Understanding your Equalization Study results

Property Valuation and Review District Advisors

1

EQUALIZATION

What is Equalization?

Equalization is the process of comparing sale prices to listed values in each town for a three-year period. These sales and ratios are aggregated (combined) to show the level your town is assessing at, relative to 100% of fair market value (known as the CLA or Common Level of Appraisal). The level of assessment is then applied to your total town assessed values represented on your 411 form to equalize your values to 100%.

EQUALIZATION

Why Do we Equalize?

The equalization process is a statutory obligation of the tax department.

The commissioner of taxes is required to determine the equalized education property tax grand list and coefficient of dispersion (COD) for each municipality in the State. 32 V.S.A. §5405. The COD helps to ensure that property valuations within a municipality are equitable.

3

EQUALIZATION

For Example

If your town was determined to be assessing properties at 80% of fair market value, the equalization process would divide your 411 values by 80% to equalize your town to 100%. Example: Town 411 equals 1,000,000 divided by .80 equals 1,250,000 of equalized value (1,000,000/.80=1,250,000). Conversely, if your town was determined to be assessing properties at 105% of fair market value, the equalization process would reduce your 411 values by dividing your 411 values by 105% to equalize your town to 100%. Example: Town 411 equals 1,000,000 divided by 1.05 equals 952,400 of equalized value (1,000,000/1.05=952,400).

These equalized values are then used to determine education liability for school funding so that all towns share equally in that funding.

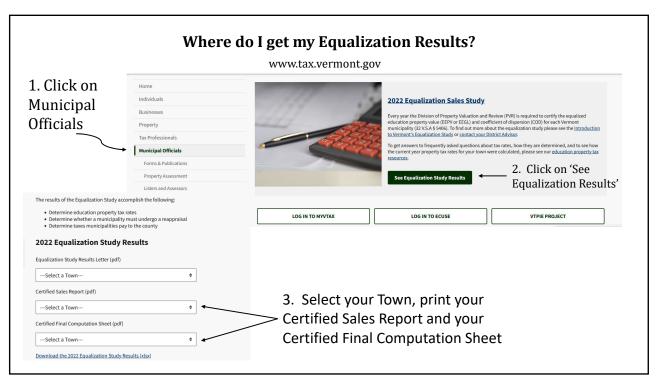
What is Common Level of Appraisal (CLA)?

The Common Level of Appraisal is one of the primary functions and outputs of the equalization study. The CLA represents the level Property Valuation and Review has determined your town to be assessing at relative to 100%. In addition to sales ratios from three years there is a utility ratio applied to equalize utilities and a current use adjustment made.

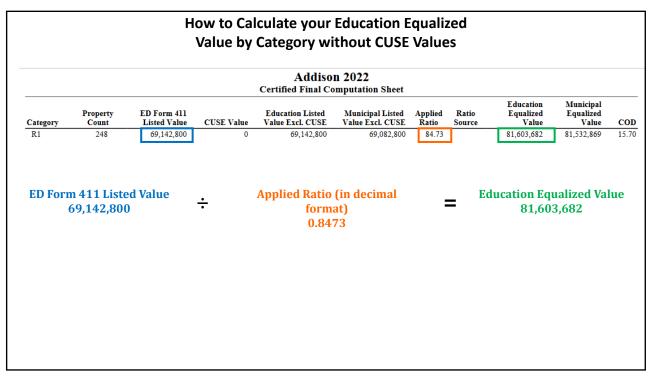
Any sales study performed by a town would yield a Level of Appraisal (LOA not CLA) because it would be lacking these adjustments.

