N/A N/A - N/A N/A	-	39.8 39.6 - 38.3 20.8	- - - - -	N/A N/A N/A - N/A		0.99 1.00 - 1.16	- - - -	N/A N/A N/A - N/A	-	2 4 5 0 29	() () () -
Ag. Land Only Ag. (Impr.+ Land) Other/Ex/Ut/NP/Mix TOTAL w/Ag.& F&H TOTAL MARKET Mec PROPERTY CLASS Residential Commercial/Ind. 1 Vacant Lot	17.0 13.7 - 86.8 90.9 dian Ratio	- - - - - Cor	N/A N/A N/A - N/A N/A	-	39.8 39.6 - 38.3 20.8	- - - -	N/A N/A - N/A		0.99 1.00 - 1.16	- - - -	N/A N/A N/A - N/A	- - - - -	4 5 0 29	(
Ag. Land Only Ag. (Impr.+ Land) Other/Ex/Ut/NP/Mix TOTAL w/Ag.& F&H TOTAL MARKET Mec PROPERTY CLASS Residential Commercial/Ind. 1 Vacant Lot	17.0 13.7 - 86.8 90.9 dian Ratio	- - - - - Cor	N/A N/A - N/A N/A	- - - - - - 050 : LAI	39.6 - 38.3 20.8	- - - -	N/A N/A - N/A	- - - -	1.00 - 1.16	- - -	N/A N/A - N/A		5 0 29	
Ag.(Impr.+ Land) Other/Ex/Ut/NP/Mix TOTAL w/Ag.& F&H TOTAL MARKET Mec PROPERTY CLASS Residential Commercial/Ind. 1 Vacant Lot	- 86.8 90.9 dian Ratio	- - - - Cor	N/A - N/A N/A	- - - - - - - - - - - - - - - - - - -	38.3 20.8	-	- N/A		1.16	- - -	N/A - N/A	-	0 29	-
Other/Ex/Ut/NP/Mix TOTAL w/Ag.& F&H TOTAL MARKET Mec PROPERTY CLASS Residential Commercial/Ind. 1 Vacant Lot	86.8 90.9 dian Ratio	- - - Cor	- N/A N/A	- - - - 050 : LAI	38.3 20.8	-	- N/A	-		-	- N/A	-	29	
TOTAL w/Ag.& F&H TOTAL MARKET Med PROPERTY CLASS Residential Commercial/Ind. 1 Vacant Lot	90.9 dian Ratio	Cor	N/A	- - 050 : LAI	20.8	-	-	-			-	-		
TOTAL MARKET Med PROPERTY CLASS Residential Commercial/Ind. 1 Vacant Lot	90.9 dian Ratio	Cor	N/A	- 050 : LAI	20.8	-	-	-			-	-		
PROPERTY CLASS Residential Commercial/Ind. 1 Vacant Lot	Ratio			050 : LAI	BETTE COL	UNTY								
PROPERTY CLASS Residential Commercial/Ind. 1 Vacant Lot	Ratio		ofid c											
PROPERTY CLASS Residential Commercial/Ind. 1 Vacant Lot	Ratio		HIME	nce		Cor	nfider	nce		Cor	nfider	nce	Valid	Trin
Residential Commercial/Ind. 1 Vacant Lot			iterv		COD		nterva		PRD		nterva		Sales	Sale
Commercial/Ind. 1 Vacant Lot						•••							5 a.65	
Vacant Lot	99.5	95.9	to	104.3	22.7	19.3	to	27.0	1.10	1.06	to	1.14	133	1:
	105.2	57.3	to	163.0	35.7	10.4	to	55.0	0.98	0.87	to	1.14	5	(
Farm & Home	87.0	-	N/A	-	125.2	-	N/A	-	3.43	-	N/A	-	9	(
	45.1	-	N/A	-	32.0	-	N/A	-	1.13	-	N/A	-	9	:
Ag. Land Only	4.1	-	N/A	-	27.0	-	N/A	-	0.97	-	N/A	-	7	(
Ag.(Impr.+ Land)	4.3	-	N/A	-	37.1	-	N/A	-	0.99	-	N/A	-	12	(
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
	95.9	-	N/A	-	23.8	-	N/A	-	1.13	-	N/A	-	169	33
	98.8		N/A	-	24.2		N/A	-	1.09		N/A	-	148	1!
				051 :	LANE COL	JNTY								
Med	dian	Cor	nfide	nce		Cor	nfider	nce		Cor	nfider	nce	Valid	Trin
	Ratio		iterv		COD		nterva		PRD		nterva		Sales	Sale
Residential	95.1	91.8	to	121.8	16.6	4.6	to	83.6	1.09	1.00	to	2.47	9	:
	173.5		N/A	-	81.8		N/A	-	4.71		N/A	-	2	
·	139.7		n/A	-	_		N/A	-	-			-	1	(
	30.1		N/A	-	-		N/A	_	-		N/A	_	1	(
Ag. Land Only	5.7		N/A	_	42.5		N/A	_	0.85		N/A	_	3	(
Ag.(Impr.+ Land)	5.7		N/A	_	42.5		N/A	_	0.85		N/A	_	3	
Other/Ex/Ut/NP/Mix	-	_		_	-	_	_	_	-	_	-	_	0	
	93.6		N/A	-	47.6	_	N/A	-	1.47	_	N/A	_	17	
_	95.1		N/A	_	31.7		N/A	_	1.19		N/A	_	13	

): 20.0								
		052	2 : LE	AVENWO	ORTH COL	JNTY								
	Median	Cor	nfide	nce		Cor	nfidei	nce		Cor	nfider	nce	Valid	Trim
PROPERTY CLASS	Ratio		iterv		COD		nterva		PRD		nterva		Sales	Sales
Desidential	02.0	01.0		02.0	7.2	<i>C</i> 2		0.2	1.00	0.00		1.00	107	2./
Residential	92.8			93.9	7.3		to	8.3	1.00	0.99		1.00	197	24
Commercial/Ind.	94.6			108.3	26.1	16.6		46.4	1.08	0.96		1.26	17	1
Vacant Lot	87.7		N/A	-	18.8		N/A	-	1.05		N/A	-	74	12
Farm & Home	66.8		N/A	-	25.8		N/A	-	0.99		N/A	-	62	(
Ag. Land Only	0.9		N/A	-	131.1		N/A	-	0.63		N/A	-	52	į
Ag.(Impr.+ Land)	1.0	-	N/A	-	127.6	-	N/A	-	0.62	-	N/A	-	55	(
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	86.4		N/A	-	16.7		N/A	-	1.06		N/A	-	406	75
TOTAL MARKET	92.1	-	N/A	-	10.1	-	N/A	-	1.01	-	N/A	-	289	40
)53 · I IN(COLN COL	INTY								
				,33 . 2		J. 1. 1								
	Median	Cor	nfide	nce		Cor	nfidei	nce		Cor	nfider	nce	Valid	Trin
PROPERTY CLASS	Ratio	Ir	iterv	al	COD	Ir	nterva	al	PRD	Ir	nterva	al	Sales	Sale
Residential	104.8	100.1	to	118.5	14.0	10.7	to	20.6	0.98	0.93	to	1.04	21	
Commercial/Ind.	97.1	82.3	to	101.4	11.7	4.1	to	26.1	1.05	0.99	to	1.22	11	
Vacant Lot	-	-	-	-	-	-	-	-	-	-	-	-	0	
Farm & Home	-	-	-	-	-	-	-	-	-	-	-	-	0	
Ag. Land Only	6.2	-	N/A	-	92.2	-	N/A	-	1.56	-	N/A	-	8	(
Ag.(Impr.+ Land)	7.2	-	N/A	-	66.9	-	N/A	-	1.35	-	N/A	-	10	
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	97.7	-	N/A	-	36.7	-	N/A	-	1.79	-	N/A	-	43	
TOTAL MARKET	101.4		N/A	-	15.4		N/A	-	1.04		N/A	-	33	:
				054 :	LINN COL	UNTY								
	Median	Cor	nfide	0.50		Cor	nfidei	200		Cor	nfider	200	Valid	Trin
PROPERTY CLASS	Ratio		iterva		COD		nterva		PRD		nterva		Sales	Sale
Residential	87.4	84.5	to	93.3	18.6	16.2	to	22.0	1.04	1.01	to	1.07	125	(
Commercial/Ind.	98.3			101.2	19.1		to	58.4	1.17	1.00		1.74	4	
Vacant Lot	71.0		N/A		56.5				1.09	-		,.	157	1:
Farm & Home	49.9		N/A	_	37.0		N/A		1.06		N/A	_	25	(
Ag. Land Only	43.3		N/A	_	69.1		N/A		1.09		N/A	_	22	
Ag.(Impr.+ Land)	4.6		N/A	_	64.8		N/A		1.05		N/A		28	
Other/Ex/Ut/NP/Mix	4.0		11/74		04.0				1.05		14/74		0	•
TOTAL w/Ag.& F&H	79.5		N/A	-	42.2		N/A		1.25		N/A	_	340	18
IOTAL W/Ag. & F&A	81.3		N/A	-	33.9		N/A	-	0.92		N/A	-	287	22
TOTAL MARKET	01 3													

				055 : L	OGAN COL	JNTY								
	Median	Cor	ıfide	nco		Cor	nfider	200		Cor	nfidei	200	Valid	Trim
PROPERTY CLASS	Ratio		iterv		COD		nterva		PRD		nterva		Sales	Sales
PROPERTY CLASS	Natio	- 11	iterv	aı	COD	- 11	iterva	11	PND	- 11	iterv	al	Sales	Sales
Residential	94.8	84.0	to	100.0	14.5	10.3	to	20.4	1.04	1.00	to	1.09	32	2
Commercial/Ind.	101.7	57.6	to	143.7	32.0	8.3	to	41.2	1.77	1.08	to	1.95	4	(
Vacant Lot	105.9	-	N/A	-	19.0	-	N/A	-	1.12	-	N/A	-	2	(
Farm & Home	19.4	-	N/A	-	-	-	N/A	-	-	-	N/A	-	1	(
Ag. Land Only	16.5	-	N/A	-	29.2	-	N/A	-	0.88	-	N/A	-	4	(
Ag.(Impr.+ Land)	16.5	-	N/A	-	29.2	-	N/A	-	0.88	-	N/A	-	4	(
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	90.8	-	N/A	-	23.3	-	N/A	-	1.37	-	N/A	-	44	4
TOTAL MARKET	94.4	-	N/A	-	16.1	-	N/A	-	1.31	-	N/A	-	39	2
				056 :	LYON COL	JNTY								
	Median	Cor	nfide	nce		Cor	nfider	nce		Cor	nfidei	nce	Valid	Trin
PROPERTY CLASS	Ratio		terv		COD		nterva		PRD		nterva		Sales	Sale
	71000				002								54.55	
Residential	96.8	95.1	to	99.6	11.3	10.3	to	12.5	1.00	0.99	to	1.01	349	43
Commercial/Ind.	88.2	75.3	to	105.4	19.4	15.3	to	27.4	1.13	1.06	to	1.23	14	(
Vacant Lot	100.7	-	N/A	-	18.8	-	N/A	-	0.97	-	N/A	-	22	:
Farm & Home	69.7	-	N/A	-	38.4	-	N/A	-	0.97	-	N/A	-	27	(
Ag. Land Only	5.4	-	N/A	-	61.9	-	N/A	-	0.89	-	N/A	-	14	(
Ag.(Impr.+ Land)	6.5	-	N/A	-	49.1	-	N/A	-	0.89	-	N/A	-	15	(
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	95.3	-	N/A	-	12.6	-	N/A	-	1.01	-	N/A	-	428	69
TOTAL MARKET	96.8		N/A	-	11.6		N/A	-	1.01		N/A	-	386	5:
)57 · M/	ARION COL	INTY								
	Median	Cor	nfide				nfider	200		Cor	nfidei	200	Valid	Trin
PROPERTY CLASS	Ratio		iterv		COD		nterva		PRD		nterva		Sales	Sale
Residential	95.1	92.6		98.3	12.7	10.5		15.2	1.00	0.98		1.02	110	1!
Commercial/Ind.	95.0	61.6		110.8	22.4	12.2		38.2	1.37	1.24		1.59	10	(
Vacant Lot	332.5		N/A	-	18.4		N/A	-	1.04	-	,	-	4	
Farm & Home	69.1		N/A	-	18.3		N/A	-	1.03		N/A	-	15	(
Ag. Land Only	3.0		N/A	-	77.2		N/A	-	1.09		N/A	-	7	(
Ag.(Impr.+ Land)	4.7	-	N/A	-	65.6	-	N/A	-	0.90	-	N/A	-	9	
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-		-	-	-	-	-	0	
TOTAL w/Ag.& F&H	92.8	_	N/A	-	17.9	-	N/A	-	1.08	-	N/A	-	149	2:
TOTAL W/Ag. & F&F	32.0		-				-							

			058	3 : MARS	HALL COL	JNTY								
	Median	Cor	nfide	nce		Cor	nfider	nce		Cor	nfidei	nce	Valid	Trim
PROPERTY CLASS	Ratio		iterva		COD		nterva		PRD		iterva		Sales	Sales
THOTENTI CEASS	Ratio		itel ve	41	COD		licer ve	*'	TIND		icei ve	ai	Jaics	Jaics
Residential	99.9	94.9	to	102.6	15.0	12.4	to	18.2	1.01	0.99	to	1.04	108	14
Commercial/Ind.	89.6	57.5	to	143.7	35.1	8.5	to	40.4	1.00	0.88	to	1.08	4	(
Vacant Lot	68.9	-	N/A	-	46.0	-	N/A	-	1.30	-	N/A	-	5	(
Farm & Home	60.8	-	N/A	-	-	-	N/A	-	-	-	N/A	-	1	(
Ag. Land Only	10.9	-	N/A	-	23.5	-	N/A	-	1.02	-	N/A	-	8	
Ag.(Impr.+ Land)	10.3	-	N/A	-	22.3	-	N/A	-	1.00	-	N/A	-	10	
Other/Ex/Ut/NP/Mix	121.7		N/A	-	-		N/A	-	-		N/A	-	1	(
TOTAL w/Ag.& F&H	97.0		N/A	-	20.2		N/A	-	1.01		N/A	-	130	18
TOTAL MARKET	98.6	-	N/A	-	18.6	-	N/A	-	1.01	-	N/A	-	119	1:
			059 :	МСРНЕЯ	ISON COL	JNTY								
	Median	Cor	nfide	nce		Cor	nfider	nce.		Cor	nfidei	100	Valid	Trin
PROPERTY CLASS	Ratio		iterva		COD		nterva		PRD		iterva		Sales	Sale
FROFERIT CLASS	Natio	- "	iterv	21	COD	- 11	itei va	11	FIND	- 11	itei v	21	Jaies	Jaic
Residential	99.3	98.1	to	100.0	7.2	6.5	to	7.9	1.00	1.00	to	1.01	354	4:
Commercial/Ind.	103.7	83.9	to	126.3	19.0	10.5	to	31.7	1.04	0.96	to	1.17	10	(
Vacant Lot	84.4	-	N/A	-	51.0	-	N/A	-	1.07	-	N/A	-	4	
Farm & Home	76.0	-	N/A	-	28.8	-	N/A	-	1.18	-	N/A	-	21	(
Ag. Land Only	8.8	-	N/A	-	38.8	-	N/A	-	0.96	-	N/A	-	19	(
Ag.(Impr.+ Land)	8.8	-	N/A	-	37.8	-	N/A	-	0.98	-	N/A	-	20	(
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	98.4	-	N/A	-	8.3	-	N/A	-	1.01	-	N/A	-	410	65
TOTAL MARKET	99.3	-	N/A	-	7.3	-	N/A	-	1.00		N/A	-	369	4
				060 : ME	ADE COL	JNTY								
	Median	Cor	nfide	0.00		Cor	nfider	200		Cor	nfidei	200	Valid	Trin
PROPERTY CLASS	Ratio		iterv		COD		iterva		PRD		iterv		Sales	Sale
Residential	89.0	81.0	to	106.7	17.4	13.7	to	22.8	1.05	1.02	to	1.09	37	
Commercial/Ind.	71.8	65.2		94.5	15.0		to	18.7	0.82	0.79		0.98	4	
Vacant Lot	88.2		N/A	34.3	13.0		N/A	10.7	0.02	0.73	N/A	0.30	1	
Farm & Home	63.5		N/A	-	28.0		N/A	-	1.00	-	N/A	-	4	
Ag. Land Only	9.3		N/A	-	20.0		N/A	-	1.00		N/A	-	1	(
Ag. (Impr.+ Land)	7.9			-	21 6		N/A	-	1.10			-	4	(
	7.9		N/A	-	31.6		IN/A	-	1.10	-	N/A	-	0	- (
Other/Ex/Ut/NP/Mix	01.0		- NI/A	-	10.0		- NI/A	-	1.02		- NI/A	-	-	4.
TOTAL w/Ag.& F&H	81.9 88.2		N/A N/A	-	18.9 17.3		N/A N/A	-	1.02		N/A N/A	-	51 43	10
TOTAL MARKET			INI / /N		1 /)								/1 -2	6

				061 : N	IIAMI COL	JNTY								
	Median	Cor	nfide	200		Cor	nfider	200		Cor	nfidei	200	Valid	Trim
PROPERTY CLASS	Ratio		iterva		COD		nterva		PRD		iterva		Sales	Sales
PROPERTY CLASS	Natio	- 11	iterv	1 1	COD	- 11	iterva	11	PND	- 11	iterv	31	Sales	Sales
Residential	91.5	89.6	to	92.3	9.3	8.6	to	10.2	1.01	1.00	to	1.02	416	36
Commercial/Ind.	98.7	91.0	to	137.0	22.2	14.4	to	34.6	1.19	1.08	to	1.44	11	(
Vacant Lot	85.5	-	N/A	-	47.1	-	N/A	-	1.23	-	N/A	-	78	
Farm & Home	66.6	-	N/A	-	16.6	-	N/A	-	1.03	-	N/A	-	35	4
Ag. Land Only	2.1		N/A	-	72.4		N/A	-	0.85		N/A	-	37	į
Ag.(Impr.+ Land)	2.7		N/A	-	91.3		N/A	-	1.00		N/A	-	46	
Other/Ex/Ut/NP/Mix	243.7		N/A	-	-		N/A	-	-		N/A	-	1	
TOTAL w/Ag.& F&H	88.6		N/A	-	12.2		N/A	-	1.02		N/A	_	588	112
TOTAL MARKET	90.5		N/A	-	9.9		N/A	-	1.01		N/A	-	507	79
			06	62 : MIT	CHELL COL	JNTY								
	Median	Cor	nfide	nce		Cor	nfider	nce		Cor	nfidei	nce	Valid	Trin
PROPERTY CLASS	Ratio		iterva		COD		nterva		PRD		iterva		Sales	Sale
TROTERTT CENS	Ratio			41	COD			41	1110		ite v	41	Juics	Juic
Residential	104.8	88.5	to	120.6	22.7	18.5	to	30.2	1.10	1.03	to	1.20	37	:
Commercial/Ind.	102.5	57.5	to	117.5	17.9	5.4	to	29.7	1.17	0.98	to	1.44	5	(
Vacant Lot	51.6	-	N/A	-	44.5	-	N/A	-	1.17	-	N/A	-	2	(
Farm & Home	81.7	-	N/A	-	27.1	-	N/A	-	1.17	-	N/A	-	4	(
Ag. Land Only	10.6	-	N/A	-	29.1	-	N/A	-	0.84	-	N/A	-	6	(
Ag.(Impr.+ Land)	10.6	-	N/A	-	29.1	-	N/A	-	0.84	-	N/A	-	6	
Other/Ex/Ut/NP/Mix	2421.0	-	N/A	-	-	-	N/A	-	-	-	N/A	-	1	
TOTAL w/Ag.& F&H	91.6	-	N/A	-	35.9	-	N/A	-	1.27		N/A	-	56	
TOTAL MARKET	101.6		N/A	-	23.7		N/A	-	1.09		N/A	-	46	ļ
		063	3 : M	ONTGO	MERY CO	JNTY								
	Median	Cor	nfide	nce		Cor	nfider	100		Cor	nfidei	100	Valid	Trin
PROPERTY CLASS	Ratio		iterva		COD		nterva		PRD		iterva		Sales	Sale
Residential	105.7	103.1	to	109.3	19.8	17.7	to	22.2	1.05	1.03	to	1.08	289	3:
Commercial/Ind.	104.0			125.6	20.0	13.1		29.3	1.05	0.99		1.12	17	
Vacant Lot	134.0		N/A	-	225.0		N/A	-	3.86	-	N/A	_	9	(
Farm & Home	50.6		N/A	_	39.8		N/A	_	1.01	-	N/A	_	16	
Ag. Land Only	4.0		N/A	_	25.8		N/A	_	0.95		N/A	_	6	
Ag.(Impr.+ Land)	3.9		N/A	_	35.4		N/A	_	0.87		N/A	_	9	
Other/Ex/Ut/NP/Mix	5.9	_		_	55.4		-		- 0.07	-		_	0	•
TOTAL w/Ag.& F&H	103.8		N/A	-	21.6		N/A	_	1.08	-	N/A	_	341	50
TOTAL W/Ag.&T&IT	105.6		N/A		20.4		N/A		1.06		N/A	_	316	38
	100.0		••, ~		20.7		14/ /		1.00		/ /~		310	٠,

				064 : M	ORRIS CO	JNTY								
	Median	Cor	nfide	nce		Cor	nfider	nce		Cor	nfidei	nce	Valid	Trim
PROPERTY CLASS	Ratio		iterv		COD		nterva		PRD		nterva		Sales	Sales
	07.0			40= 6	40.4	4= 0			1.00	4.00				
Residential	97.0	91.0		105.6	19.1	15.2		25.0		1.02		1.11	52	6
Commercial/Ind.	80.2	60.0		98.7	25.1	14.3		75.0	1.04	0.93		1.41	7	(
Vacant Lot	30.7		N/A	-	-		N/A	-	-	-	-	-	1	(
Farm & Home	67.8		N/A	-	5.2		N/A	-	0.98		N/A	-	3	(
Ag. Land Only	3.3		N/A	-	91.3		N/A	-	0.68		N/A	-	6	(
Ag.(Impr.+ Land)	3.7		N/A	-	86.2		N/A	-	0.71		N/A	-	8	(
Other/Ex/Ut/NP/Mix	28.5		N/A	-	-		N/A	-	-	-	N/A	-	1	(
TOTAL w/Ag.& F&H	90.0	-	N/A	-	25.9	-	N/A	-	1.15	-	N/A	-	73	12
TOTAL MARKET	94.2	-	N/A	-	21.8	-	N/A	-	1.03	-	N/A	-	62	7
			0(65 : MC	RTON COL	JNTY								
	Median	Cor	nfide				nfider	200		Cor	nfidei	200	Valid	Trin
PROPERTY CLASS	Ratio		iterva		COD		nterva		PRD		nterva		Sales	Sale
PROPERTY CLASS	Natio	- 11	iterv	31	COD	- 11	iterva	31	אל		iterv	31	Sales	Sale
Residential	96.4	87.9	to	148.4	20.0	10.8	to	30.6	1.07	1.02	to	1.16	11	
Commercial/Ind.	91.4	72.0	to	137.7	26.7	18.1	to	39.5	1.25	1.08	to	1.48	6	(
Vacant Lot	52.8	-	N/A	-	89.5	-	N/A	-	0.65	-	N/A	-	2	(
Farm & Home	-	-	-	-	-	-	-	-	-	-	-	-	0	
Ag. Land Only	7.9	-	N/A	-	23.3	-	N/A	-	0.88	-	N/A	-	4	
Ag.(Impr.+ Land)	7.9	-	N/A	-	23.3	-	N/A	-	0.88	-	N/A	-	4	(
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	91.5	_	N/A	-	41.1	-	N/A	-	1.06	_	N/A	_	24	
TOTAL MARKET	96.3		N/A	-	20.6		N/A	-	1.16		N/A	-	20	
			0	66 : NEI	МАНА СО	JNTY								
	Median		nfide		_		nfider				nfide		Valid	Trin
PROPERTY CLASS	Ratio	Ir	iterva	al	COD	Ir	nterva	al	PRD	Ir	nterva	al	Sales	Sale
Residential	90.1	85.1	to	93.7	18.0	15.1	to	21.7	1.04	1.01	to	1.08	113	1.
Commercial/Ind.	85.9	84.9	to	97.1	7.2	3.1	to	14.2	0.95	0.91	to	1.02	7	(
Vacant Lot	282.5		N/A	-	165.9		N/A		18.23		N/A	-	5	(
Farm & Home	62.4		N/A	-	36.9		N/A	-	1.30		N/A	-	12	
Ag. Land Only	9.9		N/A	-	52.6		N/A	_	0.83		N/A	_	12	
Ag.(Impr.+ Land)	9.8		N/A	_	58.9		N/A	_	0.80		N/A	_	16	
Other/Ex/Ut/NP/Mix	186.1		N/A	_	69.8		N/A	_	0.82		N/A	_	2	
TOTAL w/Ag.& F&H	85.1		N/A	-	22.5		N/A	-			N/A	_	156	3:
	89.8		N/A	_	18.6		N/A		1.04		N/A		128	20
TOTAL MARKET	XYX													

			C	067 : NE	osho col	JNTY								
	Median	Cor	nfide	nco		Cor	nfider	200		Cor	nfider	200	Valid	Trim
PROPERTY CLASS	Ratio		iterv		COD		nterva		PRD		iterva		Sales	Sales
PROPERTY CLASS	Natio	- 11	iterv	aı	COD	- 11	iterva	31	PND	- 11	iterva	1 1	Sales	Sales
Residential	101.7	98.2	to	104.9	16.8	14.3	to	19.8	1.03	1.00	to	1.07	144	17
Commercial/Ind.	102.0	77.8	to	114.4	19.0	9.9	to	41.9	1.07	0.96	to	1.38	10	(
Vacant Lot	71.7	-	N/A	-	68.7	-	N/A	-	1.94	-	N/A	-	11	
Farm & Home	57.6	-	N/A	-	28.1	-	N/A	-	1.29	-	N/A	-	4	(
Ag. Land Only	9.3	-	N/A	-	39.2	-	N/A	-	1.07	-	N/A	-	8	(
Ag.(Impr.+ Land)	9.5	-	N/A	-	39.2	-	N/A	-	1.07	-	N/A	-	9	:
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	99.6	-	N/A	-	20.1	-	N/A	-	1.09	-	N/A	-	179	2.
TOTAL MARKET	101.1	-	N/A	-	18.8	-	N/A	-	1.04	-	N/A	-	166	19
				068	: NESS COU	INITY								
				000	. 11233 601	51411								
	Median	Cor	nfide	nce		Cor	nfider	nce		Cor	nfider	nce	Valid	Trin
PROPERTY CLASS	Ratio	Ir	iterv	al	COD	Ir	nterva	al	PRD	Ir	nterva	al	Sales	Sale
Residential	105.1	88.5	to	111.6	17.7	12.2	to	27.8	1.01	0.96	to	1.06	21	
Commercial/Ind.	98.1	81.2	to	99.5	6.6	0.5	to	7.5	1.05	1.00	to	1.06	3	
Vacant Lot	_	-	-	-	-	-	-	-	-	-	-	-	0	
Farm & Home	48.1	-	N/A	-	-	-	N/A	-	-	-	N/A	-	1	
Ag. Land Only	16.6		ν/Α	-	28.5		N/A	-	1.16	-	N/A	_	3	
Ag.(Impr.+ Land)	12.6		ν/Α	-	35.7		N/A	-	1.15		N/A	_	6	
Other/Ex/Ut/NP/Mix	1824.7		n/A	-	-		N/A	_	_		N/A	-	1	
TOTAL w/Ag.& F&H	93.2		N/A	-	39.1		N/A	_	1.25		N/A	_	33	
TOTAL MARKET	100.1		N/A	-	16.6		N/A	-	1.01		N/A	-	26	4
			C)69 : NC	RTON COL	JNTY								
										_				
	Median		nfide		CO.D.		nfider		DDD		nfider		Valid	Trin
PROPERTY CLASS	Ratio	ır	iterv	dl	COD	ır	nterva	1 1	PRD	ır	nterva	11	Sales	Sale
Residential	89.5			96.4	20.1	16.3	to	25.4	1.09	1.04	to	1.15	59	
Commercial/Ind.	120.6	102.8	to	155.9	16.4	3.9	to	18.3	1.16	1.01	to	1.22	4	(
Vacant Lot	86.3		N/A	-	-	-	, .	-	-	-	N/A	-	1	
Farm & Home	82.6	-	N/A	-	-	-	N/A	-	-	-	N/A	-	1	(
Ag. Land Only	15.1	-	N/A	-	19.5	-	N/A	-	1.09	-	N/A	-	11	(
Ag.(Impr.+ Land)	15.0	-	N/A	-	21.1	-	N/A	-	1.06	-	N/A	-	12	
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
	00.0		N/A	_	34.7		N/A	-	1.35	_	N/A	-	78	
TOTAL w/Ag.& F&H	83.8		IN/ A		54.7		11/ /		1.55		14//		, 0	

PROPERTY CLASS Residential Commercial/Ind. Vacant Lot Farm & Home Ag. Land Only Ag.(Impr.+ Land) Other/Ex/Ut/NP/Mix TOTAL w/Ag.& F&H	98.3 75.5 109.3 79.6 5.3	93.6 57.6 -		nce	COD	Cor	nfider nterva		PRD		nfider nterva		Valid Sales	Trim
PROPERTY CLASS Residential Commercial/Ind. Vacant Lot Farm & Home Ag. Land Only Ag.(Impr.+ Land) Other/Ex/Ut/NP/Mix	98.3 75.5 109.3 79.6 5.3 5.4	93.6 57.6 -	to to	104.7					PRD					
PROPERTY CLASS Residential Commercial/Ind. Vacant Lot Farm & Home Ag. Land Only Ag.(Impr.+ Land) Other/Ex/Ut/NP/Mix	98.3 75.5 109.3 79.6 5.3 5.4	93.6 57.6 -	to to	104.7					PRD					
Residential Commercial/Ind. Vacant Lot Farm & Home Ag. Land Only Ag.(Impr.+ Land) Other/Ex/Ut/NP/Mix	98.3 75.5 109.3 79.6 5.3 5.4	93.6 57.6 -	to to	104.7		ır	iterva	al	PRIL			י וב		
Commercial/Ind. Vacant Lot Farm & Home Ag. Land Only Ag.(Impr.+ Land) Other/Ex/Ut/NP/Mix	75.5 109.3 79.6 5.3 5.4	57.6 - -	to		19.3			*1	1 110	- 11	iteiva	al .	Jaies	Sales
Vacant Lot Farm & Home Ag. Land Only Ag.(Impr.+ Land) Other/Ex/Ut/NP/Mix	109.3 79.6 5.3 5.4	-		143.0		17.0	to	22.0	1.04	1.02	to	1.06	171	20
Farm & Home Ag. Land Only Ag.(Impr.+ Land) Other/Ex/Ut/NP/Mix	79.6 5.3 5.4	-	N/A		42.2	7.6	to	53.7	1.17	0.98	to	1.25	5	(
Ag. Land Only Ag.(Impr.+ Land) Other/Ex/Ut/NP/Mix	5.3 5.4	-	-	-	27.7	-	N/A	-	1.11	-	N/A	_	12	2
Ag.(Impr.+ Land) Other/Ex/Ut/NP/Mix	5.3 5.4		N/A	-	28.8		N/A	-	1.11		N/A	_	37	2
Ag.(Impr.+ Land) Other/Ex/Ut/NP/Mix	5.4		N/A	-	48.7		N/A	-	0.87		N/A	-	25	2
Other/Ex/Ut/NP/Mix			N/A	-	54.3		N/A	-	0.92		N/A	-	35	
	246.6		N/A	-	-		N/A	-	-		N/A	-	1	(
, 5	91.2		N/A	-	36.1		N/A	-	1.19		N/A	-	262	22
TOTAL MARKET	98.4		N/A	-	19.9		N/A	-	1.04		N/A	-	190	25
			07	71 : OSB	ORNE COL	JNTY								
N/	1odian	Cor	nfide	200		Cor	nfider	200		Cor	nfider	200	Valid	Trin
PROPERTY CLASS	1edian Ratio		iterva		COD		nterva		PRD		nterva		Valid Sales	Trim Sale:
PROPERTY CLASS	Katio	11	iterv	d I	COD	11	iterva	11	PKD	11	iterva	d I	Sales	Sale
Residential	94.8	81.7	to	115.2	18.5	13.5	to	26.0	1.05	0.98	to	1.14	18	:
Commercial/Ind.	110.9	83.1	to	136.6	18.6	10.9	to	35.6	0.95	0.89	to	1.09	6	(
Vacant Lot	105.5	-	N/A	-	125.9	-	N/A	-	1.91	-	N/A	-	6	(
Farm & Home	26.2	-	N/A	-	35.7	-	N/A	-	1.51	-	N/A	-	3	(
Ag. Land Only	5.1	-	N/A	-	-	-	N/A	-	-	-	N/A	-	1	(
Ag.(Impr.+ Land)	13.1	-	N/A	-	61.2	-	N/A	-	0.85	-	N/A	-	2	(
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	94.4	-	N/A	-	33.0	-	N/A	-	1.16	-	N/A	-	36	3
TOTAL MARKET	98.0	-	N/A	-	19.4	-	N/A	-	1.01	-	N/A	-	31	4
			0	72 : OTT	AWA COU	JNTY								
N	1edian	Cor	nfide	nce		Cor	nfider	nce		Cor	nfider	nce	Valid	Trin
PROPERTY CLASS	Ratio		iterva		COD		nterva		PRD		nterva		Sales	Sale
Residential	98.7	95.1	to	102.6	14.9	11.4	to	19.6	1.05	1.01	to	1.09	44	
Commercial/Ind.		100.5		149.1	10.8		to	17.5	1.07	1.01		1.13	5	
Vacant Lot	77.3		N/A		76.8			_,.5	1.45		N/A		9	
Farm & Home	64.0		N/A	_	17.4		N/A		0.97		N/A	_	6	
Ag. Land Only	8.0		N/A	_	65.1		N/A		0.86		N/A	_	10	
Ag. (Impr.+ Land)	7.6		N/A		63.8		N/A		0.90		N/A	_	12	(
Other/Ex/Ut/NP/Mix	7.0		-		03.8				0.50		-	_	0	
TOTAL w/Ag.& F&H	91.4		N/A	-	37.9		N/A		1.15		N/A	_	77	
TOTAL W/Ag.& F&H	99.4		N/A		15.2		N/A		1.07		N/A	_	59	

			C	73 : PA	WNEE COL	JNTY								
	Median	Cor	nfide	nco		Cor	nfider	200		Cor	nfider	200	Valid	Trim
PROPERTY CLASS	Ratio		iterva		COD		iterva		PRD		iterva		Sales	Sales
PROPERTY CLASS	Natio	11	iterv	31	COD	- 11	iterva	31	PND	- 11	iterva	11	Sales	Sales
Residential	102.5	95.5	to	110.1	20.1	15.9	to	25.4	1.03	0.99	to	1.07	63	3
Commercial/Ind.	111.7	86.7	to	169.7	32.8	23.8	to	52.9	1.00	0.89	to	1.10	10	C
Vacant Lot	102.3	-	N/A	-	261.0	-	N/A	-	3.25	-	N/A	-	3	(
Farm & Home	86.3	-	N/A	-	55.4	-	N/A	-	2.67	-	N/A	-	4	(
Ag. Land Only	13.7	-	N/A	-	30.4	-	N/A	-	0.97	-	N/A	-	9	(
Ag.(Impr.+ Land)	13.8		N/A	-	36.5	-	N/A	-	0.96	-	N/A	-	10	(
Other/Ex/Ut/NP/Mix	508.8		N/A	-	-		N/A	-	-		N/A	-	1	(
TOTAL w/Ag.& F&H	101.0	-	N/A	-	28.5	-	N/A	-	1.34		N/A	-	92	(
TOTAL MARKET	102.6	-	N/A	-	21.9	-	N/A	-	1.03	-	N/A	-	78	(
)74 : PH	ILLIPS CO	JNTY								
	Median	Cor	nfide	nco		Cor	nfider	200		Cor	nfider	nce	Valid	Trin
PROPERTY CLASS	Ratio		iterva		COD		nterva		PRD		nterva		Sales	Sale
PROPERTY CLASS	Natio	11	iterv	21	COD	- 11	iterva	31	PND	- 11	iterva	71	Sales	Sale
Residential	83.7	79.1	to	91.4	18.5	14.5	to	24.7	1.04	1.00	to	1.10	43	:
Commercial/Ind.	73.3	45.4	to	99.5	31.4	4.5	to	34.3	1.13	0.87	to	1.43	4	(
Vacant Lot	125.0	-	N/A	-	-	-	N/A	-	-	-	N/A	-	1	
Farm & Home	31.3	-	N/A	-	37.6	-	N/A	-	0.97	-	N/A	-	3	(
Ag. Land Only	11.6	-	N/A	-	28.4	-	N/A	-	1.09	-	N/A	-	5	(
Ag.(Impr.+ Land)	11.6	-	N/A	-	28.4	-	N/A	-	1.09	-	N/A	-	5	(
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	79.3	-	N/A	-	30.4	-	N/A	-	1.20	-	N/A	-	57	
TOTAL MARKET	83.7		N/A	-	19.9		N/A	-	1.06		N/A	-	49	4
		075 :	: POT	TAWAT	OMIE COL	JNTY								
	Median	Cor	nfide	nce		Cor	nfider	nce		Cor	nfider	nce	Valid	Trin
PROPERTY CLASS	Ratio		iterva		COD		nterva		PRD		nterva		Sales	Sale
Residential	96.9	95.8	to	98.0	8.4	7.6	to	9.3	1.00	0.99	to	1.00	298	28
Commercial/Ind.	87.2	72.6		97.8	17.5	11.5		30.9	0.92	0.80		1.13	10	
Vacant Lot	75.6	-	N/A	-	33.1		N/A	-	1.42	-	N/A	-	42	(
Farm & Home	65.9		N/A	-	22.3		N/A	-	1.03	-	N/A	-	18	(
Ag. Land Only	3.0		n/A	-	114.5		N/A	-	1.80		N/A	-	18	
Ag.(Impr.+ Land)	3.3		N/A	_	99.7		N/A	_	1.64		N/A	_	22	
Other/Ex/Ut/NP/Mix	153.5		N/A	_			N/A	_			N/A	_	1	
TOTAL w/Ag.& F&H	95.0		N/A	_	12.2		N/A	_	0.99		N/A	_	392	49
	96.2		N/A	_	9.9		N/A	_	0.99		N/A	_	352	39
TOTAL MARKET														

				076 : 1	PRATT COL	JNTY								
	Madian	Cor	ıfide	200		Cor	nfider			Car	nfider	200	Valid	Trim
	Median				600				DDD				Valid	
PROPERTY CLASS	Ratio	II	terva	3 1	COD	ır	nterva	31	PRD	ır	nterva	a 1	Sales	Sales
Residential	100.5	96.7	to	103.1	11.5	9.8	to	13.5	1.02	1.01	to	1.04	110	9
Commercial/Ind.	78.3	68.5	to	104.4	11.7	6.9	to	20.3	1.02	0.95	to	1.08	9	1
Vacant Lot	32.8	-	N/A	-	23.4	-	N/A	-	1.28	-	N/A	-	2	(
Farm & Home	78.8		N/A	-	27.1		N/A	-	1.03		N/A	-	5	(
Ag. Land Only	13.9		N/A	-	47.1		N/A	-	1.32		N/A	-	11	(
Ag.(Impr.+ Land)	11.1		N/A	-	59.3		N/A	-	1.23		N/A	-	13	(
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	95.4	-	N/A	-	14.3	-	N/A	-	1.03	-	N/A	_	140	2:
TOTAL MARKET	98.8		N/A	-	12.1		N/A	-	1.02	-	N/A	-	122	14
			0	77 : RA\	WLINS CO	JNTY								
	Median	Cor	nfide	nce		Cor	nfider	nce		Cor	nfider	nce	Valid	Trin
PROPERTY CLASS	Ratio		iterva		COD		nterva		PRD		nterva		Sales	Sale
TROTERTT CLASS	Ratio		iterv	21	COD		itei ve	A 1	TIND		itei v	ai e	Jaies	Jaic
Residential	89.2	79.3	to	99.8	13.1	9.8	to	18.4	0.97	0.95	to	1.00	21	:
Commercial/Ind.	73.5	59.4	to	103.6	23.4	16.6	to	39.5	1.09	0.96	to	1.25	9	(
Vacant Lot	88.7	-	N/A	-	-	-	N/A	-	-	-	N/A	-	1	(
Farm & Home	-	-	-	-	-	-	-	-	-	-	-	-	0	
Ag. Land Only	10.3	-	N/A	-	14.2	-	N/A	-	0.94	-	N/A	-	8	(
Ag.(Impr.+ Land)	10.4	-	N/A	-	14.2	-	N/A	-	0.94	-	N/A	-	9	
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	79.3	-	N/A	-	36.6	-	N/A	-	1.45	-	N/A	-	41	(
TOTAL MARKET	87.3	-	N/A	-	17.8	-	N/A	-	1.00		N/A	-	32	:
				078 :	RENO COL	JNTY								
	Median	Cor	nfide	nce		Cor	nfider	nce		Cor	nfider	nce	Valid	Trin
PROPERTY CLASS	Ratio	Ir	iterva	al	COD	Ir	nterva	al	PRD	Ir	nterva	al	Sales	Sale
Residential	96.1	94.0	to	99.5	13.3	11.8	to	15.1	1.03	1.01	to	1.05	183	1
Commercial/Ind.	98.2	80.3		104.2	12.9		to	21.8	1.01	0.97		1.06	14	
Vacant Lot	154.5		N/A		63.0				2.47	-	N/A		23	
Farm & Home	56.0		N/A	_	38.4		N/A		1.05		N/A	_	17	
Ag. Land Only	10.8		N/A		57.3		N/A		0.95		N/A		24	
Ag.(Impr.+ Land)	10.8		N/A		57.3		N/A		0.95		N/A		24	
Other/Ex/Ut/NP/Mix	189.4		N/A	-	37.3		N/A		0.53		N/A	-	1	
TOTAL w/Ag.& F&H	94.3		N/A	-	19.8		N/A	-	1.07		N/A	-	263	42
TOTAL W/Ag.& F&H	94.3		N/A	-	19.8		N/A	-	1.07		N/A	-	203	
		_	IV/A	-	14.0	-	IN/A	-	1.U3	-	IN/A	-	222	32

			07	79 : REF	UBLIC COL	JNTY								
	Median	Cor	nfide	nce		Cor	nfider	nce		Cor	nfidei	100	Valid	Trim
PROPERTY CLASS	Ratio		iterva		COD		nterva		PRD		iterva		Sales	Sales
FROFERIT CLASS	Natio		itei v	21	СОБ	- 11	ILCI V	21	FILD	- 11	itei v	21	Jaies	Jaies
Residential	96.0	80.7	to	103.3	20.4	14.6	to	29.8	1.04	0.99	to	1.14	29	1
Commercial/Ind.	92.1	76.0	to	100.0	17.3	11.4	to	28.1	0.96	0.89	to	1.05	14	(
Vacant Lot	236.0	-	N/A	-	85.6	-	N/A	-	3.49	-	N/A	-	2	(
Farm & Home	94.3	-	N/A	-	24.6	-	N/A	-	0.88	-	N/A	-	2	(
Ag. Land Only	10.1	-	N/A	-	8.5	-	N/A	-	0.98	-	N/A	-	10	(
Ag.(Impr.+ Land)	10.1		N/A	-	11.5	-	N/A	-	0.97	-	N/A	-	14	-
Other/Ex/Ut/NP/Mix	2186.0		N/A	-	-		N/A	-	-		N/A	-	1	(
TOTAL w/Ag.& F&H	84.4		N/A	-	42.8		N/A	-	1.94	-	N/A	-	63	
TOTAL MARKET	94.5	-	N/A	-	19.3	-	N/A	-	1.02	-	N/A	-	47	ţ
				080	: RICE COI	JNTY								
	Median		nfide				nfider			Cor	nfide	nce	Valid	Trin
PROPERTY CLASS	Ratio	Ir	iterva	al	COD	Ir	nterva	al	PRD	Ir	nterva	al	Sales	Sale
Residential	93.1	87.0	to	96.4	16.2	13.7	to	19.4	1.01	0.98	to	1.04	106	(
Commercial/Ind.	94.8	80.5	to	102.6	14.2	7.6	to	26.6	1.00	0.94	to	1.07	10	(
Vacant Lot	157.4	-	N/A	-	-	-	N/A	-	-	-	N/A	-	1	(
Farm & Home	70.4	-	N/A	-	28.4	-	N/A	-	1.10	-	N/A	-	5	(
Ag. Land Only	18.5	-	N/A	-	22.9	-	N/A	-	0.92	-	N/A	-	8	(
Ag.(Impr.+ Land)	17.9	-	N/A	-	24.1	-	N/A	-	0.95	-	N/A	-	9	
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	90.7	_	N/A	-	18.2	-	N/A	-	1.02	_	N/A	-	132	10
TOTAL MARKET	93.1		N/A	-	16.1		N/A	-	1.01		N/A	-	118	1:
				081	RILEY CO	UNTY								
	Median	Cor	nfide	nce		Cor	nfider	nce		Cor	nfidei	nce	Valid	Trin
PROPERTY CLASS	Ratio		iterv		COD		nterva		PRD		iterv		Sales	Sale
Residential	98.5	97.1	to	99.4	6.7	6.0	to	7.4	1.00	0.99	to	1.01	248	20
Commercial/Ind.	95.3	73.7		114.9	27.2	17.7		44.0	1.22	1.12		1.40	12	
Vacant Lot	32.4		N/A	-	62.2		N/A	-	0.97		N/A	-	36	(
Farm & Home	65.6		N/A	-	30.4		N/A	-	0.94		N/A	-	12	(
Ag. Land Only	0.2		N/A	_	25.3		N/A	_	1.44		N/A	_	5	(
Ag.(Impr.+ Land)	0.2		N/A	_	25.3		N/A	_	1.44		N/A	_	6	``
Other/Ex/Ut/NP/Mix	-		_	_	_5.5	_	-	_			-,,,	_	0	•
TOTAL w/Ag.& F&H	96.4		N/A	_	9.5		N/A	_	1.03		N/A	-	315	52
TOTAL MARKET	96.8		N/A	_	8.8		N/A	_	1.02	_	N/A	-	297	4:
			, , ,		5.5						,		,	

				082 : F	ROOKS COL	JNTY								
	N 4l:	C	£: -1 -			C	. f: .l .			C	. f: .l .		\	T
	Median		nfide		600		nfider		000		nfide		Valid	Trim
PROPERTY CLASS	Ratio	ır	iterva	aı	COD	ır	nterva	31	PRD	ır	nterva	31	Sales	Sales
Residential	86.9	77.4	to	98.2	23.0	17.7	to	30.1	1.05	1.00	to	1.12	37	2
Commercial/Ind.	56.9	51.0	to	104.7	26.3	3.8	to	40.9	1.10	0.93	to	1.32	5	(
Vacant Lot	1063.3	-	N/A	-	-	-	N/A	-	-	-	N/A	-	1	(
Farm & Home	-	-	-	-	-	-	-	-	-	-	-	-	0	
Ag. Land Only	9.8	_	N/A	-	53.3	-	N/A	-	1.08	-	N/A	-	9	(
Ag.(Impr.+ Land)	11.3		n/A	-	45.8		N/A	-	1.07		N/A	-	10	(
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	76.7	_	N/A	_	41.9	_	N/A	_	1.31	_	N/A	-	54	3
TOTAL MARKET	84.5		N/A	-	25.1		N/A	-	1.06	-	N/A	-	44	
				083 :	RUSH COI	JNTY								
	Median	Cor	nfide	200		Cor	nfider	200		Cor	nfidei	200	Valid	Trin
					600				DDD					
PROPERTY CLASS	Ratio	II	iterva	d I	COD	ır	nterva	31	PRD	ır	nterva	1 1	Sales	Sale
Residential	107.8	86.8	to	120.1	19.6	14.9	to	26.5	1.10	1.06	to	1.15	28	
Commercial/Ind.	90.9	63.1	to	114.6	29.9	14.5	to	60.2	1.09	0.98	to	1.34	7	(
Vacant Lot	213.3	-	N/A	-	-	-	N/A	-	-	-	N/A	-	1	(
Farm & Home	27.9	-	N/A	-	-	-	N/A	-	-	-	N/A	-	1	(
Ag. Land Only	11.5	-	N/A	-	40.9	-	N/A	-	0.85	-	N/A	-	4	
Ag.(Impr.+ Land)	11.5		N/A	-	40.9		N/A	-	0.85		N/A	-	4	(
Other/Ex/Ut/NP/Mix	282.3		N/A	-	-		N/A	-	-		N/A	-	1	
TOTAL w/Ag.& F&H	93.3		N/A	-	34.6		N/A	-	1.26		N/A	_	43	į
TOTAL MARKET	103.1		N/A	-	23.4		N/A	-	1.10		N/A	-	38	
				084 : RI	JSSELL CO	JNTY								
	Median		nfide				nfider			Cor	nfide	nce	Valid	Trim
PROPERTY CLASS	Ratio	Ir	iterva	al	COD	Ir	nterva	al	PRD	Ir	nterva	al	Sales	Sale
Residential	91.2	85.7	to	94.0	13.9	11.4	to	17.2	1.01	0.99	to	1.05	86	
Commercial/Ind.	76.6	58.1		90.9	13.6		to	22.1	1.05	0.96		1.14	7	
Vacant Lot	97.8		N/A	-	19.6		N/A	-	0.97			-	4	(
Farm & Home	63.8		N/A	_	183.6		N/A	_	3.06		N/A	_	3	(
Ag. Land Only	12.4		N/A	_	47.3		N/A	_	0.86		N/A	_	9	(
Ag.(Impr.+ Land)	13.2		N/A	_	48.6		N/A	_	0.84		N/A	_	10	
Other/Ex/Ut/NP/Mix			_	_	-	_		_		-	-,,,	_	0	<u> </u>
TOTAL w/Ag.& F&H	87.0		N/A	-	19.3		N/A	_	1.04	-	N/A	_	111	14
TOTAL W/Ag.&T&IT	90.4		N/A	_	15.3		N/A		1.01		N/A	_	98	
· O I / IE IVI/NINE I	50.4		/ ^	-	10.0		14/ 🗥		T.U.T		. */ ^	-	70	