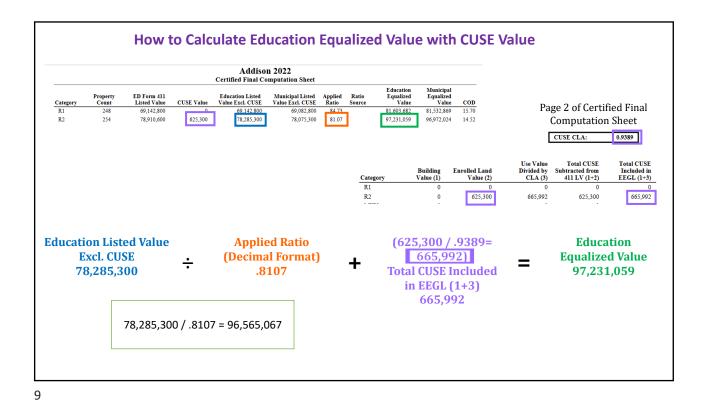
Towns are required by statute to maintain a Common Level of Appraisal that does not exceed 115% and does not go below 85%. If these limits are not met, the Division of Property Valuation and Review will order the town to complete a reappraisal. (Title 32-5405)

5



									S	he	et							
ate of Vermont	- Division of Prop	erty Valuation and Revis	*						December 16, 202	2 7:46 PM	State of Verm	nat - Division of Property	Valuation and Review					December 16, 2022
				Addiso Certified Final Co								Ce	rtified Final Listed	I Value of Cont	Addison		Values Used in Comput	ations
ategory	Property Count	ED Form 411 Listed Value	CUSE Value	Education Listed Value Excl. CUSE	Municipal Listed Value Excl. CUSE	Applied Ratio	Ratio Source	Education Equalized Value	Municipal Equalized Value	COD		Total	Approved VEPC:	0		Total G al Municipal Contra	Grandfathered Exemptions: acts (Owner Pays Ed. Tax): Special Exemptions Value:	0 0 1,299,100
R1 R2 MHU	248 254 5	69,142,800 78,910,600 121,700	0 625,300 0	69,142,800 78,285,300 121,700	69,082,800 78,075,300	84.73 81.07 81.08	c	81,603,682 97,231,059	81,532,869 96,972,024	15.70 14.52 0.00		Total Non-Appr Total Partial-Statu	oved Exemptions: story Exemptions:	0		Total Cur Total l	rrent Use Reduction Value: PVR-Applied - MGL/EGL:	15,246,797 0
MHU MHL S1	15 74	2,655,000 21,962,500	74,500	2,580,500 21,962,500	121,700 2,580,500 21,962,500	81.08 81.08 81.08	c	150,099 3,262,007 27,087,444	150,099 3,262,007 27,087,444	0.00 0.00 18.94		Total Veterans E	Exemptions EGL: exemptions MGL:	90,000 360,000			Total PVR-Applied - EGL: Total PVR-Applied - MGL:	0
S2 C CA	14 14 0	6,075,455 8,180,500 0	136,800 17,000 0	5,938,655 8,163,500	5,938,655 8,163,500 0	81.08 81.26 0.00	C T	7,470,141 10,064,254 0	7,470,141 10,064,254 0	0.00 0.00 0.00				I	CUSE CLA:	0.9389		
I UE	0	0 3,650,400	0	0 3,650,400	0 4,949,500	0.00 95.42	T O	0 3,825,613	0 5,187,068	0.00	Category	Building Value (1)	Enrolled Land Value (2)	Use Value Divided by CLA (3)	Total CUSE Subtracted from 411 LV (1+2)	Total CUSE Included in EEGL (1+3)		
UO F	0 36 96	0 14,870,181 1,392,800	3,636,400 0	0 11,233,781 1,392,800	0 11,233,781 1,392,800	0.00 81.26 81.08	T T	0 17,697,533 1,717,810	0 17,697,533 1,717,810	0.00	R1 R2 MHU	0	625,300 0	665,992 0	625,300 0	665,992 0		
W M	7 64	100,000 3,604,867	35,200 1,357,100	64,800 2,247,767	64,800 2,247,767	81.26 81.26	T T	117,235 4,211,557	117,235 4,211,557	0.00	MHL S1	0	74,500 0	79,348 0	74,500 0	79,348 0		
	831	210,666,803	5,882,300 Cable:	204,784,503	205,813,603	100.00		254,438,435	255,470,041		S2 C	0	136,800 17,000	145,702 18,106	136,800 17,000	145,702 18,106		
		Mach	Inventory: inery & Equip: TOTAL:	Exempt Exempt	0	100.00		Exempt Exempt	0		CA I UE	0	0	0	0	0		
		GI	RAND TOTAL:	\$204,784,503	\$205,813,603	\$2.80			\$255,470,041		UO F	0	0 3,636,400	0 3,873,043	3,636,400	0 3,873,043		
		Certified Certified	to County: to State:	\$254,438,000 \$254,438,000	CLA: Towns	ride COD:	\$2.80 15.37		lass		O W M	0	0 35,200 1.357,100	0 37,491 1.445.415	35,200 1.357,100	0 37,491 1.445.415		
									own-wide herride			0	5,882,300	6,265,097	5,882,300	6,265,097	-	
2									Pag	ge 1 of 2	662							Pa