				085 : S	ALINE COL	JNTY								
	N 4 a dia a	C	£: al a			C	- t : -l			C	. £ : ما م		\/a ;	Tuine
	Median		ıfide		600		nfide		000		nfider		Valid	Trim
PROPERTY CLASS	Ratio	II	terva	31	COD	ır	nterva	11	PRD	ır	nterva	a 1	Sales	Sales
Residential	96.0	94.1	to	98.6	12.1	10.7	to	13.7	1.01	1.00	to	1.03	228	27
Commercial/Ind.	102.7	76.9	to	116.3	22.7	15.8	to	34.7	1.04	0.93	to	1.20	20	2
Vacant Lot	145.0	-	N/A	-	119.3	-	N/A	-	1.10	-	N/A	-	6	(
Farm & Home	85.8		N/A	-	10.2		N/A	-	0.99		N/A	-	9	1
Ag. Land Only	1.5		N/A	-	240.5		N/A	-	0.64		N/A	-	31	(
Ag.(Impr.+ Land)	0.5		N/A	-	702.8		N/A	-	0.56		N/A	-	41	(
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	93.4	-	N/A	-	16.3	-	N/A	-	1.04	-	N/A	-	305	6:
TOTAL MARKET	96.1		N/A	-	12.8		N/A	-	1.02	-	N/A	-	255	35
				086 : 9	COTT CO	JNTY								
	Median	Cor	ıfide	nce		Cor	nfidei	nce		Cor	nfider	nce	Valid	Trin
PROPERTY CLASS	Ratio		iterva		COD		nterva		PRD		nterva		Sales	Sale
FROFERIT CLASS	Natio	- 11	iterva	21 	COD	- 11	ILCIV	21 -	FIND	- 11	iterva	21	Jaies	Jaic
Residential	89.4	85.9	to	97.5	13.7	10.9	to	17.8	1.00	0.97	to	1.03	47	:
Commercial/Ind.	84.1	57.1	to	138.5	35.9	23.5	to	59.8	0.93	0.78	to	1.24	8	(
Vacant Lot	52.7	-	N/A	-	14.2	-	N/A	-	1.02	-	N/A	-	2	(
Farm & Home	60.1	-	N/A	-	-	-	N/A	-	-	-	N/A	-	1	(
Ag. Land Only	13.1	-	N/A	-	25.0	-	N/A	-	0.83	-	N/A	-	4	(
Ag.(Impr.+ Land)	13.1	-	N/A	-	32.8	-	N/A	-	0.80	-	N/A	-	6	
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	88.1	-	N/A	-	18.1	-	N/A	-	0.98	-	N/A	-	65	-
TOTAL MARKET	89.2	-	N/A	-	16.8	-	N/A	-	0.97		N/A	-	58	3
			087	7 : SEDG	WICK COL	JNTY								
	Median	Cor	ıfidei	000		Cor	nfidei	200		Cor	nfider	200	Valid	Trin
PROPERTY CLASS	Ratio		iterva		COD		nterva		PRD		nterva		Sales	Sale
Residential	90.1	87.9		91.8	10.6		to	11.7	1.01	1.01		1.02	318	37
Commercial/Ind.	90.9	86.2		94.9	22.2	19.9		25.1	1.02	0.94		1.10	196	1:
Vacant Lot	48.5		N/A	-	60.9		,	-	1.28		N/A	-	267	20
Farm & Home	70.9		N/A	-	33.4		N/A	-	1.18		N/A	-	38	(
Ag. Land Only	2.3		N/A	-	119.6		N/A	-	0.98		N/A	-	75	
Ag.(Impr.+ Land)	2.3		N/A	-	134.5		N/A	-	0.97		N/A	-	77	- 4
Other/Ex/Ut/NP/Mix	43.4		N/A	-	89.2		N/A	-	3.48		N/A	-	2	(
	81.2	_	N/A	-	38.3	_	N/A	-	0.90	-	N/A	-	906	3!
TOTAL w/Ag.& F&H TOTAL MARKET	84.5		N/A		29.3		N/A		0.93		N/A		791	53

			C	88 : SEW	ARD CO	JNTY								
	Median	Cor	nfide	nce		Cor	nfider	nce		Cor	nfidei	nce	Valid	Trim
PROPERTY CLASS	Ratio		iterva		COD		nterva		PRD		iterva		Sales	Sales
THOTENTI CEASS	Ratio		itel ve	41	COD		lter ve	41	110		icei ve	ai	Jaics	Jaics
Residential	100.6	99.7	to	102.3	10.7	8.9	to	12.9	1.01	0.99	to	1.02	140	17
Commercial/Ind.	82.5	41.3	to	101.3	26.4	10.7	to	54.8	1.35	1.06	to	1.65	6	(
Vacant Lot	119.4	-	N/A	-	16.1	-	N/A	-	1.03	-	N/A	-	4	(
Farm & Home	70.4	-	N/A	-	-	-	N/A	-	-	-	N/A	-	1	(
Ag. Land Only	8.7	-	N/A	-	34.8	-	N/A	-	1.82	-	N/A	-	3	(
Ag.(Impr.+ Land)	9.5		N/A	-	31.8	-	N/A	-	1.83		N/A	-	4	(
Other/Ex/Ut/NP/Mix	130.8		N/A	-	-		N/A	-	-		N/A	-	1	(
TOTAL w/Ag.& F&H	100.1		N/A	-	11.7		N/A	-	1.01		N/A	-	157	23
TOTAL MARKET	100.4	-	N/A	-	11.6	-	N/A	-	1.01	-	N/A	-	152	19
			08	9 : SHAV	VNEE CO	JNTY								
	Median	Cor	nfide	nce		Cor	nfider	nce		Cor	nfidei	nce	Valid	Trin
PROPERTY CLASS	Ratio		iterva		COD		nterva		PRD		nterva		Sales	Sale
THOTERT CLASS	Ratio		ite i v	21	COD		ILCI V	11	TILD	- 11	itei v	ai e	Jaies	Jaic
Residential	96.0	94.7	to	97.3	9.1	8.2	to	10.1	1.01	1.00	to	1.02	306	42
Commercial/Ind.	98.2	82.5	to	111.5	23.7	18.4	to	32.5	1.16	1.07	to	1.28	36	:
Vacant Lot	82.6	-	N/A	-	42.4	-	N/A	-	1.13	-	N/A	-	85	
Farm & Home	72.7	-	N/A	-	30.0	-	N/A	-	1.01	-	N/A	-	14	:
Ag. Land Only	1.9	-	N/A	-	192.0	-	N/A	-	0.84	-	N/A	-	25	(
Ag.(Impr.+ Land)	1.9	-	N/A	-	184.3	-	N/A	-	0.88	-	N/A	-	30	
Other/Ex/Ut/NP/Mix	146.8	-	N/A	-	25.6	-	N/A	-	1.44	-	N/A	-	3	(
TOTAL w/Ag.& F&H	93.0	-	N/A	-	14.7	-	N/A	-	1.03	-	N/A	-	475	94
TOTAL MARKET	94.7	-	N/A	-	12.0	-	N/A	-	1.04	-	N/A	-	431	8:
			09	0 : SHER	IDAN COL	JNTY								
	Median	Cor	nfide	nce		Cor	nfider	nce		Cor	nfidei	nce	Valid	Trin
PROPERTY CLASS	Ratio		iterva		COD		nterva		PRD		iterv		Sales	Sale
Residential	86.1	70.9	to	101.2	22.3	14.0	to	38.2	1.02	0.95	to	1.11	15	(
Commercial/Ind.	76.1	45.4	to	136.9	44.5	10.5	to	51.6		0.75	to	1.42	4	(
Vacant Lot	100.0	-	N/A	-	-	-	N/A	-	-	-	N/A	-	1	(
Farm & Home	-	-	-	-	-	-	-	-	-	-	-	-	0	
Ag. Land Only	11.3	-	N/A	-	96.7	-	N/A	-	9.43	-	N/A	-	6	(
Ag.(Impr.+ Land)	11.3		n/A	-	96.7		N/A	-	9.43		N/A	-	6	(
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
	04.6		N/A	_	41.4		N/A	-	5.32	_	N/A	_	27	(
TOTAL w/Ag.& F&H	84.6	-	IN/A	-	71.7	_	IN/A	- 1	J.JZ		11/ /		2/	

			09	1 : SHER	MAN CO	JNTY								
	Median	Cor	ıfide	nce		Cor	nfide	nce		Cor	nfider	nce	Valid	Trim
PROPERTY CLASS	Ratio		iterva		COD		nterv		PRD		nterva		Sales	Sales
THOTENTI CEASS	Ratio		itel ve	41	СОВ		I CO V	uı	110		icei ve	ai .	Jaics	Jaics
Residential	93.2	87.9	to	101.1	16.1	13.5	to	19.9	1.03	1.00	to	1.07	69	1
Commercial/Ind.	113.7	88.8	to	139.4	18.2	11.7	to	26.1	1.18	1.06	to	1.40	6	C
Vacant Lot	-	-	-	-	-	-	-	-	-	-	-	-	0	
Farm & Home	64.6	-	N/A	-	46.4	-	N/A	-	1.06	-	N/A	-	7	(
Ag. Land Only	10.4	-	N/A	-	21.5	-	N/A	-	0.99	-	N/A	-	10	(
Ag.(Impr.+ Land)	10.6	-	N/A	-	20.5	-	N/A	-	0.99	-	N/A	-	11	(
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	89.8	-	N/A	-	21.7	-	N/A	-	1.14	-	N/A	-	94	10
TOTAL MARKET	93.4	-	N/A	-	16.2	-	N/A	-	1.03	-	N/A	-	76	3
				092 : S	MITH CO	JNTY								
	NA1:	C	£: -1 -				. f: .l -			C -	C: -1 -		\	T
	Median		ıfide		200		nfide		000		nfider		Valid	Trin
PROPERTY CLASS	Ratio	ır	iterva	al	COD	ır	nterv	aı	PRD	ır	nterva	al	Sales	Sale
Residential	98.3	81.2	to	103.1	21.0	15.3	to	29.1	1.07	1.00	to	1.20	31	:
Commercial/Ind.	98.0	35.9	to	184.6	53.7	15.7	to	100.8	1.93	0.97	to	2.47	5	(
Vacant Lot	509.9	-	N/A	-	91.2	-	N/A	-	6.33	-	N/A	-	2	(
Farm & Home	50.2	-	N/A	-	79.5	-	N/A	-	0.91	-	N/A	-	4	(
Ag. Land Only	10.9	-	N/A	-	16.4	-	N/A	-	0.98	-	N/A	-	7	(
Ag.(Impr.+ Land)	10.9	-	N/A	-	16.4	-	N/A	-	0.98	-	N/A	-	7	(
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	81.6	-	N/A	-	44.7	-	N/A	-	1.61	-	N/A	-	50	2
TOTAL MARKET	98.0	-	N/A	-	28.8	-	N/A	-	1.09		N/A	-	39	:
			09	3 : STAFI	ORD COL	UNTY								
	Median	Cor	nfide	nce		Cor	nfide	nce		Cor	nfider	nce	Valid	Trin
PROPERTY CLASS	Ratio		terv		COD		nterv		PRD		iterva		Sales	Sale
Residential	94.7	88.0	to	101.3	14.2	9.4	to	21.5	1.08	1.02	to	1.18	23	
Commercial/Ind.	97.4	67.2		102.7	13.3		to	22.5	1.00	0.95		1.08	6	
Vacant Lot	84.7		N/A	-	58.2			-	1.94	-		-	2	(
Farm & Home	73.8		N/A	-	69.6		N/A	_	0.89		N/A	_	4	
Ag. Land Only	4.9		N/A	_	25.4		N/A	_	0.87		N/A	_	7	
Ag.(Impr.+ Land)	4.8		N/A	_	30.9		N/A	_	0.82		N/A	_	8	
Other/Ex/Ut/NP/Mix	-7.0			_	50.5	_	-		-		-	_	0	•
TOTAL w/Ag.& F&H	89.5		N/A	_	41.4		N/A	_	1.46		N/A	_	44	
TOTAL W/Ag.&T&II	94.4		N/A	_	16.9		N/A		1.06	_	N/A	_	32	
. O . / \L 141/ \1\(\L 1	J7. 1		. •, /~		10.5		14/74		1.00		. */ /~		32	

	o: 90.0 to	110.0			COL): 20.0	or ie	১১				- KD9	8 to 1.02	
			09	94 : ST <i>A</i>	NTON CO	UNTY								
						• • • • • • • • • • • • • • • • • • • •								
	Median	Cor	nfide	nce		Cor	nfide	nce		Cor	nfide	nce	Valid	Trim
PROPERTY CLASS	Ratio		iterv		COD	Ir	nterv	al	PRD	Ir	nterv	al	Sales	Sales
Residential	96.8	89.8	to	166.7	31.2	17.2	to	45.7	1.06	0.97	to	1.17	14	1
Commercial/Ind.	80.0	67.9	to	108.0	20.1	10.7	to	48.5	1.00	0.87	to	1.20	7	C
Vacant Lot	-	-	-	-	-	-	-	-	-	-	-	-	0	
Farm & Home	-	-	-	-	-	-	-	-	-	-	-	-	0	
Ag. Land Only	13.6	-	N/A	-	-	-	N/A	-	-	-	N/A	-	1	(
Ag.(Impr.+ Land)	13.6	-	N/A	-	-	-	N/A	-	-	-	N/A	-	1	(
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	91.0	-	N/A	-	25.4	-	N/A	-	1.04	-	N/A	-	23	4
TOTAL MARKET	91.3	-	N/A	-	29.2	-	N/A	-	1.15	-	N/A	-	22	2
			()95 : ST	EVENS CO	UNTY								
	0.41:	6	. f: .l .			6	- C: -I -			C -	. f: .l -		\ /- !: -l	T
DD O DE DEVI CLASS	Median		nfide		605		nfide		222		nfide		Valid	Trin
PROPERTY CLASS	Ratio	ır	iterv	aı	COD	Ir	nterv	aı	PRD	ır	nterv	aı	Sales	Sale
Residential	94.0	85.5	to	100.0	17.5	13.1	to	24.4	1.02	0.99	to	1.06	35	
Commercial/Ind.	97.2	89.3	to	104.8	5.2	1.8	to	6.2	0.97	0.95	to	1.01	5	(
Vacant Lot	129.0	-	N/A	-	-	-	N/A	-	-	-	N/A	-	1	(
Farm & Home	-	-	-	-	-	-		-	-	-	-	-	0	
Ag. Land Only	10.0	-	N/A	-	39.0	-	N/A	-	1.36	-	N/A	-	8	(
Ag.(Impr.+ Land)	12.6		N/A	-	30.7		N/A	-	1.20		N/A	-	11	
Other/Ex/Ut/NP/Mix		-	-	-	-	-	-	-	-	-	-	_	0	
TOTAL w/Ag.& F&H	88.9	_	N/A	-	33.5	-	N/A	-	1.28	-	N/A	_	53	
TOTAL MARKET	94.6		N/A	-	14.4		N/A	-	1.01		N/A	-	42	
			C)96 : SU	MNER CO	UNTY								
			. .			_	c			_	. .			
DD O DED TV OV 100	Median		nfide		0.5.5		nfide		555		nfide		Valid	Trin
PROPERTY CLASS	Ratio	Ir	iterv	al	COD	lr	nterv	al	PRD	lr	iterv	aı	Sales	Sale
Residential	97.1	95.2	to	100.6	16.2	14.5	to	18.0	1.04	1.02	to	1.06	214	
Commercial/Ind.	95.9	58.2	to	132.8	31.6	19.4	to	67.1	1.42	1.13	to	1.80	7	
Vacant Lot	87.0		N/A	-	49.5	-	N/A	-	1.34	-	N/A	-	15	
Farm & Home	46.6	-	N/A	-	57.8	-	N/A	-	0.84	-	N/A	-	9	(
Ag. Land Only	8.3	-	N/A	-	31.5	-	N/A		0.89	-	N/A	-	23	
Ag.(Impr.+ Land)	8.3		N/A	-	32.9	-	N/A		0.91	-	N/A	-	25	
Other/Ex/Ut/NP/Mix	-	-	-	_	-	-	-		-	-	-	-	0	
Other, Ex, Other, with			N1 / A		40.5				1 0 1				272	37
TOTAL w/Ag.& F&H	94.8		N/A		18.5		N/A		1.04		N/A	-	272	.

Residential Commercial/Ind. Vacant Lot Farm & Home Ag. Land Only Ag.(Impr.+ Land) Other/Ex/Ut/NP/Mix TOTAL w/Ag.& F&H TOTAL MARKET	95.2 96.2 117.2 53.3 10.0 10.2 - 94.2 95.2	91.9 81.5 - - - - -	nfide nterva	nce	COD 12.0 15.7 20.2 - 18.5 18.5 - 13.3 12.3	9.8 8.5 - -			PRD 1.03 0.98 0.97 - 1.00 1.00 - 1.03 1.03	1.01 0.92 - - -			Valid Sales 76 7 2 1 5 6 0 93 86	Trim Sales 6 0 0 0 1 1 2 8
Residential Commercial/Ind. Vacant Lot Farm & Home Ag. Land Only Ag.(Impr.+ Land) Other/Ex/Ut/NP/Mix TOTAL w/Ag.& F&H TOTAL MARKET	95.2 96.2 117.2 53.3 10.0 10.2 - 94.2 95.2	91.9 81.5 - - - - -	to to N/A N/A N/A N/A	97.8 114.8 - - - -	12.0 15.7 20.2 - 18.5 18.5 - 13.3 12.3	9.8 8.5 - - -	to to N/A N/A N/A N/A	14.9 31.1 -	1.03 0.98 0.97 - 1.00 1.00	1.01 0.92 - - -	to to N/A N/A N/A N/A	1.06	76 7 2 1 5 6 0	Sales 6 0 0 0 1 12
Residential Commercial/Ind. Vacant Lot Farm & Home Ag. Land Only Ag.(Impr.+ Land) Other/Ex/Ut/NP/Mix TOTAL w/Ag.& F&H TOTAL MARKET	95.2 96.2 117.2 53.3 10.0 10.2 - 94.2 95.2	91.9 81.5 - - - - -	to to N/A N/A N/A N/A	97.8 114.8 - - - -	12.0 15.7 20.2 - 18.5 18.5 - 13.3 12.3	9.8 8.5 - - -	to to N/A N/A N/A N/A	14.9 31.1 -	1.03 0.98 0.97 - 1.00 1.00	1.01 0.92 - - -	to to N/A N/A N/A N/A	1.06	76 7 2 1 5 6 0	Sales 6 0 0 1 12
Residential Commercial/Ind. Vacant Lot Farm & Home Ag. Land Only Ag.(Impr.+ Land) Other/Ex/Ut/NP/Mix TOTAL w/Ag.& F&H TOTAL MARKET	95.2 96.2 117.2 53.3 10.0 10.2 - 94.2 95.2	91.9 81.5 - - - - -	to to N/A N/A N/A N/A N/A	97.8 114.8 - - - - -	12.0 15.7 20.2 - 18.5 18.5 - 13.3 12.3	9.8 8.5 - - - -	to to N/A N/A N/A N/A - N/A	14.9 31.1 -	1.03 0.98 0.97 - 1.00 1.00	1.01	to to N/A N/A N/A N/A - N/A	1.06	76 7 2 1 5 6 0	6 C C C C
Commercial/Ind. Vacant Lot Farm & Home Ag. Land Only Ag.(Impr.+ Land) Other/Ex/Ut/NP/Mix TOTAL w/Ag.& F&H TOTAL MARKET	96.2 117.2 53.3 10.0 10.2 - 94.2 95.2	81.5	to N/A N/A N/A N/A - N/A	114.8	15.7 20.2 - 18.5 18.5 - 13.3 12.3	8.5 - - - - -	to N/A N/A N/A N/A - N/A	31.1	0.98 0.97 - 1.00 1.00 - 1.03	0.92	to N/A N/A N/A - N/A		7 2 1 5 6 0 93	0 0 0 0 1 1
Vacant Lot Farm & Home Ag. Land Only Ag. (Impr.+ Land) Other/Ex/Ut/NP/Mix TOTAL w/Ag.& F&H TOTAL MARKET	117.2 53.3 10.0 10.2 - 94.2 95.2	- - - - -	N/A N/A N/A N/A - N/A	-	20.2 - 18.5 18.5 - 13.3 12.3	- - - -	N/A N/A N/A N/A - N/A	-	0.97 - 1.00 1.00 - 1.03	- - - -	N/A N/A N/A N/A - N/A	1.02	2 1 5 6 0 93	() () () 1
Farm & Home Ag. Land Only Ag.(Impr.+ Land) Other/Ex/Ut/NP/Mix TOTAL w/Ag.& F&H TOTAL MARKET	53.3 10.0 10.2 - 94.2 95.2	- - - -	N/A N/A N/A - N/A	- - - -	18.5 18.5 - 13.3 12.3	- - - -	N/A N/A N/A - N/A		1.00 1.00 - 1.03	- - - -	N/A N/A N/A - N/A	- - - - - -	1 5 6 0 93	12
Ag. Land Only Ag.(Impr.+ Land) Other/Ex/Ut/NP/Mix TOTAL w/Ag.& F&H TOTAL MARKET	10.0 10.2 - 94.2 95.2	- - - -	N/A N/A N/A - N/A	- - - -	18.5 - 13.3 12.3	- - - -	N/A N/A N/A - N/A		1.00	- - - -	N/A N/A N/A - N/A	-	5 6 0 93	12
Ag.(Impr.+ Land) Other/Ex/Ut/NP/Mix TOTAL w/Ag.& F&H TOTAL MARKET	10.2 - 94.2 95.2	-	N/A - N/A	- - - - - 098 : T	18.5 - 13.3 12.3	- - -	N/A - N/A	- - - -	1.00	- - -	N/A - N/A		6 0 93	12
Ag.(Impr.+ Land) Other/Ex/Ut/NP/Mix TOTAL w/Ag.& F&H TOTAL MARKET	94.2 95.2	-	N/A - N/A	- - - - 098 : T	13.3 12.3	-	- N/A	-	1.03	- - -	N/A - N/A		93	12
Other/Ex/Ut/NP/Mix TOTAL w/Ag.& F&H TOTAL MARKET Me	94.2 95.2 edian	-	- N/A	- - - 098 : T	13.3 12.3	-	- N/A	-		-	- N/A		93	
TOTAL MARKET Me	95.2 edian	-	-	- - 098 : T	12.3			-		-	-	-		
TOTAL MARKET Me	edian		N/A	098 : T		-	N/A	-	1.03	-	N/A	-	86	
		Com		098 : T	REGO COL									
		Co		098 : T	DECO COL									
		C 2			NEGO COL	JNTY								
			nfide	nce		Cor	nfider	000		Cor	nfider	200	Valid	Trin
PROPERTY CLASS			nterv		COD		nterva		PRD		nterva		Sales	Sales
	Natio	!!	iterv	aı	СОБ	- 11	iterva	11	FND	- 11	iterva	31 	Sales	Sale
Residential	100.0	93.8	to	108.7	23.7	18.0	to	31.8	1.06	0.99	to	1.14	43	:
Commercial/Ind.	97.9	62.3	to	188.9	31.1	16.0	to	64.9	1.02	0.68	to	1.28	9	:
Vacant Lot	28.8	-	N/A	-	-	-	N/A	-	-	-	N/A	-	1	
Farm & Home	87.9	-	N/A	-	15.4	-	N/A	-	0.92	-	N/A	-	3	(
Ag. Land Only	11.0	-	N/A	-	17.3	-	N/A	-	1.05	-	N/A	-	3	(
Ag.(Impr.+ Land)	10.7	-	N/A	-	20.0	-	N/A	-	1.06	-	N/A	-	4	(
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	95.1	-	N/A	-	31.9	-	N/A	-	1.08	-	N/A	-	61	4
TOTAL MARKET	98.8	-	N/A	-	27.6	-	N/A	-	1.01	-	N/A	-	54	4
			099 :	WABAU	JNSEE COU	JNTY								
Me	edian	Cor	nfide	nce		Cor	nfider	nce		Cor	nfider	nce	Valid	Trin
	Ratio		iterv		COD		iterva		PRD		iterva		Sales	Sale
Residential	95.2	89.3	to	100.5	17.2	13.7	to	22.0	1.07	1.03	to	1.15	65	
	102.3	80.8		155.1	29.0	19.1		45.4	1.12	1.02		1.31	6	
·	119.5		N/A		25.0			.5.4					1	
Farm & Home	49.3		N/A	_	25.2		N/A	_	0.96		N/A	_	13	
Ag. Land Only	2.9		N/A	_	64.4		N/A	_	1.12		N/A	_	12	
Ag.(Impr.+ Land)	3.0		N/A		70.3		N/A	_	1.17		N/A	_	13	(
Other/Ex/Ut/NP/Mix	5.0				70.5			_	/		-	_	0	
TOTAL w/Ag.& F&H	86.5		N/A	_	37.5		N/A	_	1.11		N/A	_	99	į
TOTAL MARKET	95.2		N/A	_	18.3		N/A	_	1.09		N/A		73	

			10	00 : WAI	LACE CO	JNTY								
	Median	Cor	nfide	nce		C 0.	nfider	nce		Cor	nfidei	100	Valid	Trim
PROPERTY CLASS	Ratio		iterva		COD		nterva		PRD		nterva		Sales	Sales
PROPERTY CLASS	Natio	- 11	iterv	31	COD	- 11	iterva	11	PND	- 11	iterv	31	Sales	Sales
Residential	91.5	78.4	to	107.1	11.2	5.6	to	21.8	0.98	0.93	to	1.04	6	C
Commercial/Ind.	67.8	53.5	to	90.5	19.5	7.5	to	19.5	0.81	0.82	to	0.94	3	(
Vacant Lot	71.4	-	N/A	-	-	-	N/A	-	-	-	N/A	-	1	(
Farm & Home	-	-		-	-	-	-	-	-	-	-	-	0	
Ag. Land Only	8.4	_	N/A	-	-	-	N/A	-	-	-	N/A	-	1	(
Ag.(Impr.+ Land)	8.4		N/A	-	-		N/A	-	-		N/A	-	1	(
Other/Ex/Ut/NP/Mix	-	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	78.4	-	N/A	_	23.4	-	N/A	-	1.11	-	N/A	_	12	
TOTAL MARKET	83.9		N/A	-	16.2		N/A	-	0.90		N/A	-	11	1
		10	01 : V	VASHING	GTON CO	JNTY								
	Median	Cor	nfide	nce		Cor	nfider	nce		Cor	nfidei	nce	Valid	Trin
PROPERTY CLASS	Ratio		iterva		COD		nterva		PRD		iterva		Sales	Sale
TROTERTT CLASS	Natio		ite i v	21	COD		ltei ve	21 21	TIND	- 11	itei v	ai e	Jaies	Jaic
Residential	109.1	100.0	to	122.6	18.1	14.3	to	24.5	1.04	1.00	to	1.10	37	Į
Commercial/Ind.	85.3	51.8	to	139.7	35.0	16.0	to	71.8	1.23	1.04	to	1.62	9	(
Vacant Lot	-	-	-	-	-	-	-	-	-	-	-	-	0	
Farm & Home	85.3	-	N/A	-	21.4	-	N/A	-	1.17	-	N/A	-	4	(
Ag. Land Only	8.5	-	N/A	-	31.4	-	N/A	-	0.92	-	N/A	-	18	:
Ag.(Impr.+ Land)	8.5	-	N/A	-	30.0	-	N/A	-	0.96	-	N/A	-	22	:
Other/Ex/Ut/NP/Mix	400.9	-	N/A	-	45.6	-	N/A	-	0.79	-	N/A	-	2	(
TOTAL w/Ag.& F&H	86.1	-	N/A	-	57.0	-	N/A	-	2.68	-	N/A	-	75	- 2
TOTAL MARKET	101.6		N/A	-	28.7		N/A	-	1.13		N/A	-	49	4
			1	02 : WIC	CHITA CO	JNTY								
	Median		nfide		00-		nfider				nfidei		Valid	Trin
PROPERTY CLASS	Ratio	Ir	iterva	aı	COD	Ir	nterva	31	PRD	Ir	nterva	aı	Sales	Sale
Residential	92.2	80.2	to	98.8	15.7	11.2	to	22.8	1.03	0.98	to	1.09	22	(
Commercial/Ind.	103.3	90.5	to	137.9	17.9	8.8	to	30.6	1.00	0.89	to	1.11	8	(
Vacant Lot	-	-	-	-	-	-	-	-	-	-	-	-	0	
Farm & Home	70.8	-	N/A	-	22.3	-	N/A	-	0.89	-	N/A	-	2	(
Ag. Land Only	11.0		N/A	-	6.2		N/A	-	1.00		N/A	-	2	(
Ag.(Impr.+ Land)	11.0		N/A	-	6.2		N/A	-	1.00		N/A	-	2	(
Other/Ex/Ut/NP/Mix	130.9		N/A	-	-		N/A	-	-		N/A	-	1	(
TOTAL w/Ag.& F&H	91.2		n/A	-	16.8		N/A	-	1.04		N/A	-	36	
TOTAL MARKET	94.7		N/A	-	16.0		N/A	-	1.05		N/A	-	32	2
			•				•				•			

Median Ratio	: 90.0 to	110.0			COD): 20.0	or le	SS				PRD: .98	8 to 1.02	
				103 : W	ILSON CO	UNTY								
	N 4 = -1: =	6	- C: -I -			6	. f: -l -			6	- C: -I -		\ /- I: -I	T
	Median		nfide		COD		nfide		PRD		nfide		Valid	Trim Sales
PROPERTY CLASS	Ratio	11	nterv	dI	COD	11	nterv	dl	PKD	11	nterv	dI	Sales	Sales
Residential	99.0	88.1	to	106.8	26.3	21.2	to	32.7	1.09	1.04	to	1.16	70	5
Commercial/Ind.	91.5	80.7	to	126.4	27.8	19.0	to	50.7	1.14	1.00	to	1.32	11	C
Vacant Lot	45.0	-	N/A	-	123.0	-	N/A	-	8.29	-	N/A	-	9	C
Farm & Home	26.1	-	N/A	-	104.0	-	N/A	-	1.28	-	N/A	-	8	(
Ag. Land Only	13.1	-	N/A	-	293.2	-	N/A	-	5.10	-	N/A	-	7	(
Ag.(Impr.+ Land)	13.1	-	N/A	-	293.2	-	N/A	-	5.10	-	N/A	-	7	(
Other/Ex/Ut/NP/Mix	-	-		-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	90.4	-	N/A	-	38.5	-	N/A	-	1.31	-	N/A	-	106	ϵ
TOTAL MARKET	96.1	-	N/A	-	28.3	-	N/A	-	1.08	-	N/A	-	91	9
			104	: WOC	DSON CO	UNTY								
			6. 1								6. 1			
	Median		nfide				nfide				nfide		Valid	Trim
PROPERTY CLASS	Ratio	Ir	nterv	al	COD	Ir	nterv	al	PRD	Ir	nterv	al	Sales	Sales
Residential	99.5	87.9	to	109.8	17.3	13.1	to	24.2	1.03	0.98	to	1.09	30	(
Commercial/Ind.	109.1	81.3	to	130.1	18.2	10.1	to	34.1	1.30	1.04	to	1.68	11	2
Vacant Lot	115.4	-	N/A	-	31.1	-	N/A	-	1.23	-	N/A	-	4	(
Farm & Home	41.9	-	N/A	-	86.3	-	N/A	-	1.49	-	N/A	-	4	(
Ag. Land Only	8.9	-	N/A	-	37.2	-	N/A	-	1.02	-	N/A	-	6	(
Ag.(Impr.+ Land)	7.1	-	N/A	-	40.5	-	N/A	-	1.00	-	N/A	-	7	(
Other/Ex/Ut/NP/Mix	_	-	-	-	-	-	-	-	-	-	-	-	0	
TOTAL w/Ag.& F&H	91.4	-	N/A	-	37.0	-	N/A	-	1.28	-	N/A	-	57	8
TOTAL MARKET	102.9		N/A	-	20.7		N/A	-	1.12		N/A	-	46	Ć
			105 :	WYANI	DOTTE CO	UNTY								
	Median	Cor	nfide	nco		Cor	nfide	nco		Cor	nfide	nco	Valid	Trim
PROPERTY CLASS	Ratio		iterv		COD		nterv		PRD		nterv		Sales	Sales
Residential	00.3	00.4	+-	02.0	17 5	15.0	+-	10 5	1.01	0.00	+-	1.02	245	2-
	90.2			92.9	17.5	15.8		19.5	1.01	0.99		1.03	315	37
Commercial/Ind.	83.0			90.4	29.3	23.2		38.7	1.16	1.03		1.29	52	3
Vacant Lot	52.7		N/A	-	34.2		N/A	-	1.36	-	N/A	-	82	3
Farm & Home	60.3		N/A	-	35.5		N/A	-	1.34		N/A	-	15	
Ag. Land Only	0.7		N/A	-	59.4		N/A	-	0.86		N/A	-	17	- 2
Ag.(Impr.+ Land)	0.7		N/A	-	96.4		N/A	-	0.81		N/A	-	22	- 2
Other/Ex/Ut/NP/Mix	111.7		N/A	-	42.8		N/A	-	1.01		N/A	-	6	(
TOTAL w/Ag.& F&H	84.5		N/A	-	26.0		N/A	-	1.11		N/A	-	493	63
TOTAL MARKET	86.4	-	N/A	-	23.2	-	N/A	-	1.08	-	N/A	-	456	52

Median Ratio	o: 90.0 to 1	10.0	COI	D: 20.0 or less		PRD:	PRD: .98 to 1.02		
				STATE TOTALS					
	Median	Confidence		Confidence		Confidence	Valid	Trim	
PROPERTY CLASS	Ratio	Interval	COD	Interval	PRD	Interval	Sales	Sales	
Residential ₁	94.3	N/A	10.3	N/A	1.01	N/A	12,062	1,179	
Comm./Ind. 2	90.9	N/A	22.2	N/A	1.07	N/A	1,244	45	
Vacant Lot	70.6	N/A	43.2	N/A	1.14	N/A	1,977	165	
Farm & Home	62.5	N/A	35.7	N/A	1.07	N/A	888	19	
Ag. Land Only	5.6	N/A	92.8	N/A	0.95	N/A	1,254	34	
Ag. (Impr.+ Land)	5.8	N/A	88.2	N/A	0.95	N/A	1,463	53	
Other/Ex/Ut/NP/M	121.7	N/A	54.4	N/A	1.28	N/A	83	7	
Total w/Ag.&F&H	92.1	N/A	18.8	N/A	1.05	N/A	17,717	2,876	
Total Market	95.0	N/A	16.0	N/A	1.04	N/A	15,366	1,847	

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Douf a manage of a second		. al la ala			Danfan			!				f		:	
1 Performance measures w															
₂ Supplemental sales from t	trie previous	s rive yea	rs we	re includ	ed in sample	s develo	pea ro	r some	smail co	unties. F	errorr	nance n	leasures we	re weighte	2a 1
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Charts & Graphs

Charts and Graphs

Overview

The summary statistics provided in this ratio study report include the standard industry measures used to evaluate appraisal performance: these consist of the Median Ratio, Coefficient of Dispersion (COD), Price-Related Differential (PRD) and their confidence intervals. This study also uses trended sales prices and supplemental sales where needed. Additional sales validation documentation has been reviewed and outliers have been trimmed for the uniformity measurement (COD).

The information provided by this 2017 Final Ratio Study, *pages 15-49*, indicates that a large portion of the residential and commercial/industrial subclasses of property meet the important mass appraisal standards.

GRAPHICS:

The following pie charts depict an overall appraisal performance for residential and commercial properties based on accepted standards. Weighting calculations are based on the 2016 certified assessed values. These numbers are weighted by county abstract assessed valuation.

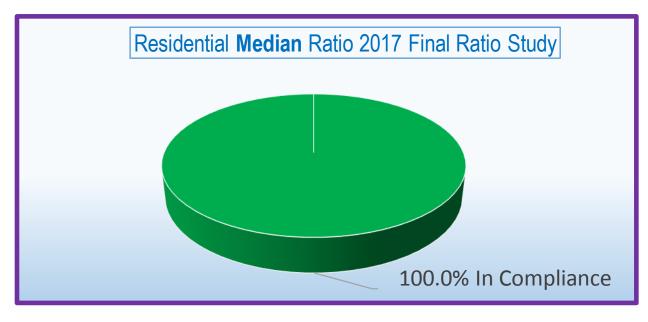
- 1. *Exhibit I* depicts the residential and commercial *median ratios*. The residential and commercial charts indicate that greater than 99 percent of the residential and commercial value statewide falls within a range of 90.0 percent to 110.0 percent which is the recognized standard according to IAAO (*International Association of Assessing Officers*).
- 2. *Exhibit II* presents the residential and commercial *coefficient of dispersion (COD)*. The acceptable standard for Kansas is a range of 0 to 20.0 for the COD. This chart indicates that 99.3 percent of the residential property value and 91.7 percent of the commercial/industrial property values fall within counties with a COD of 20.0 or less.
- 3. *Exhibit III* is a display of residential and commercial appraisal bias. The *price-related differential* provides only an indication, not proof, of appraisal bias. When sample sizes are small, a price-related differential outside the acceptable range may occur simply

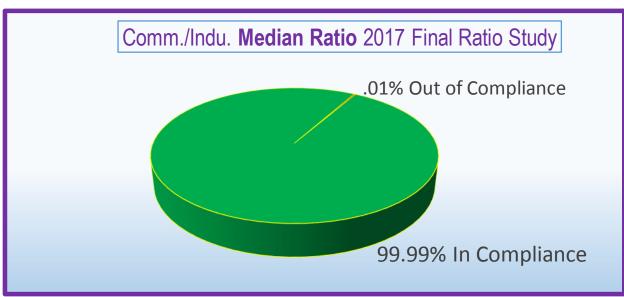
because of random sampling error¹. The acceptable range for the PRD is between .98 and 1.03. This chart indicates that 95.6 percent of the commercial property value and greater than 97 percent of the residential property values fall within the acceptable range for the PRD.

4. Residential and commercial bar charts have been prepared to show the confidence interval widths for the Median Ratio, Coefficient of Dispersion (COD) and the Price-Related Differential (PRD). Confidence intervals provide a range of values that can be used to estimate performance measures for each county with a specified degree of probability. A county with many sales in the study will tend to have a more compressed confidence interval. A county with fewer sales and greater dispersion in the real estate market will tend to have wider confidence intervals.

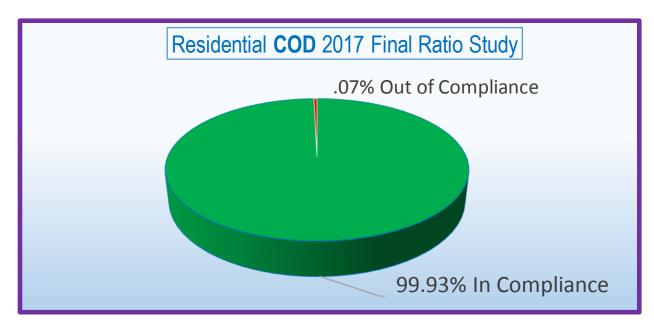
¹ International Association of Assessing Officers, 1990. *Property appraisal & assessment administration*. Chicago: International Association of Assessing Officers.

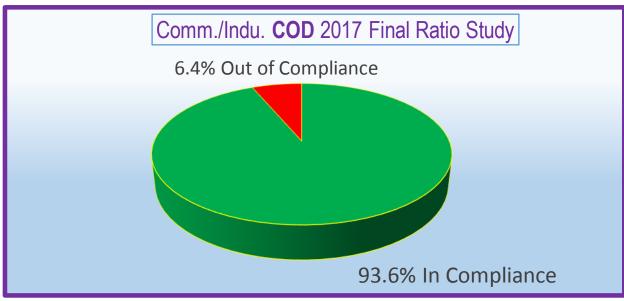
Pie Charts Based Upon Total Appraised Value Exhibit 1



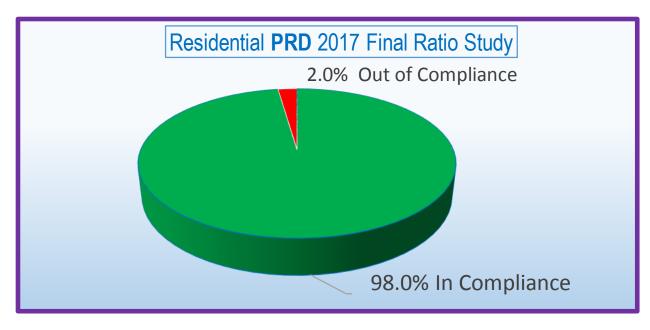


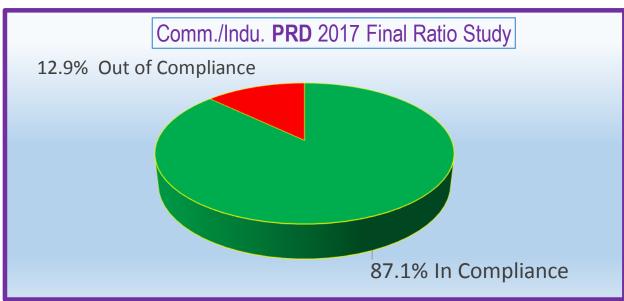
Pie Charts Based Upon Total Appraised Value Exhibit 2

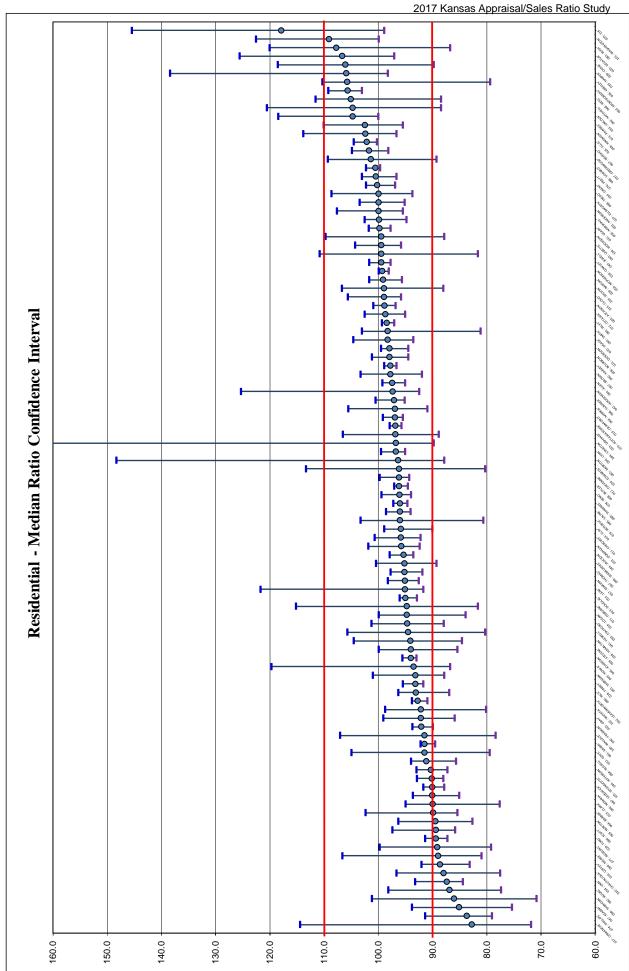


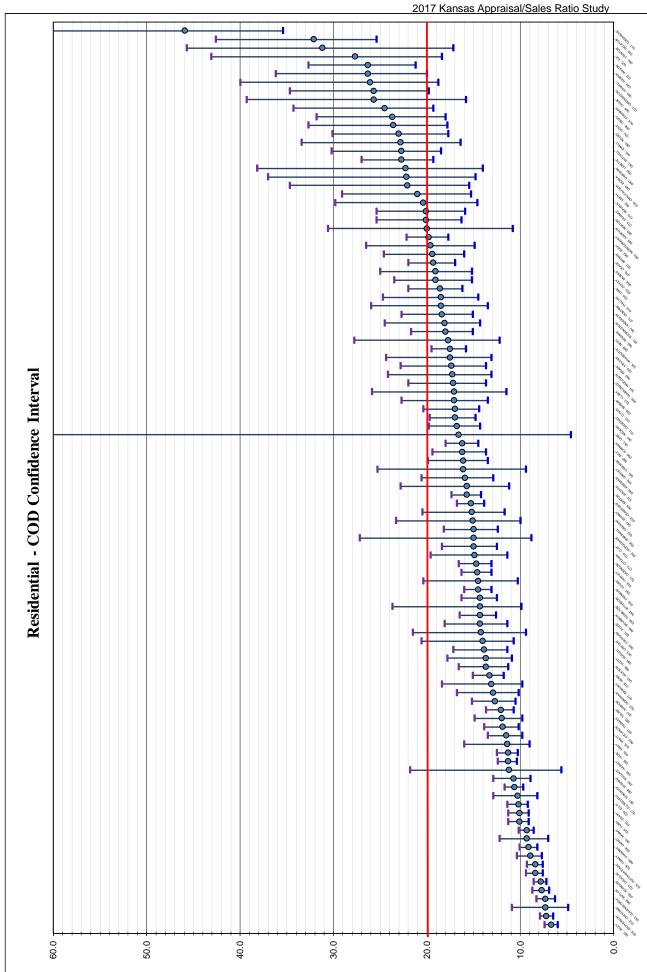


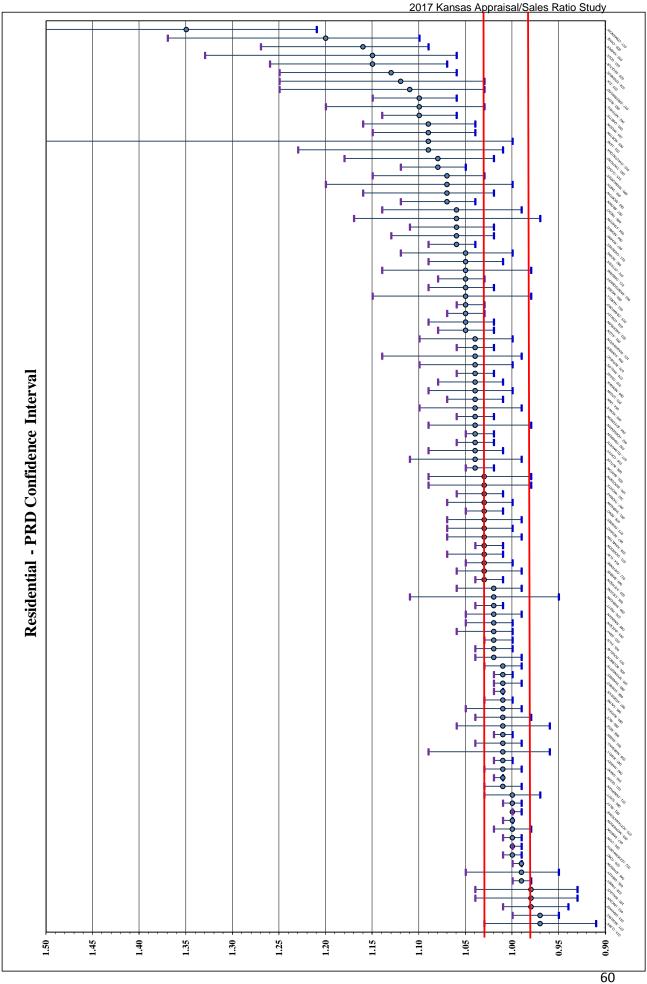
Pie Charts Based Upon Total Appraised Value Exhibit 3

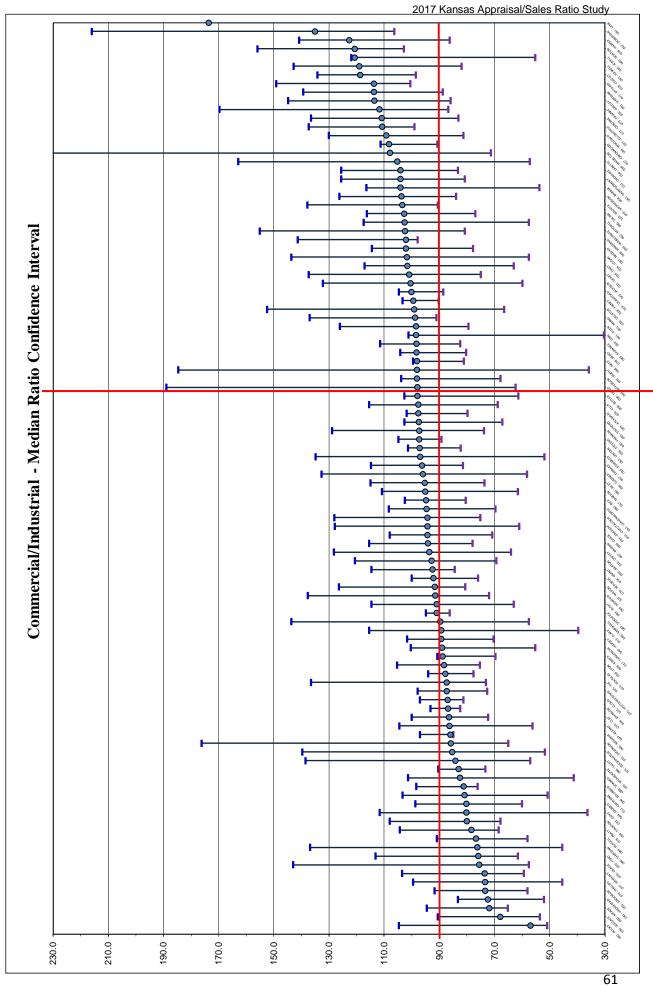


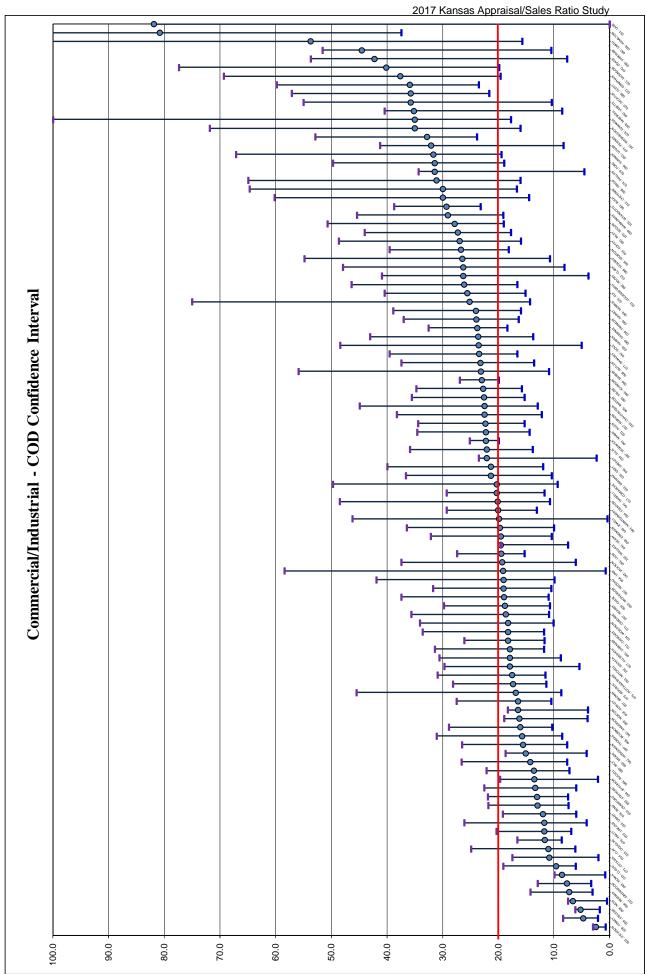


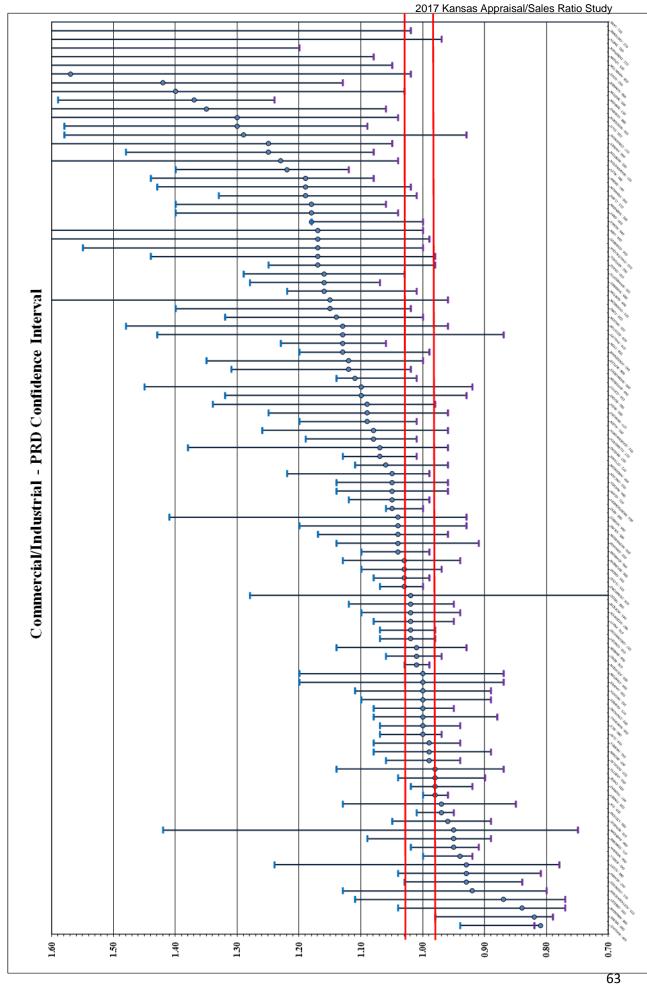












Detailed Statistics

Residential and Commercial/Industrial

Subclass

001 : ALLEN		S-7	002 : ANDERSON		
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	103	10	Original Number of Sales	88	4
Trimmed Outliers	18	0	Trimmed Outliers	12	0
Number of Ratios: Outliers Removed	85	10	Number of Ratios: Outliers Removed	76	4
Minimum Ratio	26.3	65.8	Minimum Ratio	23.6	57.6
Maximum Ratio	350.1	142.1	Maximum Ratio	437.9	92.4
Minimum Sale Price	4,000	19,500	Minimum Sale Price	1,400	30,000
Maximum Sale Price	182,000	117,500	Maximum Sale Price	236,000	565,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	97.5	98.3	Median Ratio	100.0	73.3
Lower Median Confidence Interval	95.1	79.4	Lower Median Confidence Interval	95.5	58.1
Upper Median Confidence Interval	99.3	126.1	Upper Median Confidence Interval	107.7	91.8
Broadened Median Ratio	97.3	98.2	Broadened Median Ratio	100.2	73.8
Coefficient of Dispersion (COD)	14.3	22.3	Coefficient of Dispersion (COD)	18.4	16.2
Lower COD Confidence Interval	11.4	15.3	Lower COD Confidence Interval	15.1	4.0
Upper COD Confidence Interval	18.1	34.4	Upper COD Confidence Interval	22.7	18.9
Value Weighted COD	11.4	22.0	Value Weighted COD	15.8	12.7
Coefficient of Concentration @10%	40.8	20.0	Coefficient of Concentration @10%	31.8	50.0
Coefficient of Concentration @15%	54.4	40.0	Coefficient of Concentration @15%	43.2	50.0
Coefficient of Concentration @20%	63.1	50.0	Coefficient of Concentration @20%	58.0	50.0
Coefficient of Concentration @50%	78.6	100.0	Coefficient of Concentration @50%	80.7	100.0
Coefficient of Concentration @100%	92.2	100.0	Coefficient of Concentration @100%	89.8	100.0
Coefficient of Interquartile Deviation	15.2	25.6	Coefficient of Interquartile Deviation	17.5	20.0
Median Percent Deviation	13.6	22.6	Median Percent Deviation	17.8	15.0
Lower Quartile (25th Percentile)	87.8	77.7	Lower Quartile (25th Percentile)	87.1	59.9
Upper Quartile	117.5	127.9	Upper Quartile	122.1	89.2
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	AcceptK	Normality Test	RejectK	AcceptW
Relative Skewness	0.97	0.28	Relative Skewness	0.45	0.15
Relative Kurtosis	4.97	1.77	Relative Kurtosis	3.92	1.59
Arithmetic Mean Ratio	97.2	101.7	Arithmetic Mean Ratio	100.3	74.1
Weighted Mean Ratio	92.9	93.7	Weighted Mean Ratio	95.4	70.2
Geometric Mean Ratio	95.3	98.4	Geometric Mean Ratio	97.3	73.0
Harmonic Mean Ratio	93.4	95.2	Harmonic Mean Ratio	93.9	71.8
Standard Deviation	20.1	27.3	Standard Deviation	24.4	15.2
Coefficient of Variation (COV)	20.7	26.8	Coefficient of Variation (COV)	24.4	20.5
Price-Related Differential (PRD)	1.05	1.09	Price-Related Differential (PRD)	1.05	1.06
Lower PRD Confidence Interval	1.02	1.01	Lower PRD Confidence Interval	1.02	0.97
Upper PRD Confidence interval	1.08	1.20	Upper PRD Confidence interval	1.09	1.11
Coeff. of Price-Related Bias (PRB)	-0.11	-0.10	Coeff. of Price-Related Bias (PRB)	-0.29	0.00
Lower PRB Confidence Interval	-0.19	-0.35	Lower PRB Confidence Interval	-0.39	0.00
Upper PRB Confidence Interval	-0.04	0.14	Upper PRB Confidence Interval	-0.19	0.00
Average Sale Price	65,657	53,000	Average Sale Price	82,517	137,959
Average Appraised Value	61,011	44,063	Average Appraised Value	78,752	117,298