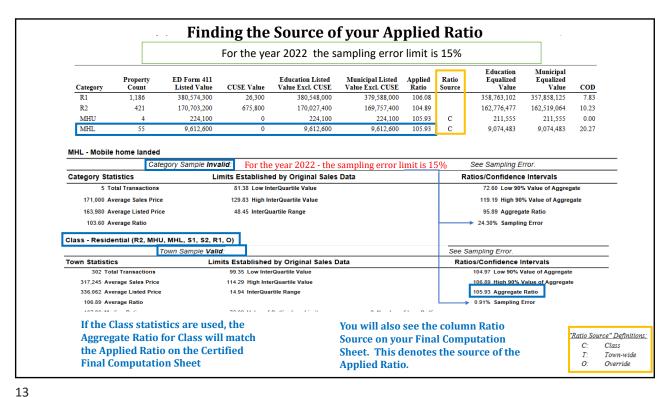




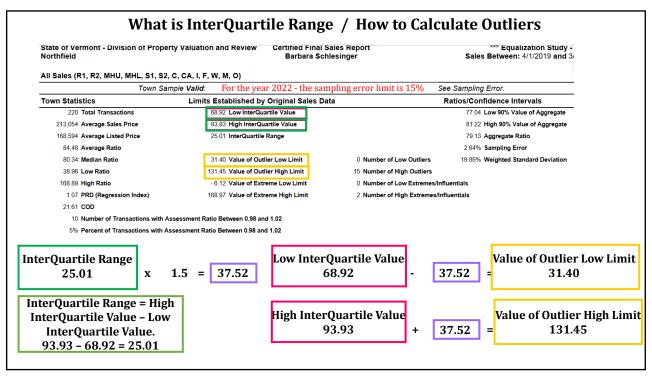
How to calculate your CLA mber 16, 2022 8:02 PM Bristol 2022 Education Equalized Value Municipal Equalized Value 258,488,349 Property Count ED Form 411 Listed Value Education Listed Value Excl. CUSE Applied Ratio Ratio Source CUSE Value 258,868,288 78.96 R2 MHU MHL 90.45 80.04 70,240,880 1,852,574 70,141,378 1,852,574 215 63,515,700 492,200 63,023,500 62,933,500 13.54 1,482,800 1,482,800 1,482,800 6.55 11.68 114 14,962,500 14,962,500 14,902,500 80.04 18,693,778 18,618,816 1,481,100 747,900 1,481,100 740,000 1,481,100 740,000 1,850,450 933,577 1,850,450 933,577 23.76 80.04 S1 S2 C 7,900 80.04 25,802,100 25,802,100 25,802,100 78.96 32,677,432 32,677,432 33.97 11,935,450 2,643,800 11,935,450 2,643,800 12,172,400 2,643,800 78.96 78.96 15,115,818 3,348,278 15,415,907 3,348,278 0.00 I UE 4,939,400 4,939,400 5,865,700 89.17 5,539,307 6,578,109 0.00 0.00 78.96 10 2,983,000 547,900 2,435,100 2,435,100 3,710,854 3,710,854 o W 15 0 115 4,144,900 4,144,900 4,144,900 80 04 5,178,536 5,178,536 10.60 1,112,300 7,744,300 7,331,200 10,557,356 8,856,600 11,080,532 M 78.96 30.86 347,897,650 5,737,350 100.00 100.00 938,111 Exempt 938,111 Inventory Machinery & Equip 100.00 GRAND TOTAL 81.12 \$430,028,414 \$429,351,613 \$346,675,461 Certified to County: \$430,028,000 "Ratio Source" Definitions: C: Class T: Town-wide O: Override CLA: Certified to State: \$430,028,000 Townwide COD: 17.18 ED Form 411 Add all equalized category **Listed Value Total:** values + cable = Education Cable: CLA: **Equalized Value Total:** 347,897,650 938,111 81.12 430,028,414 347,897,650 + 938,111 = 348,835,761