003 : ATCHISON			004 : BARBER		S-6
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	156	6	Original Number of Sales	40	9
Trimmed Outliers	18	1	Trimmed Outliers	5	0
Number of Ratios: Outliers Removed	138	5	Number of Ratios: Outliers Removed	35	9
Minimum Ratio	64.0	65.1	Minimum Ratio	52.4	52.8
Maximum Ratio	908.6	103.3	Maximum Ratio	538.3	134.6
Minimum Sale Price	3,000	65,000	Minimum Sale Price	5,000	16,500
Maximum Sale Price	284,000	6,825,080	Maximum Sale Price	175,000	75,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	98.9	97.5	Median Ratio	89.9	104.0
Lower Median Confidence Interval	96.9	79.8	Lower Median Confidence Interval	85.5	53.8
Upper Median Confidence Interval	101.0	101.8	Upper Median Confidence Interval	102.4	116.4
Broadened Median Ratio	98.8	97.5	Broadened Median Ratio	90.8	104.2
Coefficient of Dispersion (COD)	11.9	2.4	Coefficient of Dispersion (COD)	17.1	23.1
Lower COD Confidence Interval	10.2	0.7	Lower COD Confidence Interval	13.5	10.9
Upper COD Confidence Interval	13.9	3.0	Upper COD Confidence Interval	22.7	55.9
Value Weighted COD	10.3	0.5	Value Weighted COD	16.1	22.0
Coefficient of Concentration @10%	50.0	83.3	Coefficient of Concentration @10%	35.0	44.4
Coefficient of Concentration @15%	64.7	83.3	Coefficient of Concentration @15%	47.5	55.6
Coefficient of Concentration @20%	71.2	83.3	Coefficient of Concentration @20%	55.0	55.6
Coefficient of Concentration @50%	89.7	100.0	Coefficient of Concentration @50%	87.5	100.0
Coefficient of Concentration @100%	94.2	100.0	Coefficient of Concentration @100%	90.0	100.0
Coefficient of Interquartile Deviation	11.0	7.1	Coefficient of Interquartile Deviation	16.7	29.3
Median Percent Deviation	10.0	2.9	Median Percent Deviation	15.6	11.9
Lower Quartile (25th Percentile)	91.0	87.2	Lower Quartile (25th Percentile)	82.0	53.8
Upper Quartile	112.8	101.1	Upper Quartile	112.1	114.8
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	AcceptW	Normality Test	AcceptK	RejectW
Relative Skewness	0.49	0.27	Relative Skewness	0.07	-0.37
Relative Kurtosis	3.58	1.95	Relative Kurtosis	2.56	1.60
Arithmetic Mean Ratio	98.8	98.6	Arithmetic Mean Ratio	89.9	93.0
Weighted Mean Ratio	96.4	97.4	Weighted Mean Ratio	87.6	91.8
Geometric Mean Ratio	97.5	98.6	Geometric Mean Ratio	87.8	87.7
Harmonic Mean Ratio	96.3	98.6	Harmonic Mean Ratio	85.7	82.0
Standard Deviation	15.9	3.3	Standard Deviation	19.3	31.3
Coefficient of Variation (COV)	16.1	3.3	Coefficient of Variation (COV)	21.5	33.6
Price-Related Differential (PRD)	1.03	1.01	Price-Related Differential (PRD)	1.03	1.01
Lower PRD Confidence Interval	1.01	0.99	Lower PRD Confidence Interval	0.99	0.93
Upper PRD Confidence interval	1.04	1.03	Upper PRD Confidence interval	1.06	1.14
Coeff. of Price-Related Bias (PRB)	-0.28	0.01	Coeff. of Price-Related Bias (PRB)	-0.46	0.04
Lower PRB Confidence Interval	-0.39	-0.07	Lower PRB Confidence Interval	-0.75	-0.30
Upper PRB Confidence Interval	-0.18	0.08	Upper PRB Confidence Interval	-0.18	0.39
Average Sale Price	113,148	173,122	Average Sale Price	77,954	36,583
Average Appraised Value	109,036	149,605	Average Appraised Value	68,311	36,507

005 : BARTON			006 : BOURBON		S-7
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	287	11	Original Number of Sales	152	11
Trimmed Outliers	22	0	Trimmed Outliers	12	0
Number of Ratios: Outliers Removed	265	11	Number of Ratios: Outliers Removed	140	11
Minimum Ratio	23.6	54.9	Minimum Ratio	24.5	54.2
Maximum Ratio	331.8	128.9	Maximum Ratio	378.8	110.5
Minimum Sale Price	2,000	10,000	Minimum Sale Price	500	10,000
Maximum Sale Price	400,000	1,840,000	Maximum Sale Price	315,000	1,100,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	99.1	92.8	Median Ratio	98.0	81.1
Lower Median Confidence Interval	95.7	69.3	Lower Median Confidence Interval	94.5	76.2
Upper Median Confidence Interval	101.7	120.6	Upper Median Confidence Interval	101.2	98.3
Broadened Median Ratio	99.2	90.8	Broadened Median Ratio	97.8	82.1
Coefficient of Dispersion (COD)	15.7	22.5	Coefficient of Dispersion (COD)	14.3	16.0
Lower COD Confidence Interval	14.2	15.3	Lower COD Confidence Interval	12.6	10.3
Upper COD Confidence Interval	17.4	35.5	Upper COD Confidence Interval	16.5	28.9
Value Weighted COD	14.2	33.4	Value Weighted COD	13.3	11.2
Coefficient of Concentration @10%	41.1	18.2	Coefficient of Concentration @10%	43.4	45.5
Coefficient of Concentration @15%	53.3	27.3	Coefficient of Concentration @15%	55.3	45.5
Coefficient of Concentration @20%	66.2	45.5	Coefficient of Concentration @20%	67.1	54.5
Coefficient of Concentration @50%	90.9	100.0	Coefficient of Concentration @50%	92.1	100.0
Coefficient of Concentration @100%	97.6	100.0	Coefficient of Concentration @100%	97.4	100.0
Coefficient of Interquartile Deviation	14.0	27.6	Coefficient of Interquartile Deviation	13.1	13.6
Median Percent Deviation	14.0	25.3	Median Percent Deviation	13.1	16.8
Lower Quartile (25th Percentile)	85.2	69.3	Lower Quartile (25th Percentile)	84.2	76.2
Upper Quartile	113.0	120.6	Upper Quartile	109.8	98.3
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	AcceptK	Normality Test	RejectK	AcceptK
Relative Skewness	0.34	0.09	Relative Skewness	-0.05	-0.29
Relative Kurtosis	3.24	1.72	Relative Kurtosis	2.87	2.32
Arithmetic Mean Ratio	98.3	93.2	Arithmetic Mean Ratio	95.7	83.1
Weighted Mean Ratio	94.7	66.6	Weighted Mean Ratio	94.2	81.0
Geometric Mean Ratio	96.3	89.9	Geometric Mean Ratio	94.0	81.4
Harmonic Mean Ratio	94.2	86.7	Harmonic Mean Ratio	92.3	79.4
Standard Deviation	20.0	25.5	Standard Deviation	17.5	17.4
Coefficient of Variation (COV)	20.3	27.3	Coefficient of Variation (COV)	18.3	20.9
Price-Related Differential (PRD)	1.04	1.40	Price-Related Differential (PRD)	1.02	1.03
Lower PRD Confidence Interval	1.02	1.03	Lower PRD Confidence Interval	0.99	0.94
Upper PRD Confidence interval	1.05	1.69	Upper PRD Confidence interval	1.04	1.13
Coeff. of Price-Related Bias (PRB)	-0.09	-0.07	Coeff. of Price-Related Bias (PRB)	-0.05	0.01
Lower PRB Confidence Interval	-0.12	-0.16	Lower PRB Confidence Interval	-0.10	-0.07
Upper PRB Confidence Interval	-0.05	0.03	Upper PRB Confidence Interval	-0.01	0.10
Average Sale Price	93,793	208,469	Average Sale Price	80,408	153,000
Average Appraised Value	88,792	202,631	Average Appraised Value	75,719	129,994

007 : BROWN			008 : BUTLER		
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	90	7	Original Number of Sales	249	18
Trimmed Outliers	14	0	Trimmed Outliers	30	0
Number of Ratios: Outliers Removed	76	7	Number of Ratios: Outliers Removed	219	18
Minimum Ratio	54.5	52.3	Minimum Ratio	25.1	38.3
Maximum Ratio	865.0	117.4	Maximum Ratio	168.8	138.7
Minimum Sale Price	2,000	16,000	Minimum Sale Price	4,000	9,000
Maximum Sale Price	290,000	178,022	Maximum Sale Price	6,650,000	597,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	97.8	94.1	Median Ratio	96.2	97.8
Lower Median Confidence Interval	92.0	77.9	Lower Median Confidence Interval	94.6	61.4
Upper Median Confidence Interval	103.3	115.5	Upper Median Confidence Interval	97.1	102.7
Broadened Median Ratio	97.9	95.8	Broadened Median Ratio	96.2	91.8
Coefficient of Dispersion (COD)	19.4	16.8	Coefficient of Dispersion (COD)	7.7	23.2
Lower COD Confidence Interval	16.0	8.7	Lower COD Confidence Interval	6.9	13.6
Upper COD Confidence Interval	24.7	45.9	Upper COD Confidence Interval	8.7	37.4
Value Weighted COD	17.6	8.4	Value Weighted COD	9.8	25.6
Coefficient of Concentration @10%	34.4	42.9	Coefficient of Concentration @10%	61.8	38.9
Coefficient of Concentration @15%	41.1	42.9	Coefficient of Concentration @15%	71.5	44.4
Coefficient of Concentration @20%	50.0	57.1	Coefficient of Concentration @20%	81.5	50.0
Coefficient of Concentration @50%	81.1	100.0	Coefficient of Concentration @50%	94.4	94.4
Coefficient of Concentration @100%	84.4	100.0	Coefficient of Concentration @100%	100.0	100.0
Coefficient of Interquartile Deviation	23.7	20.0	Coefficient of Interquartile Deviation	6.5	22.6
Median Percent Deviation	19.5	17.2	Median Percent Deviation	6.4	22.4
Lower Quartile (25th Percentile)	80.2	77.9	Lower Quartile (25th Percentile)	89.5	60.6
Upper Quartile	126.5	115.5	Upper Quartile	102.0	104.8
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	AcceptW	Normality Test	RejectK	AcceptK
Relative Skewness	1.31	-0.69	Relative Skewness	-0.11	0.00
Relative Kurtosis	5.55	2.56	Relative Kurtosis	3.20	2.08
Arithmetic Mean Ratio	95.6	92.9	Arithmetic Mean Ratio	95.0	86.5
Weighted Mean Ratio	89.1	93.8	Weighted Mean Ratio	91.6	77.5
Geometric Mean Ratio	92.8	90.2	Geometric Mean Ratio	94.5	81.9
Harmonic Mean Ratio	90.2	87.0	Harmonic Mean Ratio	94.0	77.0
Standard Deviation	25.0	22.5	Standard Deviation	9.9	27.9
Coefficient of Variation (COV)	26.1	24.2	Coefficient of Variation (COV)	10.4	32.2
Price-Related Differential (PRD)	1.07	0.99	Price-Related Differential (PRD)	1.04	1.12
Lower PRD Confidence Interval	1.04	0.89	Lower PRD Confidence Interval	0.99	1.00
Upper PRD Confidence interval	1.12	1.08	Upper PRD Confidence interval	1.11	1.35
Coeff. of Price-Related Bias (PRB)	-0.61	0.04	Coeff. of Price-Related Bias (PRB)	-0.01	-0.06
Lower PRB Confidence Interval	-0.79	-0.17	Lower PRB Confidence Interval	-0.04	-0.17
Upper PRB Confidence Interval	-0.42	0.25	Upper PRB Confidence Interval	0.01	0.04
Average Sale Price	101,560	111,292	Average Sale Price	195,016	210,918
Average Appraised Value	90,486	109,256	Average Appraised Value	178,542	181,105

009 : CHASE		S-3	010 : CHAUTAUQUA		S-6
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	22	7	Original Number of Sales	25	8
Trimmed Outliers	1	0	Trimmed Outliers	3	0
Number of Ratios: Outliers Removed	21	7	Number of Ratios: Outliers Removed	22	8
Minimum Ratio	77.7	66.4	Minimum Ratio	40.6	51.9
Maximum Ratio	270.0	139.4	Maximum Ratio	234.6	146.4
Minimum Sale Price	5,000	1,000	Minimum Sale Price	1,900	3,500
Maximum Sale Price	400,000	50,000	Maximum Sale Price	418,000	70,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	106.1	94.2	Median Ratio	88.0	94.3
Lower Median Confidence Interval	89.8	70.8	Lower Median Confidence Interval	77.6	75.2
Upper Median Confidence Interval	118.6	108.0	Upper Median Confidence Interval	96.7	128.1
Broadened Median Ratio	105.3	96.9	Broadened Median Ratio	87.1	95.4
Coefficient of Dispersion (COD)	25.7	18.9	Coefficient of Dispersion (COD)	22.1	22.4
Lower COD Confidence Interval	15.8	11.0	Lower COD Confidence Interval	15.5	12.9
Upper COD Confidence Interval	39.3	37.4	Upper COD Confidence Interval	34.7	44.9
Value Weighted COD	15.8	14.8	Value Weighted COD	16.1	27.4
Coefficient of Concentration @10%	27.3	28.6	Coefficient of Concentration @10%	36.0	37.5
Coefficient of Concentration @15%	40.9	57.1	Coefficient of Concentration @15%	48.0	50.0
Coefficient of Concentration @20%	54.5	57.1	Coefficient of Concentration @20%	56.0	50.0
Coefficient of Concentration @50%	77.3	100.0	Coefficient of Concentration @50%	76.0	87.5
Coefficient of Concentration @100%	95.5	100.0	Coefficient of Concentration @100%	88.0	100.0
Coefficient of Interquartile Deviation	27.8	19.8	Coefficient of Interquartile Deviation	21.2	23.2
Median Percent Deviation	17.0	14.7	Median Percent Deviation	17.8	16.3
Lower Quartile (25th Percentile)	88.0	70.8	Lower Quartile (25th Percentile)	74.7	78.7
Upper Quartile	147.0	108.0	Upper Quartile	112.0	122.5
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	AcceptW	Normality Test	RejectK	AcceptK
Relative Skewness	1.32	0.45	Relative Skewness	0.74	0.16
Relative Kurtosis	3.66	2.45	Relative Kurtosis	3.87	2.41
Arithmetic Mean Ratio	116.0	96.5	Arithmetic Mean Ratio	87.1	98.1
Weighted Mean Ratio	96.6	98.6	Weighted Mean Ratio	79.8	84.1
Geometric Mean Ratio	110.6	93.8	Geometric Mean Ratio	83.6	94.1
Harmonic Mean Ratio	106.2	91.3	Harmonic Mean Ratio	79.9	89.8
Standard Deviation	40.2	24.7	Standard Deviation	25.7	29.5
Coefficient of Variation (COV)	34.6	25.6	Coefficient of Variation (COV)	29.5	30.0
Price-Related Differential (PRD)	1.20	0.98	Price-Related Differential (PRD)	1.09	1.17
Lower PRD Confidence Interval	1.09	0.90	Lower PRD Confidence Interval	1.01	1.00
Upper PRD Confidence interval	1.37	1.04	Upper PRD Confidence interval	1.23	1.55
Coeff. of Price-Related Bias (PRB)	-0.16	0.01	Coeff. of Price-Related Bias (PRB)	-0.16	-0.10
Lower PRB Confidence Interval	-0.29	-0.15	Lower PRB Confidence Interval	-0.30	-0.30
Upper PRB Confidence Interval	-0.03	0.17	Upper PRB Confidence Interval	-0.02	0.10
Average Sale Price	81,119	48,000	Average Sale Price	66,841	18,000
Average Appraised Value	78,361	47,912	Average Appraised Value	53,322	19,330

011 : CHEROKEE			012 : CHEYENNE		S-8
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	149	11	Original Number of Sales	30	8
Trimmed Outliers	12	0	Trimmed Outliers	6	0
Number of Ratios: Outliers Removed	137	11	Number of Ratios: Outliers Removed	24	8
Minimum Ratio	31.8	60.9	Minimum Ratio	32.3	30.3
Maximum Ratio	481.8	127.5	Maximum Ratio	203.1	119.4
Minimum Sale Price	3,850	15,000	Minimum Sale Price	10,000	3,000
Maximum Sale Price	290,000	190,000	Maximum Sale Price	187,500	1,425,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	95.9	104.1	Median Ratio	96.2	80.8
Lower Median Confidence Interval	92.3	83.2	Lower Median Confidence Interval	94.4	50.8
Upper Median Confidence Interval	100.7	125.6	Upper Median Confidence Interval	99.8	103.3
Broadened Median Ratio	95.9	105.9	Broadened Median Ratio	96.2	79.5
Coefficient of Dispersion (COD)	17.0	18.2	Coefficient of Dispersion (COD)	7.3	29.9
Lower COD Confidence Interval	14.8	11.8	Lower COD Confidence Interval	4.9	16.7
Upper COD Confidence Interval	19.7	33.6	Upper COD Confidence Interval	10.9	64.7
Value Weighted COD	13.2	14.6	Value Weighted COD	8.3	56.0
Coefficient of Concentration @10%	37.6	27.3	Coefficient of Concentration @10%	53.3	0.0
Coefficient of Concentration @15%	54.4	27.3	Coefficient of Concentration @15%	66.7	37.5
Coefficient of Concentration @20%	63.1	45.5	Coefficient of Concentration @20%	73.3	37.5
Coefficient of Concentration @50%	87.2	100.0	Coefficient of Concentration @50%	80.0	87.5
Coefficient of Concentration @100%	98.7	100.0	Coefficient of Concentration @100%	96.7	100.0
Coefficient of Interquartile Deviation	15.4	20.4	Coefficient of Interquartile Deviation	8.1	29.2
Median Percent Deviation	13.7	20.1	Median Percent Deviation	6.5	25.8
Lower Quartile (25th Percentile)	83.8	83.2	Lower Quartile (25th Percentile)	90.9	53.5
Upper Quartile	113.3	125.6	Upper Quartile	106.6	100.6
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	RejectK	Normality Test	AcceptK	AcceptK
Relative Skewness	0.59	-0.46	Relative Skewness	0.09	-0.18
Relative Kurtosis	3.53	1.89	Relative Kurtosis	3.52	1.98
Arithmetic Mean Ratio	97.1	101.7	Arithmetic Mean Ratio	97.1	77.4
Weighted Mean Ratio	91.6	109.6	Weighted Mean Ratio	94.8	38.7
Geometric Mean Ratio	94.9	98.9	Geometric Mean Ratio	96.6	71.7
Harmonic Mean Ratio	92.6	95.8	Harmonic Mean Ratio	96.1	65.1
Standard Deviation	21.2	23.7	Standard Deviation	10.1	29.4
Coefficient of Variation (COV)	21.8	23.3	Coefficient of Variation (COV)	10.4	38.0
Price-Related Differential (PRD)	1.06	0.93	Price-Related Differential (PRD)	1.03	2.00
Lower PRD Confidence Interval	1.04	0.84	Lower PRD Confidence Interval	1.00	1.02
Upper PRD Confidence interval	1.09	1.03	Upper PRD Confidence interval	1.05	2.62
Coeff. of Price-Related Bias (PRB)	-0.13	0.05	Coeff. of Price-Related Bias (PRB)	-0.09	-0.09
Lower PRB Confidence Interval	-0.18	-0.05	Lower PRB Confidence Interval	-0.23	-0.22
Upper PRB Confidence Interval	-0.08	0.16	Upper PRB Confidence Interval	0.04	0.04
Average Sale Price	81,786	81,750	Average Sale Price	80,350	211,938
Average Appraised Value	74,878	77,815	Average Appraised Value	76,148	81,939

013 : CLARK		S-4	014 : CLAY		S-5
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	26	5	Original Number of Sales	88	10
Trimmed Outliers	1	0	Trimmed Outliers	5	2
Number of Ratios: Outliers Removed	25	5	Number of Ratios: Outliers Removed	83	8
Minimum Ratio	44.2	37.0	Minimum Ratio	47.8	25.8
Maximum Ratio	345.2	118.2	Maximum Ratio	311.9	213.8
Minimum Sale Price	5,000	19,000	Minimum Sale Price	1,000	18,000
Maximum Sale Price	192,500	95,000	Maximum Sale Price	340,000	262,500
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	90.0	89.3	Median Ratio	95.9	86.5
Lower Median Confidence Interval	77.7	39.6	Lower Median Confidence Interval	90.1	72.4
Upper Median Confidence Interval	95.0	115.4	Upper Median Confidence Interval	99.0	100.1
Broadened Median Ratio	90.0	81.0	Broadened Median Ratio	95.7	88.0
Coefficient of Dispersion (COD)	17.1	26.3	Coefficient of Dispersion (COD)	15.0	11.0
Lower COD Confidence Interval	11.5	8.1	Lower COD Confidence Interval	12.5	6.2
Upper COD Confidence Interval	25.9	47.9	Upper COD Confidence Interval	18.4	24.9
Value Weighted COD	13.1	33.0	Value Weighted COD	14.2	9.0
Coefficient of Concentration @10%	46.2	40.0	Coefficient of Concentration @10%	43.2	40.0
Coefficient of Concentration @15%	57.7	40.0	Coefficient of Concentration @15%	53.4	60.0
Coefficient of Concentration @20%	61.5	40.0	Coefficient of Concentration @20%	68.2	70.0
Coefficient of Concentration @50%	92.3	80.0	Coefficient of Concentration @50%	93.2	80.0
Coefficient of Concentration @100%	96.2	100.0	Coefficient of Concentration @100%	96.6	90.0
Coefficient of Interquartile Deviation	15.6	32.8	Coefficient of Interquartile Deviation	13.0	14.2
Median Percent Deviation	10.8	32.3	Median Percent Deviation	12.7	12.3
Lower Quartile (25th Percentile)	69.8	47.9	Lower Quartile (25th Percentile)	81.7	74.3
Upper Quartile	97.8	106.5	Upper Quartile	106.6	98.8
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	AcceptK	AcceptW	Normality Test	AcceptK	RejectK
Relative Skewness	-0.08	-0.21	Relative Skewness	-0.03	-0.84
Relative Kurtosis	3.12	1.74	Relative Kurtosis	3.34	3.10
Arithmetic Mean Ratio	84.4	79.6	Arithmetic Mean Ratio	93.1	86.8
Weighted Mean Ratio	87.0	67.2	Weighted Mean Ratio	90.1	86.4
Geometric Mean Ratio	81.8	73.7	Geometric Mean Ratio	91.1	85.7
Harmonic Mean Ratio	78.9	67.3	Harmonic Mean Ratio	89.0	84.6
Standard Deviation	20.5	31.9	Standard Deviation	18.6	13.5
Coefficient of Variation (COV)	24.3	40.0	Coefficient of Variation (COV)	19.9	15.6
Price-Related Differential (PRD)	0.97	1.19	Price-Related Differential (PRD)	1.03	1.00
Lower PRD Confidence Interval	0.91	1.01	Lower PRD Confidence Interval	1.01	0.97
Upper PRD Confidence interval	1.03	1.33	Upper PRD Confidence interval	1.07	1.07
Coeff. of Price-Related Bias (PRB)	-0.07	-0.22	Coeff. of Price-Related Bias (PRB)	-0.06	0.13
Lower PRB Confidence Interval	-0.26	-0.81	Lower PRB Confidence Interval	-0.13	-0.23
Upper PRB Confidence Interval	0.13	0.36	Upper PRB Confidence Interval	0.01	0.49
Average Sale Price	63,132	48,600	Average Sale Price	109,343	106,700
Average Appraised Value	54,919	29,774	Average Appraised Value	98,467	96,066

015 : CLOUD			016 : COFFEY		S-5
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	102	7	Original Number of Sales	79	6
Trimmed Outliers	8	0	Trimmed Outliers	5	0
Number of Ratios: Outliers Removed	94	7	Number of Ratios: Outliers Removed	74	6
Minimum Ratio	51.6	68.0	Minimum Ratio	34.4	56.3
Maximum Ratio	560.5	98.9	Maximum Ratio	314.1	144.3
Minimum Sale Price	4,000	14,000	Minimum Sale Price	4,000	10,000
Maximum Sale Price	270,000	65,000	Maximum Sale Price	395,000	1,500,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	99.0	87.0	Median Ratio	88.7	93.6
Lower Median Confidence Interval	95.9	81.3	Lower Median Confidence Interval	83.2	64.0
Upper Median Confidence Interval	105.7	97.0	Upper Median Confidence Interval	92.1	128.2
Broadened Median Ratio	99.0	89.3	Broadened Median Ratio	88.6	93.0
Coefficient of Dispersion (COD)	17.0	9.6	Coefficient of Dispersion (COD)	19.1	26.9
Lower COD Confidence Interval	14.4	6.1	Lower COD Confidence Interval	15.2	15.9
Upper COD Confidence Interval	20.4	19.1	Upper COD Confidence Interval	23.5	48.6
Value Weighted COD	14.3	11.4	Value Weighted COD	15.4	14.6
Coefficient of Concentration @10%	37.3	42.9	Coefficient of Concentration @10%	39.2	0.0
Coefficient of Concentration @15%	52.9	85.7	Coefficient of Concentration @15%	49.4	33.3
Coefficient of Concentration @20%	62.7	85.7	Coefficient of Concentration @20%	57.0	50.0
Coefficient of Concentration @50%	88.2	100.0	Coefficient of Concentration @50%	87.3	83.3
Coefficient of Concentration @100%	95.1	100.0	Coefficient of Concentration @100%	97.5	100.0
Coefficient of Interquartile Deviation	15.0	9.0	Coefficient of Interquartile Deviation	17.1	27.9
Median Percent Deviation	14.3	10.8	Median Percent Deviation	16.3	21.6
Lower Quartile (25th Percentile)	88.9	81.3	Lower Quartile (25th Percentile)	74.2	67.9
Upper Quartile	118.5	97.0	Upper Quartile	104.5	120.1
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	AcceptW	Normality Test	RejectK	AcceptW
Relative Skewness	0.52	-0.65	Relative Skewness	0.25	0.34
Relative Kurtosis	3.35	2.38	Relative Kurtosis	3.23	2.02
Arithmetic Mean Ratio	101.2	87.6	Arithmetic Mean Ratio	87.5	95.3
Weighted Mean Ratio	93.9	84.9	Weighted Mean Ratio	83.9	86.8
Geometric Mean Ratio	98.9	87.0	Geometric Mean Ratio	84.4	90.9
Harmonic Mean Ratio	96.4	86.3	Harmonic Mean Ratio	80.9	86.7
Standard Deviation	22.3	11.0	Standard Deviation	22.9	31.7
Coefficient of Variation (COV)	22.0	12.6	Coefficient of Variation (COV)	26.2	33.3
Price-Related Differential (PRD)	1.08	1.03	Price-Related Differential (PRD)	1.04	1.10
Lower PRD Confidence Interval	1.05	0.99	Lower PRD Confidence Interval	1.01	0.92
Upper PRD Confidence interval	1.12	1.08	Upper PRD Confidence interval	1.09	1.45
Coeff. of Price-Related Bias (PRB)	-0.19	-0.06	Coeff. of Price-Related Bias (PRB)	-0.10	0.01
Lower PRB Confidence Interval	-0.28	-0.26	Lower PRB Confidence Interval	-0.17	-0.16
Upper PRB Confidence Interval	-0.10	0.13	Upper PRB Confidence Interval	-0.02	0.19
Average Sale Price	71,673	144,955	Average Sale Price	114,137	65,500
Average Appraised Value	67,285	110,967	Average Appraised Value	95,734	70,510

017 : COMANCHE		S-8	018 : COWLEY		
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	26	8	Original Number of Sales	310	10
Trimmed Outliers	0	0	Trimmed Outliers	40	0
Number of Ratios: Outliers Removed	26	8	Number of Ratios: Outliers Removed	270	10
Minimum Ratio	48.9	37.4	Minimum Ratio	32.8	79.0
Maximum Ratio	236.9	102.8	Maximum Ratio	418.2	165.3
Minimum Sale Price	8,000	6,000	Minimum Sale Price	2,500	32,500
Maximum Sale Price	245,000	140,000	Maximum Sale Price	500,000	182,500
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	82.8	89.0	Median Ratio	99.5	118.7
Lower Median Confidence Interval	71.9	55.2	Lower Median Confidence Interval	97.8	98.6
Upper Median Confidence Interval	114.5	100.4	Upper Median Confidence Interval	101.7	134.2
Broadened Median Ratio	85.9	88.3	Broadened Median Ratio	99.5	118.0
Coefficient of Dispersion (COD)	45.9	20.2	Coefficient of Dispersion (COD)	14.6	16.4
Lower COD Confidence Interval	35.4	9.3	Lower COD Confidence Interval	13.1	10.5
Upper COD Confidence Interval	68.9	49.7	Upper COD Confidence Interval	16.3	27.5
Value Weighted COD	31.5	35.8	Value Weighted COD	12.7	16.1
Coefficient of Concentration @10%	19.2	25.0	Coefficient of Concentration @10%	43.9	20.0
Coefficient of Concentration @15%	23.1	50.0	Coefficient of Concentration @15%	55.5	50.0
Coefficient of Concentration @20%	38.5	75.0	Coefficient of Concentration @20%	61.0	70.0
Coefficient of Concentration @50%	73.1	87.5	Coefficient of Concentration @50%	86.5	100.0
Coefficient of Concentration @100%	88.5	100.0	Coefficient of Concentration @100%	93.2	100.0
Coefficient of Interquartile Deviation	41.6	22.5	Coefficient of Interquartile Deviation	13.5	14.9
Median Percent Deviation	28.9	14.1	Median Percent Deviation	12.7	14.6
Lower Quartile (25th Percentile)	66.1	60.0	Lower Quartile (25th Percentile)	89.7	97.8
Upper Quartile	135.0	100.1	Upper Quartile	116.6	133.2
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	RejectK	Normality Test	RejectK	AcceptK
Relative Skewness	1.15	-0.84	Relative Skewness	0.19	0.29
Relative Kurtosis	3.31	2.32	Relative Kurtosis	3.26	2.52
Arithmetic Mean Ratio	105.4	80.9	Arithmetic Mean Ratio	98.7	117.8
Weighted Mean Ratio	78.3	62.5	Weighted Mean Ratio	94.2	115.2
Geometric Mean Ratio	95.4	77.0	Geometric Mean Ratio	96.8	115.4
Harmonic Mean Ratio	87.6	72.3	Harmonic Mean Ratio	94.8	113.0
Standard Deviation	51.6	23.8	Standard Deviation	19.4	25.1
Coefficient of Variation (COV)	49.0	29.4	Coefficient of Variation (COV)	19.6	21.3
Price-Related Differential (PRD)	1.35	1.29	Price-Related Differential (PRD)	1.05	1.02
Lower PRD Confidence Interval	1.21	0.93	Lower PRD Confidence Interval	1.03	0.98
Upper PRD Confidence interval	1.58	1.58	Upper PRD Confidence interval	1.07	1.07
Coeff. of Price-Related Bias (PRB)	-0.28	-0.05	Coeff. of Price-Related Bias (PRB)	-0.14	0.03
Lower PRB Confidence Interval	-0.50	-0.24	Lower PRB Confidence Interval	-0.18	-0.21
Upper PRB Confidence Interval	-0.06	0.15	Upper PRB Confidence Interval	-0.10	0.27
Average Sale Price	53,140	33,313	Average Sale Price	94,012	277,050
Average Appraised Value	41,628	20,823	Average Appraised Value	88,604	173,264

019 : CRAWFORD			020 : DECATUR		
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	419	16	Original Number of Sales	52	6
Trimmed Outliers	47	1	Trimmed Outliers	4	0
Number of Ratios: Outliers Removed	372	15	Number of Ratios: Outliers Removed	48	6
Minimum Ratio	29.7	63.1	Minimum Ratio	46.5	61.2
Maximum Ratio	764.0	243.3	Maximum Ratio	391.8	169.9
Minimum Sale Price	1,000	20,000	Minimum Sale Price	500	15,000
Maximum Sale Price	865,000	220,000	Maximum Sale Price	250,000	105,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	97.0	100.1	Median Ratio	106.7	99.0
Lower Median Confidence Interval	95.5	88.6	Lower Median Confidence Interval	97.1	66.6
Upper Median Confidence Interval	99.2	104.7	Upper Median Confidence Interval	125.6	152.5
Broadened Median Ratio	97.0	100.2	Broadened Median Ratio	107.1	100.5
Coefficient of Dispersion (COD)	15.3	13.0	Coefficient of Dispersion (COD)	32.1	35.7
Lower COD Confidence Interval	13.9	7.5	Lower COD Confidence Interval	25.4	21.6
Upper COD Confidence Interval	16.8	21.9	Upper COD Confidence Interval	42.6	57.1
Value Weighted COD	12.6	12.5	Value Weighted COD	18.3	35.0
Coefficient of Concentration @10%	43.0	56.3	Coefficient of Concentration @10%	23.1	0.0
Coefficient of Concentration @15%	54.9	62.5	Coefficient of Concentration @15%	38.5	0.0
Coefficient of Concentration @20%	64.2	62.5	Coefficient of Concentration @20%	44.2	0.0
Coefficient of Concentration @50%	86.6	93.8	Coefficient of Concentration @50%	76.9	83.3
Coefficient of Concentration @100%	93.8	93.8	Coefficient of Concentration @100%	86.5	100.0
Coefficient of Interquartile Deviation	14.5	11.7	Coefficient of Interquartile Deviation	29.3	37.6
Median Percent Deviation	12.4	6.1	Median Percent Deviation	22.2	31.8
Lower Quartile (25th Percentile)	87.2	82.0	Lower Quartile (25th Percentile)	90.8	69.3
Upper Quartile	115.4	105.4	Upper Quartile	153.3	143.7
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	AcceptK	Normality Test	RejectK	AcceptW
Relative Skewness	0.44	-0.10	Relative Skewness	1.03	0.40
Relative Kurtosis	3.53	2.78	Relative Kurtosis	3.56	1.73
Arithmetic Mean Ratio	96.9	95.7	Arithmetic Mean Ratio	118.5	106.0
Weighted Mean Ratio	92.6	93.2	Weighted Mean Ratio	102.9	94.1
Geometric Mean Ratio	94.8	94.0	Geometric Mean Ratio	110.9	99.1
Harmonic Mean Ratio	92.8	92.2	Harmonic Mean Ratio	103.9	92.9
Standard Deviation	19.8	18.3	Standard Deviation	45.4	42.4
Coefficient of Variation (COV)	20.4	19.1	Coefficient of Variation (COV)	38.3	40.0
Price-Related Differential (PRD)	1.05	1.03	Price-Related Differential (PRD)	1.15	1.13
Lower PRD Confidence Interval	1.03	1.00	Lower PRD Confidence Interval	1.07	0.96
Upper PRD Confidence interval	1.06	1.07	Upper PRD Confidence interval	1.26	1.48
Coeff. of Price-Related Bias (PRB)	-0.27	-0.10	Coeff. of Price-Related Bias (PRB)	-0.18	-0.04
Lower PRB Confidence Interval	-0.31	-0.36	Lower PRB Confidence Interval	-0.30	-0.64
Upper PRB Confidence Interval	-0.22	0.17	Upper PRB Confidence Interval	-0.07	0.56
Average Sale Price	104,781	190,811	Average Sale Price	51,086	44,071
Average Appraised Value	97,059	152,964	Average Appraised Value	52,556	31,570

021 : DICKINSON		S-6	022 : DONIPHAN		S-9
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	225	9	Original Number of Sales	63	12
Trimmed Outliers	20	0	Trimmed Outliers	9	1
Number of Ratios: Outliers Removed	205	9	Number of Ratios: Outliers Removed	54	11
Minimum Ratio	41.8	58.4	Minimum Ratio	24.6	78.7
Maximum Ratio	338.7	211.5	Maximum Ratio	379.5	583.2
Minimum Sale Price	6,000	10,000	Minimum Sale Price	5,500	15,000
Maximum Sale Price	485,000	750,000	Maximum Sale Price	2,552,000	14,300,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	98.0	85.7	Median Ratio	95.8	135.0
Lower Median Confidence Interval	94.5	65.0	Lower Median Confidence Interval	92.4	106.4
Upper Median Confidence Interval	99.6	176.2	Upper Median Confidence Interval	101.9	216.0
Broadened Median Ratio	98.0	87.8	Broadened Median Ratio	95.5	132.0
Coefficient of Dispersion (COD)	14.7	40.1	Coefficient of Dispersion (COD)	12.9	37.6
Lower COD Confidence Interval	13.1	19.8	Lower COD Confidence Interval	10.2	19.6
Upper COD Confidence Interval	16.6	77.4	Upper COD Confidence Interval	16.8	69.3
Value Weighted COD	12.6	14.1	Value Weighted COD	9.8	39.3
Coefficient of Concentration @10%	43.6	22.2	Coefficient of Concentration @10%	46.0	25.0
Coefficient of Concentration @15%	57.3	33.3	Coefficient of Concentration @15%	54.0	25.0
Coefficient of Concentration @20%	67.6	55.6	Coefficient of Concentration @20%	68.3	41.7
Coefficient of Concentration @50%	90.7	77.8	Coefficient of Concentration @50%	84.1	66.7
Coefficient of Concentration @100%	98.2	77.8	Coefficient of Concentration @100%	92.1	83.3
Coefficient of Interquartile Deviation	12.8	42.0	Coefficient of Interquartile Deviation	13.5	42.4
Median Percent Deviation	11.9	19.2	Median Percent Deviation	13.1	28.1
Lower Quartile (25th Percentile)	87.2	67.2	Lower Quartile (25th Percentile)	87.6	104.8
Upper Quartile	112.2	139.2	Upper Quartile	113.5	219.3
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	RejectK	Normality Test	RejectK	RejectK
Relative Skewness	0.11	1.19	Relative Skewness	0.83	1.34
Relative Kurtosis	3.33	2.92	Relative Kurtosis	4.01	3.86
Arithmetic Mean Ratio	97.5	105.1	Arithmetic Mean Ratio	97.2	151.2
Weighted Mean Ratio	95.0	91.4	Weighted Mean Ratio	96.0	81.2
Geometric Mean Ratio	95.7	95.7	Geometric Mean Ratio	95.8	138.2
Harmonic Mean Ratio	93.7	88.8	Harmonic Mean Ratio	94.5	128.3
Standard Deviation	18.8	53.0	Standard Deviation	16.9	73.8
Coefficient of Variation (COV)	19.3	50.4	Coefficient of Variation (COV)	17.3	48.8
Price-Related Differential (PRD)	1.03	1.15	Price-Related Differential (PRD)	1.01	1.86
Lower PRD Confidence Interval	1.01	0.96	Lower PRD Confidence Interval	0.99	1.20
Upper PRD Confidence interval	1.04	1.63	Upper PRD Confidence interval	1.03	2.79
Coeff. of Price-Related Bias (PRB)	-0.11	0.03	Coeff. of Price-Related Bias (PRB)	-0.22	0.04
Lower PRB Confidence Interval	-0.16	-0.27	Lower PRB Confidence Interval	-0.32	-0.25
Upper PRB Confidence Interval	-0.07	0.33	Upper PRB Confidence Interval	-0.11	0.32
Average Sale Price	124,907	181,750	Average Sale Price	96,600	64,447
Average Appraised Value	118,702	164,945	Average Appraised Value	92,769	90,279

023 : DOUGLAS			024 : EDWARDS		S-7
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	254	27	Original Number of Sales	29	8
Trimmed Outliers	17	2	Trimmed Outliers	0	0
Number of Ratios: Outliers Removed	237	25	Number of Ratios: Outliers Removed	29	8
Minimum Ratio	54.2	41.0	Minimum Ratio	53.4	22.1
Maximum Ratio	252.4	216.1	Maximum Ratio	156.3	183.0
Minimum Sale Price	50,000	48,000	Minimum Sale Price	4,500	4,000
Maximum Sale Price	1,525,000	9,000,000	Maximum Sale Price	180,000	51,751
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	95.0	87.7	Median Ratio	96.2	96.9
Lower Median Confidence Interval	92.9	77.7	Lower Median Confidence Interval	80.4	52.0
Upper Median Confidence Interval	96.1	94.1	Upper Median Confidence Interval	113.4	134.8
Broadened Median Ratio	94.9	87.0	Broadened Median Ratio	97.5	97.5
Coefficient of Dispersion (COD)	8.4	11.6	Coefficient of Dispersion (COD)	24.5	35.0
Lower COD Confidence Interval	7.6	8.6	Lower COD Confidence Interval	19.3	17.7
Upper COD Confidence Interval	9.4	16.6	Upper COD Confidence Interval	34.3	100.0
Value Weighted COD	9.5	10.2	Value Weighted COD	23.1	26.8
Coefficient of Concentration @10%	64.2	37.0	Coefficient of Concentration @10%	24.1	37.5
Coefficient of Concentration @15%	78.3	74.1	Coefficient of Concentration @15%	24.1	50.0
Coefficient of Concentration @20%	84.3	81.5	Coefficient of Concentration @20%	41.4	50.0
Coefficient of Concentration @50%	97.6	92.6	Coefficient of Concentration @50%	96.6	75.0
Coefficient of Concentration @100%	99.6	96.3	Coefficient of Concentration @100%	100.0	100.0
Coefficient of Interquartile Deviation	7.4	12.7	Coefficient of Interquartile Deviation	22.7	34.2
Median Percent Deviation	7.3	11.4	Median Percent Deviation	22.1	24.8
Lower Quartile (25th Percentile)	86.7	74.7	Lower Quartile (25th Percentile)	75.2	61.6
Upper Quartile	100.7	97.0	Upper Quartile	118.9	127.9
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	RejectK	Normality Test	RejectK	AcceptK
Relative Skewness	0.02	-0.53	Relative Skewness	0.16	0.18
Relative Kurtosis	3.22	3.05	Relative Kurtosis	2.04	2.64
Arithmetic Mean Ratio	93.6	85.8	Arithmetic Mean Ratio	97.9	97.9
Weighted Mean Ratio	91.9	86.5	Weighted Mean Ratio	86.5	83.4
Geometric Mean Ratio	93.1	84.8	Geometric Mean Ratio	93.9	84.4
Harmonic Mean Ratio	92.5	83.7	Harmonic Mean Ratio	89.8	67.6
Standard Deviation	10.2	13.0	Standard Deviation	28.1	48.8
Coefficient of Variation (COV)	10.9	15.2	Coefficient of Variation (COV)	28.7	49.8
Price-Related Differential (PRD)	1.02	0.99	Price-Related Differential (PRD)	1.13	1.17
Lower PRD Confidence Interval	1.00	0.94	Lower PRD Confidence Interval	1.06	0.99
Upper PRD Confidence interval	1.04	1.06	Upper PRD Confidence interval	1.25	1.65
Coeff. of Price-Related Bias (PRB)	-0.07	-0.03	Coeff. of Price-Related Bias (PRB)	-0.09	-0.24
Lower PRB Confidence Interval	-0.11	-0.12	Lower PRB Confidence Interval	-0.18	-0.65
Upper PRB Confidence Interval	-0.04	0.05	Upper PRB Confidence Interval	0.00	0.17
Average Sale Price	215,886	1,276,268	Average Sale Price	50,712	26,107
Average Appraised Value	198,389	1,041,219	Average Appraised Value	43,845	24,391

025 : ELK		S-7	026 : ELLIS		
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	25	8	Original Number of Sales	268	11
Trimmed Outliers	3	0	Trimmed Outliers	23	0
Number of Ratios: Outliers Removed	22	8	Number of Ratios: Outliers Removed	245	11
Minimum Ratio	58.1	57.5	Minimum Ratio	62.1	61.9
Maximum Ratio	368.1	139.5	Maximum Ratio	482.9	146.7
Minimum Sale Price	2,000	7,000	Minimum Sale Price	3,000	25,000
Maximum Sale Price	79,000	45,000	Maximum Sale Price	680,000	3,400,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	117.9	87.2	Median Ratio	102.1	97.6
Lower Median Confidence Interval	99.0	73.1	Lower Median Confidence Interval	100.3	68.9
Upper Median Confidence Interval	145.5	136.6	Upper Median Confidence Interval	104.6	115.5
Broadened Median Ratio	118.4	86.6	Broadened Median Ratio	102.2	96.6
Coefficient of Dispersion (COD)	27.7	25.5	Coefficient of Dispersion (COD)	10.2	22.0
Lower COD Confidence Interval	18.4	15.1	Lower COD Confidence Interval	9.2	13.8
Upper COD Confidence Interval	43.1	40.4	Upper COD Confidence Interval	11.4	35.9
Value Weighted COD	20.7	28.0	Value Weighted COD	9.9	27.1
Coefficient of Concentration @10%	28.0	25.0	Coefficient of Concentration @10%	56.0	27.3
Coefficient of Concentration @15%	32.0	37.5	Coefficient of Concentration @15%	70.1	36.4
Coefficient of Concentration @20%	44.0	62.5	Coefficient of Concentration @20%	78.7	54.5
Coefficient of Concentration @50%	76.0	75.0	Coefficient of Concentration @50%	93.7	90.9
Coefficient of Concentration @100%	84.0	100.0	Coefficient of Concentration @100%	95.9	100.0
Coefficient of Interquartile Deviation	29.0	30.5	Coefficient of Interquartile Deviation	9.9	23.9
Median Percent Deviation	23.4	15.6	Median Percent Deviation	8.5	19.0
Lower Quartile (25th Percentile)	96.4	73.4	Lower Quartile (25th Percentile)	95.3	68.9
Upper Quartile	164.8	126.6	Upper Quartile	115.6	115.5
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	RejectK	Normality Test	RejectK	RejectK
Relative Skewness	1.39	0.61	Relative Skewness	0.31	0.38
Relative Kurtosis	4.96	2.03	Relative Kurtosis	3.45	2.10
Arithmetic Mean Ratio	122.3	94.0	Arithmetic Mean Ratio	103.3	97.7
Weighted Mean Ratio	109.6	96.8	Weighted Mean Ratio	101.7	75.0
Geometric Mean Ratio	115.6	90.1	Geometric Mean Ratio	102.4	94.1
Harmonic Mean Ratio	109.7	86.6	Harmonic Mean Ratio	101.5	90.7
Standard Deviation	45.3	29.8	Standard Deviation	13.7	27.8
Coefficient of Variation (COV)	37.0	31.7	Coefficient of Variation (COV)	13.2	28.4
Price-Related Differential (PRD)	1.12	0.97	Price-Related Differential (PRD)	1.02	1.30
Lower PRD Confidence Interval	1.03	0.85	Lower PRD Confidence Interval	1.00	1.09
Upper PRD Confidence interval	1.25	1.13	Upper PRD Confidence interval	1.03	1.58
Coeff. of Price-Related Bias (PRB)	-0.34	0.10	Coeff. of Price-Related Bias (PRB)	-0.19	-0.08
Lower PRB Confidence Interval	-0.58	-0.19	Lower PRB Confidence Interval	-0.23	-0.18
Upper PRB Confidence Interval	-0.11	0.39	Upper PRB Confidence Interval	-0.14	0.03
Average Sale Price	26,396	17,500	Average Sale Price	182,847	386,342
Average Appraised Value	28,920	16,941	Average Appraised Value	185,950	376,914

027 : ELLSWORTH		S-3	028 : FINNEY		
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	62	8	Original Number of Sales	143	10
Trimmed Outliers	6	0	Trimmed Outliers	10	1
Number of Ratios: Outliers Removed	56	8	Number of Ratios: Outliers Removed	133	9
Minimum Ratio	39.3	81.6	Minimum Ratio	63.4	62.6
Maximum Ratio	207.1	164.5	Maximum Ratio	330.9	107.9
Minimum Sale Price	6,000	25,000	Minimum Sale Price	2,750	2,260
Maximum Sale Price	259,900	200,000	Maximum Sale Price	810,000	275,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	100.0	110.7	Median Ratio	93.2	99.4
Lower Median Confidence Interval	95.2	99.1	Lower Median Confidence Interval	91.8	90.3
Upper Median Confidence Interval	103.5	137.4	Upper Median Confidence Interval	95.5	103.4
Broadened Median Ratio	99.8	111.8	Broadened Median Ratio	93.2	99.3
Coefficient of Dispersion (COD)	10.3	17.9	Coefficient of Dispersion (COD)	8.9	4.7
Lower COD Confidence Interval	8.2	11.8	Lower COD Confidence Interval	7.7	2.1
Upper COD Confidence Interval	12.9	31.4	Upper COD Confidence Interval	10.4	8.4
Value Weighted COD	8.6	18.1	Value Weighted COD	8.9	4.3
Coefficient of Concentration @10%	54.8	37.5	Coefficient of Concentration @10%	63.6	80.0
Coefficient of Concentration @15%	72.6	62.5	Coefficient of Concentration @15%	74.8	90.0
Coefficient of Concentration @20%	79.0	62.5	Coefficient of Concentration @20%	78.3	90.0
Coefficient of Concentration @50%	95.2	100.0	Coefficient of Concentration @50%	96.5	100.0
Coefficient of Concentration @100%	96.8	100.0	Coefficient of Concentration @100%	98.6	100.0
Coefficient of Interquartile Deviation	9.6	15.8	Coefficient of Interquartile Deviation	7.7	6.5
Median Percent Deviation	9.4	12.4	Median Percent Deviation	7.7	4.4
Lower Quartile (25th Percentile)	90.3	99.7	Lower Quartile (25th Percentile)	86.3	89.0
Upper Quartile	109.4	134.7	Upper Quartile	100.6	101.9
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	RejectK	Normality Test	RejectK	RejectK
Relative Skewness	0.70	0.59	Relative Skewness	0.25	-0.58
Relative Kurtosis	3.34	2.56	Relative Kurtosis	3.21	2.63
Arithmetic Mean Ratio	100.5	116.5	Arithmetic Mean Ratio	93.6	98.6
Weighted Mean Ratio	96.9	108.3	Weighted Mean Ratio	94.5	100.1
Geometric Mean Ratio	99.6	114.1	Geometric Mean Ratio	92.9	98.4
Harmonic Mean Ratio	98.8	111.8	Harmonic Mean Ratio	92.2	98.1
Standard Deviation	13.6	26.0	Standard Deviation	11.1	7.2
Coefficient of Variation (COV)	13.5	22.3	Coefficient of Variation (COV)	11.9	7.3
Price-Related Differential (PRD)	1.04	1.08	Price-Related Differential (PRD)	0.99	0.98
Lower PRD Confidence Interval	1.02	1.01	Lower PRD Confidence Interval	0.98	0.96
Upper PRD Confidence interval	1.06	1.19	Upper PRD Confidence interval	1.00	1.00
Coeff. of Price-Related Bias (PRB)	-0.04	-0.08	Coeff. of Price-Related Bias (PRB)	-0.15	0.00
Lower PRB Confidence Interval	-0.10	-0.30	Lower PRB Confidence Interval	-0.21	-0.05
Upper PRB Confidence Interval	0.02	0.14	Upper PRB Confidence Interval	-0.09	0.06
Average Sale Price	95,184	106,286	Average Sale Price	180,190	274,409
Average Appraised Value	92,273	70,654	Average Appraised Value	170,193	220,734

029 : FORD			030 : FRANKLIN		
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	235	10	Original Number of Sales	314	13
Trimmed Outliers	25	0	Trimmed Outliers	30	1
Number of Ratios: Outliers Removed	210	10	Number of Ratios: Outliers Removed	284	12
Minimum Ratio	28.5	53.2	Minimum Ratio	35.1	52.3
Maximum Ratio	226.3	142.4	Maximum Ratio	408.0	241.8
Minimum Sale Price	12,000	10,000	Minimum Sale Price	7,000	28,500
Maximum Sale Price	748,315	775,000	Maximum Sale Price	1,150,000	650,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	89.4	75.8	Median Ratio	92.1	97.2
Lower Median Confidence Interval	87.3	61.5	Lower Median Confidence Interval	90.0	73.9
Upper Median Confidence Interval	91.4	113.2	Upper Median Confidence Interval	93.8	128.9
Broadened Median Ratio	89.3	76.4	Broadened Median Ratio	92.0	99.0
Coefficient of Dispersion (COD)	10.1	31.4	Coefficient of Dispersion (COD)	14.5	23.9
Lower COD Confidence Interval	9.1	18.8	Lower COD Confidence Interval	13.1	16.3
Upper COD Confidence Interval	11.3	49.7	Upper COD Confidence Interval	16.0	37.0
Value Weighted COD	9.5	29.3	Value Weighted COD	13.2	29.2
Coefficient of Concentration @10%	57.4	20.0	Coefficient of Concentration @10%	41.1	23.1
Coefficient of Concentration @15%	67.7	30.0	Coefficient of Concentration @15%	57.6	23.1
Coefficient of Concentration @20%	77.4	50.0	Coefficient of Concentration @20%	64.0	38.5
Coefficient of Concentration @50%	93.2	80.0	Coefficient of Concentration @50%	89.5	92.3
Coefficient of Concentration @100%	98.7	100.0	Coefficient of Concentration @100%	94.6	92.3
Coefficient of Interquartile Deviation	9.0	28.9	Coefficient of Interquartile Deviation	13.8	29.2
Median Percent Deviation	9.1	20.2	Median Percent Deviation	12.4	24.9
Lower Quartile (25th Percentile)	80.8	60.7	Lower Quartile (25th Percentile)	82.2	73.5
Upper Quartile	96.9	104.6	Upper Quartile	107.6	130.2
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	RejectK	Normality Test	RejectK	AcceptK
Relative Skewness	0.09	0.92	Relative Skewness	0.34	0.16
Relative Kurtosis	3.15	2.48	Relative Kurtosis	3.26	1.94
Arithmetic Mean Ratio	88.4	85.2	Arithmetic Mean Ratio	91.8	97.7
Weighted Mean Ratio	88.4	73.9	Weighted Mean Ratio	88.6	81.8
Geometric Mean Ratio	87.7	80.5	Geometric Mean Ratio	90.2	93.8
Harmonic Mean Ratio	86.9	76.5	Harmonic Mean Ratio	88.5	89.8
Standard Deviation	11.5	32.0	Standard Deviation	17.3	28.4
Coefficient of Variation (COV)	13.0	37.6	Coefficient of Variation (COV)	18.8	29.1
Price-Related Differential (PRD)	1.00	1.15	Price-Related Differential (PRD)	1.04	1.19
Lower PRD Confidence Interval	0.99	1.02	Lower PRD Confidence Interval	1.02	1.02
Upper PRD Confidence interval	1.01	1.40	Upper PRD Confidence interval	1.05	1.43
Coeff. of Price-Related Bias (PRB)	-0.03	-0.01	Coeff. of Price-Related Bias (PRB)	-0.23	-0.20
Lower PRB Confidence Interval	-0.07	-0.21	Lower PRB Confidence Interval	-0.28	-0.46
Upper PRB Confidence Interval	0.01	0.19	Upper PRB Confidence Interval	-0.18	0.07
Average Sale Price	145,221	279,105	Average Sale Price	137,684	159,300
Average Appraised Value	128,375	260,705	Average Appraised Value	121,990	192,268

031 : GEARY			032 : GOVE		S-3
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	299	8	Original Number of Sales	26	5
Trimmed Outliers	36	0	Trimmed Outliers	0	0
Number of Ratios: Outliers Removed	263	8	Number of Ratios: Outliers Removed	26	5
Minimum Ratio	22.7	74.0	Minimum Ratio	35.6	31.7
Maximum Ratio	472.4	147.5	Maximum Ratio	136.3	115.9
Minimum Sale Price	10,000	25,000	Minimum Sale Price	5,000	14,000
Maximum Sale Price	477,000	250,000	Maximum Sale Price	200,000	184,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	99.8	100.9	Median Ratio	91.5	80.1
Lower Median Confidence Interval	97.8	74.9	Lower Median Confidence Interval	79.5	36.3
Upper Median Confidence Interval	101.8	137.4	Upper Median Confidence Interval	105.0	111.6
Broadened Median Ratio	99.9	99.5	Broadened Median Ratio	92.0	76.7
Coefficient of Dispersion (COD)	10.1	19.5	Coefficient of Dispersion (COD)	23.6	23.5
Lower COD Confidence Interval	9.1	10.4	Lower COD Confidence Interval	17.8	5.0
Upper COD Confidence Interval	11.3	32.1	Upper COD Confidence Interval	32.7	48.4
Value Weighted COD	9.0	11.1	Value Weighted COD	23.0	44.5
Coefficient of Concentration @10%	53.2	37.5	Coefficient of Concentration @10%	23.1	40.0
Coefficient of Concentration @15%	68.2	50.0	Coefficient of Concentration @15%	42.3	60.0
Coefficient of Concentration @20%	75.3	50.0	Coefficient of Concentration @20%	50.0	60.0
Coefficient of Concentration @50%	91.6	100.0	Coefficient of Concentration @50%	96.2	80.0
Coefficient of Concentration @100%	95.7	100.0	Coefficient of Concentration @100%	100.0	100.0
Coefficient of Interquartile Deviation	9.2	25.7	Coefficient of Interquartile Deviation	22.4	29.4
Median Percent Deviation	8.7	19.9	Median Percent Deviation	19.1	12.6
Lower Quartile (25th Percentile)	92.2	77.8	Lower Quartile (25th Percentile)	75.0	50.9
Upper Quartile	110.6	129.8	Upper Quartile	116.0	98.0
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	RejectK	Normality Test	AcceptK	AcceptW
Relative Skewness	0.49	0.53	Relative Skewness	-0.12	-0.19
Relative Kurtosis	3.47	2.03	Relative Kurtosis	2.29	2.42
Arithmetic Mean Ratio	99.8	103.6	Arithmetic Mean Ratio	92.7	75.6
Weighted Mean Ratio	98.4	98.3	Weighted Mean Ratio	80.5	48.1
Geometric Mean Ratio	98.9	100.7	Geometric Mean Ratio	88.3	69.8
Harmonic Mean Ratio	98.1	98.0	Harmonic Mean Ratio	83.4	63.0
Standard Deviation	13.3	27.0	Standard Deviation	27.4	30.1
Coefficient of Variation (COV)	13.3	26.0	Coefficient of Variation (COV)	29.5	39.8
Price-Related Differential (PRD)	1.01	1.05	Price-Related Differential (PRD)	1.15	1.57
Lower PRD Confidence Interval	1.01	0.96	Lower PRD Confidence Interval	1.06	1.02
Upper PRD Confidence interval	1.02	1.14	Upper PRD Confidence interval	1.33	1.78
Coeff. of Price-Related Bias (PRB)	-0.21	-0.08	Coeff. of Price-Related Bias (PRB)	-0.13	-0.28
Lower PRB Confidence Interval	-0.26	-0.33	Lower PRB Confidence Interval	-0.22	-0.53
Upper PRB Confidence Interval	-0.15	0.17	Upper PRB Confidence Interval	-0.03	-0.04
Average Sale Price	164,016	87,200	Average Sale Price	66,142	51,160
Average Appraised Value	161,456	77,604	Average Appraised Value	53,273	32,552

033 : GRAHAM		S-6	034 : GRANT		S-5
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	18	7	Original Number of Sales	43	8
Trimmed Outliers	0	1	Trimmed Outliers	3	0
Number of Ratios: Outliers Removed	18	6	Number of Ratios: Outliers Removed	40	8
Minimum Ratio	63.8	60.7	Minimum Ratio	43.0	81.2
Maximum Ratio	138.2	487.3	Maximum Ratio	153.2	124.8
Minimum Sale Price	18,000	1,500	Minimum Sale Price	23,000	40,000
Maximum Sale Price	125,000	75,000	Maximum Sale Price	243,000	681,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	96.9	94.2	Median Ratio	100.2	92.4
Lower Median Confidence Interval	88.9	61.0	Lower Median Confidence Interval	97.0	84.5
Upper Median Confidence Interval	106.6	127.9	Upper Median Confidence Interval	102.3	114.7
Broadened Median Ratio	96.9	93.5	Broadened Median Ratio	99.8	91.9
Coefficient of Dispersion (COD)	15.1	21.3	Coefficient of Dispersion (COD)	9.3	11.9
Lower COD Confidence Interval	10.0	10.4	Lower COD Confidence Interval	7.0	6.0
Upper COD Confidence Interval	23.3	36.6	Upper COD Confidence Interval	12.2	19.2
Value Weighted COD	13.6	23.8	Value Weighted COD	8.9	7.6
Coefficient of Concentration @10%	38.9	42.9	Coefficient of Concentration @10%	55.8	62.5
Coefficient of Concentration @15%	55.6	42.9	Coefficient of Concentration @15%	72.1	75.0
Coefficient of Concentration @20%	66.7	42.9	Coefficient of Concentration @20%	81.4	75.0
Coefficient of Concentration @50%	100.0	85.7	Coefficient of Concentration @50%	95.3	100.0
Coefficient of Concentration @100%	100.0	85.7	Coefficient of Concentration @100%	100.0	100.0
Coefficient of Interquartile Deviation	14.6	35.5	Coefficient of Interquartile Deviation	7.9	14.0
Median Percent Deviation	12.0	35.3	Median Percent Deviation	6.6	8.4
Lower Quartile (25th Percentile)	80.4	61.0	Lower Quartile (25th Percentile)	93.7	84.5
Upper Quartile	108.7	127.9	Upper Quartile	109.6	110.3
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	AcceptK	AcceptW	Normality Test	RejectK	RejectK
Relative Skewness	0.00	0.29	Relative Skewness	0.27	0.89
Relative Kurtosis	2.63	2.03	Relative Kurtosis	3.15	2.39
Arithmetic Mean Ratio	95.8	88.4	Arithmetic Mean Ratio	100.3	96.5
Weighted Mean Ratio	97.9	85.3	Weighted Mean Ratio	99.4	93.6
Geometric Mean Ratio	93.7	85.3	Geometric Mean Ratio	99.5	95.5
Harmonic Mean Ratio	91.6	82.3	Harmonic Mean Ratio	98.7	94.5
Standard Deviation	19.9	25.6	Standard Deviation	12.6	15.5
Coefficient of Variation (COV)	20.8	28.9	Coefficient of Variation (COV)	12.6	16.1
Price-Related Differential (PRD)	0.98	1.04	Price-Related Differential (PRD)	1.01	1.03
Lower PRD Confidence Interval	0.94	0.91	Lower PRD Confidence Interval	0.99	0.97
Upper PRD Confidence interval	1.01	1.14	Upper PRD Confidence interval	1.03	1.10
Coeff. of Price-Related Bias (PRB)	0.09	-0.85	Coeff. of Price-Related Bias (PRB)	-0.03	-0.04
Lower PRB Confidence Interval	-0.03	-1.87	Lower PRB Confidence Interval	-0.10	-0.16
Upper PRB Confidence Interval	0.22	0.18	Upper PRB Confidence Interval	0.03	0.08
Average Sale Price	55,717	33,167	Average Sale Price	118,828	268,451
Average Appraised Value	54,572	28,305	Average Appraised Value	118,141	250,000

035 : GRAY		S-5	036 : GREELEY		S-4
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	42	8	Original Number of Sales	14	4
Trimmed Outliers	5	0	Trimmed Outliers	1	0
Number of Ratios: Outliers Removed	37	8	Number of Ratios: Outliers Removed	13	4
Minimum Ratio	73.1	58.2	Minimum Ratio	62.2	85.5
Maximum Ratio	236.5	139.2	Maximum Ratio	295.4	145.6
Minimum Sale Price	7,850	21,000	Minimum Sale Price	10,000	7,500
Maximum Sale Price	207,000	580,000	Maximum Sale Price	165,000	1,185,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	92.2	101.6	Median Ratio	105.8	113.4
Lower Median Confidence Interval	86.0	63.1	Lower Median Confidence Interval	79.4	85.9
Upper Median Confidence Interval	99.1	117.1	Upper Median Confidence Interval	110.4	144.9
Broadened Median Ratio	92.0	100.8	Broadened Median Ratio	100.9	114.1
Coefficient of Dispersion (COD)	11.4	21.3	Coefficient of Dispersion (COD)	16.1	22.0
Lower COD Confidence Interval	9.0	11.9	Lower COD Confidence Interval	9.4	2.3
Upper COD Confidence Interval	16.0	39.9	Upper COD Confidence Interval	25.3	23.5
Value Weighted COD	9.5	23.6	Value Weighted COD	14.8	17.8
Coefficient of Concentration @10%	47.6	25.0	Coefficient of Concentration @10%	42.9	0.0
Coefficient of Concentration @15%	66.7	37.5	Coefficient of Concentration @15%	42.9	0.0
Coefficient of Concentration @20%	76.2	62.5	Coefficient of Concentration @20%	50.0	50.0
Coefficient of Concentration @50%	85.7	100.0	Coefficient of Concentration @50%	92.9	100.0
Coefficient of Concentration @100%	95.2	100.0	Coefficient of Concentration @100%	92.9	100.0
Coefficient of Interquartile Deviation	12.7	23.2	Coefficient of Interquartile Deviation	15.5	24.3
Median Percent Deviation	10.3	15.5	Median Percent Deviation	18.6	21.1
Lower Quartile (25th Percentile)	83.9	68.7	Lower Quartile (25th Percentile)	77.9	87.5
Upper Quartile	107.4	116.0	Upper Quartile	110.6	142.5
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	AcceptK	Normality Test	AcceptK	AcceptW
Relative Skewness	1.22	-0.12	Relative Skewness	-0.14	0.05
Relative Kurtosis	4.83	1.99	Relative Kurtosis	1.87	1.16
Arithmetic Mean Ratio	92.5	97.4	Arithmetic Mean Ratio	95.2	114.5
Weighted Mean Ratio	90.5	82.5	Weighted Mean Ratio	96.1	132.0
Geometric Mean Ratio	91.6	93.7	Geometric Mean Ratio	93.1	111.6
Harmonic Mean Ratio	90.8	89.8	Harmonic Mean Ratio	91.0	108.8
Standard Deviation	13.7	27.6	Standard Deviation	20.0	29.4
Coefficient of Variation (COV)	14.9	28.3	Coefficient of Variation (COV)	21.0	25.7
Price-Related Differential (PRD)	1.02	1.18	Price-Related Differential (PRD)	0.99	0.87
Lower PRD Confidence Interval	1.00	1.04	Lower PRD Confidence Interval	0.95	0.77
Upper PRD Confidence interval	1.06	1.40	Upper PRD Confidence interval	1.05	1.11
Coeff. of Price-Related Bias (PRB)	-0.15	-0.07	Coeff. of Price-Related Bias (PRB)	-0.27	0.00
Lower PRB Confidence Interval	-0.27	-0.21	Lower PRB Confidence Interval	-0.62	0.00
Upper PRB Confidence Interval	-0.04	0.07	Upper PRB Confidence Interval	0.08	0.00
Average Sale Price	106,647	180,802	Average Sale Price	74,208	257,300
Average Appraised Value	96,561	130,548	Average Appraised Value	71,304	335,826

037 : GREENWOOD		S-5	038 : HAMILTON		S-6
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	45	7	Original Number of Sales	17	6
Trimmed Outliers	2	0	Trimmed Outliers	2	0
Number of Ratios: Outliers Removed	43	7	Number of Ratios: Outliers Removed	15	6
Minimum Ratio	22.9	86.4	Minimum Ratio	30.7	58.8
Maximum Ratio	912.0	118.2	Maximum Ratio	211.6	443.6
Minimum Sale Price	500	3,000	Minimum Sale Price	25,000	4,500
Maximum Sale Price	204,000	40,000	Maximum Sale Price	162,000	275,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	101.4	108.2	Median Ratio	94.1	107.8
Lower Median Confidence Interval	89.3	90.7	Lower Median Confidence Interval	84.6	71.3
Upper Median Confidence Interval	109.4	111.3	Upper Median Confidence Interval	104.6	323.3
Broadened Median Ratio	101.4	107.4	Broadened Median Ratio	97.2	119.7
Coefficient of Dispersion (COD)	25.7	7.6	Coefficient of Dispersion (COD)	14.3	80.8
Lower COD Confidence Interval	19.8	3.3	Lower COD Confidence Interval	9.9	37.5
Upper COD Confidence Interval	34.7	12.9	Upper COD Confidence Interval	23.7	218.3
Value Weighted COD	24.3	7.6	Value Weighted COD	15.6	26.1
Coefficient of Concentration @10%	31.1	71.4	Coefficient of Concentration @10%	35.3	33.3
Coefficient of Concentration @15%	44.4	71.4	Coefficient of Concentration @15%	58.8	33.3
Coefficient of Concentration @20%	46.7	85.7	Coefficient of Concentration @20%	64.7	33.3
Coefficient of Concentration @50%	80.0	100.0	Coefficient of Concentration @50%	88.2	66.7
Coefficient of Concentration @100%	97.8	100.0	Coefficient of Concentration @100%	94.1	83.3
Coefficient of Interquartile Deviation	24.3	9.5	Coefficient of Interquartile Deviation	12.3	86.1
Median Percent Deviation	22.3	3.4	Median Percent Deviation	11.1	33.8
Lower Quartile (25th Percentile)	77.0	90.7	Lower Quartile (25th Percentile)	84.1	77.6
Upper Quartile	126.4	111.3	Upper Quartile	107.3	263.1
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	AcceptW	Normality Test	RejectK	RejectW
Relative Skewness	0.37	-0.55	Relative Skewness	0.81	1.38
Relative Kurtosis	3.40	1.95	Relative Kurtosis	3.19	3.37
Arithmetic Mean Ratio	100.5	104.1	Arithmetic Mean Ratio	98.9	167.5
Weighted Mean Ratio	90.9	102.4	Weighted Mean Ratio	96.4	102.8
Geometric Mean Ratio	94.1	103.6	Geometric Mean Ratio	97.4	131.3
Harmonic Mean Ratio	86.1	103.0	Harmonic Mean Ratio	96.0	109.5
Standard Deviation	34.2	11.5	Standard Deviation	18.4	143.9
Coefficient of Variation (COV)	34.1	11.0	Coefficient of Variation (COV)	18.7	86.0
Price-Related Differential (PRD)	1.11	1.02	Price-Related Differential (PRD)	1.03	1.63
Lower PRD Confidence Interval	1.03	0.98	Lower PRD Confidence Interval	0.99	1.05
Upper PRD Confidence interval	1.25	1.07	Upper PRD Confidence interval	1.07	2.93
Coeff. of Price-Related Bias (PRB)	-0.33	-0.01	Coeff. of Price-Related Bias (PRB)	-0.03	-0.61
Lower PRB Confidence Interval	-0.56	-0.11	Lower PRB Confidence Interval	-0.35	-1.52
Upper PRB Confidence Interval	-0.11	0.08	Upper PRB Confidence Interval	0.30	0.31
Average Sale Price	56,634	16,260	Average Sale Price	86,397	81,083
Average Appraised Value	51,471	16,464	Average Appraised Value	83,318	83,345

039 : HARPER		S-5	040 : HARVEY		
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	37	7	Original Number of Sales	468	14
Trimmed Outliers	2	1	Trimmed Outliers	62	0
Number of Ratios: Outliers Removed	35	6	Number of Ratios: Outliers Removed	406	14
Minimum Ratio	49.5	59.8	Minimum Ratio	33.9	41.1
Maximum Ratio	370.0	280.1	Maximum Ratio	344.7	139.5
Minimum Sale Price	5,000	5,000	Minimum Sale Price	3,500	40,000
Maximum Sale Price	285,000	60,000	Maximum Sale Price	500,000	1,455,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	105.9	122.6	Median Ratio	97.7	89.2
Lower Median Confidence Interval	98.3	86.2	Lower Median Confidence Interval	96.7	70.4
Upper Median Confidence Interval	138.5	140.8	Upper Median Confidence Interval	99.0	101.7
Broadened Median Ratio	106.8	117.3	Broadened Median Ratio	97.7	89.1
Coefficient of Dispersion (COD)	26.3	23.6	Coefficient of Dispersion (COD)	11.3	24.0
Lower COD Confidence Interval	20.0	13.6	Lower COD Confidence Interval	10.4	15.9
Upper COD Confidence Interval	36.2	43.0	Upper COD Confidence Interval	12.4	38.9
Value Weighted COD	21.7	21.6	Value Weighted COD	10.0	27.8
Coefficient of Concentration @10%	29.7	28.6	Coefficient of Concentration @10%	50.6	21.4
Coefficient of Concentration @15%	40.5	42.9	Coefficient of Concentration @15%	63.7	35.7
Coefficient of Concentration @20%	51.4	42.9	Coefficient of Concentration @20%	71.4	57.1
Coefficient of Concentration @50%	75.7	71.4	Coefficient of Concentration @50%	90.2	85.7
Coefficient of Concentration @100%	91.9	85.7	Coefficient of Concentration @100%	96.4	100.0
Coefficient of Interquartile Deviation	27.9	22.3	Coefficient of Interquartile Deviation	10.4	19.6
Median Percent Deviation	18.3	21.6	Median Percent Deviation	9.9	15.9
Lower Quartile (25th Percentile)	91.1	86.2	Lower Quartile (25th Percentile)	89.7	67.9
Upper Quartile	150.3	140.8	Upper Quartile	110.2	102.8
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	AcceptW	Normality Test	RejectK	AcceptK
Relative Skewness	0.96	-0.34	Relative Skewness	0.38	0.21
Relative Kurtosis	3.84	1.76	Relative Kurtosis	3.63	2.55
Arithmetic Mean Ratio	116.2	106.5	Arithmetic Mean Ratio	98.2	88.7
Weighted Mean Ratio	100.1	106.1	Weighted Mean Ratio	97.1	71.0
Geometric Mean Ratio	110.7	102.2	Geometric Mean Ratio	97.1	84.6
Harmonic Mean Ratio	105.6	97.6	Harmonic Mean Ratio	96.0	80.3
Standard Deviation	37.7	31.2	Standard Deviation	14.9	27.1
Coefficient of Variation (COV)	32.5	29.3	Coefficient of Variation (COV)	15.1	30.6
Price-Related Differential (PRD)	1.16	1.00	Price-Related Differential (PRD)	1.01	1.25
Lower PRD Confidence Interval	1.09	0.87	Lower PRD Confidence Interval	1.00	1.05
Upper PRD Confidence interval	1.27	1.20	Upper PRD Confidence interval	1.02	1.64
Coeff. of Price-Related Bias (PRB)	-0.28	0.14	Coeff. of Price-Related Bias (PRB)	-0.12	-0.10
Lower PRB Confidence Interval	-0.42	-0.29	Lower PRB Confidence Interval	-0.16	-0.21
Upper PRB Confidence Interval	-0.14	0.58	Upper PRB Confidence Interval	-0.09	0.01
Average Sale Price	80,364	104,944	Average Sale Price	127,985	257,936
Average Appraised Value	80,411	112,832	Average Appraised Value	124,333	250,071

041 : HASKELL		S-2	042 : HODGEMAN		S-3
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	29	6	Original Number of Sales	13	6
Trimmed Outliers	1	0	Trimmed Outliers	1	0
Number of Ratios: Outliers Removed	28	6	Number of Ratios: Outliers Removed	12	6
Minimum Ratio	30.6	79.7	Minimum Ratio	49.1	49.9
Maximum Ratio	220.6	146.3	Maximum Ratio	180.8	87.4
Minimum Sale Price	12,500	18,500	Minimum Sale Price	9,500	8,000
Maximum Sale Price	310,000	84,500	Maximum Sale Price	118,000	88,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	94.5	118.9	Median Ratio	97.4	72.3
Lower Median Confidence Interval	80.4	81.9	Lower Median Confidence Interval	92.5	52.1
Upper Median Confidence Interval	105.8	142.9	Upper Median Confidence Interval	125.4	83.2
Broadened Median Ratio	94.6	116.6	Broadened Median Ratio	99.8	70.4
Coefficient of Dispersion (COD)	26.1	20.2	Coefficient of Dispersion (COD)	15.0	15.5
Lower COD Confidence Interval	18.8	11.7	Lower COD Confidence Interval	8.8	7.6
Upper COD Confidence Interval	40.0	29.3	Upper COD Confidence Interval	27.2	26.5
Value Weighted COD	21.6	18.7	Value Weighted COD	9.7	23.0
Coefficient of Concentration @10%	27.6	33.3	Coefficient of Concentration @10%	53.8	50.0
Coefficient of Concentration @15%	44.8	33.3	Coefficient of Concentration @15%	53.8	50.0
Coefficient of Concentration @20%	51.7	50.0	Coefficient of Concentration @20%	61.5	50.0
Coefficient of Concentration @50%	79.3	100.0	Coefficient of Concentration @50%	92.3	100.0
Coefficient of Concentration @100%	96.6	100.0	Coefficient of Concentration @100%	100.0	100.0
Coefficient of Interquartile Deviation	22.6	24.4	Coefficient of Interquartile Deviation	17.3	19.3
Median Percent Deviation	15.8	20.1	Median Percent Deviation	8.3	15.1
Lower Quartile (25th Percentile)	65.6	83.0	Lower Quartile (25th Percentile)	92.4	53.2
Upper Quartile	108.3	141.2	Upper Quartile	126.1	81.1
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	AcceptK	AcceptW	Normality Test	RejectK	AcceptW
Relative Skewness	0.11	-0.19	Relative Skewness	-0.72	-0.24
Relative Kurtosis	2.95	1.38	Relative Kurtosis	3.72	1.67
Arithmetic Mean Ratio	90.4	114.6	Arithmetic Mean Ratio	100.2	69.2
Weighted Mean Ratio	86.2	115.4	Weighted Mean Ratio	96.8	61.0
Geometric Mean Ratio	84.3	111.5	Geometric Mean Ratio	97.6	67.9
Harmonic Mean Ratio	77.2	108.3	Harmonic Mean Ratio	94.4	66.5
Standard Deviation	31.7	28.5	Standard Deviation	21.7	14.5
Coefficient of Variation (COV)	35.0	24.8	Coefficient of Variation (COV)	21.7	21.0
Price-Related Differential (PRD)	1.05	0.99	Price-Related Differential (PRD)	1.04	1.13
Lower PRD Confidence Interval	0.98	0.94	Lower PRD Confidence Interval	0.98	0.99
Upper PRD Confidence interval	1.15	1.08	Upper PRD Confidence interval	1.09	1.20
Coeff. of Price-Related Bias (PRB)	-0.06	0.04	Coeff. of Price-Related Bias (PRB)	-0.12	-0.10
Lower PRB Confidence Interval	-0.22	-0.37	Lower PRB Confidence Interval	-0.31	-0.32
Upper PRB Confidence Interval	0.10	0.46	Upper PRB Confidence Interval	0.08	0.13
Average Sale Price	110,918	69,375	Average Sale Price	50,200	28,000
Average Appraised Value	95,649	64,473	Average Appraised Value	48,598	16,601

043 : JACKSON			044 : JEFFERSON		S-2
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	77	4	Original Number of Sales	181	5
Trimmed Outliers	2	0	Trimmed Outliers	16	0
Number of Ratios: Outliers Removed	75	4	Number of Ratios: Outliers Removed	165	5
Minimum Ratio	57.5	57.9	Minimum Ratio	36.4	67.0
Maximum Ratio	159.6	133.9	Maximum Ratio	423.1	103.9
Minimum Sale Price	14,000	17,500	Minimum Sale Price	6,000	26,690
Maximum Sale Price	340,000	150,000	Maximum Sale Price	415,000	122,500
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	95.4	100.3	Median Ratio	90.3	98.0
Lower Median Confidence Interval	93.6	59.9	Lower Median Confidence Interval	87.3	67.8
Upper Median Confidence Interval	98.0	132.3	Upper Median Confidence Interval	93.0	103.8
Broadened Median Ratio	95.3	98.8	Broadened Median Ratio	90.2	91.7
Coefficient of Dispersion (COD)	13.7	19.3	Coefficient of Dispersion (COD)	14.3	13.5
Lower COD Confidence Interval	11.3	8.6	Lower COD Confidence Interval	12.5	2.1
Upper COD Confidence Interval	16.6	37.4	Upper COD Confidence Interval	16.3	19.7
Value Weighted COD	12.2	25.2	Value Weighted COD	13.7	20.2
Coefficient of Concentration @10%	45.5	50.0	Coefficient of Concentration @10%	41.4	60.0
Coefficient of Concentration @15%	62.3	50.0	Coefficient of Concentration @15%	57.5	60.0
Coefficient of Concentration @20%	68.8	50.0	Coefficient of Concentration @20%	70.7	60.0
Coefficient of Concentration @50%	97.4	100.0	Coefficient of Concentration @50%	90.6	100.0
Coefficient of Concentration @100%	100.0	100.0	Coefficient of Concentration @100%	96.1	100.0
Coefficient of Interquartile Deviation	11.5	28.6	Coefficient of Interquartile Deviation	12.5	16.8
Median Percent Deviation	11.5	17.1	Median Percent Deviation	12.4	6.1
Lower Quartile (25th Percentile)	83.3	68.3	Lower Quartile (25th Percentile)	79.1	70.5
Upper Quartile	105.3	125.7	Upper Quartile	101.8	103.5
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	AcceptW	Normality Test	RejectK	AcceptW
Relative Skewness	0.16	-0.24	Relative Skewness	0.20	-0.42
Relative Kurtosis	2.76	2.01	Relative Kurtosis	3.37	1.32
Arithmetic Mean Ratio	95.3	98.1	Arithmetic Mean Ratio	89.5	89.2
Weighted Mean Ratio	93.2	96.4	Weighted Mean Ratio	86.3	80.3
Geometric Mean Ratio	93.7	94.0	Geometric Mean Ratio	87.9	87.7
Harmonic Mean Ratio	92.2	89.5	Harmonic Mean Ratio	86.2	86.2
Standard Deviation	17.1	31.2	Standard Deviation	16.7	17.4
Coefficient of Variation (COV)	18.0	31.8	Coefficient of Variation (COV)	18.7	19.5
Price-Related Differential (PRD)	1.02	1.02	Price-Related Differential (PRD)	1.04	1.11
Lower PRD Confidence Interval	1.00	0.95	Lower PRD Confidence Interval	1.02	1.01
Upper PRD Confidence interval	1.05	1.12	Upper PRD Confidence interval	1.06	1.14
Coeff. of Price-Related Bias (PRB)	-0.04	0.00	Coeff. of Price-Related Bias (PRB)	-0.32	-0.21
Lower PRB Confidence Interval	-0.10	0.00	Lower PRB Confidence Interval	-0.41	-0.31
Upper PRB Confidence Interval	0.01	0.00	Upper PRB Confidence Interval	-0.23	-0.12
Average Sale Price	117,133	89,773	Average Sale Price	150,394	87,674
Average Appraised Value	109,201	68,668	Average Appraised Value	129,791	74,264

045 : JEWELL		S-3	046 : JOHNSON		
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	24	3	Original Number of Sales	310	127
Trimmed Outliers	1	0	Trimmed Outliers	15	6
Number of Ratios: Outliers Removed	23	3	Number of Ratios: Outliers Removed	295	121
Minimum Ratio	50.0	50.5	Minimum Ratio	53.6	31.7
Maximum Ratio	389.1	122.1	Maximum Ratio	257.0	389.9
Minimum Sale Price	2,000	7,500	Minimum Sale Price	50,000	45,000
Maximum Sale Price	87,500	14,000	Maximum Sale Price	1,995,000	18,080,920
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	99.5	120.6	Median Ratio	94.0	86.7
Lower Median Confidence Interval	81.7	55.2	Lower Median Confidence Interval	93.0	82.4
Upper Median Confidence Interval	110.9	122.0	Upper Median Confidence Interval	95.6	93.3
Broadened Median Ratio	100.1	97.7	Broadened Median Ratio	94.0	87.0
Coefficient of Dispersion (COD)	22.8	19.8	Coefficient of Dispersion (COD)	7.8	22.9
Lower COD Confidence Interval	16.4	0.4	Lower COD Confidence Interval	7.2	19.9
Upper COD Confidence Interval	33.4	46.2	Upper COD Confidence Interval	8.6	26.9
Value Weighted COD	17.8	14.9	Value Weighted COD	7.7	22.0
Coefficient of Concentration @10%	33.3	66.7	Coefficient of Concentration @10%	66.5	33.1
Coefficient of Concentration @15%	37.5	66.7	Coefficient of Concentration @15%	80.6	43.3
Coefficient of Concentration @20%	41.7	66.7	Coefficient of Concentration @20%	91.0	53.5
Coefficient of Concentration @50%	95.8	66.7	Coefficient of Concentration @50%	98.1	85.8
Coefficient of Concentration @100%	95.8	100.0	Coefficient of Concentration @100%	99.4	95.3
Coefficient of Interquartile Deviation	26.1	29.7	Coefficient of Interquartile Deviation	6.6	20.6
Median Percent Deviation	23.4	1.3	Median Percent Deviation	6.7	17.4
Lower Quartile (25th Percentile)	70.4	50.5	Lower Quartile (25th Percentile)	87.2	72.9
Upper Quartile	122.4	122.1	Upper Quartile	99.7	108.6
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	AcceptK	RejectW	Normality Test	RejectK	RejectK
Relative Skewness	0.06	-0.71	Relative Skewness	-0.15	0.46
Relative Kurtosis	2.06	1.50	Relative Kurtosis	2.79	3.26
Arithmetic Mean Ratio	96.8	97.7	Arithmetic Mean Ratio	93.2	89.1
Weighted Mean Ratio	95.4	104.0	Weighted Mean Ratio	93.7	85.4
Geometric Mean Ratio	92.6	90.6	Geometric Mean Ratio	92.7	85.4
Harmonic Mean Ratio	88.3	82.7	Harmonic Mean Ratio	92.3	81.6
Standard Deviation	28.2	40.9	Standard Deviation	9.2	25.3
Coefficient of Variation (COV)	29.2	41.8	Coefficient of Variation (COV)	9.9	28.4
Price-Related Differential (PRD)	1.01	0.94	Price-Related Differential (PRD)	0.99	1.04
Lower PRD Confidence Interval	0.96	0.92	Lower PRD Confidence Interval	0.99	0.99
Upper PRD Confidence interval	1.09	1.00	Upper PRD Confidence interval	1.00	1.10
Coeff. of Price-Related Bias (PRB)	-0.08	0.00	Coeff. of Price-Related Bias (PRB)	-0.02	-0.01
Lower PRB Confidence Interval	-0.29	0.00	Lower PRB Confidence Interval	-0.05	-0.06
Upper PRB Confidence Interval	0.14	0.00	Upper PRB Confidence Interval	0.01	0.04
Average Sale Price	31,376	8,167	Average Sale Price	291,297	1,751,623
Average Appraised Value	29,936	9,917	Average Appraised Value	273,071	1,396,006

047 : KEARNY		S-6	048 : KINGMAN		S-5
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	32	9	Original Number of Sales	54	9
Trimmed Outliers	2	1	Trimmed Outliers	7	0
Number of Ratios: Outliers Removed	30	8	Number of Ratios: Outliers Removed	47	9
Minimum Ratio	9.2	53.6	Minimum Ratio	29.6	68.3
Maximum Ratio	223.0	198.6	Maximum Ratio	276.7	174.0
Minimum Sale Price	20,000	5,000	Minimum Sale Price	10,000	24,000
Maximum Sale Price	380,000	197,690	Maximum Sale Price	280,000	379,500
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	85.1	86.2	Median Ratio	102.4	102.1
Lower Median Confidence Interval	75.4	56.2	Lower Median Confidence Interval	96.7	97.9
Upper Median Confidence Interval	93.9	104.5	Upper Median Confidence Interval	113.9	141.3
Broadened Median Ratio	84.5	83.3	Broadened Median Ratio	102.2	102.4
Coefficient of Dispersion (COD)	15.2	18.8	Coefficient of Dispersion (COD)	15.9	19.7
Lower COD Confidence Interval	11.7	10.7	Lower COD Confidence Interval	12.9	10.0
Upper COD Confidence Interval	20.5	29.8	Upper COD Confidence Interval	20.6	36.4
Value Weighted COD	15.2	20.0	Value Weighted COD	15.0	40.1
Coefficient of Concentration @10%	31.3	33.3	Coefficient of Concentration @10%	31.5	55.6
Coefficient of Concentration @15%	50.0	44.4	Coefficient of Concentration @15%	51.9	55.6
Coefficient of Concentration @20%	68.8	44.4	Coefficient of Concentration @20%	64.8	55.6
Coefficient of Concentration @50%	90.6	88.9	Coefficient of Concentration @50%	85.2	88.9
Coefficient of Concentration @100%	96.9	88.9	Coefficient of Concentration @100%	96.3	100.0
Coefficient of Interquartile Deviation	15.0	21.9	Coefficient of Interquartile Deviation	14.2	17.6
Median Percent Deviation	14.8	21.1	Median Percent Deviation	14.6	4.1
Lower Quartile (25th Percentile)	70.8	59.1	Lower Quartile (25th Percentile)	89.9	98.0
Upper Quartile	96.2	96.9	Upper Quartile	118.9	133.9
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	AcceptK	Normality Test	RejectK	RejectK
Relative Skewness	0.55	0.00	Relative Skewness	0.19	0.75
Relative Kurtosis	3.19	1.70	Relative Kurtosis	3.30	3.03
Arithmetic Mean Ratio	85.0	76.9	Arithmetic Mean Ratio	104.1	112.6
Weighted Mean Ratio	80.2	83.0	Weighted Mean Ratio	102.6	134.8
Geometric Mean Ratio	83.5	75.0	Geometric Mean Ratio	102.0	109.1
Harmonic Mean Ratio	82.1	73.0	Harmonic Mean Ratio	99.8	105.8
Standard Deviation	16.4	18.2	Standard Deviation	20.8	30.6
Coefficient of Variation (COV)	19.3	23.7	Coefficient of Variation (COV)	19.9	27.2
Price-Related Differential (PRD)	1.06	0.93	Price-Related Differential (PRD)	1.02	0.84
Lower PRD Confidence Interval	1.02	0.81	Lower PRD Confidence Interval	0.99	0.77
Upper PRD Confidence interval	1.13	1.04	Upper PRD Confidence interval	1.05	1.04
Coeff. of Price-Related Bias (PRB)	-0.13	0.13	Coeff. of Price-Related Bias (PRB)	-0.02	0.15
Lower PRB Confidence Interval	-0.28	-0.09	Lower PRB Confidence Interval	-0.12	-0.01
Upper PRB Confidence Interval	0.03	0.35	Upper PRB Confidence Interval	0.08	0.30
Average Sale Price	146,883	77,282	Average Sale Price	101,412	121,020
Average Appraised Value	117,781	87,253	Average Appraised Value	104,004	181,752

049 : KIOWA		S-3	050 : LABETTE		
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	16	3	Original Number of Sales	133	5
Trimmed Outliers	0	0	Trimmed Outliers	11	0
Number of Ratios: Outliers Removed	16	3	Number of Ratios: Outliers Removed	122	5
Minimum Ratio	44.4	68.3	Minimum Ratio	28.4	55.2
Maximum Ratio	175.9	90.8	Maximum Ratio	309.3	164.5
Minimum Sale Price	16,000	50,000	Minimum Sale Price	1,500	13,000
Maximum Sale Price	150,500	2,100,000	Maximum Sale Price	239,900	65,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	93.4	88.7	Median Ratio	99.5	105.2
Lower Median Confidence Interval	86.8	69.7	Lower Median Confidence Interval	95.9	57.3
Upper Median Confidence Interval	119.8	90.7	Upper Median Confidence Interval	104.3	163.0
Broadened Median Ratio	93.9	82.6	Broadened Median Ratio	99.4	110.0
Coefficient of Dispersion (COD)	22.2	8.5	Coefficient of Dispersion (COD)	22.7	35.7
Lower COD Confidence Interval	14.8	0.8	Lower COD Confidence Interval	19.3	10.4
Upper COD Confidence Interval	37.0	9.9	Upper COD Confidence Interval	27.0	55.0
Value Weighted COD	17.3	21.4	Value Weighted COD	17.0	27.6
Coefficient of Concentration @10%	43.8	66.7	Coefficient of Concentration @10%	30.8	20.0
Coefficient of Concentration @15%	56.3	66.7	Coefficient of Concentration @15%	42.9	20.0
Coefficient of Concentration @20%	56.3	66.7	Coefficient of Concentration @20%	59.4	20.0
Coefficient of Concentration @50%	87.5	100.0	Coefficient of Concentration @50%	80.5	80.0
Coefficient of Concentration @100%	100.0	100.0	Coefficient of Concentration @100%	92.5	100.0
Coefficient of Interquartile Deviation	21.0	12.7	Coefficient of Interquartile Deviation	22.4	44.7
Median Percent Deviation	12.8	2.4	Median Percent Deviation	16.0	44.3
Lower Quartile (25th Percentile)	85.8	68.3	Lower Quartile (25th Percentile)	84.4	64.1
Upper Quartile	125.0	90.8	Upper Quartile	129.0	158.1
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	AcceptW	Normality Test	RejectK	AcceptW
Relative Skewness	0.68	-0.68	Relative Skewness	0.56	0.05
Relative Kurtosis	3.93	1.50	Relative Kurtosis	3.68	1.37
Arithmetic Mean Ratio	101.0	82.6	Arithmetic Mean Ratio	101.6	109.9
Weighted Mean Ratio	96.9	69.9	Weighted Mean Ratio	92.6	112.1
Geometric Mean Ratio	96.8	81.9	Geometric Mean Ratio	96.8	101.2
Harmonic Mean Ratio	92.4	81.2	Harmonic Mean Ratio	91.4	92.6
Standard Deviation	29.9	12.4	Standard Deviation	30.7	47.7
Coefficient of Variation (COV)	29.6	15.0	Coefficient of Variation (COV)	30.2	43.4
Price-Related Differential (PRD)	1.04	1.18	Price-Related Differential (PRD)	1.10	0.98
Lower PRD Confidence Interval	0.99	1.00	Lower PRD Confidence Interval	1.06	0.87
Upper PRD Confidence interval	1.10	1.18	Upper PRD Confidence interval	1.14	1.14
Coeff. of Price-Related Bias (PRB)	-0.02	0.00	Coeff. of Price-Related Bias (PRB)	-0.17	0.13
Lower PRB Confidence Interval	-0.23	0.00	Lower PRB Confidence Interval	-0.23	-0.68
Upper PRB Confidence Interval	0.20	0.00	Upper PRB Confidence Interval	-0.11	0.93
Average Sale Price	68,388	399,833	Average Sale Price	71,703	179,708
Average Appraised Value	66,277	287,510		66,404	144,693

051 : LANE			052 : LEAVENWORTH		
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	9	2	Original Number of Sales	197	17
Trimmed Outliers	1	0	Trimmed Outliers	24	1
Number of Ratios: Outliers Removed	8	2	Number of Ratios: Outliers Removed	173	16
Minimum Ratio	17.3	31.5	Minimum Ratio	27.5	36.3
Maximum Ratio	277.9	315.4	Maximum Ratio	217.4	189.9
Minimum Sale Price	2,500	3,500	Minimum Sale Price	21,500	40,000
Maximum Sale Price	235,000	185,000	Maximum Sale Price	570,000	1,900,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	95.1	173.5	Median Ratio	92.8	94.6
Lower Median Confidence Interval	91.8		Lower Median Confidence Interval	91.0	69.6
Upper Median Confidence Interval	121.8		Upper Median Confidence Interval	93.9	108.3
Broadened Median Ratio	95.0		Broadened Median Ratio	92.7	95.3
Coefficient of Dispersion (COD)	16.6	81.8	Coefficient of Dispersion (COD)	7.3	26.1
Lower COD Confidence Interval	4.6		Lower COD Confidence Interval	6.3	16.6
Upper COD Confidence Interval	83.6		Upper COD Confidence Interval	8.3	46.4
Value Weighted COD	15.7		Value Weighted COD	6.9	23.6
Coefficient of Concentration @10%	55.6		Coefficient of Concentration @10%	65.0	35.3
Coefficient of Concentration @15%	55.6		Coefficient of Concentration @15%	71.6	47.1
Coefficient of Concentration @20%	66.7		Coefficient of Concentration @20%	80.7	47.1
Coefficient of Concentration @50%	77.8		Coefficient of Concentration @50%	96.4	76.5
Coefficient of Concentration @100%	88.9		Coefficient of Concentration @100%	99.5	94.1
Coefficient of Interquartile Deviation	12.3		Coefficient of Interquartile Deviation	6.2	25.8
Median Percent Deviation	3.5		Median Percent Deviation	5.9	24.0
Lower Quartile (25th Percentile)	92.7	23.6	Lower Quartile (25th Percentile)	86.4	63.9
Upper Quartile	116.1	236.6	Upper Quartile	98.0	112.8
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	RejectK	Normality Test	RejectK	RejectK
Relative Skewness	-1.73	0.00	Relative Skewness	-0.12	0.30
Relative Kurtosis	5.03	0.00	Relative Kurtosis	3.28	3.09
Arithmetic Mean Ratio	90.0		Arithmetic Mean Ratio	92.1	89.5
Weighted Mean Ratio	82.4		Weighted Mean Ratio	92.2	82.7
Geometric Mean Ratio	80.2		Geometric Mean Ratio	91.6	83.6
Harmonic Mean Ratio	62.4		Harmonic Mean Ratio	91.2	77.3
Standard Deviation	31.2		Standard Deviation	9.1	32.2
Coefficient of Variation (COV)	34.6		Coefficient of Variation (COV)	9.8	36.0
Price-Related Differential (PRD)	1.09	4.71	Price-Related Differential (PRD)	1.00	1.08
Lower PRD Confidence Interval	1.00		Lower PRD Confidence Interval	0.99	0.96
Upper PRD Confidence interval	2.47		Upper PRD Confidence interval	1.00	1.26
Coeff. of Price-Related Bias (PRB)	-0.07		Coeff. of Price-Related Bias (PRB)	-0.05	0.08
Lower PRB Confidence Interval	-0.39		Lower PRB Confidence Interval	-0.08	-0.07
Upper PRB Confidence Interval	0.24		Upper PRB Confidence Interval	-0.02	0.22
Average Sale Price	55,488	61,417	Average Sale Price	180,563	255,200
Average Appraised Value	45,710	40,878	Average Appraised Value	166,531	204,983

053 : LINCOLN		S-10	054 : LINN		
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	21	11	Original Number of Sales	125	4
Trimmed Outliers	1	2	Trimmed Outliers	9	0
Number of Ratios: Outliers Removed	20	9	Number of Ratios: Outliers Removed	116	4
Minimum Ratio	77.7	51.0	Minimum Ratio	25.1	26.8
Maximum Ratio	407.4	342.0	Maximum Ratio	451.3	101.4
Minimum Sale Price	5,000	1,000	Minimum Sale Price	1,500	8,000
Maximum Sale Price	150,000	315,000	Maximum Sale Price	289,500	82,500
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	104.8	97.1	Median Ratio	87.4	98.3
Lower Median Confidence Interval	100.1	82.3	Lower Median Confidence Interval	84.5	30.4
Upper Median Confidence Interval	118.5	101.4	Upper Median Confidence Interval	93.3	101.2
Broadened Median Ratio	107.9	97.3	Broadened Median Ratio	87.8	86.9
Coefficient of Dispersion (COD)	14.0	11.7	Coefficient of Dispersion (COD)	18.6	19.1
Lower COD Confidence Interval	10.7	4.1	Lower COD Confidence Interval	16.2	0.7
Upper COD Confidence Interval	20.6	26.1	Upper COD Confidence Interval	22.0	58.4
Value Weighted COD	12.8	9.5	Value Weighted COD	16.7	30.1
Coefficient of Concentration @10%	42.9	54.5	Coefficient of Concentration @10%	37.6	75.0
Coefficient of Concentration @15%	61.9	54.5	Coefficient of Concentration @15%	47.2	75.0
Coefficient of Concentration @20%	71.4	63.6	Coefficient of Concentration @20%	62.4	75.0
Coefficient of Concentration @50%	95.2	90.9	Coefficient of Concentration @50%	85.6	75.0
Coefficient of Concentration @100%	95.2	90.9	Coefficient of Concentration @100%	96.8	100.0
Coefficient of Interquartile Deviation	12.0	9.9	Coefficient of Interquartile Deviation	16.1	28.5
Median Percent Deviation	13.2	4.7	Median Percent Deviation	17.3	1.7
Lower Quartile (25th Percentile)	97.7	82.3	Lower Quartile (25th Percentile)	74.5	44.6
Upper Quartile	122.7	101.4	Upper Quartile	102.6	100.7
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	RejectA	Normality Test	RejectK	RejectW
Relative Skewness	0.32	-0.20	Relative Skewness	0.36	-1.15
Relative Kurtosis	2.77	3.86	Relative Kurtosis	3.16	2.33
Arithmetic Mean Ratio	108.1	95.0	Arithmetic Mean Ratio	88.5	81.2
Weighted Mean Ratio	109.9	90.7	Weighted Mean Ratio	85.3	69.3
Geometric Mean Ratio	106.6	93.0	Geometric Mean Ratio	86.0	71.6
Harmonic Mean Ratio	105.1	90.8	Harmonic Mean Ratio	83.3	59.3
Standard Deviation	18.6	19.7	Standard Deviation	21.1	36.3
Coefficient of Variation (COV)	17.2	20.7	Coefficient of Variation (COV)	23.8	44.7
Price-Related Differential (PRD)	0.98	1.05	Price-Related Differential (PRD)	1.04	1.17
Lower PRD Confidence Interval	0.93	0.99	Lower PRD Confidence Interval	1.01	1.01
Upper PRD Confidence interval	1.04	1.22	Upper PRD Confidence interval	1.07	1.74
Coeff. of Price-Related Bias (PRB)	-0.08	-0.31	Coeff. of Price-Related Bias (PRB)	-0.15	0.00
Lower PRB Confidence Interval	-0.29	-0.52	Lower PRB Confidence Interval	-0.23	0.00
Upper PRB Confidence Interval	0.13	-0.11	Upper PRB Confidence Interval	-0.07	0.00
Average Sale Price	50,782	103,750	Average Sale Price	87,792	52,309
Average Appraised Value	55,795	101,401	Average Appraised Value	74,910	45,285

055 : LOGAN		S-2	056 : LYON		
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	32	4	Original Number of Sales	349	14
Trimmed Outliers	2	0	Trimmed Outliers	43	0
Number of Ratios: Outliers Removed	30	4	Number of Ratios: Outliers Removed	306	14
Minimum Ratio	27.7	56.4	Minimum Ratio	43.3	63.7
Maximum Ratio	250.2	144.8	Maximum Ratio	329.7	124.3
Minimum Sale Price	5,000	6,000	Minimum Sale Price	2,200	21,000
Maximum Sale Price	300,000	3,650,000	Maximum Sale Price	403,000	515,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	94.8	101.7	Median Ratio	96.8	88.2
Lower Median Confidence Interval	84.0	57.6	Lower Median Confidence Interval	95.1	75.3
Upper Median Confidence Interval	100.0	143.7	Upper Median Confidence Interval	99.6	105.4
Broadened Median Ratio	95.0	101.4	Broadened Median Ratio	96.7	90.4
Coefficient of Dispersion (COD)	14.5	32.0	Coefficient of Dispersion (COD)	11.3	19.4
Lower COD Confidence Interval	10.3	8.3	Lower COD Confidence Interval	10.3	15.2
Upper COD Confidence Interval	20.4	41.2	Upper COD Confidence Interval	12.5	27.4
Value Weighted COD	13.9	44.1	Value Weighted COD	10.4	18.4
Coefficient of Concentration @10%	43.8	0.0	Coefficient of Concentration @10%	49.9	21.4
Coefficient of Concentration @15%	56.3	0.0	Coefficient of Concentration @15%	65.3	35.7
Coefficient of Concentration @20%	65.6	0.0	Coefficient of Concentration @20%	71.6	64.3
Coefficient of Concentration @50%	93.8	100.0	Coefficient of Concentration @50%	90.0	100.0
Coefficient of Concentration @100%	96.9	100.0	Coefficient of Concentration @100%	95.1	100.0
Coefficient of Interquartile Deviation	12.6	37.7	Coefficient of Interquartile Deviation	10.2	19.1
Median Percent Deviation	12.1	31.4	Median Percent Deviation	10.1	17.8
Lower Quartile (25th Percentile)	77.1	62.5	Lower Quartile (25th Percentile)	88.9	74.4
Upper Quartile	101.0	139.3	Upper Quartile	108.7	108.1
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	AcceptK	AcceptW	Normality Test	RejectK	AcceptK
Relative Skewness	0.10	-0.03	Relative Skewness	0.24	0.20
Relative Kurtosis	3.13	1.41	Relative Kurtosis	3.42	1.69
Arithmetic Mean Ratio	92.2	101.2	Arithmetic Mean Ratio	96.4	91.8
Weighted Mean Ratio	88.5	57.3	Weighted Mean Ratio	96.3	81.1
Geometric Mean Ratio	90.3	94.8	Geometric Mean Ratio	95.4	89.8
Harmonic Mean Ratio	88.3	88.6	Harmonic Mean Ratio	94.3	87.8
Standard Deviation	18.4	39.9	Standard Deviation	14.1	19.8
Coefficient of Variation (COV)	20.0	39.5	Coefficient of Variation (COV)	14.6	21.6
Price-Related Differential (PRD)	1.04	1.77	Price-Related Differential (PRD)	1.00	1.13
Lower PRD Confidence Interval	1.00	1.08	Lower PRD Confidence Interval	0.99	1.06
Upper PRD Confidence interval	1.09	1.95	Upper PRD Confidence interval	1.01	1.23
Coeff. of Price-Related Bias (PRB)	-0.09	0.00	Coeff. of Price-Related Bias (PRB)	-0.14	-0.09
Lower PRB Confidence Interval	-0.19	0.00	Lower PRB Confidence Interval	-0.18	-0.18
Upper PRB Confidence Interval	0.00	0.00	Upper PRB Confidence Interval	-0.11	0.00
Average Sale Price	93,293	549,000	Average Sale Price	118,662	268,088
Average Appraised Value	82,578	318,327	Average Appraised Value	114,301	312,153

057 : MARION		S-7	058 : MARSHALL		
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	110	10	Original Number of Sales	108	4
Trimmed Outliers	15	0	Trimmed Outliers	14	0
Number of Ratios: Outliers Removed	95	10	Number of Ratios: Outliers Removed	94	4
Minimum Ratio	32.4	57.7	Minimum Ratio	39.0	56.7
Maximum Ratio	588.6	144.8	Maximum Ratio	415.0	145.6
Minimum Sale Price	3,500	27,500	Minimum Sale Price	1,000	15,000
Maximum Sale Price	230,000	900,000	Maximum Sale Price	312,000	70,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	95.1	94.9	Median Ratio	99.9	89.6
Lower Median Confidence Interval	92.6	61.6	Lower Median Confidence Interval	94.9	57.5
Upper Median Confidence Interval	98.3	110.8	Upper Median Confidence Interval	102.6	143.7
Broadened Median Ratio	95.1	93.1	Broadened Median Ratio	99.7	93.4
Coefficient of Dispersion (COD)	12.7	22.4	Coefficient of Dispersion (COD)	15.0	35.1
Lower COD Confidence Interval	10.5	12.2	Lower COD Confidence Interval	12.4	8.5
Upper COD Confidence Interval	15.2	38.2	Upper COD Confidence Interval	18.2	40.4
Value Weighted COD	11.1	34.2	Value Weighted COD	12.9	34.1
Coefficient of Concentration @10%	48.2	40.0	Coefficient of Concentration @10%	39.8	0.0
Coefficient of Concentration @15%	59.1	40.0	Coefficient of Concentration @15%	54.6	0.0
Coefficient of Concentration @20%	61.8	50.0	Coefficient of Concentration @20%	63.9	0.0
Coefficient of Concentration @50%	90.9	90.0	Coefficient of Concentration @50%	85.2	75.0
Coefficient of Concentration @100%	95.5	100.0	Coefficient of Concentration @100%	92.6	100.0
Coefficient of Interquartile Deviation	10.8	23.9	Coefficient of Interquartile Deviation	13.1	42.3
Median Percent Deviation	11.0	22.7	Median Percent Deviation	12.5	28.6
Lower Quartile (25th Percentile)	85.3	61.4	Lower Quartile (25th Percentile)	87.4	60.3
Upper Quartile	105.8	106.7	Upper Quartile	113.6	136.2
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectW	RejectK	Normality Test	RejectK	AcceptW
Relative Skewness	0.03	0.42	Relative Skewness	-0.23	0.35
Relative Kurtosis	3.03	2.35	Relative Kurtosis	3.31	1.58
Arithmetic Mean Ratio	94.2	91.6	Arithmetic Mean Ratio	96.4	95.4
Weighted Mean Ratio	94.0	67.1	Weighted Mean Ratio	95.2	95.1
Geometric Mean Ratio	92.8	87.7	Geometric Mean Ratio	94.2	89.3
Harmonic Mean Ratio	91.3	84.1	Harmonic Mean Ratio	91.8	83.7
Standard Deviation	16.3	28.1	Standard Deviation	19.6	39.8
Coefficient of Variation (COV)	17.3	30.6	Coefficient of Variation (COV)	20.4	41.8
Price-Related Differential (PRD)	1.00	1.37	Price-Related Differential (PRD)	1.01	1.00
Lower PRD Confidence Interval	0.98	1.24	Lower PRD Confidence Interval	0.99	0.88
Upper PRD Confidence interval	1.02	1.59	Upper PRD Confidence interval	1.04	1.08
Coeff. of Price-Related Bias (PRB)	-0.23	-0.07	Coeff. of Price-Related Bias (PRB)	-0.19	0.00
Lower PRB Confidence Interval	-0.35	-0.19	Lower PRB Confidence Interval	-0.27	0.00
Upper PRB Confidence Interval	-0.11	0.06	Upper PRB Confidence Interval	-0.12	0.00
Average Sale Price	86,084	287,929	Average Sale Price	91,521	50,916
Average Appraised Value	80,908	185,163	Average Appraised Value	87,090	35,953

059 : MCPHERSON			060 : MEADE		S-3
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	354	10	Original Number of Sales	37	4
Trimmed Outliers	41	0	Trimmed Outliers	5	0
Number of Ratios: Outliers Removed	313	10	Number of Ratios: Outliers Removed	32	4
Minimum Ratio	21.4	66.9	Minimum Ratio	52.3	65.2
Maximum Ratio	426.2	149.2	Maximum Ratio	320.0	95.3
Minimum Sale Price	7,500	9,000	Minimum Sale Price	5,000	20,000
Maximum Sale Price	490,000	460,000	Maximum Sale Price	235,000	675,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	99.3	103.6	Median Ratio	89.0	71.8
Lower Median Confidence Interval	98.1	83.9	Lower Median Confidence Interval	81.0	65.2
Upper Median Confidence Interval	100.0	126.3	Upper Median Confidence Interval	106.7	94.5
Broadened Median Ratio	99.3	103.3	Broadened Median Ratio	90.1	74.6
Coefficient of Dispersion (COD)	7.2	19.0	Coefficient of Dispersion (COD)	17.4	15.0
Lower COD Confidence Interval	6.5	10.5	Lower COD Confidence Interval	13.7	4.1
Upper COD Confidence Interval	7.9	31.7	Upper COD Confidence Interval	22.8	18.7
Value Weighted COD	6.7	16.6	Value Weighted COD	14.1	29.5
Coefficient of Concentration @10%	66.1	40.0	Coefficient of Concentration @10%	29.7	75.0
Coefficient of Concentration @15%	75.7	50.0	Coefficient of Concentration @15%	43.2	75.0
Coefficient of Concentration @20%	83.1	60.0	Coefficient of Concentration @20%	56.8	75.0
Coefficient of Concentration @50%	95.2	100.0	Coefficient of Concentration @50%	86.5	100.0
Coefficient of Concentration @100%	99.4	100.0	Coefficient of Concentration @100%	86.5	100.0
Coefficient of Interquartile Deviation	6.4	19.2	Coefficient of Interquartile Deviation	19.5	18.0
Median Percent Deviation	6.0	13.7	Median Percent Deviation	16.2	9.1
Lower Quartile (25th Percentile)	93.5	82.5	Lower Quartile (25th Percentile)	77.1	65.2
Upper Quartile	106.2	122.3	Upper Quartile	111.7	91.1
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	AcceptK	Normality Test	RejectK	AcceptW
Relative Skewness	0.25	0.32	Relative Skewness	0.26	0.63
Relative Kurtosis	3.37	2.25	Relative Kurtosis	2.59	1.79
Arithmetic Mean Ratio	99.2	104.5	Arithmetic Mean Ratio	88.9	76.0
Weighted Mean Ratio	98.9	100.7	Weighted Mean Ratio	84.4	92.2
Geometric Mean Ratio	98.7	101.3	Geometric Mean Ratio	87.0	75.1
Harmonic Mean Ratio	98.3	98.2	Harmonic Mean Ratio	85.0	74.2
Standard Deviation	9.6	27.2	Standard Deviation	18.7	14.3
Coefficient of Variation (COV)	9.7	26.1	Coefficient of Variation (COV)	21.0	18.8
Price-Related Differential (PRD)	1.00	1.04	Price-Related Differential (PRD)	1.05	0.82
Lower PRD Confidence Interval	1.00	0.96	Lower PRD Confidence Interval	1.02	0.79
Upper PRD Confidence interval	1.01	1.17	Upper PRD Confidence interval	1.09	0.98
Coeff. of Price-Related Bias (PRB)	-0.06	0.00	Coeff. of Price-Related Bias (PRB)	-0.38	0.00
Lower PRB Confidence Interval	-0.10	-0.13	Lower PRB Confidence Interval	-0.56	0.00
Upper PRB Confidence Interval	-0.03	0.13	Upper PRB Confidence Interval	-0.21	0.00
Average Sale Price	152,051	117,017	Average Sale Price	90,109	158,800
Average Appraised Value	150,447	92,517	Average Appraised Value	76,021	142,676

061 : MIAMI			062 : MITCHELL		S-3
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	416	11	Original Number of Sales	37	5
Trimmed Outliers	36	0	Trimmed Outliers	3	0
Number of Ratios: Outliers Removed	380	11	Number of Ratios: Outliers Removed	34	5
Minimum Ratio	51.5	61.1	Minimum Ratio	56.2	55.0
Maximum Ratio	454.3	138.3	Maximum Ratio	360.0	119.5
Minimum Sale Price	3,000	20,000	Minimum Sale Price	5,000	2,000
Maximum Sale Price	1,080,000	575,000	Maximum Sale Price	212,500	150,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	91.5	98.7	Median Ratio	104.8	102.5
Lower Median Confidence Interval	89.6	91.0	Lower Median Confidence Interval	88.5	57.5
Upper Median Confidence Interval	92.3	137.0	Upper Median Confidence Interval	120.6	117.5
Broadened Median Ratio	91.4	96.9	Broadened Median Ratio	104.8	93.9
Coefficient of Dispersion (COD)	9.3	22.2	Coefficient of Dispersion (COD)	22.7	17.9
Lower COD Confidence Interval	8.6	14.4	Lower COD Confidence Interval	18.5	5.4
Upper COD Confidence Interval	10.2	34.6	Upper COD Confidence Interval	30.2	29.7
Value Weighted COD	9.0	17.4	Value Weighted COD	23.7	24.6
Coefficient of Concentration @10%	57.0	45.5	Coefficient of Concentration @10%	21.6	40.0
Coefficient of Concentration @15%	71.2	45.5	Coefficient of Concentration @15%	29.7	40.0
Coefficient of Concentration @20%	80.5	45.5	Coefficient of Concentration @20%	45.9	60.0
Coefficient of Concentration @50%	93.3	100.0	Coefficient of Concentration @50%	86.5	100.0
Coefficient of Concentration @100%	96.6	100.0	Coefficient of Concentration @100%	91.9	100.0
Coefficient of Interquartile Deviation	8.1	23.3	Coefficient of Interquartile Deviation	21.5	22.4
Median Percent Deviation	8.2	32.7	Median Percent Deviation	21.7	16.6
Lower Quartile (25th Percentile)	83.7	91.0	Lower Quartile (25th Percentile)	87.4	65.5
Upper Quartile	98.6	137.0	Upper Quartile	132.5	111.4
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	AcceptK	Normality Test	RejectK	AcceptW
Relative Skewness	0.08	-0.03	Relative Skewness	0.49	-0.43
Relative Kurtosis	3.05	1.74	Relative Kurtosis	2.50	1.80
Arithmetic Mean Ratio	89.9	103.9	Arithmetic Mean Ratio	105.3	91.2
Weighted Mean Ratio	89.0	87.5	Weighted Mean Ratio	95.4	77.7
Geometric Mean Ratio	89.2	100.3	Geometric Mean Ratio	101.8	88.0
Harmonic Mean Ratio	88.6	96.5	Harmonic Mean Ratio	98.4	84.5
Standard Deviation	10.8	28.1	Standard Deviation	27.9	25.6
Coefficient of Variation (COV)	12.0	27.1	Coefficient of Variation (COV)	26.5	28.0
Price-Related Differential (PRD)	1.01	1.19	Price-Related Differential (PRD)	1.10	1.17
Lower PRD Confidence Interval	1.00	1.08	Lower PRD Confidence Interval	1.03	0.98
Upper PRD Confidence interval	1.02	1.44	Upper PRD Confidence interval	1.20	1.44
Coeff. of Price-Related Bias (PRB)	-0.24	-0.14	Coeff. of Price-Related Bias (PRB)	-0.23	-0.07
Lower PRB Confidence Interval	-0.28	-0.25	Lower PRB Confidence Interval	-0.38	-0.22
Upper PRB Confidence Interval	-0.19	-0.04	Upper PRB Confidence Interval	-0.08	0.08
Average Sale Price	204,798	287,939	Average Sale Price	67,385	73,175
Average Appraised Value	182,208	248,864	Average Appraised Value	64,276	59,770

063 : MONTGOMERY			064 : MORRIS		S-6
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	289	17	Original Number of Sales	52	7
Trimmed Outliers	33	1	Trimmed Outliers	6	0
Number of Ratios: Outliers Removed	256	16	Number of Ratios: Outliers Removed	46	7
Minimum Ratio	34.1	59.3	Minimum Ratio	54.2	34.5
Maximum Ratio	577.7	390.1	Maximum Ratio	285.5	112.8
Minimum Sale Price	1,750	11,000	Minimum Sale Price	3,500	15,000
Maximum Sale Price	475,000	80,000	Maximum Sale Price	250,000	200,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	105.7	104.0	Median Ratio	97.0	80.2
Lower Median Confidence Interval	103.1	80.8	Lower Median Confidence Interval	91.0	60.0
Upper Median Confidence Interval	109.3	125.6	Upper Median Confidence Interval	105.6	98.7
Broadened Median Ratio	105.8	102.0	Broadened Median Ratio	97.1	79.6
Coefficient of Dispersion (COD)	19.8	20.0	Coefficient of Dispersion (COD)	19.1	25.1
Lower COD Confidence Interval	17.7	13.1	Lower COD Confidence Interval	15.2	14.3
Upper COD Confidence Interval	22.2	29.3	Upper COD Confidence Interval	25.0	75.0
Value Weighted COD	15.9	16.1	Value Weighted COD	15.4	27.7
Coefficient of Concentration @10%	35.3	29.4	Coefficient of Concentration @10%	32.7	14.3
Coefficient of Concentration @15%	45.7	41.2	Coefficient of Concentration @15%	44.2	28.6
Coefficient of Concentration @20%	55.0	41.2	Coefficient of Concentration @20%	55.8	42.9
Coefficient of Concentration @50%	82.4	94.1	Coefficient of Concentration @50%	84.6	85.7
Coefficient of Concentration @100%	90.3	94.1	Coefficient of Concentration @100%	94.2	100.0
Coefficient of Interquartile Deviation	19.1	22.8	Coefficient of Interquartile Deviation	19.2	24.2
Median Percent Deviation	17.1	22.3	Median Percent Deviation	19.2	23.1
Lower Quartile (25th Percentile)	92.2	80.4	Lower Quartile (25th Percentile)	78.4	60.0
Upper Quartile	132.7	127.8	Upper Quartile	115.6	98.7
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	AcceptK	Normality Test	RejectK	AcceptW
Relative Skewness	0.58	0.24	Relative Skewness	0.69	-0.34
Relative Kurtosis	3.67	2.32	Relative Kurtosis	3.26	2.18
Arithmetic Mean Ratio	105.9	101.2	Arithmetic Mean Ratio	96.2	77.8
Weighted Mean Ratio	100.4	96.7	Weighted Mean Ratio	91.1	75.1
Geometric Mean Ratio	102.2	97.9	Geometric Mean Ratio	93.4	73.3
Harmonic Mean Ratio	98.3	94.6	Harmonic Mean Ratio	90.8	68.0
Standard Deviation	27.9	26.4	Standard Deviation	23.9	26.3
Coefficient of Variation (COV)	26.3	26.1	Coefficient of Variation (COV)	24.8	33.8
Price-Related Differential (PRD)	1.05	1.05	Price-Related Differential (PRD)	1.06	1.04
Lower PRD Confidence Interval	1.03	0.99	Lower PRD Confidence Interval	1.02	0.93
Upper PRD Confidence interval	1.08	1.12	Upper PRD Confidence interval	1.11	1.41
Coeff. of Price-Related Bias (PRB)	-0.23	-0.14	Coeff. of Price-Related Bias (PRB)	-0.22	-0.07
Lower PRB Confidence Interval	-0.29	-0.64	Lower PRB Confidence Interval	-0.31	-0.39
Upper PRB Confidence Interval	-0.18	0.35	Upper PRB Confidence Interval	-0.14	0.25
Average Sale Price	82,587	156,385	Average Sale Price	100,440	88,188
Average Appraised Value	82,947	167,902	Average Appraised Value	91,473	65,220

065 : MORTON		S-3	066 : NEMAHA		
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	11	6	Original Number of Sales	113	7
Trimmed Outliers	0	0	Trimmed Outliers	15	0
Number of Ratios: Outliers Removed	11	6	Number of Ratios: Outliers Removed	98	7
Minimum Ratio	83.8	65.8	Minimum Ratio	25.4	69.3
Maximum Ratio	154.4	144.9	Maximum Ratio	229.2	97.7
Minimum Sale Price	20,000	20,000	Minimum Sale Price	2,000	19,500
Maximum Sale Price	130,000	340,500	Maximum Sale Price	329,500	200,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	96.4	91.4	Median Ratio	90.1	85.9
Lower Median Confidence Interval	87.9	72.0	Lower Median Confidence Interval	85.1	84.9
Upper Median Confidence Interval	148.4	137.7	Upper Median Confidence Interval	93.7	97.1
Broadened Median Ratio	98.2	95.7	Broadened Median Ratio	90.1	86.2
Coefficient of Dispersion (COD)	20.0	26.7	Coefficient of Dispersion (COD)	18.0	7.2
Lower COD Confidence Interval	10.8	18.0	Lower COD Confidence Interval	15.1	3.1
Upper COD Confidence Interval	30.6	39.5	Upper COD Confidence Interval	21.7	14.2
Value Weighted COD	14.0	24.7	Value Weighted COD	15.1	9.8
Coefficient of Concentration @10%	63.6	33.3	Coefficient of Concentration @10%	35.4	57.1
Coefficient of Concentration @15%	72.7	50.0	Coefficient of Concentration @15%	46.9	85.7
Coefficient of Concentration @20%	72.7	50.0	Coefficient of Concentration @20%	57.5	100.0
Coefficient of Concentration @50%	72.7	83.3	Coefficient of Concentration @50%	79.6	100.0
Coefficient of Concentration @100%	100.0	100.0	Coefficient of Concentration @100%	94.7	100.0
Coefficient of Interquartile Deviation	31.4	32.2	Coefficient of Interquartile Deviation	16.1	7.1
Median Percent Deviation	8.8	21.2	Median Percent Deviation	16.6	2.2
Lower Quartile (25th Percentile)	87.9	75.2	Lower Quartile (25th Percentile)	76.8	84.9
Upper Quartile	148.4	134.1	Upper Quartile	105.9	97.1
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	AcceptW	Normality Test	RejectK	AcceptW
Relative Skewness	0.87	0.43	Relative Skewness	0.32	-0.64
Relative Kurtosis	1.99	1.66	Relative Kurtosis	3.78	2.87
Arithmetic Mean Ratio	109.9	100.4	Arithmetic Mean Ratio	88.4	86.8
Weighted Mean Ratio	102.6	80.5	Weighted Mean Ratio	84.7	91.3
Geometric Mean Ratio	107.1	96.5	Geometric Mean Ratio	85.7	86.3
Harmonic Mean Ratio	104.6	92.9	Harmonic Mean Ratio	82.8	85.8
Standard Deviation	27.7	31.1	Standard Deviation	21.3	9.5
Coefficient of Variation (COV)	25.2	31.0	Coefficient of Variation (COV)	24.1	10.9
Price-Related Differential (PRD)	1.07	1.25	Price-Related Differential (PRD)	1.04	0.95
Lower PRD Confidence Interval	1.02	1.08	Lower PRD Confidence Interval	1.01	0.91
Upper PRD Confidence interval	1.16	1.48	Upper PRD Confidence interval	1.08	1.02
Coeff. of Price-Related Bias (PRB)	-0.13	-0.20	Coeff. of Price-Related Bias (PRB)	-0.15	0.04
Lower PRB Confidence Interval	-0.38	-0.48	Lower PRB Confidence Interval	-0.20	-0.06
Upper PRB Confidence Interval	0.12	0.08	Upper PRB Confidence Interval	-0.10	0.13
Average Sale Price	59,045	100,417	Average Sale Price	104,586	93,050
Average Appraised Value	60,605	78,645	Average Appraised Value	88,574	115,834

067 : NEOSHO			068 : NESS		S-3
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	144	10	Original Number of Sales	21	3
Trimmed Outliers	17	0	Trimmed Outliers	2	0
Number of Ratios: Outliers Removed	127	10	Number of Ratios: Outliers Removed	19	3
Minimum Ratio	45.3	52.1	Minimum Ratio	64.8	80.0
Maximum Ratio	428.7	145.3	Maximum Ratio	394.8	99.6
Minimum Sale Price	3,000	15,500	Minimum Sale Price	5,000	18,000
Maximum Sale Price	355,000	500,000	Maximum Sale Price	160,000	87,500
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	101.7	102.0	Median Ratio	105.1	98.1
Lower Median Confidence Interval	98.2	77.8	Lower Median Confidence Interval	88.5	81.2
Upper Median Confidence Interval	104.9	114.4	Upper Median Confidence Interval	111.6	99.5
Broadened Median Ratio	101.8	102.4	Broadened Median Ratio	102.3	92.6
Coefficient of Dispersion (COD)	16.8	19.0	Coefficient of Dispersion (COD)	17.7	6.6
Lower COD Confidence Interval	14.3	9.9	Lower COD Confidence Interval	12.2	0.5
Upper COD Confidence Interval	19.8	41.9	Upper COD Confidence Interval	27.8	7.5
Value Weighted COD	16.3	22.2	Value Weighted COD	13.7	10.2
Coefficient of Concentration @10%	37.5	40.0	Coefficient of Concentration @10%	33.3	66.7
Coefficient of Concentration @15%	51.4	60.0	Coefficient of Concentration @15%	42.9	66.7
Coefficient of Concentration @20%	61.8	70.0	Coefficient of Concentration @20%	57.1	100.0
Coefficient of Concentration @50%	84.0	100.0	Coefficient of Concentration @50%	85.7	100.0
Coefficient of Concentration @100%	92.4	100.0	Coefficient of Concentration @100%	95.2	100.0
Coefficient of Interquartile Deviation	14.3	17.5	Coefficient of Interquartile Deviation	17.4	10.0
Median Percent Deviation	14.5	12.6	Median Percent Deviation	17.7	1.5
Lower Quartile (25th Percentile)	87.5	78.9	Lower Quartile (25th Percentile)	81.4	80.0
Upper Quartile	116.6	114.6	Upper Quartile	117.9	99.6
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	AcceptK	Normality Test	RejectK	AcceptW
Relative Skewness	-0.06	-0.29	Relative Skewness	1.04	-0.69
Relative Kurtosis	3.37	2.64	Relative Kurtosis	4.48	1.50
Arithmetic Mean Ratio	97.4	98.0	Arithmetic Mean Ratio	99.9	92.6
Weighted Mean Ratio	94.6	91.6	Weighted Mean Ratio	99.0	88.4
Geometric Mean Ratio	94.6	94.0	Geometric Mean Ratio	97.4	92.1
Harmonic Mean Ratio	91.5	89.5	Harmonic Mean Ratio	95.1	91.7
Standard Deviation	22.4	27.6	Standard Deviation	23.9	10.9
Coefficient of Variation (COV)	23.0	28.2	Coefficient of Variation (COV)	24.0	11.8
Price-Related Differential (PRD)	1.03	1.07	Price-Related Differential (PRD)	1.01	1.05
Lower PRD Confidence Interval	1.00	0.96	Lower PRD Confidence Interval	0.96	1.00
Upper PRD Confidence interval	1.07	1.38	Upper PRD Confidence interval	1.06	1.06
Coeff. of Price-Related Bias (PRB)	-0.18	-0.06	Coeff. of Price-Related Bias (PRB)	-0.27	0.00
Lower PRB Confidence Interval	-0.25	-0.18	Lower PRB Confidence Interval	-0.55	0.00
Upper PRB Confidence Interval	-0.10	0.07	Upper PRB Confidence Interval	0.00	0.00
Average Sale Price	80,517	275,164	Average Sale Price	63,203	107,286
Average Appraised Value	76,133	224,755	Average Appraised Value	62,584	102,641

069 : NORTON		S-1	070 : OSAGE		
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	59	4	Original Number of Sales	171	5
Trimmed Outliers	3	0	Trimmed Outliers	20	0
Number of Ratios: Outliers Removed	56	4	Number of Ratios: Outliers Removed	151	5
Minimum Ratio	40.2	102.5	Minimum Ratio	16.0	57.2
Maximum Ratio	211.0	157.1	Maximum Ratio	489.8	144.4
Minimum Sale Price	2,000	3,000	Minimum Sale Price	1,000	15,000
Maximum Sale Price	249,999	65,000	Maximum Sale Price	285,000	57,500
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	89.5	120.6	Median Ratio	98.3	75.5
Lower Median Confidence Interval	82.7	102.8	Lower Median Confidence Interval	93.6	57.6
Upper Median Confidence Interval	96.4	155.9	Upper Median Confidence Interval	104.7	143.0
Broadened Median Ratio	89.4	123.6	Broadened Median Ratio	98.4	89.6
Coefficient of Dispersion (COD)	20.1	16.4	Coefficient of Dispersion (COD)	19.3	42.2
Lower COD Confidence Interval	16.3	3.9	Lower COD Confidence Interval	17.0	7.6
Upper COD Confidence Interval	25.4	18.3	Upper COD Confidence Interval	22.0	53.7
Value Weighted COD	19.3	14.1	Value Weighted COD	15.9	35.7
Coefficient of Concentration @10%	32.2	0.0	Coefficient of Concentration @10%	30.4	20.0
Coefficient of Concentration @15%	52.5	50.0	Coefficient of Concentration @15%	43.3	20.0
Coefficient of Concentration @20%	59.3	75.0	Coefficient of Concentration @20%	54.4	40.0
Coefficient of Concentration @50%	89.8	100.0	Coefficient of Concentration @50%	84.2	60.0
Coefficient of Concentration @100%	98.3	100.0	Coefficient of Concentration @100%	91.8	100.0
Coefficient of Interquartile Deviation	15.0	19.5	Coefficient of Interquartile Deviation	18.5	52.8
Median Percent Deviation	14.2	12.5	Median Percent Deviation	17.6	24.2
Lower Quartile (25th Percentile)	76.8	104.0	Lower Quartile (25th Percentile)	83.4	58.9
Upper Quartile	103.6	151.0	Upper Quartile	119.8	138.6
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	AcceptW	Normality Test	RejectK	AcceptW
Relative Skewness	0.26	0.41	Relative Skewness	0.41	0.36
Relative Kurtosis	3.04	1.58	Relative Kurtosis	3.18	1.26
Arithmetic Mean Ratio	88.7	125.2	Arithmetic Mean Ratio	98.1	94.1
Weighted Mean Ratio	81.3	107.5	Weighted Mean Ratio	94.4	80.5
Geometric Mean Ratio	85.7	123.4	Geometric Mean Ratio	95.1	87.1
Harmonic Mean Ratio	82.6	121.6	Harmonic Mean Ratio	92.1	81.1
Standard Deviation	22.6	25.0	Standard Deviation	23.9	41.4
Coefficient of Variation (COV)	25.5	20.0	Coefficient of Variation (COV)	24.4	44.0
Price-Related Differential (PRD)	1.09	1.16	Price-Related Differential (PRD)	1.04	1.17
Lower PRD Confidence Interval	1.04	1.01	Lower PRD Confidence Interval	1.02	0.98
Upper PRD Confidence interval	1.15	1.22	Upper PRD Confidence interval	1.06	1.25
Coeff. of Price-Related Bias (PRB)	-0.13	0.00	Coeff. of Price-Related Bias (PRB)	-0.23	-0.23
Lower PRB Confidence Interval	-0.19	0.00	Lower PRB Confidence Interval	-0.31	-1.62
Upper PRB Confidence Interval	-0.07	0.00	Upper PRB Confidence Interval	-0.15	1.16
Average Sale Price	70,306	63,583	Average Sale Price	99,169	72,625
Average Appraised Value	57,151	50,081	Average Appraised Value	93,660	59,636

071 : OSBORNE		S-3	072 : OTTAWA		S-5
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	18	6	Original Number of Sales	44	5
Trimmed Outliers	1	0	Trimmed Outliers	2	0
Number of Ratios: Outliers Removed	17	6	Number of Ratios: Outliers Removed	42	5
Minimum Ratio	67.6	66.3	Minimum Ratio	58.8	99.4
Maximum Ratio	240.8	137.0	Maximum Ratio	208.0	153.7
Minimum Sale Price	11,500	12,500	Minimum Sale Price	5,000	15,000
Maximum Sale Price	141,000	140,000	Maximum Sale Price	341,000	75,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	94.8	110.9	Median Ratio	98.7	113.7
Lower Median Confidence Interval	81.7	83.1	Lower Median Confidence Interval	95.1	100.5
Upper Median Confidence Interval	115.2	136.6	Upper Median Confidence Interval	102.6	149.1
Broadened Median Ratio	93.5	113.3	Broadened Median Ratio	98.8	112.4
Coefficient of Dispersion (COD)	18.5	18.6	Coefficient of Dispersion (COD)	14.9	10.8
Lower COD Confidence Interval	13.5	10.9	Lower COD Confidence Interval	11.4	2.0
Upper COD Confidence Interval	26.0	35.6	Upper COD Confidence Interval	19.6	17.5
Value Weighted COD	17.0	15.9	Value Weighted COD	12.9	9.0
Coefficient of Concentration @10%	27.8	50.0	Coefficient of Concentration @10%	45.5	60.0
Coefficient of Concentration @15%	44.4	50.0	Coefficient of Concentration @15%	56.8	80.0
Coefficient of Concentration @20%	61.1	50.0	Coefficient of Concentration @20%	65.9	80.0
Coefficient of Concentration @50%	94.4	100.0	Coefficient of Concentration @50%	95.5	100.0
Coefficient of Concentration @100%	94.4	100.0	Coefficient of Concentration @100%	97.7	100.0
Coefficient of Interquartile Deviation	20.1	20.2	Coefficient of Interquartile Deviation	13.6	13.5
Median Percent Deviation	17.2	16.3	Median Percent Deviation	12.9	4.8
Lower Quartile (25th Percentile)	80.7	91.5	Lower Quartile (25th Percentile)	86.0	103.8
Upper Quartile	118.9	136.4	Upper Quartile	112.9	134.5
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	AcceptW	Normality Test	RejectK	RejectA
Relative Skewness	0.58	-0.56	Relative Skewness	0.43	1.16
Relative Kurtosis	2.20	2.22	Relative Kurtosis	3.02	2.87
Arithmetic Mean Ratio	96.9	110.2	Arithmetic Mean Ratio	99.3	118.1
Weighted Mean Ratio	92.6	115.5	Weighted Mean Ratio	94.6	110.2
Geometric Mean Ratio	94.8	107.1	Geometric Mean Ratio	97.4	116.7
Harmonic Mean Ratio	92.9	103.7	Harmonic Mean Ratio	95.5	115.6
Standard Deviation	21.3	26.7	Standard Deviation	19.8	20.8
Coefficient of Variation (COV)	22.0	24.3	Coefficient of Variation (COV)	19.9	17.7
Price-Related Differential (PRD)	1.05	0.95	Price-Related Differential (PRD)	1.05	1.07
Lower PRD Confidence Interval	0.98	0.89	Lower PRD Confidence Interval	1.01	1.01
Upper PRD Confidence interval	1.14	1.09	Upper PRD Confidence interval	1.10	1.13
Coeff. of Price-Related Bias (PRB)	-0.02	0.04	Coeff. of Price-Related Bias (PRB)	-0.12	-0.21
Lower PRB Confidence Interval	-0.21	-0.19	Lower PRB Confidence Interval	-0.18	-0.43
Upper PRB Confidence Interval	0.17	0.28	Upper PRB Confidence Interval	-0.06	0.00
Average Sale Price	59,235	39,024	Average Sale Price	129,631	38,300
Average Appraised Value	54,825	42,853	Average Appraised Value	122,591	42,198

073 : PAWNEE		S-7	074 : PHILLIPS		S-4
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	63	10	Original Number of Sales	43	4
Trimmed Outliers	3	0	Trimmed Outliers	3	0
Number of Ratios: Outliers Removed	60	10	Number of Ratios: Outliers Removed	40	4
Minimum Ratio	43.6	63.4	Minimum Ratio	47.1	44.9
Maximum Ratio	249.5	197.9	Maximum Ratio	253.6	99.9
Minimum Sale Price	10,000	3,500	Minimum Sale Price	5,000	7,500
Maximum Sale Price	249,000	65,500	Maximum Sale Price	210,000	118,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	102.5	111.7	Median Ratio	83.7	73.3
Lower Median Confidence Interval	95.5	86.7	Lower Median Confidence Interval	79.1	45.4
Upper Median Confidence Interval	110.1	169.7	Upper Median Confidence Interval	91.4	99.5
Broadened Median Ratio	102.5	115.8	Broadened Median Ratio	83.3	73.0
Coefficient of Dispersion (COD)	20.1	32.8	Coefficient of Dispersion (COD)	18.5	31.4
Lower COD Confidence Interval	15.9	23.8	Lower COD Confidence Interval	14.5	4.5
Upper COD Confidence Interval	25.4	52.9	Upper COD Confidence Interval	24.7	34.3
Value Weighted COD	18.0	28.3	Value Weighted COD	16.7	33.3
Coefficient of Concentration @10%	38.1	30.0	Coefficient of Concentration @10%	32.6	0.0
Coefficient of Concentration @15%	55.6	30.0	Coefficient of Concentration @15%	48.8	0.0
Coefficient of Concentration @20%	57.1	30.0	Coefficient of Concentration @20%	60.5	0.0
Coefficient of Concentration @50%	85.7	70.0	Coefficient of Concentration @50%	90.7	100.0
Coefficient of Concentration @100%	95.2	100.0	Coefficient of Concentration @100%	97.7	100.0
Coefficient of Interquartile Deviation	19.6	37.9	Coefficient of Interquartile Deviation	17.9	34.5
Median Percent Deviation	12.8	27.1	Median Percent Deviation	16.3	30.8
Lower Quartile (25th Percentile)	89.8	86.6	Lower Quartile (25th Percentile)	67.3	47.4
Upper Quartile	130.0	171.3	Upper Quartile	97.4	97.9
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	AcceptK	Normality Test	RejectK	AcceptW
Relative Skewness	0.63	0.31	Relative Skewness	0.53	-0.02
Relative Kurtosis	3.18	1.77	Relative Kurtosis	3.57	1.14
Arithmetic Mean Ratio	106.9	125.2	Arithmetic Mean Ratio	82.4	72.8
Weighted Mean Ratio	104.0	124.6	Weighted Mean Ratio	79.1	64.4
Geometric Mean Ratio	103.4	117.9	Geometric Mean Ratio	80.1	68.9
Harmonic Mean Ratio	99.9	110.9	Harmonic Mean Ratio	77.8	65.1
Standard Deviation	27.8	44.9	Standard Deviation	19.9	27.1
Coefficient of Variation (COV)	26.0	35.9	Coefficient of Variation (COV)	24.1	37.2
Price-Related Differential (PRD)	1.03	1.00	Price-Related Differential (PRD)	1.04	1.13
Lower PRD Confidence Interval	0.99	0.89	Lower PRD Confidence Interval	1.00	0.87
Upper PRD Confidence interval	1.07	1.10	Upper PRD Confidence interval	1.10	1.43
Coeff. of Price-Related Bias (PRB)	-0.02	0.13	Coeff. of Price-Related Bias (PRB)	-0.13	0.00
Lower PRB Confidence Interval	-0.10	-0.08	Lower PRB Confidence Interval	-0.24	0.00
Upper PRB Confidence Interval	0.07	0.35	Upper PRB Confidence Interval	-0.03	0.00
Average Sale Price	80,813	33,714	Average Sale Price	79,361	48,847
Average Appraised Value	84,072	38,699	Average Appraised Value	62,763	30,787

075 : POTTAWATOMIE			076 : PRATT		S-6
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	298	10	Original Number of Sales	110	9
Trimmed Outliers	28	0	Trimmed Outliers	9	1
Number of Ratios: Outliers Removed	270	10	Number of Ratios: Outliers Removed	101	8
Minimum Ratio	10.7	52.8	Minimum Ratio	53.8	66.6
Maximum Ratio	235.4	117.8	Maximum Ratio	285.3	137.4
Minimum Sale Price	5,000	11,000	Minimum Sale Price	4,000	21,500
Maximum Sale Price	505,000	1,600,000	Maximum Sale Price	358,000	300,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	96.9	87.2	Median Ratio	100.5	78.3
Lower Median Confidence Interval	95.8	72.6	Lower Median Confidence Interval	96.7	68.5
Upper Median Confidence Interval	98.0	97.8	Upper Median Confidence Interval	103.1	104.4
Broadened Median Ratio	96.9	87.2	Broadened Median Ratio	100.4	79.0
Coefficient of Dispersion (COD)	8.4	17.5	Coefficient of Dispersion (COD)	11.5	11.7
Lower COD Confidence Interval	7.6	11.5	Lower COD Confidence Interval	9.8	6.9
Upper COD Confidence Interval	9.3	30.9	Upper COD Confidence Interval	13.5	20.3
Value Weighted COD	8.2	23.7	Value Weighted COD	10.0	10.7
Coefficient of Concentration @10%	59.1	30.0	Coefficient of Concentration @10%	50.0	44.4
Coefficient of Concentration @15%	76.2	70.0	Coefficient of Concentration @15%	67.3	77.8
Coefficient of Concentration @20%	82.9	70.0	Coefficient of Concentration @20%	71.8	77.8
Coefficient of Concentration @50%	95.3	100.0	Coefficient of Concentration @50%	95.5	88.9
Coefficient of Concentration @100%	98.3	100.0	Coefficient of Concentration @100%	95.5	100.0
Coefficient of Interquartile Deviation	7.9	14.2	Coefficient of Interquartile Deviation	9.9	16.9
Median Percent Deviation	7.8	12.4	Median Percent Deviation	10.0	12.4
Lower Quartile (25th Percentile)	88.7	72.4	Lower Quartile (25th Percentile)	90.1	70.5
Upper Quartile	104.0	97.2	Upper Quartile	110.0	97.0
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	AcceptK	Normality Test	RejectK	RejectK
Relative Skewness	-0.31	-0.09	Relative Skewness	0.16	0.91
Relative Kurtosis	3.15	2.42	Relative Kurtosis	3.00	2.87
Arithmetic Mean Ratio	96.0	85.7	Arithmetic Mean Ratio	99.5	79.8
Weighted Mean Ratio	96.2	93.0	Weighted Mean Ratio	97.2	78.4
Geometric Mean Ratio	95.4	83.7	Geometric Mean Ratio	98.4	79.1
Harmonic Mean Ratio	94.8	81.6	Harmonic Mean Ratio	97.3	78.3
Standard Deviation	10.6	18.8	Standard Deviation	14.7	12.4
Coefficient of Variation (COV)	11.0	21.9	Coefficient of Variation (COV)	14.7	15.6
Price-Related Differential (PRD)	1.00	0.92	Price-Related Differential (PRD)	1.02	1.02
Lower PRD Confidence Interval	0.99	0.80	Lower PRD Confidence Interval	1.01	0.95
Upper PRD Confidence interval	1.00	1.13	Upper PRD Confidence interval	1.04	1.08
Coeff. of Price-Related Bias (PRB)	-0.02	0.03	Coeff. of Price-Related Bias (PRB)	-0.08	-0.02
Lower PRB Confidence Interval	-0.04	-0.05	Lower PRB Confidence Interval	-0.14	-0.22
Upper PRB Confidence Interval	0.01	0.10	Upper PRB Confidence Interval	-0.02	0.18
Average Sale Price	207,503	1,548,927	Average Sale Price	108,335	152,500
Average Appraised Value	199,684	1,217,167	Average Appraised Value	105,316	112,558

077 : RAWLINS		S-5	078 : RENO		
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	21	9	Original Number of Sales	183	14
Trimmed Outliers	1	0	Trimmed Outliers	17	0
Number of Ratios: Outliers Removed	20	9	Number of Ratios: Outliers Removed	166	14
Minimum Ratio	34.1	56.9	Minimum Ratio	48.7	56.2
Maximum Ratio	121.7	119.4	Maximum Ratio	504.9	108.0
Minimum Sale Price	12,000	6,500	Minimum Sale Price	3,000	22,500
Maximum Sale Price	215,000	205,000	Maximum Sale Price	525,000	350,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	89.2	73.5	Median Ratio	96.1	98.2
Lower Median Confidence Interval	79.3	59.4	Lower Median Confidence Interval	94.0	80.3
Upper Median Confidence Interval	99.8	103.6	Upper Median Confidence Interval	99.5	104.2
Broadened Median Ratio	90.8	73.4	Broadened Median Ratio	96.1	96.4
Coefficient of Dispersion (COD)	13.1	23.4	Coefficient of Dispersion (COD)	13.3	12.9
Lower COD Confidence Interval	9.8	16.5	Lower COD Confidence Interval	11.8	7.4
Upper COD Confidence Interval	18.4	39.5	Upper COD Confidence Interval	15.1	21.8
Value Weighted COD	12.4	23.9	Value Weighted COD	11.6	12.8
Coefficient of Concentration @10%	33.3	33.3	Coefficient of Concentration @10%	45.4	57.1
Coefficient of Concentration @15%	61.9	44.4	Coefficient of Concentration @15%	57.9	71.4
Coefficient of Concentration @20%	76.2	55.6	Coefficient of Concentration @20%	69.9	78.6
Coefficient of Concentration @50%	95.2	88.9	Coefficient of Concentration @50%	91.3	100.0
Coefficient of Concentration @100%	100.0	100.0	Coefficient of Concentration @100%	96.7	100.0
Coefficient of Interquartile Deviation	13.6	26.5	Coefficient of Interquartile Deviation	12.1	13.2
Median Percent Deviation	13.5	19.2	Median Percent Deviation	11.9	8.3
Lower Quartile (25th Percentile)	76.9	60.9	Lower Quartile (25th Percentile)	87.0	78.4
Upper Quartile	101.2	99.9	Upper Quartile	110.4	104.3
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	AcceptK	RejectK	Normality Test	RejectK	RejectK
Relative Skewness	0.11	0.64	Relative Skewness	-0.02	-0.85
Relative Kurtosis	2.33	2.06	Relative Kurtosis	3.03	2.50
Arithmetic Mean Ratio	90.5	79.8	Arithmetic Mean Ratio	95.4	91.2
Weighted Mean Ratio	92.9	72.9	Weighted Mean Ratio	92.9	90.1
Geometric Mean Ratio	89.4	77.3	Geometric Mean Ratio	93.9	89.7
Harmonic Mean Ratio	88.3	75.0	Harmonic Mean Ratio	92.4	88.0
Standard Deviation	14.5	22.0	Standard Deviation	16.3	16.2
Coefficient of Variation (COV)	16.0	27.6	Coefficient of Variation (COV)	17.1	17.8
Price-Related Differential (PRD)	0.97	1.09	Price-Related Differential (PRD)	1.03	1.01
Lower PRD Confidence Interval	0.95	0.96	Lower PRD Confidence Interval	1.01	0.97
Upper PRD Confidence interval	1.00	1.25	Upper PRD Confidence interval	1.05	1.06
Coeff. of Price-Related Bias (PRB)	0.06	-0.04	Coeff. of Price-Related Bias (PRB)	-0.15	0.00
Lower PRB Confidence Interval	-0.04	-0.23	Lower PRB Confidence Interval	-0.21	-0.10
Upper PRB Confidence Interval	0.15	0.16	Upper PRB Confidence Interval	-0.10	0.10
Average Sale Price	76,350	28,714	Average Sale Price	113,386	327,309
Average Appraised Value	70,936	26,083	Average Appraised Value	105,300	268,769

079 : REPUBLIC		S-10	080 : RICE		S-8
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	29	14	Original Number of Sales	106	10
Trimmed Outliers	1	0	Trimmed Outliers	9	0
Number of Ratios: Outliers Removed	28	14	Number of Ratios: Outliers Removed	97	10
Minimum Ratio	38.2	56.1	Minimum Ratio	35.0	56.6
Maximum Ratio	164.0	131.2	Maximum Ratio	423.6	126.1
Minimum Sale Price	2,500	7,000	Minimum Sale Price	2,000	5,000
Maximum Sale Price	150,000	150,000	Maximum Sale Price	235,000	85,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	96.0	92.1	Median Ratio	93.1	94.8
Lower Median Confidence Interval	80.7	76.0	Lower Median Confidence Interval	87.0	80.5
Upper Median Confidence Interval	103.3	100.0	Upper Median Confidence Interval	96.4	102.6
Broadened Median Ratio	96.0	92.4	Broadened Median Ratio	93.0	94.5
Coefficient of Dispersion (COD)	20.4	17.3	Coefficient of Dispersion (COD)	16.2	14.2
Lower COD Confidence Interval	14.6	11.4	Lower COD Confidence Interval	13.7	7.6
Upper COD Confidence Interval	29.8	28.1	Upper COD Confidence Interval	19.4	26.6
Value Weighted COD	21.1	16.7	Value Weighted COD	16.4	10.5
Coefficient of Concentration @10%	37.9	50.0	Coefficient of Concentration @10%	35.8	50.0
Coefficient of Concentration @15%	41.4	57.1	Coefficient of Concentration @15%	52.8	70.0
Coefficient of Concentration @20%	65.5	64.3	Coefficient of Concentration @20%	61.3	70.0
Coefficient of Concentration @50%	89.7	100.0	Coefficient of Concentration @50%	88.7	100.0
Coefficient of Concentration @100%	100.0	100.0	Coefficient of Concentration @100%	96.2	100.0
Coefficient of Interquartile Deviation	15.2	15.2	Coefficient of Interquartile Deviation	13.5	11.3
Median Percent Deviation	17.0	10.1	Median Percent Deviation	13.8	9.2
Lower Quartile (25th Percentile)	78.7	72.7	Lower Quartile (25th Percentile)	79.2	79.2
Upper Quartile	108.0	100.7	Upper Quartile	104.4	100.7
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	AcceptK	Normality Test	RejectK	AcceptK
Relative Skewness	-0.57	0.13	Relative Skewness	-0.09	-0.16
Relative Kurtosis	2.47	2.55	Relative Kurtosis	3.07	2.92
Arithmetic Mean Ratio	90.1	90.5	Arithmetic Mean Ratio	90.6	91.9
Weighted Mean Ratio	86.3	94.5	Weighted Mean Ratio	89.9	91.6
Geometric Mean Ratio	86.1	88.3	Geometric Mean Ratio	88.4	90.0
Harmonic Mean Ratio	81.3	86.0	Harmonic Mean Ratio	86.1	87.9
Standard Deviation	24.9	20.5	Standard Deviation	19.1	19.2
Coefficient of Variation (COV)	27.7	22.7	Coefficient of Variation (COV)	21.1	20.9
Price-Related Differential (PRD)	1.04	0.96	Price-Related Differential (PRD)	1.01	1.00
Lower PRD Confidence Interval	0.99	0.89	Lower PRD Confidence Interval	0.98	0.94
Upper PRD Confidence interval	1.14	1.05	Upper PRD Confidence interval	1.04	1.07
Coeff. of Price-Related Bias (PRB)	-0.07	0.03	Coeff. of Price-Related Bias (PRB)	-0.10	0.03
Lower PRB Confidence Interval	-0.14	-0.08	Lower PRB Confidence Interval	-0.18	-0.10
Upper PRB Confidence Interval	0.01	0.14	Upper PRB Confidence Interval	-0.03	0.15
Average Sale Price	53,321	50,100	Average Sale Price	87,112	36,250
Average Appraised Value	46,040	46,389	Average Appraised Value	78,340	32,613

081 : RILEY			082 : ROOKS		S-5
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	248	12	Original Number of Sales	37	5
Trimmed Outliers	26	0	Trimmed Outliers	2	0
Number of Ratios: Outliers Removed	222	12	Number of Ratios: Outliers Removed	35	5
Minimum Ratio	41.3	50.7	Minimum Ratio	36.8	50.9
Maximum Ratio	211.0	168.2	Maximum Ratio	264.0	109.7
Minimum Sale Price	15,000	75,000	Minimum Sale Price	7,000	10,000
Maximum Sale Price	2,088,888	4,000,000	Maximum Sale Price	269,500	208,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	98.5	95.3	Median Ratio	86.9	56.9
Lower Median Confidence Interval	97.1	73.7	Lower Median Confidence Interval	77.4	51.0
Upper Median Confidence Interval	99.4	114.9	Upper Median Confidence Interval	98.2	104.7
Broadened Median Ratio	98.5	95.3	Broadened Median Ratio	86.9	59.1
Coefficient of Dispersion (COD)	6.7	27.2	Coefficient of Dispersion (COD)	23.0	26.3
Lower COD Confidence Interval	6.0	17.7	Lower COD Confidence Interval	17.8	3.8
Upper COD Confidence Interval	7.4	44.0	Upper COD Confidence Interval	30.1	40.9
Value Weighted COD	6.7	24.8	Value Weighted COD	22.0	15.1
Coefficient of Concentration @10%	68.1	16.7	Coefficient of Concentration @10%	21.6	40.0
Coefficient of Concentration @15%	81.0	33.3	Coefficient of Concentration @15%	40.5	60.0
Coefficient of Concentration @20%	87.5	41.7	Coefficient of Concentration @20%	48.6	80.0
Coefficient of Concentration @50%	96.8	83.3	Coefficient of Concentration @50%	86.5	80.0
Coefficient of Concentration @100%	99.6	100.0	Coefficient of Concentration @100%	94.6	100.0
Coefficient of Interquartile Deviation	5.7	22.6	Coefficient of Interquartile Deviation	24.1	32.9
Median Percent Deviation	5.8	21.4	Median Percent Deviation	20.6	10.7
Lower Quartile (25th Percentile)	93.1	72.7	Lower Quartile (25th Percentile)	70.5	51.5
Upper Quartile	104.3	115.7	Upper Quartile	112.5	89.0
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	RejectK	Normality Test	RejectK	RejectW
Relative Skewness	-0.15	0.62	Relative Skewness	0.25	1.24
Relative Kurtosis	2.97	2.72	Relative Kurtosis	2.63	2.85
Arithmetic Mean Ratio	97.9	99.0	Arithmetic Mean Ratio	88.1	67.6
Weighted Mean Ratio	97.6	81.5	Weighted Mean Ratio	83.7	61.6
Geometric Mean Ratio	97.5	94.0	Geometric Mean Ratio	84.4	64.7
Harmonic Mean Ratio	97.1	89.2	Harmonic Mean Ratio	80.5	62.4
Standard Deviation	8.4	33.5	Standard Deviation	25.2	24.5
Coefficient of Variation (COV)	8.6	33.8	Coefficient of Variation (COV)	28.6	36.3
Price-Related Differential (PRD)	1.00	1.22	Price-Related Differential (PRD)	1.05	1.10
Lower PRD Confidence Interval	0.99	1.12	Lower PRD Confidence Interval	1.00	0.93
Upper PRD Confidence interval	1.01	1.40	Upper PRD Confidence interval	1.12	1.32
Coeff. of Price-Related Bias (PRB)	-0.04	-0.08	Coeff. of Price-Related Bias (PRB)	-0.18	-0.18
Lower PRB Confidence Interval	-0.07	-0.24	Lower PRB Confidence Interval	-0.32	-0.59
Upper PRB Confidence Interval	-0.01	0.09	Upper PRB Confidence Interval	-0.04	0.24
Average Sale Price	220,243	549,306	Average Sale Price	82,195	87,200
Average Appraised Value	214,945	516,107	Average Appraised Value	68,808	53,674

083 : RUSH		S-7	084 : RUSSELL		
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	28	7	Original Number of Sales	86	7
Trimmed Outliers	3	0	Trimmed Outliers	8	1
Number of Ratios: Outliers Removed	25	7	Number of Ratios: Outliers Removed	78	6
Minimum Ratio	68.9	45.1	Minimum Ratio	11.0	57.7
Maximum Ratio	292.6	155.5	Maximum Ratio	462.8	147.4
Minimum Sale Price	4,000	8,000	Minimum Sale Price	2,000	18,000
Maximum Sale Price	122,000	75,000	Maximum Sale Price	400,000	215,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	107.8	90.9	Median Ratio	91.2	76.6
Lower Median Confidence Interval	86.8	63.1	Lower Median Confidence Interval	85.7	58.1
Upper Median Confidence Interval	120.1	114.6	Upper Median Confidence Interval	94.0	90.9
Broadened Median Ratio	107.0	82.9	Broadened Median Ratio	91.2	74.1
Coefficient of Dispersion (COD)	19.6	29.9	Coefficient of Dispersion (COD)	13.9	13.6
Lower COD Confidence Interval	14.9	14.5	Lower COD Confidence Interval	11.4	7.2
Upper COD Confidence Interval	26.5	60.2	Upper COD Confidence Interval	17.2	22.1
Value Weighted COD	21.4	27.6	Value Weighted COD	13.0	17.8
Coefficient of Concentration @10%	21.4	28.6	Coefficient of Concentration @10%	45.3	28.6
Coefficient of Concentration @15%	35.7	28.6	Coefficient of Concentration @15%	58.1	42.9
Coefficient of Concentration @20%	50.0	28.6	Coefficient of Concentration @20%	67.4	57.1
Coefficient of Concentration @50%	89.3	71.4	Coefficient of Concentration @50%	89.5	85.7
Coefficient of Concentration @100%	89.3	100.0	Coefficient of Concentration @100%	97.7	100.0
Coefficient of Interquartile Deviation	19.7	28.3	Coefficient of Interquartile Deviation	13.1	21.4
Median Percent Deviation	19.5	28.9	Median Percent Deviation	12.4	18.6
Lower Quartile (25th Percentile)	81.1	63.1	Lower Quartile (25th Percentile)	77.7	58.1
Upper Quartile	123.5	114.6	Upper Quartile	101.6	90.9
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	AcceptW	Normality Test	RejectK	AcceptW
Relative Skewness	0.19	0.63	Relative Skewness	-0.32	0.27
Relative Kurtosis	1.86	2.45	Relative Kurtosis	3.38	1.95
Arithmetic Mean Ratio	100.6	89.6	Arithmetic Mean Ratio	89.8	71.5
Weighted Mean Ratio	91.2	81.8	Weighted Mean Ratio	88.5	68.3
Geometric Mean Ratio	98.0	83.3	Geometric Mean Ratio	88.0	70.6
Harmonic Mean Ratio	95.5	77.5	Harmonic Mean Ratio	86.1	69.7
Standard Deviation	23.0	37.2	Standard Deviation	16.9	12.7
Coefficient of Variation (COV)	22.9	41.5	Coefficient of Variation (COV)	18.8	17.8
Price-Related Differential (PRD)	1.10	1.09	Price-Related Differential (PRD)	1.01	1.05
Lower PRD Confidence Interval	1.06	0.98	Lower PRD Confidence Interval	0.99	0.96
Upper PRD Confidence interval	1.15	1.34	Upper PRD Confidence interval	1.05	1.14
Coeff. of Price-Related Bias (PRB)	-0.25	0.01	Coeff. of Price-Related Bias (PRB)	-0.01	-0.02
Lower PRB Confidence Interval	-0.40	-0.41	Lower PRB Confidence Interval	-0.10	-0.42
Upper PRB Confidence Interval	-0.10	0.43	Upper PRB Confidence Interval	0.08	0.39
Average Sale Price	46,548	52,903	Average Sale Price	91,544	57,786
Average Appraised Value	42,444	37,849	Average Appraised Value	81,027	45,480

085 : SALINE			086 : SCOTT		S-7	
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind	
Original Number of Sales	228	20	Original Number of Sales	47	8	
Trimmed Outliers	27	2			0	
Number of Ratios: Outliers Removed	201	18	Number of Ratios: Outliers Removed	46	8	
Minimum Ratio	21.2	48.3	Minimum Ratio	51.2	47.5	
Maximum Ratio	576.0	199.2	Maximum Ratio	161.3	144.2	
Minimum Sale Price	7,500	35,000	Minimum Sale Price	10,000	30,000	
Maximum Sale Price	490,000	1,610,000	Maximum Sale Price	252,000	300,000	
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS			
Median Ratio	96.0	102.7	Median Ratio	89.4	84.1	
Lower Median Confidence Interval	94.1	76.9	Lower Median Confidence Interval	85.9	57.1	
Upper Median Confidence Interval	98.6	116.3	Upper Median Confidence Interval	97.5	138.5	
Broadened Median Ratio	96.0	103.0	Broadened Median Ratio	89.5	83.9	
Coefficient of Dispersion (COD)	12.1	22.7	Coefficient of Dispersion (COD)	13.7	35.9	
Lower COD Confidence Interval	10.7	15.8	Lower COD Confidence Interval	10.9	23.5	
Upper COD Confidence Interval	13.7	34.7	Upper COD Confidence Interval	17.8	58.9	
Value Weighted COD	11.2	26.8	Value Weighted COD	13.1	44.3	
Coefficient of Concentration @10%	49.6	25.0	Coefficient of Concentration @10%	38.3	0.0	
Coefficient of Concentration @15%	62.7	35.0	Coefficient of Concentration @15%	59.6	0.0	
Coefficient of Concentration @20%	73.2	45.0	Coefficient of Concentration @20%	78.7	37.5	
Coefficient of Concentration @50%	88.2	85.0	Coefficient of Concentration @50%	97.9	75.0	
Coefficient of Concentration @100%	95.6	100.0	Coefficient of Concentration @100%	100.0	100.0	
Coefficient of Interquartile Deviation	11.2	20.5	Coefficient of Interquartile Deviation	13.3	41.2	
Median Percent Deviation	10.3	25.1	Median Percent Deviation	13.1	26.2	
Lower Quartile (25th Percentile)	88.3	76.3	Lower Quartile (25th Percentile)	77.3	59.6	
Upper Quartile	109.9	118.4	Upper Quartile	101.1	128.9	
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS			
Normality Test	RejectK	RejectK	Normality Test	RejectK	AcceptK	
Relative Skewness	0.70	0.33	Relative Skewness	-0.31	0.41	
Relative Kurtosis	3.58	2.54	Relative Kurtosis	2.93	1.73	
Arithmetic Mean Ratio	96.9	97.7	Arithmetic Mean Ratio	89.0	90.3	
Weighted Mean Ratio	95.6	94.4	Weighted Mean Ratio	88.9	97.4	
Geometric Mean Ratio	95.7	93.9	Geometric Mean Ratio	87.4	84.0	
Harmonic Mean Ratio	94.6	90.0	Harmonic Mean Ratio	85.8	78.3	
Standard Deviation	15.2	27.9	Standard Deviation	16.0	36.5	
Coefficient of Variation (COV)	15.7	28.5	Coefficient of Variation (COV)	18.0	40.4	
Price-Related Differential (PRD)	1.01	1.04	Price-Related Differential (PRD)	1.00	0.93	
Lower PRD Confidence Interval	1.00	0.93	Lower PRD Confidence Interval	0.97	0.78	
Upper PRD Confidence interval	1.03	1.20	Upper PRD Confidence interval	1.03	1.24	
Coeff. of Price-Related Bias (PRB)	-0.24	0.00	Coeff. of Price-Related Bias (PRB)	0.03	0.12	
Lower PRB Confidence Interval	-0.31	-0.13	Lower PRB Confidence Interval	-0.03	-0.19	
Upper PRB Confidence Interval	-0.16	0.12	Upper PRB Confidence Interval	0.09	0.43	
Average Sale Price	141,364	503,494	Average Sale Price	115,824	102,714	
Average Appraised Value	135,213	415,387	Average Appraised Value	102,945	99,597	

087 : SEDGWICK			088 : SEWARD		
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	318	196	Original Number of Sales	140	6
Trimmed Outliers	32	11	Trimmed Outliers	17	0
Number of Ratios: Outliers Removed	286	185	Number of Ratios: Outliers Removed	123	6
Minimum Ratio	35.6	14.2	Minimum Ratio	36.0	36.9
Maximum Ratio	1752.8	326.2	Maximum Ratio	298.6	111.9
Minimum Sale Price	2,200	10,000	Minimum Sale Price	8,000	36,000
Maximum Sale Price	569,000	14,122,500	Maximum Sale Price	345,000	550,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	90.1	90.9	Median Ratio	100.6	82.5
Lower Median Confidence Interval	87.9	86.2	Lower Median Confidence Interval	99.7	41.3
Upper Median Confidence Interval	91.8	94.9	Upper Median Confidence Interval	102.3	101.3
Broadened Median Ratio	90.1	90.7	Broadened Median Ratio	100.6	77.8
Coefficient of Dispersion (COD)	10.6	22.2	Coefficient of Dispersion (COD)	10.7	26.4
Lower COD Confidence Interval	9.7	19.9	Lower COD Confidence Interval	8.9	10.7
Upper COD Confidence Interval	11.7	25.1	Upper COD Confidence Interval	12.9	54.8
Value Weighted COD	9.5	20.6	Value Weighted COD	9.4	39.1
Coefficient of Concentration @10%	52.5	26.0	Coefficient of Concentration @10%	53.6	50.0
Coefficient of Concentration @15%	69.5	35.2	Coefficient of Concentration @15%	64.3	50.0
Coefficient of Concentration @20%	76.7	49.0	Coefficient of Concentration @20%	70.7	50.0
Coefficient of Concentration @50%	92.8	88.3	Coefficient of Concentration @50%	88.6	83.3
Coefficient of Concentration @100%	98.7	96.4	Coefficient of Concentration @100%	97.1	100.0
Coefficient of Interquartile Deviation	9.5	20.2	Coefficient of Interquartile Deviation	10.2	31.9
Median Percent Deviation	9.3	20.2	Median Percent Deviation	7.8	22.8
Lower Quartile (25th Percentile)	82.4	72.3	Lower Quartile (25th Percentile)	95.3	43.5
Upper Quartile	99.5	109.1	Upper Quartile	115.7	96.1
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	RejectK	Normality Test	RejectK	AcceptW
Relative Skewness	0.49	0.30	Relative Skewness	0.95	-0.23
Relative Kurtosis	3.26	2.84	Relative Kurtosis	3.78	1.72
Arithmetic Mean Ratio	89.8	89.9	Arithmetic Mean Ratio	102.7	75.1
Weighted Mean Ratio	88.6	88.3	Weighted Mean Ratio	101.9	55.8
Geometric Mean Ratio	89.0	86.5	Geometric Mean Ratio	101.6	69.8
Harmonic Mean Ratio	88.2	82.8	Harmonic Mean Ratio	100.5	64.3
Standard Deviation	12.2	24.5	Standard Deviation	15.6	28.6
Coefficient of Variation (COV)	13.6	27.3	Coefficient of Variation (COV)	15.2	38.1
Price-Related Differential (PRD)	1.01	1.02	Price-Related Differential (PRD)	1.01	1.35
Lower PRD Confidence Interval	1.01	0.94	Lower PRD Confidence Interval	0.99	1.06
Upper PRD Confidence interval	1.02	1.10	Upper PRD Confidence interval	1.02	1.65
Coeff. of Price-Related Bias (PRB)	-0.23	0.01	Coeff. of Price-Related Bias (PRB)	-0.13	-0.18
Lower PRB Confidence Interval	-0.35	-0.03	Lower PRB Confidence Interval	-0.20	-0.46
Upper PRB Confidence Interval	-0.10	0.04	Upper PRB Confidence Interval	-0.06	0.11
Average Sale Price	162,517	590,549	Average Sale Price	138,482	235,361
Average Appraised Value	144,022	490,895	Average Appraised Value	141,130	221,987

089 : SHAWNEE			090 : SHERIDAN		S-3
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	306	36	Original Number of Sales	15	4
Trimmed Outliers	42	2	Trimmed Outliers	0	0
Number of Ratios: Outliers Removed	264	34	Number of Ratios: Outliers Removed	15	4
Minimum Ratio	24.5	68.9	Minimum Ratio	37.7	44.9
Maximum Ratio	807.3	220.0	Maximum Ratio	140.4	139.1
Minimum Sale Price	1,100	12,000	Minimum Sale Price	15,000	20,000
Maximum Sale Price	460,000	2,485,000	Maximum Sale Price	170,000	871,815
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	96.0	98.2	Median Ratio	86.1	76.1
Lower Median Confidence Interval	94.7	82.5	Lower Median Confidence Interval	70.9	45.4
Upper Median Confidence Interval	97.3	111.5	Upper Median Confidence Interval	101.2	136.9
Broadened Median Ratio	96.0	97.0	Broadened Median Ratio	88.5	81.4
Coefficient of Dispersion (COD)	9.1	23.7	Coefficient of Dispersion (COD)	22.3	44.5
Lower COD Confidence Interval	8.2	18.4	Lower COD Confidence Interval	14.0	10.5
Upper COD Confidence Interval	10.1	32.5	Upper COD Confidence Interval	38.2	51.6
Value Weighted COD	8.4	21.5	Value Weighted COD	15.3	28.5
Coefficient of Concentration @10%	56.2	13.9	Coefficient of Concentration @10%	33.3	0.0
Coefficient of Concentration @15%	68.0	33.3	Coefficient of Concentration @15%	46.7	0.0
Coefficient of Concentration @20%	76.5	52.8	Coefficient of Concentration @20%	66.7	0.0
Coefficient of Concentration @50%	90.5	88.9	Coefficient of Concentration @50%	73.3	75.0
Coefficient of Concentration @100%	96.4	94.4	Coefficient of Concentration @100%	100.0	100.0
Coefficient of Interquartile Deviation	8.1	20.9	Coefficient of Interquartile Deviation	17.6	53.2
Median Percent Deviation	7.8	19.6	Median Percent Deviation	17.5	34.1
Lower Quartile (25th Percentile)	89.2	78.9	Lower Quartile (25th Percentile)	70.9	47.5
Upper Quartile	104.8	119.9	Upper Quartile	101.2	128.5
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	RejectK	Normality Test	AcceptK	AcceptW
Relative Skewness	0.42	1.13	Relative Skewness	0.00	0.41
Relative Kurtosis	3.46	3.59	Relative Kurtosis	2.94	1.59
Arithmetic Mean Ratio	95.3	101.5	Arithmetic Mean Ratio	88.6	84.0
Weighted Mean Ratio	94.1	87.6	Weighted Mean Ratio	87.2	88.8
Geometric Mean Ratio	94.7	97.9	Geometric Mean Ratio	84.0	76.0
Harmonic Mean Ratio	94.0	94.8	Harmonic Mean Ratio	78.7	69.1
Standard Deviation	11.5	29.3	Standard Deviation	27.8	43.0
Coefficient of Variation (COV)	12.0	28.9	Coefficient of Variation (COV)	31.3	51.1
Price-Related Differential (PRD)	1.01	1.16	Price-Related Differential (PRD)	1.02	0.95
Lower PRD Confidence Interval	1.00	1.07	Lower PRD Confidence Interval	0.95	0.75
Upper PRD Confidence interval	1.02	1.28	Upper PRD Confidence interval	1.11	1.42
Coeff. of Price-Related Bias (PRB)	-0.27	-0.09	Coeff. of Price-Related Bias (PRB)	0.00	0.00
Lower PRB Confidence Interval	-0.33	-0.16	Lower PRB Confidence Interval	-0.22	0.00
Upper PRB Confidence Interval	-0.21	-0.01	Upper PRB Confidence Interval	0.22	0.00
Average Sale Price	139,625	448,770	Average Sale Price	74,333	202,553
Average Appraised Value	131,429	417,135	Average Appraised Value	64,785	177,765

091 : SHERMAN		S-3	092 : SMITH		S-2	
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind	
Original Number of Sales	69	6	Original Number of Sales	31	5	
Trimmed Outliers	1	0	Trimmed Outliers	1	0	
Number of Ratios: Outliers Removed	68	6	Number of Ratios: Outliers Removed	30	50 5	
Minimum Ratio	46.5	87.1	Minimum Ratio	42.0	33.0	
Maximum Ratio	217.0	150.8	Maximum Ratio	289.3	187.2	
Minimum Sale Price	6,000	25,000	Minimum Sale Price	10,000	4,001	
Maximum Sale Price	450,000	600,000	Maximum Sale Price	305,000	179,000	
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS			
Median Ratio	93.2	113.7	Median Ratio	98.3	98.0	
Lower Median Confidence Interval	87.9	88.8	Lower Median Confidence Interval	81.2	35.9	
Upper Median Confidence Interval	101.1	139.4	Upper Median Confidence Interval	103.1	184.6	
Broadened Median Ratio	93.7	112.2	Broadened Median Ratio	97.1	106.9	
Coefficient of Dispersion (COD)	16.1	18.2	Coefficient of Dispersion (COD)	21.0	53.7	
Lower COD Confidence Interval	13.5	11.7	Lower COD Confidence Interval	15.3	15.7	
Upper COD Confidence Interval	19.9	26.1	Upper COD Confidence Interval	29.1	100.8	
Value Weighted COD	14.3	18.7	Value Weighted COD	20.9	60.1	
Coefficient of Concentration @10%	39.1	0.0	Coefficient of Concentration @10%	29.0	20.0	
Coefficient of Concentration @15%	53.6	50.0	Coefficient of Concentration @15%	35.5	20.0	
Coefficient of Concentration @20%	65.2	50.0	Coefficient of Concentration @20%	51.6	20.0	
Coefficient of Concentration @50%	97.1	100.0	Coefficient of Concentration @50%	93.5	40.0	
Coefficient of Concentration @100%	98.6	100.0	Coefficient of Concentration @100%	96.8	100.0	
Coefficient of Interquartile Deviation	13.4	19.4	Coefficient of Interquartile Deviation	20.0	67.1	
Median Percent Deviation	12.9	16.6	Median Percent Deviation	18.7	66.3	
Lower Quartile (25th Percentile)	80.2	89.6	Lower Quartile (25th Percentile)	74.9	45.0	
Upper Quartile	105.2	133.8	Upper Quartile	114.3	176.4	
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS			
Normality Test	RejectK	AcceptW	Normality Test	RejectK	AcceptW	
Relative Skewness	-0.06	0.29	Relative Skewness	-0.25	0.12	
Relative Kurtosis	2.77	1.72	Relative Kurtosis	2.19	1.38	
Arithmetic Mean Ratio	92.9	113.9	Arithmetic Mean Ratio	91.6	108.2	
Weighted Mean Ratio	90.3	96.2	Weighted Mean Ratio	85.5	56.0	
Geometric Mean Ratio	90.9	111.7	Geometric Mean Ratio	87.9	89.4	
Harmonic Mean Ratio	88.8	109.6	Harmonic Mean Ratio	83.8	72.0	
Standard Deviation	18.8	24.9	Standard Deviation	25.1	66.9	
Coefficient of Variation (COV)	20.3	21.8	Coefficient of Variation (COV)	27.4	61.9	
Price-Related Differential (PRD)	1.03	1.18	Price-Related Differential (PRD)	1.07	1.93	
Lower PRD Confidence Interval	1.00	1.06	Lower PRD Confidence Interval	1.00	0.97	
Upper PRD Confidence interval	1.07	1.40	Upper PRD Confidence interval	1.20	2.47	
Coeff. of Price-Related Bias (PRB)	-0.07	-0.08	Coeff. of Price-Related Bias (PRB)	-0.09	-0.21	
Lower PRB Confidence Interval	-0.13	-0.21	Lower PRB Confidence Interval	-0.24	-0.86	
Upper PRB Confidence Interval	-0.01	0.05	Upper PRB Confidence Interval	0.06	0.44	
Average Sale Price	101,659	331,300	Average Sale Price	68,933	51,500	
Average Appraised Value	91,759	261,371	Average Appraised Value	58,934	39,916	

093 : STAFFORD		S-3	094 : STANTON		S-3	
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind	
Original Number of Sales	23	6	Original Number of Sales	14	7	
Trimmed Outliers	3	0	Trimmed Outliers	1	0	
Number of Ratios: Outliers Removed	20	6	Number of Ratios: Outliers Removed	13	7	
Minimum Ratio	59.8	65.5	Minimum Ratio	69.3	43.1	
Maximum Ratio	420.3	103.9	Maximum Ratio	404.9	110.6	
Minimum Sale Price	2,500	10,000	Minimum Sale Price	6,600	2,500	
Maximum Sale Price	275,000	60,000	Maximum Sale Price	215,000	1,900,000	
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS			
Median Ratio	94.7	97.4	Median Ratio	96.8	80.0	
Lower Median Confidence Interval	88.0	67.2	Lower Median Confidence Interval	89.8	67.9	
Upper Median Confidence Interval	101.3	102.7	Upper Median Confidence Interval	166.7	108.0	
Broadened Median Ratio	95.3	93.3	Broadened Median Ratio	102.9	81.6	
Coefficient of Dispersion (COD)	14.2	13.3	Coefficient of Dispersion (COD)	31.2	20.1	
Lower COD Confidence Interval	9.4	6.0	Lower COD Confidence Interval	17.2	10.7	
Upper COD Confidence Interval	21.5	22.5	Upper COD Confidence Interval	45.7	48.5	
Value Weighted COD	13.1	13.0	Value Weighted COD	22.5	12.3	
Coefficient of Concentration @10%	43.5	66.7	Coefficient of Concentration @10%	50.0	42.9	
Coefficient of Concentration @15%	52.2	66.7	Coefficient of Concentration @15%	50.0	42.9	
Coefficient of Concentration @20%	65.2	66.7	Coefficient of Concentration @20%	50.0	57.1	
Coefficient of Concentration @50%	87.0	100.0	Coefficient of Concentration @50%	64.3	100.0	
Coefficient of Concentration @100%	95.7	100.0	Coefficient of Concentration @100%	92.9	100.0	
Coefficient of Interquartile Deviation	13.2	17.4	Coefficient of Interquartile Deviation	41.6	25.1	
Median Percent Deviation	14.3	5.4	Median Percent Deviation	17.3	15.2	
Lower Quartile (25th Percentile)	85.0	68.1	Lower Quartile (25th Percentile)	89.0	67.9	
Upper Quartile	110.0	102.0	Upper Quartile	169.4	108.0	
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS			
Normality Test	RejectK	RejectW	Normality Test	RejectK	AcceptW	
Relative Skewness	0.42	-0.61	Relative Skewness	0.71	-0.31	
Relative Kurtosis	3.28	1.52	Relative Kurtosis	1.79	2.33	
Arithmetic Mean Ratio	92.8	89.1	Arithmetic Mean Ratio	114.5	82.1	
Weighted Mean Ratio	86.2	89.3	Weighted Mean Ratio	108.5	82.5	
Geometric Mean Ratio	91.0	87.6	Geometric Mean Ratio	108.1	78.9	
Harmonic Mean Ratio	89.3	85.9	Harmonic Mean Ratio	102.7	75.2	
Standard Deviation	18.5	17.3	Standard Deviation	42.1	23.2	
Coefficient of Variation (COV)	20.0	19.4	Coefficient of Variation (COV)	36.7	28.3	
Price-Related Differential (PRD)	1.08	1.00	Price-Related Differential (PRD)	1.06	1.00	
Lower PRD Confidence Interval	1.02	0.95	Lower PRD Confidence Interval	0.97	0.87	
Upper PRD Confidence interval	1.18	1.08	Upper PRD Confidence interval	1.17	1.20	
Coeff. of Price-Related Bias (PRB)	-0.23	0.01	Coeff. of Price-Related Bias (PRB)	-0.21	0.00	
Lower PRB Confidence Interval	-0.42	-0.23	Lower PRB Confidence Interval	-0.65	-0.12	
Upper PRB Confidence Interval	-0.03	0.25	Upper PRB Confidence Interval	0.24	0.12	
Average Sale Price	64,165	28,333	Average Sale Price	70,890	76,300	
Average Appraised Value	55,308	25,037	Average Appraised Value	76,940	39,154	

095 : STEVENS		S-3			
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	35	5	Original Number of Sales	214	7
Trimmed Outliers	0	0	Trimmed Outliers	8	0
Number of Ratios: Outliers Removed	35	5	Number of Ratios: Outliers Removed	206	7
Minimum Ratio	39.8	88.9	Minimum Ratio	47.8	52.3
Maximum Ratio	143.3	105.3	Maximum Ratio	412.1	151.5
Minimum Sale Price	8,550	29,864	Minimum Sale Price	990	3,600
Maximum Sale Price	240,000	210,124	Maximum Sale Price	545,000	225,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	94.0	97.2	Median Ratio	97.1	95.9
Lower Median Confidence Interval	85.5	88.3	Lower Median Confidence Interval	95.2	58.2
Upper Median Confidence Interval	100.0	104.8	Upper Median Confidence Interval	100.6	132.8
Broadened Median Ratio	94.0	96.7	Broadened Median Ratio	97.1	97.3
Coefficient of Dispersion (COD)	17.5	5.2	Coefficient of Dispersion (COD)	16.2	31.6
Lower COD Confidence Interval	13.1	1.8	Lower COD Confidence Interval	14.5	19.4
Upper COD Confidence Interval	24.4	6.2	Upper COD Confidence Interval	18.0	67.1
Value Weighted COD	15.5	5.1	Value Weighted COD	14.1	33.8
Coefficient of Concentration @10%	42.9	100.0	Coefficient of Concentration @10%	37.9	14.3
Coefficient of Concentration @15%	54.3	100.0	Coefficient of Concentration @15%	53.7	14.3
Coefficient of Concentration @20%	60.0	100.0	Coefficient of Concentration @20%	64.0	28.6
Coefficient of Concentration @50%	94.3	100.0	Coefficient of Concentration @50%	93.9	85.7
Coefficient of Concentration @100%	100.0	100.0	Coefficient of Concentration @100%	98.6	100.0
Coefficient of Interquartile Deviation	16.1	6.5	Coefficient of Interquartile Deviation	15.0	38.9
Median Percent Deviation	11.8	5.3	Median Percent Deviation	13.9	38.4
Lower Quartile (25th Percentile)	74.6	90.5	Lower Quartile (25th Percentile)	84.3	58.2
Upper Quartile	104.8	103.2	Upper Quartile	113.4	132.8
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	AcceptW	Normality Test	RejectK	AcceptW
Relative Skewness	-0.24	0.04	Relative Skewness	0.28	0.12
Relative Kurtosis	3.21	1.61	Relative Kurtosis	2.93	1.63
Arithmetic Mean Ratio	91.6	96.9	Arithmetic Mean Ratio	97.9	98.1
Weighted Mean Ratio	90.1	99.6	Weighted Mean Ratio	94.2	69.3
Geometric Mean Ratio	88.7	96.7	Geometric Mean Ratio	95.9	91.6
Harmonic Mean Ratio	85.3	96.5	Harmonic Mean Ratio	93.8	85.2
Standard Deviation	22.0	6.6	Standard Deviation	19.8	37.6
Coefficient of Variation (COV)	24.0	6.8	Coefficient of Variation (COV)	20.2	38.4
Price-Related Differential (PRD)	1.02	0.97	Price-Related Differential (PRD)	1.04	1.42
Lower PRD Confidence Interval	0.99	0.95	Lower PRD Confidence Interval	1.02	1.13
Upper PRD Confidence interval	1.06	1.01	Upper PRD Confidence interval	1.06	1.80
Coeff. of Price-Related Bias (PRB)	0.00	0.03	Coeff. of Price-Related Bias (PRB)	-0.14	-0.14
Lower PRB Confidence Interval	-0.08	-0.05	Lower PRB Confidence Interval	-0.18	-0.34
Upper PRB Confidence Interval	0.08	0.11	Upper PRB Confidence Interval	-0.10	0.06
Average Sale Price	111,090	175,221	Average Sale Price	101,951	105,511
Average Appraised Value	100,141	138,031	Average Appraised Value	96,015	98,484

097 : THOMAS		S-3	098 : TREGO		S-9
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	76	7	Original Number of Sales	43	9
Trimmed Outliers	6	0	0 Trimmed Outliers		1
Number of Ratios: Outliers Removed	70	7	Number of Ratios: Outliers Removed	40	8
Minimum Ratio	24.0	58.4	Minimum Ratio	40.4	51.6
Maximum Ratio	171.4	118.9	Maximum Ratio	261.4	502.0
Minimum Sale Price	4,000	48,000	Minimum Sale Price	4,250	500
Maximum Sale Price	270,000	122,500	Maximum Sale Price	252,000	1,300,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	95.2	96.2	Median Ratio	100.0	97.9
Lower Median Confidence Interval	91.9	81.5	Lower Median Confidence Interval	93.8	62.3
Upper Median Confidence Interval	97.8	114.8	Upper Median Confidence Interval	108.7	188.9
Broadened Median Ratio	95.4	92.7	Broadened Median Ratio	101.2	96.1
Coefficient of Dispersion (COD)	12.0	15.7	Coefficient of Dispersion (COD)	23.7	31.1
Lower COD Confidence Interval	9.8	8.5	Lower COD Confidence Interval	18.0	16.0
Upper COD Confidence Interval	14.9	31.1	Upper COD Confidence Interval	31.8	64.9
Value Weighted COD	10.8	14.9	Value Weighted COD	16.9	26.5
Coefficient of Concentration @10%	50.0	28.6	Coefficient of Concentration @10%	39.5	22.2
Coefficient of Concentration @15%	61.8	42.9	Coefficient of Concentration @15%	44.2	44.4
Coefficient of Concentration @20%	73.7	71.4	Coefficient of Concentration @20%	51.2	55.6
Coefficient of Concentration @50%	93.4	100.0	Coefficient of Concentration @50%	81.4	77.8
Coefficient of Concentration @100%	100.0	100.0	Coefficient of Concentration @100%	93.0	88.9
Coefficient of Interquartile Deviation	9.8	17.3	Coefficient of Interquartile Deviation	20.7	40.9
Median Percent Deviation	10.1	15.3	Median Percent Deviation	19.4	19.5
Lower Quartile (25th Percentile)	85.3	81.5	Lower Quartile (25th Percentile)	80.8	72.9
Upper Quartile	104.0	114.8	Upper Quartile	122.2	153.0
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	AcceptW	Normality Test	RejectK	RejectK
Relative Skewness	0.49	-0.33	Relative Skewness	0.51	1.16
Relative Kurtosis	3.27	2.27	Relative Kurtosis	3.36	3.72
Arithmetic Mean Ratio	95.0	93.1	Arithmetic Mean Ratio	99.8	99.0
Weighted Mean Ratio	92.1	95.3	Weighted Mean Ratio	94.2	97.4
Geometric Mean Ratio	93.8	90.9	Geometric Mean Ratio	94.8	92.2
Harmonic Mean Ratio	92.6	88.6	Harmonic Mean Ratio	89.5	86.3
Standard Deviation	15.5	20.7	Standard Deviation	31.6	42.2
Coefficient of Variation (COV)	16.3	22.2	Coefficient of Variation (COV)	31.7	42.7
Price-Related Differential (PRD)	1.03	0.98	Price-Related Differential (PRD)	1.06	1.02
Lower PRD Confidence Interval	1.01	0.92	Lower PRD Confidence Interval	0.99	0.68
Upper PRD Confidence interval	1.06	1.02	Upper PRD Confidence interval	1.14	1.28
Coeff. of Price-Related Bias (PRB)	-0.03	0.24	Coeff. of Price-Related Bias (PRB)	-0.12	-0.26
Lower PRB Confidence Interval	-0.08	-0.08	Lower PRB Confidence Interval	-0.24	-0.63
Upper PRB Confidence Interval	0.02	0.56	Upper PRB Confidence Interval	-0.01	0.12
Average Sale Price	114,704	139,688	Average Sale Price	75,804	229,913
Average Appraised Value	105,660	126,065	Average Appraised Value	71,418	224,021

099 : WABAUNSEE			100 : WALLACE		S-2	
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind	
Original Number of Sales	65	6	Original Number of Sales	6	3	
Trimmed Outliers	6	0	Trimmed Outliers	0	0	
Number of Ratios: Outliers Removed	59	6	Number of Ratios: Outliers Removed	6	3	
Minimum Ratio	35.9	75.6	Minimum Ratio	72.9	52.5	
Maximum Ratio	313.3	180.4	Maximum Ratio	116.3	92.2	
Minimum Sale Price	4,500	12,600	Minimum Sale Price	10,000	2,000	
Maximum Sale Price	440,000	75,000	Maximum Sale Price	195,000	70,000	
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS			
Median Ratio	95.2	102.3	Median Ratio	91.5	67.8	
Lower Median Confidence Interval	89.3	80.8	Lower Median Confidence Interval	78.4	53.5	
Upper Median Confidence Interval	100.5	155.1	Upper Median Confidence Interval	107.1	90.5	
Broadened Median Ratio	95.9	104.2	Broadened Median Ratio	91.3	70.8	
Coefficient of Dispersion (COD)	17.2	29.0	Coefficient of Dispersion (COD)	11.2	19.5	
Lower COD Confidence Interval	13.7	19.1	Lower COD Confidence Interval	5.6	7.5	
Upper COD Confidence Interval	22.0	45.4	Upper COD Confidence Interval	21.8	19.5	
Value Weighted COD	17.0	23.0	Value Weighted COD	9.4	29.3	
Coefficient of Concentration @10%	40.0	0.0	Coefficient of Concentration @10%	66.7	33.3	
Coefficient of Concentration @15%	50.8	33.3	Coefficient of Concentration @15%	66.7	33.3	
Coefficient of Concentration @20%	58.5	50.0	Coefficient of Concentration @20%	66.7	33.3	
Coefficient of Concentration @50%	87.7	83.3	Coefficient of Concentration @50%	100.0	100.0	
Coefficient of Concentration @100%	92.3	100.0	Coefficient of Concentration @100%	100.0	100.0	
Coefficient of Interquartile Deviation	16.3	28.8	Coefficient of Interquartile Deviation	11.6	29.3	
Median Percent Deviation	14.6	21.0	Median Percent Deviation	7.6	22.6	
Lower Quartile (25th Percentile)	80.1	83.4	Lower Quartile (25th Percentile)	81.2	52.5	
Upper Quartile	111.2	142.4	Upper Quartile	102.5	92.2	
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS			
Normality Test	AcceptK	AcceptW	Normality Test	AcceptW	AcceptW	
Relative Skewness	-0.05	0.84	Relative Skewness	0.42	0.27	
Relative Kurtosis	3.28	2.46	Relative Kurtosis	2.54	1.50	
Arithmetic Mean Ratio	92.5	112.7	Arithmetic Mean Ratio	92.4	70.8	
Weighted Mean Ratio	86.2	100.8	Weighted Mean Ratio	93.9	86.9	
Geometric Mean Ratio	89.7	107.7	Geometric Mean Ratio	91.4	69.0	
Harmonic Mean Ratio	86.6	103.3	Harmonic Mean Ratio	90.5	67.2	
Standard Deviation	21.6	39.0	Standard Deviation	14.6	20.0	
Coefficient of Variation (COV)	23.3	34.6	Coefficient of Variation (COV)	15.8	28.2	
Price-Related Differential (PRD)	1.07	1.12	Price-Related Differential (PRD)	0.98	0.81	
Lower PRD Confidence Interval	1.03	1.02	Lower PRD Confidence Interval	0.93	0.82	
Upper PRD Confidence interval	1.15	1.31	Upper PRD Confidence interval	1.04	0.94	
Coeff. of Price-Related Bias (PRB)	-0.22	-0.22	Coeff. of Price-Related Bias (PRB)	0.02	0.00	
Lower PRB Confidence Interval	-0.30	-0.82	Lower PRB Confidence Interval	-0.12	0.00	
Upper PRB Confidence Interval	-0.13	0.39	Upper PRB Confidence Interval	0.16	0.00	
Average Sale Price	133,072	46,500	Average Sale Price	81,917	36,000	
Average Appraised Value	114,772	44,239	Average Appraised Value	76,928	32,785	

101 : WASHINGTON		S-8	102 : WICHITA		S-7
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	37	9	Original Number of Sales	22	8
Trimmed Outliers	5	0	Trimmed Outliers	0	0
Number of Ratios: Outliers Removed	32	9	Number of Ratios: Outliers Removed	22	8
Minimum Ratio	34.3	32.7	Minimum Ratio	53.0	78.5
Maximum Ratio	385.0	185.6	Maximum Ratio	133.1	160.6
Minimum Sale Price	2,500	21,000	Minimum Sale Price	5,000	2,750
Maximum Sale Price	140,575	240,000	Maximum Sale Price	230,000	87,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	109.1	85.3	Median Ratio	92.2	103.3
Lower Median Confidence Interval	100.0	51.8	Lower Median Confidence Interval	80.2	90.5
Upper Median Confidence Interval	122.6	139.7	Upper Median Confidence Interval	98.8	137.9
Broadened Median Ratio	108.0	84.8	Broadened Median Ratio	91.0	102.3
Coefficient of Dispersion (COD)	18.1	35.0	Coefficient of Dispersion (COD)	15.7	17.9
Lower COD Confidence Interval	14.3	16.0	Lower COD Confidence Interval	11.2	8.8
Upper COD Confidence Interval	24.5	71.8	Upper COD Confidence Interval	22.8	30.6
Value Weighted COD	15.9	28.2	Value Weighted COD	12.8	21.0
Coefficient of Concentration @10%	40.5	44.4	Coefficient of Concentration @10%	40.9	37.5
Coefficient of Concentration @15%	48.6	44.4	Coefficient of Concentration @15%	59.1	62.5
Coefficient of Concentration @20%	56.8	44.4	Coefficient of Concentration @20%	72.7	62.5
Coefficient of Concentration @50%	86.5	66.7	Coefficient of Concentration @50%	100.0	87.5
Coefficient of Concentration @100%	94.6	88.9	Coefficient of Concentration @100%	100.0	100.0
Coefficient of Interquartile Deviation	16.3	33.1	Coefficient of Interquartile Deviation	12.6	19.3
Median Percent Deviation	16.0	21.0	Median Percent Deviation	12.5	11.7
Lower Quartile (25th Percentile)	97.4	59.6	Lower Quartile (25th Percentile)	77.6	90.8
Upper Quartile	133.0	116.0	Upper Quartile	101.0	130.6
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	RejectK	Normality Test	AcceptK	RejectK
Relative Skewness	0.54	0.90	Relative Skewness	0.18	0.89
Relative Kurtosis	2.68	3.09	Relative Kurtosis	3.00	2.64
Arithmetic Mean Ratio	109.9	91.6	Arithmetic Mean Ratio	90.3	109.3
Weighted Mean Ratio	105.4	74.2	Weighted Mean Ratio	87.6	109.1
Geometric Mean Ratio	107.4	82.0	Geometric Mean Ratio	88.4	106.7
Harmonic Mean Ratio	105.0	72.9	Harmonic Mean Ratio	86.5	104.3
Standard Deviation	24.3	46.0	Standard Deviation	18.5	27.1
Coefficient of Variation (COV)	22.1	50.3	Coefficient of Variation (COV)	20.5	24.7
Price-Related Differential (PRD)	1.04	1.23	Price-Related Differential (PRD)	1.03	1.00
Lower PRD Confidence Interval	1.00	1.04	Lower PRD Confidence Interval	0.98	0.89
Upper PRD Confidence interval	1.10	1.62	Upper PRD Confidence interval	1.09	1.11
Coeff. of Price-Related Bias (PRB)	-0.08	-0.07	Coeff. of Price-Related Bias (PRB)	0.02	0.02
Lower PRB Confidence Interval	-0.24	-0.48	Lower PRB Confidence Interval	-0.06	-0.14
Upper PRB Confidence Interval	0.08	0.35	Upper PRB Confidence Interval	0.09	0.18
Average Sale Price	49,595	71,250	Average Sale Price	84,041	37,821
Average Appraised Value	52,259	51,675	Average Appraised Value	73,593	41,271

103 : WILSON			104 : WOODSON		S-11
GENERAL STATISTICS	Residential	Comm./Ind	GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	70	11	Original Number of Sales	30	11
Trimmed Outliers	5	0	Trimmed Outliers	6	2
Number of Ratios: Outliers Removed	65	11	Number of Ratios: Outliers Removed	24	9
Minimum Ratio	28.6	56.3	Minimum Ratio	56.5	50.3
Maximum Ratio	589.5	172.4	Maximum Ratio	445.7	413.0
Minimum Sale Price	6,000	7,200	Minimum Sale Price	1,000	1,000
Maximum Sale Price	220,000	145,000	Maximum Sale Price	190,000	225,000
DISTRIBUTION FREE STATISTICS			DISTRIBUTION FREE STATISTICS		
Median Ratio	99.0	91.5	Median Ratio	99.5	109.1
Lower Median Confidence Interval	88.1	80.7	Lower Median Confidence Interval	87.9	81.3
Upper Median Confidence Interval	106.8	126.4	Upper Median Confidence Interval	109.8	130.1
Broadened Median Ratio	98.5	93.5	Broadened Median Ratio	99.4	109.9
Coefficient of Dispersion (COD)	26.3	27.8	Coefficient of Dispersion (COD)	17.3	18.2
Lower COD Confidence Interval	21.2	19.0	Lower COD Confidence Interval	13.1	10.1
Upper COD Confidence Interval	32.7	50.7	Upper COD Confidence Interval	24.2	34.1
Value Weighted COD	22.0	26.6	Value Weighted COD	13.3	32.8
Coefficient of Concentration @10%	22.9	36.4	Coefficient of Concentration @10%	26.7	36.4
Coefficient of Concentration @15%	31.4	45.5	Coefficient of Concentration @15%	43.3	36.4
Coefficient of Concentration @20%	47.1	45.5	Coefficient of Concentration @20%	53.3	45.5
Coefficient of Concentration @50%	78.6	81.8	Coefficient of Concentration @50%	80.0	72.7
Coefficient of Concentration @100%	92.9	100.0	Coefficient of Concentration @100%	80.0	81.8
Coefficient of Interquartile Deviation	21.4	25.0	Coefficient of Interquartile Deviation	23.7	22.4
Median Percent Deviation	20.7	23.4	Median Percent Deviation	18.3	21.9
Lower Quartile (25th Percentile)	78.2	80.7	Lower Quartile (25th Percentile)	83.1	81.3
Upper Quartile	120.7	126.4	Upper Quartile	130.4	130.1
PARAMETRIC STATISTICS			PARAMETRIC STATISTICS		
Normality Test	RejectK	RejectK	Normality Test	RejectK	RejectK
Relative Skewness	0.64	0.70	Relative Skewness	0.33	-0.55
Relative Kurtosis	3.14	2.64	Relative Kurtosis	2.79	2.44
Arithmetic Mean Ratio	99.1	102.2	Arithmetic Mean Ratio	93.6	97.2
Weighted Mean Ratio	90.6	90.0	Weighted Mean Ratio	91.2	74.8
Geometric Mean Ratio	93.6	97.2	Geometric Mean Ratio	91.6	94.0
Harmonic Mean Ratio	87.8	92.5	Harmonic Mean Ratio	89.5	90.2
Standard Deviation	33.2	34.7	Standard Deviation	20.2	24.7
Coefficient of Variation (COV)	33.5	34.0	Coefficient of Variation (COV)	21.5	25.4
Price-Related Differential (PRD)	1.09	1.14	Price-Related Differential (PRD)	1.03	1.30
Lower PRD Confidence Interval	1.04	1.00	Lower PRD Confidence Interval	0.98	1.04
Upper PRD Confidence interval	1.16	1.32	Upper PRD Confidence interval	1.09	1.68
Coeff. of Price-Related Bias (PRB)	-0.17	-0.02	Coeff. of Price-Related Bias (PRB)	-0.29	-0.20
Lower PRB Confidence Interval	-0.33	-0.29	Lower PRB Confidence Interval	-0.47	-0.51
Upper PRB Confidence Interval	-0.01	0.25	Upper PRB Confidence Interval	-0.11	0.11
Average Sale Price	72,118	26,088	Average Sale Price	65,408	55,222
Average Appraised Value	65,326	27,916	Average Appraised Value	59,647	41,283

105 : WYANDOTTE		
GENERAL STATISTICS	Residential	Comm./Ind
Original Number of Sales	315	52
Trimmed Outliers	37	3
Number of Ratios: Outliers Removed	278	49
Minimum Ratio	21.7	26.9
Maximum Ratio	893.3	350.6
Minimum Sale Price	2,500	18,000
Maximum Sale Price		
	627,257	6,350,000
DISTRIBUTION FREE STATISTICS	20.0	20.0
Median Ratio	90.2	83.0
Lower Median Confidence Interval	88.1	73.4
Upper Median Confidence Interval	92.9	90.4
Broadened Median Ratio	90.4	82.4
Coefficient of Dispersion (COD)	17.5	29.3
Lower COD Confidence Interval	15.8	23.2
Upper COD Confidence Interval	19.5	38.7
Value Weighted COD	14.3	31.4
Coefficient of Concentration @10%	38.1	30.8
Coefficient of Concentration @15%	49.2	36.5
Coefficient of Concentration @20%	58.7	46.2
Coefficient of Concentration @50%	84.8	76.9
Coefficient of Concentration @100%	92.1	94.2
Coefficient of Interquartile Deviation	16.1	26.0
Median Percent Deviation	15.5	25.8
Lower Quartile (25th Percentile)	77.9	60.7
Upper Quartile	107.0	103.9
PARAMETRIC STATISTICS	107.0	100.9
Normality Test	RejectK	RejectK
Relative Skewness	0.36	0.59
Relative Kurtosis		
	3.38	3.42
Arithmetic Mean Ratio	89.0	81.6
Weighted Mean Ratio	88.2	70.1
Geometric Mean Ratio	86.6	75.7
Harmonic Mean Ratio	84.2	69.5
Standard Deviation	20.3	30.9
Coefficient of Variation (COV)	22.8	37.8
Price-Related Differential (PRD)	1.01	1.16
Lower PRD Confidence Interval	0.99	1.03
Upper PRD Confidence interval	1.03	1.29
Coeff. of Price-Related Bias (PRB)	-0.20	-0.02
Lower PRB Confidence Interval	-0.28	-0.13
Upper PRB Confidence Interval	-0.13	0.08
Average Sale Price	117,448	518,285
Average Appraised Value	103,531	411,182

Section II

Kansas Real Estate

Sales Validation Questionnaire

ONLY FOR USE IN COUNTIES APPROVED TO ACCEPT ONE-PART FORMS (See website information below) KANSAS REAL ESTATE SALES VALIDATION QUESTIONNAIRE

10-110-10					_				$\overline{}$	$\overline{}$
FOR COUNTY USE ONLY:	- th									
DEED	>	l	l ———		_			l ·_		_
BOOK PAGE	8	CO. NO.	MAP	SEC	SHEET	QTR.	BLOCK	PARCEL	- 1	OWN
RECORDING	TYPE OF INSTRUMENT.		SPL	.IT 🗌	MO	YR	TY	AMOUNT	s	v
DATE/ (CR RA	DE	MUL	.TI 🗌					_	
ELLER (Grantor)		BLIVED	(Grantee)							
AME			(Grantee)							
MAILING		MAILING	3							
CITY/ST/ZIP		CITY/ST	ZIP							
				_						
PHONE NO. ()		PHONE	NO. ()						
email (optional)		email (o	ptional)							
IF AN ACENT SIGNS	THIS FORM, BOTH BUY	FR AND	ETTER TE	T EPH	ONE NO	WRFR	MITTER	RE ENTEREI	,	
		$\overline{}$							-	
BRIEF LEGAL DE	SCRIPTION	Pro	perty / Situ	ıs Add	ress:					
		. Na	me and Mail	ina Ad	dress for	Tax Sta	tements			
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 Check any special factors that a 	pply:	6.			made to	the pro	perty sind	ce January 1 st	?	
Пал			Yes [
Sale between immediate fami	ly members:							nodeling 🗌 Ad	ditio	ns
Specify the relationship			Date compl	eted _			Amount	\$		
Sale involved corporate affilia		7.	Were any d	elinque	ent prope	rty taxe	s paid by	the buyer? A	mt.\$_	
Auction sale (absolute auction	n 🗌 Yes 🔲 No)		Yes AN	D the a	mount w	as inclu	ded in the	e total sale pri	ce	
☐ Short sale (amount of lien(s) e	exceeds sale proceeds)		Yes but	the am	ount was	not inc	duded in	the total sale ;	price	
Transfer in lieu of foreclosure	or repossession		☐ No delin	quent ;	property t	axes we	ere includ	led in the sale	1	
Sale involved a build-to-suit o	r leaseback arrangement	8.	Method of fi	nancin	(check	all that a	(vlage			
Sale by judicial order (by a gu	ardian. executor.							☐ IRS 1031	Exch	ange
conservator, administrator, or								existing loan(s		ugu
Sale involved a government a	,							lot applicable		
Buyer (new owner) is a religio		lant 0	Was the pro							
organization, school or educal		ent 9.						uyers : an, word-of-m	ath	oto \
										eic.)
Buyer (new owner) is a finance		-						open market)	
company, pension fund, or mo		10.	Does the b		old title to	any ad	joining p	roperty?		
Sale of only a partial interest i				No						
Sale involved a trade or excha	ange of properties	11.						use this sale t	o be	a
■ None of the above			distressed,							
2. Check use of property at the tim			Yes	No	If yes, pl	ease de	escribe _			
	Agricultural land									_
Farm/Ranch with residence		1?								_
Condominium unit							r violatio			
Condominium unit	☐ Yes ☐ No	l n	.S.A. 79-14	37g. S	ame; pe	nalty fo	TYDIALI	ons. Any per	son v	who
Vacant land	Apartment building	s	hall falsify t	the val	ue of rea	ıl estate	transfe	rred shall be	deen	ned
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Vacant land [Other: (Specify)	Apartment building Commercial/Industrial b	s oldg. g	hall falsify t	the val	ue of rea	l estate d upon	transfe	rred shall be	deen	ned
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INSTRUCTIONS FOR COMPLETING THE SALES VALIDATION QUESTIONNAIRE One Part Form

- ITEM 1 Please check all boxes which pertain to the sale.
- ITEM 2 Check the box which describes the current or most recent use of the property at the time of sale. Check all boxes which are applicable if the property has multiple uses.
- ITEM 3 Check yes if the buyer assumed any long term lease(s) (more than 3 years remaining) at the time of sale. Enter the years remaining if known. Check the box if a tenant (renter or lessee) purchased the property.
- ITEM 4 Check yes if the purchase price included an operating business that may include intangible personal property such as a franchise, trade license, patent, trademark, stocks, bonds, and/or goodwill. Estimate the value of the intangibles if this was part of the purchase agreement and included in the total sale price.
- ITEM 5 Check yes if any tangible items of property were included in the sale price. If possible, provide a brief description and your estimate of all personal property included in the total sale price.
- ITEM 6 Check yes if the property characteristics changed after January 1st of the sale year. Indicate what type of major change(s) (such as demolition, new construction, remodeling, rehabilitation) took place by marking the appropriate box. Indicate the approximate date the changes took place and the approximate cost.
- ITEM 7 Check yes if any delinquent property taxes were paid by the buyer and included as part of the sale price. Do not include the estimated real estate taxes prorated for the year the property sold included as part of the typical escrow closing cost.
- ITEM 8 Check the predominate method of financing used to acquire the property. Check "Not Applicable" if money did not exchange hands.
- ITEM 9 Check yes if the property was advertised on the open market, listed with a real estate agent or broker, displayed a for sale sign, advertised in a newspaper or other publication, listed on the internet, and/or offered by word of mouth. A private sale is an exchange that was not made available to the general public or the property was not exposed on the open market.
- ITEM 10 Check yes if the buyer owns or controls the property adjoining or adjacent to the property being purchased.
- ITEM 11 Provide a brief explanation if either the buyer or seller did not act prudently, was not fully informed about the property, did not have knowledge of the local market, was poorly advised, did not use good judgment in the negotiations, was acting under duress, or was compelled to sell or buy the property out of necessity.
- ITEM 12 Provide the total sale price and date of sale. The date should be the date that either the deed or the contract for deed was signed, not the date the deed was recorded.
- ITEM 13 Please sign the questionnaire and list a daytime phone number. The county appraiser may need to make a follow up phone call to clarify unusual terms or conditions.

When a real estate sales validation questionnaire is not required due to one or more of the exemptions provided in 1-16 below, the exemption must be clearly stated on the document being filed. The Register of Deeds cannot add this information to the deed at filing.

TRANSFERS OF TITLE THAT DO NOT REQUIRE A SALES VALIDATION QUESTIONNAIRE:

- Recorded prior to the effective date of this act, i.e., July 1, 1991;
- (2) made solely for the purpose of securing or releasing security for a debt or other obligation;
- (3) made for the purpose of confirming, correcting, modifying or supplementing a deed previously recorded, and without additional consideration;
- (4) by way of gift, donation or contribution stated in the deed or other instruments:
- (5) to cemetery lots;
- (6) by leases and transfers of severed mineral interests;
- (7) to or from a trust, and without consideration:
- (8) resulting from a divorce settlement where one party transfers interest in property to the other;
- (9) made solely for the purpose of creating a joint tenancy or tenancy in common;
- (10) by way of a sheriff's deed;
- (11) by way of a deed which has been in escrow for longer than five years;
- (12) by way of a quit claim deed filed for the purpose of clearing title encumbrances;
- (13) when title is transferred to convey right-of-way or pursuant to eminent domain;
- (14) made by a guardian, executor, administrator, conservator or trustee of an estate pursuant to judicial order;
- (15) when title is transferred due to repossession; or
- (16) made for the purpose of releasing an equitable lien on a previously recorded affidavit of equitable interest, and without additional consideration.
 - (b) When a real estate sales validation questionnaire is not required due to one or more of the exemptions provided in 1-16 above, the exemption shall be clearly stated on the document being filed.

If you have any questions or need assistance completing this form, please call the county appraiser's office.

Section III

Ratio Study Validation

&

Statistical Procedures

Sales Ratio Study

The sales ratio study is an important performance evaluation tool in the mass appraisal process. It can be used to measure the county's overall appraisal accuracy by indicating the general level of appraisal and the degree of uniformity. The study can also be used to monitor the need for a general reappraisal or identify neighborhoods that may require a review. Information from the study can also be used to develop market trends affecting various types of properties. By identifying problem areas or selected groups of properties in need of attention, resources can be efficiently allocated.

The ratio study makes a comparison of recently sold properties to the county appraiser's estimate of market value. Recent sales of property can often serve as representatives of true market value if the buyer and seller are well informed, the market is open and competitive and neither party is acting with undue compulsion. The appraiser will also consider other factors that may influence the price paid for a property. In some cases, an adjustment to the sale price must be made before it can be used as a good indicator of market value.

The principal information source used to confirm the sale price and determine validity of a real estate transfer is the Kansas Real Estate Sales Validation Questionnaire. Kansas statutes requires that a questionnaire be completed and filed with the register of deeds before a deed, affidavit of equitable interest or other recording instrument is accepted for recording (with some exceptions per K.S.A. 79-1437e).

Information provided by the Kansas Real Estate Sales Validation Questionnaire is not always sufficient to make a validation decision and a follow-up verification may be required. The buyer, seller or agent may have to be interviewed in order to make a final decision on the validity or obtain additional information for needed adjustments. The determination to classify a sale as valid or invalid is based upon industry standards promulgated by the International Association of Assessing Officers (IAAO). Various factors will be considered during the screening process before invalidating a sale. Any sale that is affected by the following conditions will be considered invalid for ratio study purposes:

Property not exposed for sale on the open market

- Physical characteristics or highest and best use of the property changed after January 1, 2016, and before the sale occurred
- Sale involved a governmental agency liquidating repossessed property
- Transfer was determined to be a satisfaction of a contract for deed signed prior to the study year
- Transaction was a forced sale
- Sale included an excessive amount of tangible or intangible personal property
- Sale date not within the current study timeframe
- Split parcel
- Uninformed buyer and/or seller

The study concept is a simple one. The degree to which an appraisal made for tax purposes reflects market value can be indicated by the sale price of that property. If a sufficient number of recent sales are available, statistical measures can often provide reliable estimates of performance. Because property in Kansas is grouped into several subclasses, such as residential and commercial/industrial, a ratio study is conducted on each group to provide more detailed information.

The ratio for each property is calculated by dividing the appraised value by the sale price. The resulting ratios indicate how closely the appraiser achieved the goal of fair market value with a ratio of 100 percent being the most desirable. For the Kansas Real Estate Ratio Study, ratios are expressed as a percentage.

For example, consider the following five residential properties that have recently sold.

	Appraised	Sale		Ratio as a
Sale	Value	Price	Ratio	Percentage
1	\$25,000	\$20,000	1.25	125.0
2	\$45,000	\$50,000	0.90	90.0
3	\$12,000	\$15,000	0.80	80.0
4	\$30,000	\$30,000	1.00	100.0
	\$19.200	\$16,000	1 20	120.0

Distribution-Free Statistics

Distribution-free statistics do not require assumptions about the shape of the population distribution from which the ratio study sample was drawn. Distribution-free statistics are nonparametric estimates that include the median and median absolution deviation.

Median Ratio

The median ratio is one of the most common statistical measures used in mass appraisal performance. It is considered a robust measure of the overall level of assessment (central tendency) because of its insensitivity to low or high ratios in the sample.

The ratios must first be sorted in ascending or descending order (*arrayed*). If the number of sample ratios is odd, the median is the value halfway through the arrayed data set with an equal number of ratios above and below the median.

Sale	Ratio	
1	80.0	
2	90.0	
3	100.0	Median Ratio
4	120.0	
5	125.0	

If the number of sample ratios is even, the median value is determined by adding the two middle values that fall in the center of the array and dividing by 2.

Sale	Ratio		
1	80.0		
2	90.0		
3	100.0	M t D c	_
4	120.0	Median Ratio	-
5	125.0		
6	130.0		

The ratios 100.0 and 120.0 (sample no. 3 & 4) are in the middle of the array and should be added together and divided by 2.

$$\frac{100.0 + 120.0}{2} = 110.0 Median Ratio$$

Broadened Median Ratio (BMED)

The broadened median is a useful measure because it preserves the resistance of the median to outliers while achieving insensitivity to rounding and grouping of the middle observations. It is computed by averaging the median and up to six of the ratios around the median. The exact number depends on the sample size. Data sets with an odd number of ratios for sample sizes between five and eleven use the average of the three central ratios. For sample sizes greater than eleven the five central ratios are averaged. For data sets with an even number of ratios in sample sizes less than fourteen, the broadened median uses the four central ratios with weights 1/6, 1/3, 1/3 and 1/6. For data sets larger than fourteen, the broadened median uses the six central ratios with an assigned weight of 1/5 to each of the middle four ratios and 1/10 to the ratios at each end.

Broadened Median Ratio Computation

Example of odd numbered data set: 80.0 90.0 100.0 120.0 135.0

- 1. Sum of the three central values (90.0 + 100.0 + 120.0 = 310.0)
- 2. Divide by 3 (310.0/3) = **103.3** Broadened Median Ratio

Example of even number data set: 75.0 80.0 90.0 100.0 120.0 135.0

(80.0 * 1/6) + (90.0 * 1/3) + (100.0 * 1/3) + (120.0 * 1/3)13.3 + 30.0 + 33.3 + 20.0 =**96.7** *Broadened Median Ratio*

Coefficient of Dispersion (COD)

The coefficient of dispersion (COD) is the most common measure of uniformity in the mass appraisal industry. It measures the average amount of dispersion from the median and expresses it as a percentage of the median ratio. The statistic indicates how close the ratios are clustered around the median ratio.

COD Computation

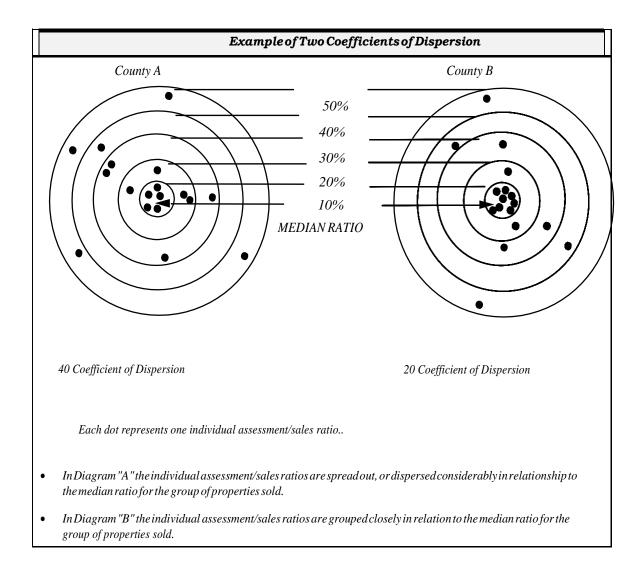
- 1. Subtract the median ratio from each ratio to find the absolute deviation (ignore plus or minus signs)
- 2. Sum the absolute deviations and divide by the sample size to find the average absolute deviation
- 3. Divide the average absolute deviation by the median ratio and multiply by 100 to obtain the percentage measure known as the COD

		Median	Absolute Deviation
Sale	Ratio	Ratio	From Median
1	80.0	100.0	20.0
2	90.0	100.0	10.0
3	100.0	100.0	00.0
4	120.0	100.0	20.0
5	125.0	100.0	25.0
		Sum of Deviations	75.0

$$\frac{20.0+10.0+00.0+20.0+25.0}{5} = \frac{75.0}{5} = 15.0 \ \underline{Average Absolute Deviation from Median}$$

$$\frac{15.0}{100.0} = 0.15*100 =$$
15.0 Coefficient of Dispersion (COD)

The lower the coefficient of deviation, the more uniform the assessments. A high COD suggest a lack of uniformity. The ideal value is θ ; however, this cannot be considered a realistic goal in an imperfect real estate market. Confidence intervals are used to evaluate this performance measure.



The two counties in the illustration above both have a median ratio of 100 percent. However, one of the counties has a COD of 20 while the other county has a COD of 40. This difference suggests that appraisals in the county with a COD of 20 came twice as close to the median level of appraisal as the county with a COD of 40.

Weighted Coefficient of Dispersion

To calculate a value weighted COD, the contribution of each sale is factored into the deviation of each ratio about the median. If the weighted COD is greater than the COD, relatively high-value properties have been appraised with greater variability than low-value properties. If the weighted COD is less than the COD, high-value properties have been appraised with less variability than low-value properties.

Weighted COD Computation

- 1. Calculate the mean sale price
- 2. Divide each sale price by the mean sale price to find the weight
- 3. Subtract each ratio from the median and take the absolute value (ignore plus or minus signs)
- 4. Multiply each weight times the absolute deviation from the median
- 5. Sum the weighted absolute deviations from the median
- 6. Divide by the number of ratios (61.9 / 5 = 12.4)
- 7. Divide by the median and multiply by $100 \ 12.4/100.0 * 100.0 = 12.4$

			Mean				Absolute Deviation	Weight x Absolute
	Appraised	Sale	Sale			Median	From	Deviation
Sale	Value	Price	Price	Weight	Ratio	Ratio	Median	From Median
1	\$25,000	\$20,000	\$26,200	0.7634	125.0	100.0	25.0	19.1
2	\$45,000	\$50,000	\$26,200	1.9084	90.0	100.0	10.0	19.1
3	\$12,000	\$15,000	\$26,200	0.5725	80.0	100.0	20.0	11.5
4	\$30,000	\$30,000	\$26,200	1.1450	100.0	100.0	00.0	00.0
5	\$19,200	\$16,000	\$26,200	0.6107	120.0	100.0	20.0	12.2
Total	\$131,200	\$131,000					·	61.9

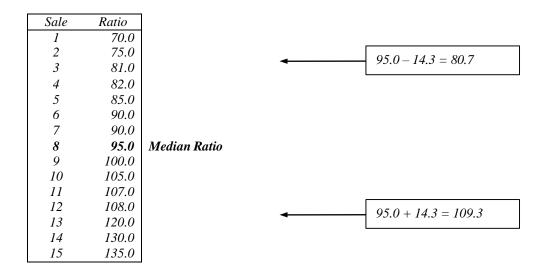
Mean sale price =
$$\frac{\$131,000}{5}$$
 = \\$26,200

$$\left(\frac{61.9}{5}\right) / 100.0*100 =$$
12.4 Weighted Coefficient of Dispersion

Coefficient of Concentration (COC)

The coefficient of concentration (*COC*) is another measure of appraisal uniformity. It is found by determining the portion of ratios falling within a specified percentage of the median. The higher the coefficient of concentration is the better the measure of uniformity. Coefficients are calculated for 10 percent, 15 percent, 20 percent, 50 percent and 100 percent.

COC @ 15%



If the range selected is 15%, to select the proportion that falls within the range:

95.0 * 15.0% = 14.3

95.0 - 14.3% = 80.7

95.0 + 14.3% = 109.3

10 ratios in the sample fall within the range of 80.7 to 109.3

10/15 = 0.667 * 100 = 66.7 Coefficient of Concentration

Coefficient of Interquartile Deviation

This measure was the original coefficient of dispersion recommended for use in ratio studies by the National Association of Tax Administrators. It is the interquartile range of ratios divided by 2, divided by the median ratio and multiplied by 100. The statistic is less sensitive to outliers than the COD currently defined by the IAAO.

Sale	Ratio
1	60.0
2	80.8
3	88.1
4	96.0
5	115.2
6	120.4
7	145.7

Median Ratio 96.0

 1^{st} Quartile = (Sale 2) 80.8 3^{rd} Quartile = (Sale 6) 120.4

Interquartile range 120.4 - 80.8 = 39.6

39.6 / 2 / 96.0 * 100 = 20.625 round to **20.6** Coefficient Interquartile Deviation

Median Percent Deviation

The median percent deviation is the *median* of the absolute deviations about the median, divided by the median ratio. It is an alternative to the COD and is highly resistant to the influence of outlier ratios.

Median Percent Deviation Computation

- 1. Subtract the median ratio from each ratio and find the absolute value of the deviation
- 2. Array the absolute deviations and find the median value deviation in the array
- 3. Divide the median absolute deviation by the median ratio and multiply by 100

		Median	Absolute Deviation
Sale	Ratio	Ratio	From Median
1	80.0	100.0	20.0
2	90.0	100.0	10.0
3	100.0	100.0	00.0
4	120.0	100.0	20.0
5	125.0	100.0	25.0

Arrayed Deviations: 0 10.0 20.0 20.0 25.0 - Median Absolute Deviation (MAD) = 20.0

$$MAD = 20.0, Median = 100.0$$

$$\frac{20.0}{100.0} = 0.200*100 = .200$$
 Median Percent Deviation

Percentiles and Ouartiles

Percentiles are dividing points for specific percentages of the data. The dividing points are the 25th percentile (*I*st quartile), the 50th percentile (*median or 2*nd quartile) and the 75th (*3*rd quartile) percentile. The interquartile range is the difference between the 25th and the 75th percentiles.

25th Percentile (1st Quartile)

The 25th percentile is the first percentile and exceeds one-quarter of the ratios. The formula for finding the lower 25th percentile is k = 0.25 * n + 0.25. The rank of the 25th percentile in an array of 99 ratios is 0.25 * 99 + 0.25 = 25.

75th Percentile (3rd Ouartile)

The 75^{th} percentile is the third percentile and exceeds three quarters of the ratios. The formula for finding the rank of the 75^{th} percentile is k = 0.75 * n + 0.75. Usually, the rank of the percentile will not be a whole number, which means one must interpolate between ratios in the sorted array. In a sample that has 100 ratios, the 75^{th} percentile is 0.75 * 100 + 0.75 = 75.75. If the 75^{th} and 76^{th} highest ratios are 0.98 and 1.00 respectively, the 75^{th} percentile is 0.98 + ((0.75) * (1.00 - 0.98)) = 0.995.

Normality Test

A normality test of the sample data can be used to determine if the spread of ratios in the population conforms to a standard normal distribution or bell-shaped curve (*Gaussian shape*). Although ratio data seldom conforms to a normal distribution, an effort has been made to examine and test the sample data. Parametric statistics generally depend upon an underlying assumption of normality. Numerous statistical tests can be employed to detect departures from a normal distribution. The ratio study program employs newer and more powerful procedures based on the empirical distribution function or standardized moments of skewness and kurtosis. These also include the D'Agostino-Pearson K², Shapiro-Wilk W (or Shapiro-Francia W') and Anderson-Darling A² tests. Several tests are used to evaluate each ratio study sample. The primary normality test selected for an individual ratio sample can be identified by a letter code below.

M: 3rd and 4th standardized moment's critical values

3: 3rd standardized moment critical value

4: 4th standardized moment critical value

A: Anderson-Darling A²

K: D'Agostino-Pearson K²

W: Shapiro-Wilk W (*Shapiro-Francia W' for n* > 50 to 99)

Null hypothesis (H_0) used for these tests: The study sample was drawn from a population with a normal distribution of ratios.

No statistical procedure is expected to perform perfectly under all circumstances. There is a small probability that an individual sample drawn from a population with a standard normal distribution of ratios may not pass a mathematical test. Thus, the null hypothesis will sometimes be rejected, when in fact it should not be (this is a type *I* error). The testing methods used by PVD are designed to limit the probability of rejection to less than 10%.

Skewness

Skewness is a descriptive measure of symmetry about the ratio distribution. Most ratio study frequency distributions tend to have longer tails that stretch to the right of the mean. This indication of positive skewness can often be attributed to high ratio outliers. Several approaches are available to calculate measures of skewness. The degree of skewness in this analysis is measured by the moment coefficient of skewness (based on the third moment about the mean). It is also called a measure of relative skewness. The normal distribution has no skewness and the value of this measure should be close to zero. Highly skewed sample distributions will have a measure greater than +3 or lower than -3.

Kurtosis

Kurtosis is a measure that is used to describe the concentration of ratio data in a frequency distribution. A flat distribution with short tails is sometimes referred to as platykurtic. A peaked distribution with thinner tails is referred to as leptokurtic, or centralized. The degree of kurtosis in this analysis is measured by the moment coefficient of kurtosis (based on the fourth moment about the mean). It is also called a measure of relative kurtosis. A normal distribution is bell shaped and referred to as mesokurtic, or neutral. It will have a value close to 3. Ratio study samples tend to have high peaks. Values above 6 tend to be associated with samples drawn from populations that would not be considered normal.

Parametric Statistics

Parametric statistics make certain assumptions about the distribution of the population ratios or samples drawn from these populations. When these assumptions are met, parametric statistics make more efficient use of the data than distribution-free statistics.

Arithmetic Mean Ratio

The arithmetic mean ratio is the average of the sample ratios.

Arithmetic Mean Ratio Computation

- 1. Sum the sample ratios
- 2. Divide by the sample number

In a normal distribution, the mean will equal the median. If the distribution is skewed to the right, the mean will be greater than the median, which is typical of ratio study data. If the distribution is skewed to the left, the mean will be less than the median.

Sale	Ratio
1	80.0
2	90.0
3	100.0
4	120.0
5	125.0

Note: The median sales ratio for this example is 100.0.

$$\frac{80.0 + 90.0 + 100.0 + 120.0 + 125.0}{5} = 103.0 Arithmetic Mean Ratio$$

Weighted Mean Ratio

The value weighted mean ratio is the average of a sample of ratios where proportional weights have been assigned to the sales prices. The weighted mean ratio gives weight to each dollar of value in the sample whereas the median and mean give equal weight to each ratio. The weighted mean ratio is often referred to as the aggregate ratio and is used in computing the price-related differential (*PRD*).

Weighted Mean Ratio Computation

- 1. Sum the appraised values
- 2. Sum the sales prices
- 3. Divide the sum of the total appraised value by the sum of the total sale price
- 4. Multiply by 100

	Appraised	Sale
Sale	Value	Price
1	\$55,000	\$50,000
2	\$125,000	\$128,800
3	\$75,000	\$75,000
4	\$40,000	\$32,000
5	\$15,000	\$59,900
Total	\$310,000	\$345,700

$$\frac{310,000}{345,700}$$
 = 0.8967*100=**89.7** Weighted Mean Ratio

Geometric Mean Ratio

The geometric mean offers a measure of appraisal level that, like the median, is not as susceptible to the influence of outliers as the mean and weighted mean. Large differences between the geometric mean and the arithmetic mean indicate the presence of significant outlier ratios.

Geometric Mean Ratio Computation

- 1. Multiply the ratios in the sample together and finding the n^{th} root of the result, where n equals the number of ratios in the sample
- 2. Find the n^{th} root of the product, where n equals the number of ratios in the sample

Sale	Ratio
1	80.0
2	90.0
3	100.0
4	120.0
5	125.0

 $(80.0*90.0*100.0*120.0*125.0)^{1/5}$ = **101.6** Geometric Mean Ratio

Harmonic Mean Ratio

The harmonic mean is used to calculate average rates. The rate usually indicates the relationship between two different types of measuring units that can be expressed reciprocally. The harmonic mean is less affected by extreme ratios than the geometric mean and the arithmetic mean.

Harmonic Mean Ratio Computation

- 1. Find the reciprocal of each ratio value (1divided by the ratio)
- 2. Sum the reciprocals
- 3. Divide the number of ratios in the sample by the sum of the reciprocals

	Appraised	Sale	Ratio	Reciprocal
Sale	Value	Price		Values
1	\$25,000	\$20,000	125.0	0.0080
2	\$45,000	\$50,000	90.0	0.0111
3	\$12,000	\$15,000	80.0	0.0125
4	\$30,000	\$30,000	100.0	0.0100
5	\$19,200	\$16,000	120.0	0.0083
Total				0.0499

Standard Deviation

The standard deviation is the most common measure of dispersion and may be a useful measure of appraisal uniformity if the underlying distribution of ratios in the population conforms to a normal distribution.

The formula for the standard deviation is $s = \sqrt{\frac{\sum (A_i/S_i - \overline{A/S})^2}{n-1}}$

s = standard deviation

 $\sum_{i=1}^{n} = \text{algebraic symbol for sum}$ = each Appraised Value

 S_i = each Sale Price

 $\overline{A}/\overline{S}$ = Sample Mean Ratio

= square or take to the 2^{nd} Power

 $\sqrt{}$ = the square root symbol

Standard Deviation Computation

- 1. Subtract the mean from each ratio
- 2. Square the difference
- 3. Sum the squared differences
- 4. Divide by the number of ratios less one to obtain the variance
- 5. Take the square root of the variance to arrive at the standard deviation

				Ratio	Square
	Appraised	Sale		Minus	the
Sale	Value	Price	Ratio	Mean	Difference
1	\$25,000	\$20,000	125.0	22.0	484.0
2	\$45,000	\$50,000	90.0	-13.0	169.0
3	\$12,000	\$15,000	80.0	-23.0	529.0
4	\$30,000	\$30,000	100.0	-3.0	9.0
5	\$19,200	\$16,000	120.0	17.0	289.0
Total					1480.0
Mean	103.0				

$$\sqrt{\frac{1480.0}{5-1}} = \sqrt{\frac{1480.0}{4}} = \sqrt{370.0} \ \underline{Variance}$$

 $\sqrt{370.0} = 19.2$ Standard Deviation

Coefficient of Variation (COV)

The coefficient of variation (COV) is a relative measure of appraisal uniformity that is based on the standard deviation.

Coefficient of Variation (COV) Computation

- 1. Compute the standard deviation
- 2. Divide the standard deviation by the arithmetic mean ratio

Using the standard deviation of 19.2 and the arithmetic mean ratio of 103.0, the calculation would be as follows.

$$\frac{192}{103.0}*100 = 18.6$$
 Coefficient of Variation (COV)

Price-Related Differential (PRD)

The price-related differential (*PRD*) is a statistic for measuring assessment regressivity or progressivity. Appraisals are considered regressive if high-value properties are under appraised relative to low-value properties and progressive if high-value properties are relatively over appraised.

A PRD of 1.00 is the most desirable state and indicates that no assessment bias exists between the low and high value properties. A PRD greater than 1.00 suggests that high-value property may be under appraised relative to lower valued property. If the PRD is less than 1.00, high-value property may be over appraised relative to low-valued property.

Price-Related Differential (PRD) Computation

1. Divide the arithmetic mean ratio by the weighted mean ratio

	Appraised	Sale	
Sale	Value	Price	Ratio
1	\$25,000	\$20,000	125.0
2	\$45,000	\$50,000	90.0
3	\$12,000	\$15,000	80.0
4	\$30,000	\$30,000	100.0
5	\$19,200	\$16,000	120.0
Total	\$131,200	\$131,000	515.0

$$\frac{515.0}{5} = 103.0 \text{ Arithmetic Mean}$$

$$\frac{131,200}{131,000}$$
 * 100 = 100.2 Weighted Mean Ratio

$$\frac{103.0}{100.2}$$
 = **1.03** *Price-Related Differential (PRD)*

The arithmetic mean ratio is 103.0 and the weighted mean ratio is 100.2 (1.002 * 100). The PRD is found by dividing the mean ratio by the weighted mean ratio.

The example above may indicate some assessment regressivity. The International Association of Assessing Officers *Standard on Ratio Studies* recommends the price-related differential (*PRD*) should range between 0.98 and 1.03. Confidence intervals are used to evaluate this performance measure.

Price-Related Bias (PRB)

Price-related bias (PRB) is a coefficient that provides an index of appraisal/sale ratio change to market value change (vertical equity) obtained by regressing the ratio deviations from the median ratio (percentage changes) on a proxy of market value. The market value proxy is obtained by giving equal weight to appraised values and sales prices. The regression summary output coefficient, β_1 (X Variable 1 if developed in Microsoft Excel), or slope of the regression line represents the corresponding percentage change in ratios.

Price-Related Bias (PRB) Computation

- 1. Calculate the ratio for each sale and find the median ratio of the sample.
- 2. Compute the proxy of market value. This term is composed of 50 percent of sale price + 50 percent of appraised value. To ensure that appraised values and sales prices receive equal weight, appraised values are divided by the median ratio (trended) before summing:

```
Proxy\_MV = 0.50 \bullet \times (AV/Median\ ratio) + 0.50 \times SP Where: AV = Appraised\ Value
```

 $SP = Sale\ Price$

Take the natural logarithm of the value proxy and divide by the natural log of 2 (.693): $Ln_ProxyMV = LN(Proxy_MV)/LN(2)$

Taking logarithms converts the market value proxy to a percentage basis, which substantially minimizes the impact of atypically high values (outliers) in the analysis. Dividing by the natural log of 2 allows each increment of 1 to be interpreted as a change of 100%. (For example: LN(100,000)/LN(2) = 16.613 and LN(200,000)/LN(2) = 17.613).

4. Compute percentage differences of each sale ratio in the sample when compared to the sample median ratio:

```
Pct_Diff = (Sale ratio – Median ratio)/Median ratio
Where:
PCT_Diff = Percentage Difference
```

Sale ratio = Appraised value / sale price

- 5. Set up a simple linear regression where the independent variable is the log of the market value proxy (3) and the dependent variable is the associated sale ratio percentage difference (4): $Pct_Diff = \beta_0 + \beta_1 \times Ln_ProxyMV$
- 6. Evaluate the p-Value for significance. It must be <= .05 to be significant
- 7. Examine the upper and lower 95% confidence intervals:

The PRB coefficient (slope) should fall between -0.05 and 0.05. If the 95 percent confidence interval does not overlap this range, one can reasonably conclude that appraisal levels change by more than 5 percent when market values are halved or doubled. PRBs for which 95 percent confidence intervals fall outside the range of -0.10 to 0.10 indicate unacceptable vertical inequities.

In the following example ratios decline by 34.0 percent when market values double (and increase by 34.0 percent when market values are halved). The 95 percent confidence interval is -0.381 to -0.300.

AV	SP	Ratio	AV/Med	MV proxy	X Ind Var LN(MV Proxy)	Y Dep Var Pct Diff
67,500	125,000	0.54	78,488	101,744	16.635	-0.372
51,000	85,000	0.60	59,302	72,151	16.139	-0.302
55,800	90,000	0.62	64,884	77,442	16.241	-0.279
50,400	70,000	0.72	58,605	64,302	15.973	-0.163
40,500	54,000	0.75	47,093	50,547	15.625	-0.128
48,360	62,000	0.78	<i>56,233</i>	59,116	15.851	-0.093
53,300	65,000	0.82	61,977	63,488	15.954	-0.047
44,720	52,000	0.86	52,000	52,000	15.666	0.000
36,400	40,000	0.91	42,326	41,163	15.329	0.058
<i>37,830</i>	39,000	0.97	43,988	41,494	15.341	0.128
30,000	30,000	1.00	34,884	32,442	14.986	0.163
33,600	32,000	1.05	39,070	35,535	15.117	0.221
33,000	30,000	1.10	38,372	34,186	15.061	0.279
9,000	6,000	1.50	10,465	8,233	13.007	0.744
8,500	5,000	1.70	9,884	7,442	12.861	0.977
	Median	0.86				

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	5.292	0.2881	18.370	1.108E-10	4.670	5.915
X Variable 1	-0.340	0.0188	-18.137	1.300E-10	-0.381	-0.300

Note: No outlier trimming was employed for this new performance measure. In order to fully assess the usefulness of the statistic, extreme, influential, and leverage ratios must be identified through routine regression diagnostic test and reasonable cutoff procedures applied. Confidence intervals are used to evaluate this performance measure. No formal IAAO performance standard has been established at this time. However, the general area of compliance for the PRB is expected to fall between -.050 and +0.050.

Average Sale Price

Average Sale Price Computation

- 1. Sum the sale prices
- 2. Divide by the number of sale prices in the sample

	Sale
Sale	Price
1	\$20,000
2	\$50,000
3	\$15,000
4	\$30,000
5	\$16,000
Total	\$131,000

$$\frac{\$131,000}{5} = \$26,200$$
 Average Sale Price

Average Market (Appraised) Value Estimate

Average Market Value Computation

- 5. Sum the appraised values
- 6. Divide by the number of observations in the sample

	Appraised
Sale	Value
1	\$25,000
2	\$45,000
3	\$12,000
4	\$30,000
5	\$19,200
Total	\$131,200

$$\frac{$131,200}{5}$$
 = \$26,240 *Average Market Value*

Trimming Outlier Ratios

Outliers are extreme ratios that are considered highly unusual when compared to the sample as a whole. These aberrant ratios can distort some statistical measures. The potential for damage is greater when the sample sizes are small. One anomalous ratio can exert a controlling influence over a ratio study outcome and produce misleading information. Although extra steps have been taken in the sale verification and screening process to identify suspect sales; some suspect ratios may slip through. Uniform trimming procedures have been used to remove the influence of outlier ratios prior to calculating the following statistics and performance measures.

Trimmed Statistical Measures				
Coefficient of Dispersion (COD)	Weighted Mean	PRD Confidence Intervals		
COD Confidence Intervals	Geometric Mean	Average Sale Price		
Weighted COD	Standard Deviation	Average Market Value		
Harmonic Mean	Coefficient of Variation	Normality testing		
Arithmetic Mean	Price-Related Differential (F	PRD)		

Trimming Procedures for Removing Outlier Ratios

- 1. The interquartile range of the sample is calculated by locating the first and third quartile points. The first quartile point is identified by the formula (n * .25) + .25 (n is the sample size). The third quartile is identified by the formula (n * .75) + .75.
- 2. The interquartile range (third quartile first quartile) is multiplied by a factor of 1.5 to establish a base width for general outlier trimming. A factor of 3 is used to remove extreme outliers only.
- 3. The base width is added to the third quartile and subtracted from the first quartile to set the outlier trim points.

An additional screen has been built into the trimming algorithm to restrict the maximum percentage of trimmed ratios to 20 percent.

Note: Most personal computer spreadsheets contain functions to locate the first (Q1) and third (Q3) quartile, but they do not all use the same formula to calculate quartiles. PVD uses the same formula as Minitab, SPSS and NCSS. Excel uses $(n \times .25) + .75$ for Q1 and $(n \times .75) + .25$ for Q3. The difference in formulas CAN cause trim points to be different.

Determining Minimum Sample Size from Tolerance Limits

In order for ratio study inferences to be reliable, it is necessary to know if the sample size is sufficient. For this Kansas ratio study, nonparametric tolerance limits have been employed to develop minimum sample size guidelines. A tolerance limit provides an interval wherein prescribed proportions of ratio populations are expected to lie, with a given level of statistical probability. For ratio study samples in the Residential or Commercial/Industrial subclass, a threshold has been selected to coincide with an 85 percent probability that at least 50 percent of the population ratios will be represented by the distribution of ratios found in the sample.

The table below provides information that can be used to evaluate sample size adequacy. For the Residential and Commercial/Industrial subclasses, a minimum of five ratios are required to achieve the minimum sample size threshold and provide a sufficient number of observations to develop confidence interval estimates. In most counties the Residential subclass sample will exceed 13 sales and achieve an 85 percent probability that 75 percent of the population ratios will be represented by the sample. Small counties will require supplemental sales (over the past 4 years) if less than five recent sales are available to develop a ratio sample for the Commercial/Industrial subclass. Large counties that qualify for representative residential sampling are held to higher standards. The sample size goal is expected to meet a 90 percent probability that 98 percent of the population ratios will be represented by the sample distribution. To meet this threshold, a county must have more than 194 valid residential sales during the study year.

Sample Sizes for Nonparametric Tolerance Limits								
Proportion of Ratios	50%	70%	75%	80%	85%	90%	95%	98%
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85% Probability	6	10	13	16	22	33	67	168
•								
90% Probability	7	12	15	18	25	38	77	194
J								
95% Probability	8	14	18	22	30	46	93	236

References:

Conover, W.J., 1980. Practical nonparametric statistics. New York: John Wiley & Sons Wilks, S.S., 1962. Mathematical statistics. New York: John Wiley & Sons

Bootstrap Confidence Intervals for

the Compliance Ratio Study

Traditional statistical methods have not been very successful in assessing the accuracy of inferences when the underlying data deviates from a Gaussian (normal or bell-shaped) distribution. Ratio study data typically falls into this category. Statistical procedures developed over the last twenty years have improved the accuracy of reliability measures, such as confidence intervals, in many scientific and industrial applications. The bootstrap is one such method that

employs computer simulation and re-sampling techniques to provide a more powerful way to

comprehend the uncertainty associated with ratio study performance measures. This process can

provide estimates for statistical measures that do not easily lend themselves to formulas by

reducing the dependency on mathematical and model assumptions.

The name bootstrap is derived from the old saying, "pulling yourself up by your bootstraps (Efron,

1999), "that reflects the fact that one available sample gives rise to many others.

Bootstrapping produces a confidence interval in a different but natural way. Bootstrap samples are generated using a Monte Carlo simulation routine to prepare numerous re-samples of the same size as the original sample. After these samples are generated, the statistics of interest are computed (*Coefficient of Dispersion, Median Ratio and Price-Related Differential*). A bootstrap confidence interval for each statistic can be obtained from the distribution of the sample.

References:

Efron, Bradley and Robert J. Tibshirani. 1993. An introduction to the bootstrap. New York: Chapman & Hall.

Diaconis, Persi and Bradley Efron. 1983. Computer-intensive methods in statistics. Scientific American. 148:116-130.

Gunter, Bert. 1991. Bootstrapping: How to make something from almost nothing and get statistically valid answers. *Quality Progress*. 24(12)97-103.

Hall, Peter. 1992. Bootstrap and the edgeworth expansion. New York: Springer-Verlag.

Residential Sampling Counties

A sample of sales ratios from a county may not accurately represent the population from which they have been drawn. Ratio study performance measures can be distorted or skewed by a disproportionate influence of new construction, highly active neighborhoods or unique properties. Depressed areas, older neighborhoods and properties with low turnover rates are often underrepresented in a sample of sales. A large sample does not mitigate these problems. Research conducted by PVD has shown that in the largest counties, a smaller representative sample can improve statistical accuracy and permit considerable savings of staff time and resources in conducting the validation process.

Legislative changes in 1994 granted the Director of Property Valuation discretion to select a *random sample* from the pool of valid sales in the residential subclass of property. This option can be used in counties with more than 15,000 parcels.

The Ratio Study Technical Advisory Committee has determined that an eligible county should have a sufficient number of transfers to construct a representative sample with at least 200 valid residential sales for the study year. The 13 counties listed below meet the aforementioned criteria for the 2013 study.

Residential Sampling Counties						
County	Sample Sizo	County	Sample Siz	County	Sample Size	
Butler	250	McPherson	200	Wyandotte	300	
Douglas	200	Reno	200			
Ford	200	Riley	250			
Harvey	200	Saline	250			
Johnson	350	Sedgwick	350			
Leavenworth	200	Shawnee	300			

To perform residential sampling the following procedures have been implemented:

- Changes in population property characteristics are analyzed each year before sampling goals are established for a county.
- A computer assisted sampling program is employed to track the sampling process and ensure that sales will be selected on a random basis.
- A process has been employed to develop a more representative sample based on salient property characteristics of the population, such as, year built, size and construction quality.
- Sales validation and appeal procedures are uniform between residential sampling counties and nonsampling counties.
- Residential sampling plans and results are submitted each year to the Ratio Study Technical Advisory Committee for review and evaluation.

Supplemental Sales

If less than six valid sales occurred in a county with the commercial/industrial subclass of property during the study cycle, a review of sales from the previous four-year timeframe was made (*January 1, 2010 through December 31, 2013*) pursuant to K.S.A. 79-1488. Fifty-seven Kansas counties required supplemental sales for the commercial/industrial subclass for the year 2016. Approximately 330 supplemental commercial sales have been included in the statistical analysis for the year 2016 ratio studies.

The appraised value for supplemental sales reflects the appraised value for the year in which the property sold.

Section IV Kansas Statutes Pertaining to the "2017 Appraisal Sales Ratio Study"

Kansas Statutes

79-503a. Fair market value defined; allowable variance; factors to be considered in determining fair market value; generally accepted appraisal procedures to be utilized.

"Fair market value" means the amount in terms of money that a well informed buyer is justified in paying and a well informed seller is justified in accepting for property in an open and competitive market, assuming that the parties are acting without undue compulsion. In the determination of fair market value of any real property which is subject to any special assessment, such value shall not be determined by adding the present value of the special assessment to the sales price. For the purposes of this definition it will be assumed that consummation of a sale occurs as of January 1.

Sales in and of themselves shall not be the sole criteria of fair market value but shall be used in connection with cost, income and factors including but not by way of exclusion:

- (a) The proper classification of land and improvements;
- (b) the size thereof;
- (c) the effect of location on value;
- (d) depreciation, including physical deterioration or functional, economic or social obsolescence;
- (e) cost of reproduction of improvements;
- (f) productivity; taking into account all restrictions imposed by the state or federal government and local governing bodies, including, but not limited to, restrictions on property rented or leased to low income individuals and families as authorized by section 42 of the federal internal revenue code of 1986, as amended:
- (g) earning capacity as indicated by lease price or by capitalization of net income, or by absorption or sell-out period;
- (h) rental or reasonable rental values or rental values restricted by the state or federal government or local governing bodies, including, but not limited to, restrictions on property rented or leased to low income individuals and families, as authorized by section 42 of the federal internal revenue code of 1986, as amended
- sale value on open market with due allowance to abnormal inflationary factors influencing such values;
- (j) restrictions or requirements imposed upon the use of real estate by the state or federal government or local governing bodies, including zoning and planning boards or commissions, and including, but not limited to, restrictions or requirements imposed upon the use of real estate rented or leased to low income individuals and families, as authorized by section 42 of the federal internal revenue code of 1986, as amended; and
- (k) comparison with values of other property of known or recognized value. The assessment-sales ratio study shall not be used as an appraisal for appraisal purposes.

The appraisal process utilized in the valuation of all real and tangible personal property for ad valorem tax purposes shall conform to generally accepted appraisal procedures which are adaptable to mass appraisal and consistent with the definition of fair market value unless otherwise specified by law.

History: L. 1982, ch. 391, § 2; L. 1990, ch. 346, § 3; L. 1995, ch. 254, § 5; L. 1997, ch. 126, § 42; L. 2003, ch. 156, § 4; L. 2009, ch.97, § 3; July 1.

79-1437c. Real estate sales validation questionnaires; required to accompany transfers of title; retention time; use of information.

No deed or instrument providing for the transfer of title to real estate or affidavit of equitable interest in real estate shall be recorded in the office of the register of deeds unless such deed, instrument or affidavit shall be accompanied by a completed real estate sales validation questionnaire completed by the grantor or grantee or the agent of such grantor or grantee concerning the property transferred. Such questionnaire shall not be filed of record by the register of deeds but shall be retained for a period of five years at which time they shall be destroyed. The register of deeds shall in conjunction with the county clerk use the information derived from such questionnaires in cooperating with and assisting the director of property valuation in developing the information as provided for in K.S.A. 79-1487, and amendments thereto.

History: L. 1991, ch. 162, § 3; L. 1992, ch. 159, § 1; L. 1992, ch. 282, § 18; L. 1995, ch. 252, § 25; Jan. 1, 1996.

79-1437d. Same; devised by director of property valuation; approval by legislature; information to be contained therein.

The real estate sales questionnaire shall be devised by the director of property valuation, and the director shall furnish copies thereof to the register of deeds. Upon proposing modifications or changes to the real estate sales validation questionnaire devised and used prior to 1992 or any validation questionnaire approved by the legislature in 1992 or thereafter, the director of property valuation shall submit such proposal to the legislature. Upon the failure of the legislature to enact legislation modifying the director's proposal within 60 days of submission thereof, such proposal shall be deemed to be approved, and the director's modified questionnaire may be utilized at anytime thereafter. The questionnaire shall be devised to obtain information regarding the identification and location of the property, name and address of the purchaser, sales price, date of sale, the classification and subclassification to which such property belongs, nature and circumstances peculiar to the sale, whether any personal property was included in the sales price, whether the purchaser assumed any mortgage or liens, loans, leases or taxes, the method of financing, whether any special assessments are levied against the property and such other information as the director of property valuation shall require. No information shall be requested in such questionnaire which would require the disclosure of the interest rate paid by the purchaser or the specific term of any mortgage.

History: L. 1991, ch. 162, § 4; July 1.

79-1437e. Same; inapplicability to certain transfers of title.

- (a) The real estate sales validation questionnaire required by this act shall not apply to transfers of title:
 - (1) Recorded prior to the effective date of this act;
 - (2) made solely for the purpose of securing or releasing security for a debt or other obligation;
 - (3) made for the purpose of confirming, correcting, modifying or supplementing a deed previously recorded, and without additional consideration;
 - (4) by way of gift, donation or contribution stated in the deed or other instrument;
 - (5) to cemetery lots;
 - (6) by leases and transfers of severed mineral interests;
 - (7) to or from a trust, and without consideration;
 - (8) resulting from a divorce settlement where one party transfers interest in property to the other;
 - (9) made solely for the purpose of creating a joint tenancy or tenancy in common;
 - (10) by way of a sheriff's deed;
 - (11) by way of a deed which has been in escrow for longer than five years;
 - (12) by way of a quit claim deed filed for the purpose of clearing title encumbrances;
 - (13) when title is transferred to convey right-of-way or pursuant to eminent domain;
 - (14) made by a guardian, executor, administrator, conservator or trustee of an estate pursuant to judicial order;
 - (15) when title is transferred due to repossession; or
 - (16) made for the purpose of releasing an equitable lien on a previously recorded affidavit of equitable interest, and without additional consideration.
- (b) When a real estate sales validation questionnaire is not required due to one or more of the exemptions provided in subsection (a), the exemption shall be clearly stated on the document being filed.

History: L. 1991, ch. 162, § 5; L. 1992, ch. 159, § 2; L. 1994, ch. 275, § 12; L. 2002, ch.22, §1; July

- **79-1437f. Same; disposition and use of contents thereof, to and by whom.** Except as otherwise provided by K.S.A. 79-1460, and amendments thereto, contents of the real estate sales validation questionnaire shall be made available only to the following people for the purposes listed hereafter:
 - (a) County officials for cooperating with and assisting the director of property valuation in developing the information as provided for in K.S.A. 79-1487, and amendments thereto;
 - (b) any property owner, or the owner's representative, for prosecuting an appeal of the valuation of such owner's property or for determining whether to make such an appeal, but access shall be limited to the contents of those questionnaires concerning the same constitutionally prescribed subclass of property as that of such owner's property;
 - (c) the county appraiser and appraisers employed by the county for the appraisal of property located within the county;
 - (d) appraisers licensed or certified pursuant to K.S.A. 58-4101 *et seq.*, and amendments thereto, for appraisal of property and preparation of appraisal reports;
 - (e) financial institutions for conducting appraisals as required by federal and state regulators;
 - (f) the county appraiser or the appraiser's designee, hearing officers or panels appointed pursuant to K.S.A. 79-1602 or 79-1611, and amendments thereto, and the state court of tax appeals for conducting valuation appeal proceedings;
 - (g) the board of county commissioners for conducting any of the boards statutorily prescribed duties;
 - (h) the director of property valuation for conducting any of the director's statutorily prescribed duties;
 and
 - a person licensed pursuant to the real estate brokers' and salespersons' act for purposes of fulfilling such person's statutory duties and providing information on market value of property to clients and customers.

History: L. 1991, ch. 162, § 6; L. 1992, ch. 282 § 19; L. 1999, ch. 123, § 2; L. 2002, ch. 23 § 1; L. 2006, ch 151, § 3; L 2007, ch. 63, § 1; 2008, ch. 109, §87; July 1.

79-1437g. Same; penalty for violations.

Any person who shall falsify the value of real estate transferred shall be deemed guilty of a misdemeanor and upon conviction thereof shall be fined not more than \$500.

History: L. 1991, ch. 162, § 7; L. 1992, ch. 159, § 3; April 30.

79-1444 Same; technical advisory committee; membership; qualifications, compensation and allowance; duties; additional advisory committee, appointment.

There is hereby established a technical advisory committee on the assessment-sales ratio study. The committee shall consist of three (3) members, appointed by and serving at the pleasure of the secretary of revenue. Members of the committee shall have such education and training as may be necessary to advise the director in the methodology of conducting studies of the type required under the provisions of this act. Members of the advisory committee on assessment-sales ratio study attending meetings of such committee, or attending a subcommittee meeting thereof authorized by such committee, shall be paid amounts provided in subsection (e) of K.S.A. 75-3223 and amendments thereto. The same shall be paid from appropriations to the secretary of revenue upon warrants of the director of accounts and reports issued pursuant to vouchers approved by the secretary of revenue or a person or persons designated by him or her.

It shall be the duty of the committee to advise and consult with and assist the director in the review and evaluation of the procedures used by the director of property valuation in making the assessment-sales ratio study and to make recommendations for any changes deemed necessary. It shall be the duty of the board of regents and the administration of each of the state institutions thereunder to authorize any staff members so selected to participate as members in the activities of such committee. The secretary of revenue may appoint an additional advisory committee of not to exceed seven (7) members to serve at his or her pleasure.

History: L. 1965, ch. 516, § 6; L. 1968, ch. 208, § 14; L. 1972, ch. 362, § 7; L. 1974, ch. 348, § 99; L. 1974, ch. 428, § 7; L. 1975, ch. 416, § 27; July 1.

79-1485 Kansas real estate ratio study act: purposes.

- (a) This act shall be known and may be cited as the Kansas real estate ratio study act.
- (b) The purpose of this act is to provide statistical information regarding the relationship of the appraised value to the selling price of real estate which has sold during the study year and the relative level of uniformity of appraisal within and among counties and to report such information in convenient form to the legislature and other interested parties. The statistical information determined pursuant to this act may be used by the director in carrying out such director's duties, including, but not limited to, assisting such director in the determination of substantial compliance under K.S.A. 79-1445, and amendments thereto.

History: L. 1992, ch. 131, § 1; L. 1994, ch. 275, § 8; July 1.

79-1486 Same; definitions. As used in this act:

- (a) "Sale" or "sales" shall include all transfers of real estate for which a real estate sales validation questionnaire is required by K.S.A. 79-1437c, and amendments thereto; however, all sales for which a real estate sales validation questionnaire is required by K.S.A. 79-1437c, and amendments thereto, need not be included in the final ratios determined;
- (b) "valid sale" is a sale that is an indicator of fair market value as defined in K.S.A. 79-503a, and amendments thereto;
- (c) "invalid sale" is a sale that is not an indicator of fair market value as defined in K.S.A. 79-503a, and amendments thereto;
- (d) "unvalidated sale" is a residential subclass sale that was not selected through a random sampling process and has not been determined to be either a valid sale or an invalid sale;
- (e) "real estate" shall include land, improvements and structures which are appraised as real property;
- (f) "director" shall mean the director of property valuation;
- (g) "classification" shall mean those classifications which apply to real property contained in K.S.A. 79-1439, and amendments thereto, or any stratification which may be prescribed by the director;
- (h) "average" shall mean that measure or measures of central tendency which the director shall determine best describes a group of individual ratios;
- (i) "ratio" shall mean the numerical relationship between the appraised or assessed value and the selling price; and
- (j) "study year" shall mean that twelve-month period beginning annually on January 1.

History: L. 1992, ch. 131, § 2; L. 1994, ch. 275, § 9; July 1.

79-1487 Same: duties of local officials; access of records by director.

It shall be the duty of all county officials to cooperate with and assist the director in the development of the information required by this act. Such county officials shall exchange such information as may be necessary to carry out the intent and purposes of this act. The director or the director's agents shall have access to all county records for the purpose of carrying out the intent and purposes of this act.

History: L. 1992, ch. 131, § 3; July 1.

79-1488 Same; authorities and duties of director.

It shall be the duty of the director to obtain all information relating to each sale of real estate as the director shall deem necessary to carry out the intent and purposes of this act. The director shall prescribe the form in which the data is obtained. The director shall assign agents who shall verify and categorize each sale as valid, invalid or unvalidated. The director shall determine the median ratio in relation to the county's certified value, the price-related differential, and the coefficient of dispersion for each classification of property in each county. If, in the director's opinion, sales from the study year are insufficient to determine reliable ratios for any classification of property in any county, sales from the four-year period preceding the study year may be used to supplement study year sales or the director may obtain or conduct appraisals for the purpose of supplementing, verifying or correcting ratios for the study year. The director may select random samples of residential subclass sales from counties having a total parcel count in excess of 15,000 to determine reliable residential subclass ratios for any such county. The random sample shall be selected prior to any validation process Data from deeds, other instruments of conveyance and real estate sales validation questionnaires recorded or filed with the register of deeds on or after the first day of February following the study year shall not be used in determining the ratios for any county.

History: L. 1992, ch. 131, § 4; L. 1994, ch. 275, § 10; July 1.

79-1489 Same; notification of ratios to county by the director; appeals, procedure.

The director shall determine the mid-year ratios for each county and notify the board of county commissioners thereof. When the final ratios are determined, the director shall notify the board of county commissioners of each county of the ratios determined for such county. If the board of county commissioners disagrees with the ratios determined for the county, such board, within 15 days after receipt of such notice, may appeal such determination to the state court of tax appeals. Written notice of appeal shall be served on the state court of tax appeals and the director by certified mail. The notice of appeal shall clearly and specifically state the facts upon which the appeal is based. The state court of tax appeals shall conduct a summary proceeding in accordance with the provisions of the Kansas administrative procedure act within 30 days of receipt of the written notice of appeal and shall issue findings and a final order within 30 days after the conclusion of such summary proceeding. If the state court of tax appeals finds that corrections in the ratios are necessary, it shall order the director to make necessary corrections consistent with such findings prior to the publication of the study.

History: L. 1992, ch. 131, § 5; L. 1994, ch. 275, § 11; L 2008, ch. 109, § 94; July 1.

79-1490 Same; publishing of study, when.

The director shall publish the ratio study after the procedures prescribed in K.S.A. 79-1489 have been concluded. If it is determined that the ratio study cannot be published by April 1, the director shall provide a preliminary ratio study to the governor, the speaker of the house and the president of the senate and their respective tax committees on or before March 15.

History: L. 1992, ch. 131, § 6; July 1.

79-1491 Same; rules and regulations.

The secretary of revenue shall adopt rules and regulations providing for the administration of this act.

History: L. 1992, ch. 131, § 7; July 1.

79-1492 Same; application of act.

The provisions of K.S.A. 79-1437e, 79-1485, 79-1486, 79-1488 and 79-1489 shall apply to all taxable years commencing after December 31, 1993.

History: L. 1992, ch. 131, § 8; L. 1994, ch. 275, § 13; July 1.

79-1493 Same; authority to compile and publish other statistics not affected.

Nothing in this act shall preclude the director from gathering, compiling or publishing any information or statistics in addition to those required by this act.

History: L. 1992, ch. 131, § 9; July 1.



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Sam Brownback, Governor

Nick Jordan, Secretary David N. Harper, Director

DIRECTIVE #14-046

TO: County Appraisers

SUBJECT: Scope of Work and Substantial Compliance

This Directive Supersedes Directive #92-002 and #92-003

This directive is adopted pursuant to the provisions of K.S.A. 79-505 and shall take effect and be in full force from and after its publication in the Kansas Register.

The following criteria and standards shall be used for appraisals developed in the 2014 valuation cycle (in preparation for January 1, 2015 valuation date) and subsequent years to determine whether a county is in substantial compliance with the statutory requirement to uniformly appraise real and personal property at its fair market value, as defined by K.S.A. 79-503a, and amendments thereto. In order to establish compliance or lack of compliance in each county, the Division of Property Valuation (PVD) shall conduct a ratio study to develop statistical performance measures as required by K.S.A. 79-1485 et. seq. PVD shall conduct a procedural audit in each county covering items deemed essential to establishing fair market value. PVD shall determine whether specific Kansas statutes pertaining to property taxation have been followed. In accordance with K.S.A. 79-1445, PVD will publish annually a list of the substantial compliance results for each county.

Criteria and Standards

The annual substantial compliance process uses an objective scoring system that PVD has developed to evaluate completion of key mass appraisal steps, accomplishment of assessment administration functions, and achievement of accuracy standards in each county. Points are awarded when a county meets minimum statistical performance measures, documentation is verified to confirm that mass appraisal procedures have been followed, and statutory requirements have been met. A maximum score of 100 is possible. A county must achieve a minimum score of 75 to attain substantial compliance. Any county achieving a score less than 75 shall be found in noncompliance and may be required to submit a detailed plan to correct areas of noncompliance.

Substantial compliance is based upon ratio study performance measures, an audit of procedural steps required to develop a credible mass appraisal, and verification that important statutory mandates have been met. The ratio study conducted by PVD is used to

verify that overall value conclusions meet minimum standards of reasonableness, consistency and accuracy. Refusal by county officials to cooperate in the ratio study may result in a noncompliance order. The procedural steps are tied to Kansas statutes and regulations, the International Association of Assessing Officers (IAAO) Standard on Mass Appraisal and the Uniform Standards of Professional Appraisal Practice (USPAP). Refusal by a county or district appraiser to perform any procedural step may result in a noncompliance order. Kansas statutes require critical functions to be performed and annual processing deadlines to be met by the county or district appraiser. Refusal to comply with any statutory requirement may result in a noncompliance order.

If a county is determined to be in noncompliance, the director may pursue all legal options, including, but not limited to, proceedings before the Kansas Court of Tax Appeals and/or the removal of the county or district appraiser from office. PVD may require the county to submit a detailed plan to correct areas of noncompliance. A PVD audit of all property tax functions and responsibilities may be initiated if the county does not implement its approved plan or the plan is ineffective in bringing the county back into compliance.

The director may include an administrative note on the final report if a county fails to achieve industry standard ratio study performance measures. Counties receiving an administrative note may be required to submit a plan to correct the area or areas not meeting the basic statistical standards.

The Compliance Scorecard along with the points possible follows:

Compliance Scorecard - Example of total points possible

Subclass	Appraised Value	Percent of Total Appraised Value
Residential		
Commercial/Industrial		
Total Appraised Value		

Subclass	Percent of Appraised Value (weighted)	Compliance Points Possible	Weighted Points	Points Received
1. Statistical Measures				
Residential				
Appraisal Level		25		
Appraisal Uniformity		25		
Commercial/Industrial				
Appraisal Level		25		
Appraisal Uniformity		25		
Statistical Compliance Points		50		

2. Procedures	Compliance Points Possible	Points Received
Scope of Work Appraisal Plan	4	
b. Sales File	4	
c. Parcel Maintenance Inspection	4	
d. Land Valuation Model Calibration	4	
e. Construction Cost Multiplier Analysis	4	
f. Depreciation Analysis	4	
g. Income Approach	4	
h. Comparable Sales Approach	4	
i. Final Review Process	4	
Total	36	
4. Cadastral Mapping	2	
5. Statutory Compliance		
a. Trend Study and CVN Mailing	2	
b. Informal Hearings	2	
c. Appraised Value Certification	2	
d. Personal Property	2	
 e. Preservation and Protection of Property Tax Records 	2	
Total	10	
I. Total Points Possible	100	
II. Total Points Received		
III. Overall Score (II/I)*100		

1. STATISTICAL MEASURES COMPLIANCE REVIEW (50 points)

Statistical compliance for the *residential* and *commercial/industrial* subclasses shall be determined separately. A maximum of 50 ratio study compliance points are possible for a county that achieves the median ratio (25 points) and COD (25 points) performance goals through statistical point estimates in both subclasses. Subclass points shall be weighted by the percentage of appraised value within the combined subclasses, as derived from the most recent statistical abstract. The percentage of appraised value, divided between the residential and commercial/industrial subclass will be shown at the top of the form. These percentages will be used to develop the point weighting for each statistical measure in the two subclasses. Subclass weights are expected to vary from county to county and from year to year.

The following is an example of the weighting procedure:

Subclass	Appraised Value	Percent of Total Appraised Value
Residential	\$250,000,000	84.7
Commercial/Industrial	\$45,000,000	15.3
Total Appraised Value	\$295,000,000	100.0

Subclass	Percent of Appraised Value (weighted)	Compliance Points Possible	Weighted Points	Points Received
1. Statistical Measures				
Residential				
Appraisal Level	84.7	25	21.2	
Appraisal Uniformity	84.7	25	21.2	
Commercial/Industrial				
Appraisal Level	15.3	25	3.8	
Appraisal Uniformity	15.3	25	3.8	
Statistical Compliance Points			50.0	

1. Sum the residential and commercial/industrial appraised value (\$250,000,000 + \$45,000,000 = \$295,000,000)

2. Divide each subclass appraised value by the total appraised value. \$250,000,000/\$295,000,000 = 84.7 percent (Residential)

\$45,000,000/\$295,000,000 = 15.3 percent (Commercial-Industrial)

Multiply the percent of appraised value (weighted) by the compliance points possible in each subclass for both the median ratio and COD.

> .847 times 25 = 21.2 .847 times 25 = 21.2 .153 times 25 = 3.8.153 times 25 = 3.8

Median ratio: 115.2 95% Confidence interval: 110.1 to 120.0 would not be considered in statistical compliance because the lower end (110.1) does not reach the acceptable range of 90.0 to 110.0 percent.

b. Appraisal Uniformity

The average deviation of ratios about the median appraisal level shall be measured by the coefficient of dispersion (COD). The COD measure must suggest a deviation of 20.0 or less for the *residential* subclass and the *commercial/industrial* subclass to achieve statistical compliance. If a subclass fails to meet this goal, confidence interval estimates shall be developed about the COD. If the range estimate for the subclass includes a COD of 20.0 or less at the 95% level of confidence, appraisal uniformity shall not be found out of statistical compliance.

For example:

COD: 18.0 95% Confidence interval: 13.0 to 22.0

This example is not considered out of compliance because the COD point estimate is less than 20.0. The confidence interval does suggest, however, there is a small probability the true COD could actually be greater than 20.0, due to sampling error.

COD: 30.0 95% Confidence interval: 22.0 to 38.0

This example is considered out of compliance because the COD point estimate is 30.0 and the lower range of the 95% confidence interval does not fall below 20.0 (the maximum limit for compliance).

COD: 22.0 95% Confidence interval: 17.0 to 26.0

This example is not considered out of compliance although the COD point estimate is 22.0. Due to sampling error, it is probable that the true COD is somewhere within the range of 17.0 to 26.0 at the 95% level of confidence. The county would not fail the compliance test because of insufficient statistical confirmation. The lower end of the confidence interval does fall below 20.0 (the maximum limit for compliance).

c. Sample Size

If less than six valid sales are collected for a subclass during the study period, valid sales within the same subclass from the four previous study periods may be included to develop a larger and more reliable sample for analysis.

If less than five valid sales are available in a subclass sample, ratio study performance measures will not be used to determine statistical compliance. The points allocated to the statistical measures for that subclass shall be subtracted from the total compliance points, thereby establishing a new base of total possible points.

All reinspection activity must have an inspection history record entered into the CAMA system showing the reviewer name, inspection date, and process code to adequately indicate the purpose of the review.

d. Land Valuation Model Calibration (4 points)

PVD shall verify that the county has developed and calibrated land valuation models in accordance with the Revaluation Maintenance Specifications. Neighborhood analysis forms, analysis documentation, and data summary must be complete to be considered in compliance. PVD shall also confirm land pricing tables have been updated. A market analysis for agricultural land must also be documented. Deviations from model assignments must be documented.

e. Construction Cost Multiplier Analysis (4 points)

If the county deviates from the current cost valuation system, PVD shall verify the county has a current residential and/or commercial/agricultural construction cost multiplier analysis in accordance with the Revaluation Maintenance Specifications. If the county recognizes a deviation from the current cost valuation system, cost tables must be updated to reflect the study. Deviation from the current cost valuation system without documentation will result in the loss of two points for the applicable property type. Two points for residential and two for commercial/agricultural are possible and are evaluated independently.

Sales of newly constructed properties may be used in the analysis for actual construction cost when appropriate.

f. Depreciation Analysis (4 points)

PVD shall verify the county has developed a depreciation analysis in accordance with the Revaluation Maintenance Specifications and PVD sales validation guidelines that utilizes all available valid sales. The county must include appropriate statistics, graphics reports and statistical analyses to test percent good calibration assignments. All forms of depreciation must be documented. The county must update percent good tables, if appropriate, with the results of the yearly analysis. Deviations from model assignments must be documented. Two points for residential and two for commercial/agricultural are possible and are evaluated independently.

g. Income Approach (4 points)

PVD shall verify that the county has developed or attempted to develop an income approach to value appropriate properties. The appraiser must document all income approach analysis and conclusions in accordance with the Revaluation Maintenance Specifications. Updated income and expense model calibration must be completed. Deviations from model assignments must be documented.

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h. Comparable Sales Approach (4 points)

PVD shall verify the county has developed a sales comparison approach to value by analyzing the relationship between the sales prices and the real property characteristics. The county must document all sales approach analysis, model specification, model calibration and conclusions in accordance with the Revaluation Maintenance Specifications. Deviations from model assignments must be documented.

i. Final Review Process (4 points)

PVD shall verify that the county has performed the final review of values in accordance with the Revaluation Maintenance Specifications. The county must document the date and person performing the final review.

3. AGRICULTURAL USE VALUATION (2 points)

PVD shall verify that the county has met the review/inspection requirements for current agricultural use and influence factors in accordance with the Revaluation Maintenance Specifications. The county must identify current use of agricultural land, which includes cropland, grassland, irrigated land, waterways, non-productive land, and farm home sites. Agricultural use values issued annually by PVD must be updated into the CAMA system (see Appendix A. Scoring Example).

4. CADASTRAL MAPPING (2 points)

PVD shall verify that accurate property ownership maps are being maintained in accordance with the Revaluation Maintenance Specifications. Updated field maps (showing new plats, splits, and combinations), an updated assessment administration file and adherence to the parcel definition must be maintained (see Appendix A. Scoring Example).

STATUTORY COMPLIANCE (10 points)

The following review areas are to establish whether the county is following Kansas statutes not previously covered (see Appendix A. Scoring Example).

- a. A real estate value trend study is published at least five business days prior to the mailing of the CVN's (K.S.A. 79-1460A). Change of value notices are mailed on or before the statutory deadline, provided an extension has not been granted pursuant to K.S.A. 79-1404, Seventeenth, or an alternate form of notification approved pursuant to K.S.A. 79-1460 (K.S.A. 79-1460).
- Informal hearings are held within statutory timeframe, provided an extension has not been granted pursuant to K.S.A. 79-1404, Seventeenth (K.S.A. 79-1448).
- c. Values are certified to county clerk by statutory deadline, provided an extension has not been granted pursuant to K.S.A. 79-1404, Seventeenth (K.S.A. 79-1466 and 79-1467).

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- d. Personal property is listed as required and penalties applied where applicable (K.S.A. 79-306 and 79-1422; K.S.A. 79-332a).
- e. The preservation and protection of all property tax records (K.S.A. 45-403).

Approved June 3, 2014 Lbwd II Haupu

David N. Harper Director of Property Valuation

APPENDIX A. Scoring Example

The scorecard on the following page demonstrates the scoring process based on the following information.

- The residential subclass failed to meet the required level of appraisal statistical standards and did not receive the 21.2 points possible.
- The commercial subclass had less than six sales; therefore, there were zero points possible
 for the commercial/industrial subclass. The total weighted points possible for statistical
 analysis changed to 42.4.
- A total of 50 points were possible for procedures, agricultural use valuation, cadastral mapping and statutory compliance.
- · Compliance points possible total 92.4.
- The county deviated from the default residential construction cost multiplier and did not do a
 residential construction cost analysis. The county used the default commercial cost
 multiplier. Therefore 2 of the 4 possible points for the construction cost multiplier were
 deducted for failure to provide documentation to support deviation from the use of the
 residential default construction cost multiplier.
- The total points received for procedures totals 34 out of a possible 36.
- The county failed to mail their change of value notices before the statutory deadline and lost two points. Eight of a possible 10 points were earned for procedural compliance.
 - Total compliance points possible 92.4
 - Total points received 67.2

Total points received (67.2) divided by the total points possible (92.4) = final substantial compliance score (72.7 percent).

The county failed substantial compliance because the county did not reach the passing score of 75.0 percent.

Compliance Scorecard Example

Subclass	Appraised Value	Percent of Total Appraised Value
Residential	\$250,000,000	84.7
Commercial/Industrial	45,000,000	15.3
Total Appraised Value	\$295,000,000	100.0

Subclass	Percent of Appraised Value (weighted)	Compliance Points Possible	Weighted Points	Points Received
1. Statistical Measures				
Residential				
Appraisal Level	84.7	25	21.2	0
Appraisal Uniformity	84.7	25	21.2	21.2
Commercial/Industrial				
Appraisal Level	15.3	25		
Appraisal Uniformity	15.3	25		
Statistical Compliance Points		50	42.4	21.2

2. Procedures	Compliance Points Possible	Points Received
a. Scope of Work Appraisal Plan	4	4
b. Sales File	4	4
c. Parcel Maintenance Inspection	4	4
d. Land Valuation Model Calibration	4	4
e. Construction Cost Multiplier Analysis	4	2
f. Depreciation Analysis	4	4
g. Income Approach	4	4
h. Comparable Sales Approach	4	4
i. Final Review Process	4	4
Total	36	34
3. Agricultural Use Valuation	2	2
4. Cadastral Mapping	2	2
5. Statutory Compliance		
Trend Study and CVN Mailing	2	0
b. Informal Hearings	2	2
c. Appraised Value Certification	2	2
d. Personal Property	2	2
e. Preservation and Protection of Property Tax Records	2	2
Total	10	8
I. Total Points Possible	92.4	
II. Total Points Received		67.2
III. Overall Score (II/I)*100		72.7



DIRECTIVE 03-041

TO: REGISTER OF DEEDS

FROM: Mark S. Beck, Director

SUBJECT: Real Estate Sales Validation Questionnaires; Filing Requirements

(To replace Directive #92-016 and 94-028)

This directive is adopted pursuant to the provisions of K.S.A. 79-505, and shall be in force and effect from and after the Director's approval date.

Register of Deeds shall comply with the following procedures in handling and processing real estate sales validation questionnaires.

1. The only exceptions to the requirement to file a real estate sales validation questionnaire are statutory.

K.S.A. 79-1437e(a), as amended by L. 2002, ch. 22, provides:

The real estate sales validation questionnaire required shall not apply to transfers of title:

- (1) recorded prior to the effective date of this act;
- (2) made solely for the purpose of securing or releasing security for a debt or other obligation;
- (3) made for the purpose of confirming, correcting, modifying or supplementing a deed previously recorded, and without additional consideration;
- (4) by way of gift, donation or contribution stated in the deed or other instrument;
- (5) to cemetery lots;
- (6) by leases and transfers of severed mineral interests;
- (7) to or from a trust, and without consideration;

- (8) resulting from a divorce settlement where one party transfers interest in property to the other;
- (9) made solely for the purpose of creating a joint tenancy or tenancy in common;
- (10) by way of a sheriff's deed;
- (11) by way of a deed which has been in escrow for longer than five years;
- (12) by way of a quit claim deed filed for the purpose of clearing title encumbrances;
- (13) when title is transferred to convey right-of-way or pursuant to eminent domain;
- (14) made by a guardian, executor, administrator, conservator or trustee of an estate pursuant to judicial order;
- (15) when title is transferred due to repossession; or
- (16) made for the purpose of releasing an equitable lien on a previously recorded affidavit of equitable interest, and without additional consideration.
 - When a real estate questionnaire is not required due to one of the exemptions listed above, the exemption number or reason for an exemption must be clearly stated on the deed. The register of deeds should not make changes to the face of the deed by adding the exemption number or exemption description. (Also see Att'y Gen. Op. No. 92-122)
- 2. The Division of Property Valuation supplies a three-part real estate sales validation questionnaire (form number PV-RE-21) which is required when an affidavit of equitable interest, deed in real estate, or any other instrument used to transfer real property is recorded in the office of the register of deeds. Only counties having prior written approval from the director may use a special one-part version of the form (PV-RE-21-OP). The one-part form can be used in conjunction with image document management systems. Photocopies are not acceptable; however, filers may submit a computer-printed form. The digital version of the form (PV-RE-21-OP-CG) can be obtained from the Department of Revenue website. Instructions for completing the questionnaire must be printed on the reverse side or attached on a separate page. Counties accepting one-part forms are required to provide the original document(s) to the Division of Property Valuation.
- 3. The "total sale price" must be entered on the real estate sales validation questionnaire. If one dollar (\$1.00), ten dollars (\$10.00) or any nominal sale price is entered on the real estate sales validation questionnaire, the register of deeds shall question the accuracy of the sale price as entered. If the grantor, grantee, or agent affirms that the sale price as entered is correct, the deed should be recorded.
- 4. A real estate sales validation questionnaire is not required on a deed that states "without consideration" or that has one dollar (\$1.00), ten dollars (\$10.00) or some other nominal value entered thereon. "Without consideration" as used in K.S.A. 79-1437(e)(7), as amended by L. 1992, ch. a59, § 2, means "gift." Therefore, an entered consideration of one dollar (\$1), ten dollars (\$10) or "love and affection" on a deed shall be construed as a "gift," and the deed accepted without a real estate sales validation questionnaire. However, if the phrase "one dollar (\$1.00) and other valuable consideration" has been entered on the deed, a real estate sales validation questionnaire is required to record the deed.
- 5. The buyer, seller or agent thereof may complete and sign the real estate validation questionnaire.

- 6. If a government entity, such as a county, conveys real property, the real estate sales validation questionnaire must be signed by the government official(s) who signed the deed or an agent.
- 7. Multiple deeds conveying partial interests and filed simultaneously, do not require multiple real estate sales validation questionnaires, provided the real estate sales validation questionnaire filed is annotated to state that the consideration entered thereon is the total consideration for the transfer of the entire interest. The register of deeds shall indicate in the upper left-hand corner of the real estate sales validation questionnaire the deed book and page number range assigned to the corresponding deeds.
- 8. A real estate sales validation questionnaire with the phrase "other valuable consideration" entered as the sales price shall not be accepted. It shall be returned for the sale price to be entered before the deed, instrument or affidavit may be recorded.
- 9. The Register of Deeds has a legal obligation to see that the real estate sales validation questionnaire is completed. At a minimum, this requires that each real estate sales validation questionnaire be scrutinized for completion of the identification and location information and all questions thereon.
- 10. A real estate sales validation questionnaire without every question answered, including the sale price, the signature and phone numbers entered is not "completed". Incomplete real estate sales validation questionnaires accompanied by the deed, other instrument transferring title to real estate or affidavit of equitable interest must be returned to the filer with notice that such deed, instrument or affidavit has not been recorded.
- 11. Phone numbers for both the buyer and the seller are required when the agent completes a real estate sales validation questionnaire.
- 12. The phrase "made for the purpose of confirming, correcting, modifying or supplementing a deed previously recorded, and without additional consideration," (K.S.A. 79-1437e) is explained as follows:

Confirm means "to support or establish the certainty or validity of; verify." The American Heritage Dictionary of the English Language, 386 (4th Edition, 2000).

Correct means "to remove errors from." Webster's II New Riverside University Dictionary, 314 (1984).

Modify means "To change in form or character; alter." <u>The American Heritage Dictionary of the English Language</u>, 1130 (4th Edition, 2000).

Supplement means "something added to offset a deficiency, or strengthen the whole; a section added to a document to provide additional data, or to correct errors." Webster's II New Riverside Dictionary, 1163 (1984).

The recurrent theme of these definitions is an incidental change, not a change in substance. In the case of a deed previously recorded, this would mean that the change does not change the grantor or the grantee (although, e.g., a change may be made in the spelling of the grantor or grantee's name). Whatever the change, the intent to convey the real property to a named person or entity is not changed. Also, there can be no additional consideration.

13. It is a misdemeanor to falsify the sale price of real estate transferred on a real estate sales validation questionnaire (K.S.A. 79-1437g). Any Register of Deeds or other county official who has information

or suspects that a real estate sales validation questionnaire has been falsified shall notify the County Attorney or County Counselor for possible legal action.

14. Individuals may obtain photocopies of real estate sales validation questionnaires if they have statutory access to them (K.S.A. 79-1437f). K.S.A. 45-219(a) provides that any person may make abstracts or copies of any public record to which such person has access under the Open Records Act. Public officials may require advance payment of the actual cost of furnishing copies, including the cost of staff time, to make the information available. K.S.A. 45-218(f); K.S.A. 45-219(c)(1). (Also see Att'y Gen. Op. No. 92-38)

Financial institutions can also obtain copies of real estate sales validation questionnaires for conducting appraisals or evaluations that are being conducted pursuant to state and federal regulations.

The Internal Revenue Service (IRS) also has access to real estate sales validation questionnaires (*United States v. Martin*, 542 F. Supp. 22 (1982)).

- 15. Transfer on Death Deeds do not require the completion of the *Kansas Real Estate Sales Validation Questionnaire* because it does not actually transfer property at the time of filing.
- 16. Only those deeds to and from a trust and *without consideration* do not require a questionnaire be completed.
- 17. The Register of Deeds shall also comply with the Permanent Administrative Regulations promulgated by the Department of Revenue, Division of Property Valuation. Article 4 (Real Estate Ratio Study), 93-4-2 and 93-4-3 reference the duties of the Register of Deeds.

Approved: February 5, 2003

Date

Mark S. Beck

Director of Property Valuation.

M-15-6

REAL PROPERTY SUBCLASSES & ASSESSMENT RATES

CONSTITUTION OF THE STATE OF KANSAS Article II.-§ 1. Nov. 3, 1992

System of taxation; classification: exemption.

(a) The provisions of this subsection shall govern the assessment and taxation of property on and after January 1, 1993, and each year thereafter...

Class 1 shall consist of real property. Real property shall be further classified into seven subclasses. Such property shall be defined by law for the purpose of subclassification and assessed uniformly as to subclass at the following percentages of value:

(1) Real Property used for residential purposes including multi-family residential real property and real property necessary to accommodate a residential community of mobile or manufactured homes including the real property upon which same homes are located

11.5%

(KSCAMA Suffix Codes RR, RU, FR, FU)

(2) Land devoted to agricultural use that shall be valued upon the basis of its agricultural income or agricultural productivity pursuant to section 12 of article 11 of the constitution 30.0%

(KSCAMA Suffix Codes AU, AR)

(3) Vacant Lots 12.0%

(KSCAMA Suffix Codes VU, VR)

(4) Real property which is owned and operated by a not-for-profit organization not subject to federal income taxation pursuant to section 501 of the federal internal revenue code, and which is included in this subclass by law

12.0%

(KSCAMA Suffix Codes NR, NU)

(5) Public utility real property, except railroad real property that shall be assessed at the average rate that all other commercial and industrial property

33.0%

(KSCAMA Suffix Codes UL, UU)

(6) Real property used for commercial and industrial purposes and buildings and other improvements located upon land devoted to agricultural use 25.0%

(KSCAMA Suffix Codes CU, CR, AU & AR with agricultural improvements)

(7) All other urban and rural real property not otherwise specifically sub-classed **30.0%**

(KSCAMA Suffix Codes OU, OR)

State of Kansas

Department of Revenue

Division of Property Valuation

Permanent Administrative Regulations

Article 4. - REAL ESTATE RATIO STUDY

93-4-2. Annotation and disposition of real estate sales validation questionnaires; duties of county officials. (a) Not later than three business days after the receipt of a three-part real estate sales validation questionnaire, the register of deeds shall annotate each copy with the following information:

- (1) The volume and page entry from the general index, indicating where the deed, instrument, or affidavit of equitable interest that accompanies it is recorded;
 - (2) the county official validation number;
 - (3) the type of instrument; and
 - (4) the recording date.

The register of deeds shall retain the original copy and forward the county appraiser's copy and the director of property valuation's copy to the county appraiser. Not later than three business days after the receipt of the county appraiser's and the director's copies, the county appraiser shall enter the parcel identification number on both paper copies of each real estate sales validation questionnaire received from the register of deeds.

(b) The register of deeds may accept a one-part real estate sales validation questionnaire when authorized by the director of property valuation to process real estate sales validation questionnaires by electronic imaging. An electronic copy may be accepted by the register of deeds if questionnaires are received by means of digital media transmission and retained in an electronic document management system.

(Authorized by K.S.A. 79-1491; implementing K.S.A. 79-1487 and 79-1488; effective June 26, 1998; amended Oct. 3, 2014.)

93-4-3. Split and combined real estate parcel sales; duties of county officials.

Not later than 10 business days after the receipt of a real estate sales validation

questionnaire concerning the sale of a split parcel or a parcel to be combined with one
or more parcels, the county appraiser shall perform one of the following:

- (a) On or after January 1 of the current appraisal year and before the creation of working files for the next appraisal year, enter the sales information on the parent parcel record in the county's computer-assisted mass appraisal system; or
- (b) on or after the creation of working files for the next appraisal year and before January 1 of the next appraisal year, enter the sales information on the split or combined parcel record in the county's computer-assisted mass appraisal system. (Authorized by K.S.A. 79-1491; implementing K.S.A. 79-1487; effective June 26, 1998; amended Oct. 3, 2014.)
- 93-4-4. Assemblage and entering of sales data; accounting for real estate sales validation questionnaires; duties of county officials. (a) Not later than the 10th day of each month, the county appraiser shall assemble and enter into the county's computer-assisted mass appraisal system the sales data pertaining to property transfers that were recorded on or before the last day of the preceding month, as obtained from the real estate sales validation questionnaires received from the register of deeds.

- (b) The county appraiser shall meet the following requirements:
- Account for all real estate sales validation questionnaires by entering sales information from all questionnaires into the database fields in the county's computerassisted mass appraisal system;
- (2) maintain in a void file those questionnaires that cannot be matched with a parcel of real estate, those that contain information that cannot be entered in the county's computer-assisted mass appraisal system, and those that were not required by K.S.A 79-1437e and amendments thereto;
- (3) electronically upload the recorded monthly sales data from the county's computer-assisted mass appraisal system to the current year's ratio study database at the division of property valuation, not later than the 15th day of the following month; and
- (4) perform one of the following, not later than the 15th day of the following month:
- (A) Submit the complete set of sales validation questionnaire documents recorded in the previous month to the director of property valuation or the director's agents; or
- (B) electronically upload the complete set of recorded monthly sales as digital image files that meet specified file-naming conventions, resolution, and format standards to the sales validation questionnaire database at the division of property valuation. (Authorized by K.S.A. 79-1491; implementing K.S.A. 79-1487 and 79-1488; effective June 26, 1998; amended Oct. 3, 2014.)

93-4-5. Access to county records by the director of property valuation; duties of county officials. (a) The county shall make its computer-assisted mass appraisal system available to the director of property valuation and the director's agents, to generate and print reports and to prepare data files to enable the electronic extraction of sale information on a monthly basis.

(b) The county appraiser shall prepare and transmit the electronic assessment administration file of all appraised values to the director not later than three business days after the mailing of the annual valuation notices pursuant to K.S.A. 79-1460, and amendments thereto. (Authorized by K.S.A. 79-1491; implementing K.S.A. 79-1487; effective June 26, 1998; amended Oct. 3, 2014.)

93-4-6. Performance standards. Table 2-3 of the "standard on ratio studies," adopted by the executive board of the international association of assessing officers in April 2013, is hereby adopted by reference and shall constitute the performance standards used to evaluate the appraisal of residential and commercial and industrial real estate. However, the coefficient of dispersion shall have a range of 5.0 to 20.0, with a level of confidence of 95 percent. (Authorized by K.S.A. 79-1491; implementing K.S.A. 79-1485, 79-1486, 79-1487, and 79-1488, K.S.A. 2013 Supp. 79-1489, K.S.A. 79-1490, 79-1492, and 79-1493; effective June 26, 1998; amended April 20, 2001; amended Oct. 3, 2014.)

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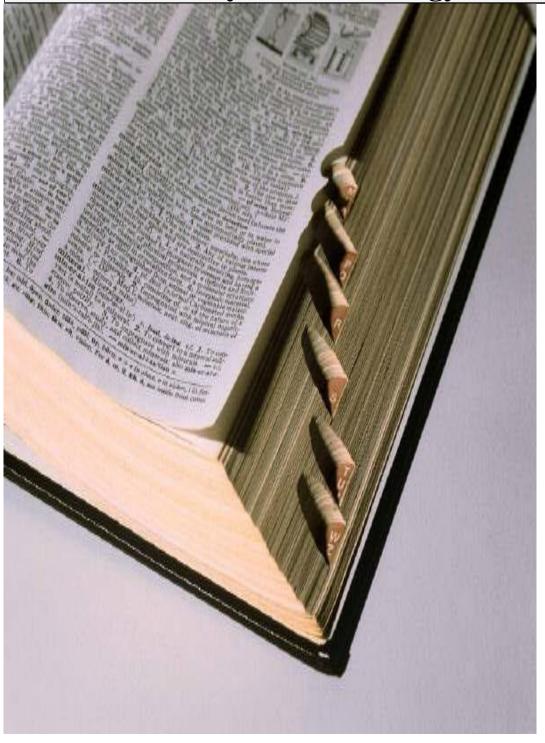
Nick Jordan Secretary of Revenue

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Section V

Glossary of Terminology



Gl	ossary	٧*

Adjusted Sale Price The sale price that results from adjustments made to the stated sales price

to account for the effects of time, personal property, financing or the like.

Aggregate Mean Ratio See weighted mean ratio.

Alternative HypothesisThe negation of the null hypothesis and usually consists of a statement

saying "Ho is not true" or "Fail to accept Ho." It is denoted by Ho. A

statement indicates the opposite of the null hypothesis.

Appraisal-Sales Price Ratio The ratio of the appraised value to the sale price (or adjusted sale price)

of a property. The appraised value divided by the sale price.

Array An ordered arrangement of data such as a listing of sales ratios in order

to magnitude from high to low or low to high.

Assessment Progressivity (Regressivity) An appraisal bias such that high-value properties are appraised higher

(lower) than low-value properties. (See also Price-Related Differential.)

Assessment Ratio The ratio of the assessed value to an indicator of market value.

Average Absolute Deviation The sum of the absolute (sign ignored) differences between the

individual observations and the average of all the observations, divided

by the number of observations.

Average Market Value Sum of the market values divided by the number of values added

together.

Average Sale Price Mean sale price. The sum of all sales divided by the number of samples.

Bootstrap A computer intensive statistical procedure designed to provide numerous

random samples from the original data set, which are in turn used to generate the statistics of interest, such as point estimates and confidence intervals. This procedure is particularly helpful when the original data

set is small, in order to give more accurate statistics.

Broadened Median A special type of median that reduces insensivity to rounding and

grouping of observations around the middle ratio.

Coefficient of Concentration (COC) The percentage of ratios falling within a specified percentage range (±)

of the median ratio.

Coefficient of Dispersion (COD) The average of the absolute deviation of a sample of ratios from the

median ratio, expressed as a percentage of the median. The most common measure of uniformity in sales ratio studies. Low COD's tend

to be associated with good appraisal uniformity.

Coefficient of Quartile Deviation The interquartile ranges of a sample of ratios divided by 2 and

expressed as a percentage of the median ratio. This measure of uniformity was referred to as the coefficient of dispersion when it was first adopted for use in assessment performance in 1954. Like the

median, it is very resistant to the influence of outlier ratios.

Coefficient of Variation (COV)

The standard deviation expressed as a percentage of the mean ratio.

Confidence Interval

For a given confidence level, the range within which one can conclude that a population parameter (*such as the median ratio*) lies. The reliability of confidence intervals depends on the extent to which required statistical assumptions are met. A range of numbers within that we expect the true value of the population parameter to be contained. The high and low endpoints of the interval are computed based on sample information.

Confidence Level

The degree of precision selected for a confidence interval and other statistical tests. Ratio study confidence intervals are based on 95 percent confidence levels.

Consideration

The amount of money and other valuable goods or services upon which a buyer and a seller agree to consummate a sale.

Critical Values

Hypothesis testing uses a decision rule that specifies for every possible value of a statistic whether the null hypothesis should be accepted or rejected. The test procedure divides the sample space (a set of possible values of a sample statistic) into mutually exclusive parts called the acceptance region and the rejection (or critical) region. The critical region calls for rejecting the null hypothesis. The values that lie exactly on the boundary of the region of rejection are the critical values.

Descriptive Statistics

Statistics used to describe or summarize information about a sample. These measures include point estimates.

Dispersion

The degree to which data are distributed either tightly or loosely around a measure of central tendency. Measures of dispersion include the range, average deviation, median absolute deviation, standard deviation, coefficient of dispersion, median percent deviation and coefficient of variation.

Geometric Mean Ratio

A measure of central tendency computed by multiplying the values of all of the observations by one another and then taking the result to an exponent equal to one divided by the number of observations. The geometric mean is less sensitive to extreme ratios than the arithmetic mean.

Harmonic Mean Ratio

A specially calculated mean that is based upon the reciprocal of the arithmetic mean of the reciprocals of each value in the data set. (Reciprocal: the inverse of a number, i.e., the reciprocal of 0.40 is 2.50.) It is less affected of extreme values in the data set than the arithmetic mean or the geometric mean.

Histogram

A bar chart or graph of a frequency distribution in which the frequencies of the various classes are indicated by horizontal or vertical bars whose lengths are proportional to the number or percentage of observations in each class.

Hypothesis

An unproved proposition that tentatively explains certain facts; a proposition that is empirically testable; a probable answer to a question.

Inferential Statistics

Statistics used to make judgments about a population based on information obtained from a sample.

Interquartile Range (Interquartile Deviation) The result obtained by subtracting the first quartile from the third

quartile. The interquartile range contains the middle 50 percent of the

observations.

Market The "place" in which buyers and sellers interact. The collective body of

buyers and sellers for a particular product.

Market Price The price a particular buyer and seller agree to in a particular transaction

that occurs in an open and competitive market.

Pursuant to K.S.A. 79-503a, "... The amount in terms of money that a **Market Value**

> well informed buyer is justified in paying and a well informed seller is justified in accepting for property in an open and competitive market, assuming that the parties are acting without undue compulsion..."

Maximum Ratio Largest sales ratio in the sample.

Mean Ratio Result of adding all the ratios and dividing by the number of ratios. (Also

called the arithmetic mean or average.)

The midpoint or middle value when a set of values is ranked in order of Median

magnitude; if the number of values is even, the midpoint or average of

the two middle values. It is the second quartile.

Median Absolute Deviation (MAD) The median of the absolute deviation from the median. In a symmetrical

distribution, the measure approximates one-half of the interquartile

range.

Median Percent Deviation A relative measure of uniformity that is found by the median absolute

deviation (MAD) by the median ratio.

Median Ratio Middle ratio in a sorted array of ratios. If the number of ratios is even,

it is the average of the middle two ratios.

Minimum Ratio Lowest sales ratio in the sample.

Mode A value most often assumed by a variable. By extension for grouped

data, the class in which a plurality of the observations falls.

Nonparametric A statistic whose interpretation or reliability does not depend on the

distribution of the underlying data.

Normal Distribution A theoretical frequency distribution often approximated in real world

> situations. It is a symmetrical and bell-shaped distribution where 68 percent of the observations occur within one standard deviation of the

mean and 96 percent within two standard deviations of the mean.

Normality Test A mathematical test to determine if the data is considered to be normally

distributed or conforms to a bell-shaped curve (Gaussian shape).

Null Hypothesis A hypothesis that one chooses to accept in the absence of sufficient

evidence to the contrary.

Observation An observation is one recording or occurrence of the value of a variable.

One ratio from a sample of ratios is an example.

Open Market

A freely competitive market in which any buyer or seller may trade and in which prices are determined by competition.

Outliers

Observations that have unusual values differing markedly from a measure of central tendency. Some outliers occur naturally. Others may be due to data errors.

Parameter

Numerical descriptive measures of the population, for example, the arithmetic mean or the standard deviation. Parameters are generally unknown and estimated from statistics calculated from a sample of the population.

Parametric Statistic

A statistic whose interpretation or reliability depends on the distribution of the underlying data.

Percentile

Values that divide a set of data into specified percentages when the data are arrayed in ascending order. The tenth percentile is the value of the observation below which the lowest 10 percent of the values fall, the twentieth percentile is the value below which the lowest 20 percent of the values fall, and so forth.

Population

All the items of interest, for example, all the properties in a subclass, jurisdiction or neighborhood.

Price-Related Differential (PRD)

A performance statistic used to measure appraisal regressivity or progressivity. It may also be referred to as vertical inequity. It is calculated by taking the mean ratio and dividing it by the weighted mean ratio.

Price-Related Bias (PRB)

A coefficient that provides an index of price-related bias (vertical equity) obtained by regressing the ratio deviations from the median ratio (percentage changes) on the proxy of market value. The PRB is the slope of the regression line. This statistical measure can supplement information provided by the price-related differential.

Quartiles

The values that divide a set of data into four equal parts when the data are arrayed in ascending order.

Random Sample

A sample in which each item in the population has an equal chance of being included and by extension, each possible combination of n items has an equal chance of occurrence.

Range

- (1) The maximum value of a sample minus the minimum value.
- (2) The difference between the maximum and minimum values that a variable may assume.

Ratio Study

A study of the relationship between appraised (or assessed) values and the market values of property. Indicators of market values may be either sales (*sales ratio study*) or independent "expert" appraisals (*appraisal ratio study*). Of common interest in ratio studies is the level and uniformity of the appraisals or assessments.

Representative Sample

A sample of observations from a larger population of observations, such that statistics calculated from the sample can be expected to represent the characteristics of the population being studied.

Sales Price

Price a parcel of real property sold for. In some cases, this value must be adjusted to remove non-real estate components or trended back to January 1 (*the appraisal date*).

Sales Ratio

A ratio of the county appraiser's estimate of value to the sale price of a property (appraised value ÷ sale price).

Sales Data

Information about the nature of the transaction and the sale price and property characteristics as of the date of sale.

Sample

A set of observations selected from a population. If the sample was randomly selected, basic concepts of probability may be applied. (See random sample and representative sample.)

Skewed

Quality of a frequency distribution that makes it asymmetrical. Distributions with longer tails on the right than on the left are said to be skewed to the right or to be positively skewed. Distributions with longer tails to the left are said to be skewed to the left or to be negatively skewed.

Standard Deviation

The statistic calculated from a set of numbers by subtracting the mean from each value and squaring the remainders, adding together these squares, dividing by the size of the sample less one, and taking the square root of the result. When the data are normally distributed, one can calculate the percentage of observations within any number of standard deviations of the mean from normal probability tables. When the data are not normally distributed, the standard deviation is less meaningful and should be used with caution.

Statistics

- (1) Numerical point estimates calculated from a sample (*for example, the mean, median or coefficient of dispersion*). Statistics are used to estimate corresponding measures, termed parameters for the population.
- (2) The science of studying numerical data systematically and presenting useful results. Two main branches of statistics exist: *descriptive and inferential*.

Stratify

To divide, for purposes of analysis, a sample of observations into two or more subsets according to some criterion or set of characteristics.

Stratum, Strata (Pls.)

A class or subset as a result of stratification.

Subclass

A group of properties with related use characteristics. In Kansas, the following subclasses of real property, defined in the Constitution, are used in the ratio study:

- (1) residential, including multi-family residential mobile homes and condominiums;
- (2) land devoted to agricultural use;
- (3) vacant lots:
- (4) property owned and operated by not-for-profit organizations;
- (5) public utility property;
- (6) commercial and industrial property and buildings and other improvements located upon land devoted to agricultural use;
- (7) all other urban and rural real property not otherwise specifically subclassed.

Tolerance LimitsInterval measure that provides a specified degree of confidence that a

prescribed proportion of the population values is thought to be contained

within.

Trending Adjustment to the sale price to account for inflation or deflation that has

occurred in the local market between January 1 (the appraisal date) and

the date of sale.

Weighted Coefficient of Dispersion The coefficient of dispersion when absolute differences between

individual assessment ratios and the median ratio are weighted on the

basis of sale price.

Weighted Mean In ratio studies, the value weighted mean is calculated by weighting the

ratios based on their sale prices. A shortcut method is to sum the appraisals (or assessments), sum the sale prices and divide the first result

by the second.

Weighted Mean Ratio Sum of the appraised values divided by the sum of the sales price, which

weights each ratio in proportion to its sale price. Also known as the sum

of the aggregates.

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*References

American Institute of Real Estate Appraisers. 1989. The dictionary of real estate appraisal. Illinois: National Assoc. of Realtors.

Hamburg, Morris. 1974. Basic statistics. New York: Harcourt Brace Javanovich, Inc.

Hoaglin, David C., Fredrick Mosteller and John W. Tukey. 1983. *Understanding robust and exploratory data analysis*. New York:

Viley

Moore, David S. and George P. McCabe. 1989. Introduction to the practice of statistics. New York: W.H. Freeman and Company.

Shao, Stephen P. 1972. Statistics for business and economics. Ohio: Merrill.

Sincich, Terry. 1986. Business statistics by example. California: Dellen.

Zikmund, William G. 1999. Exploring marketing research. Fort Worth, TX: The Dryden Press.

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