	nont - Division o	of Property Valuation and R	eview Certified Final S Benton Mi		t		*** Equali: Sales Between: 4	zation Study	
Fairfax		Q1t			10/5/0000 -1 14		Sales Between: 4	71/2019 and	3/31/2022
P1 Posidon	tial with less tha		ed by Christie.Wright@verm	ont.gov on	12/5/2022 at 12	:15 PM.			
Doc ID	SPAN	Buver	Seller	Acres	Sale Date	Sale Price	Listed Value	Ratio T	C Cat
L966905856	210-068-10059	154 PHEASENT LLC Location: 59 VILLAGE VIEW R	REED MARK OAD	0.51	11/1/2019	342,500	407,300	118.92	
L1411325952	210-068-12147	ADAMS KYLE Location: 56 OLD ACADEMY S	FRANKLIN SOUTH LLC	0.27	9/28/2020	304,900	310,600	101.87	
L74600448	210-068-12098	ANDERSON JASON Location: 9 WOODS EDGE RO	SENESAC DALE	1.78	3/20/2020	425,000	484,400	113.98	
L20516864	210-068-11976	AYRES RYAN Location: 18 ANDBRON ROAD	STURGEON PATRICK	0.57	6/12/2019	293,500	352,700	120.17	
L1232211968	210-068-11753	BABYAK MICHAEL Location: 42 BREWSTER ROA	MAGLARIS WILLIAM	2.23	10/18/2019	410,000	479,700	117.00	
L1621762048	210-068-10057	BADGLEY DANIEL Location: 116 BUCK HOLLOW	HOWARD FAMILY TRUST	0.75	9/25/2020	275,000	288,600	104.95	
L830754816	210-068-11416	BAKIR LUAY Location: 60 VILLAGE VIEW R	ISZAK JEFFREY	0.52	7/12/2019	360,000	422,500	117.36	
L905072640	210-068-11993	BARTLEY JEFFREY Location: 26 MAPLE HILL ROA	SAXON OAKS CO.	5.34	9/25/2020	282,500	309,700	109.63	
L827408384	210-068-12137	BARTON DAVID Location: 4 PAIGE ROAD	LNP INC	0.00	6/3/2020	259,900	285,900	110.00	
L117723136	210-068-11140	BASSETT SCOTT Location: 114 RIVER ROAD	FRENCH LANDON	0.96	6/28/2019	217,000	229,900	105.94	
L204312576	210-068-10755	BATES LARRY Location: 1185 MAIN STREET	BASSETT SCOTT	0.50	10/30/2020	295,000	299,200	101.42	
L830922752	210-068-10355	BEAUCAGE BRIGIT Location: 36 FLETCHER ROAL	HAMMOND RYAN	0.44	1/3/2020	180,000	215,200	119.56	
L736821248	210-068-12165	BEAUCHAMP SARAH Location: 37 ROSE ROAD (LO	WHITNEY AND ASSOCIAT	1.38	11/25/2020	292,550	339,000	115.88	
L860442624	210-068-12050	BELLAVANCE JASON Location: 12 PAIGE ROAD	LNP INC.	0.00	5/23/2019	255,000	286,900	112.51	
L1407389696	210-068-10946	BENOIT GARY Location: 2 MANSFIELD ROAL	MINOR MARILYN	2.06	3/10/2021	360,000	373,300	103.69	
647093312	210-068-12155	BERARD, KATHLEEN Location: 54 APPLE TREE RO	LABRIE, MARK	1.25	11/5/2021	519,000	493,900	95.16	
L1441943552	210-068-10961	BERGERON BRADLEY Location: 15 MAPLE STREET	SMITH JASON	0.32	4/22/2020	229,000	246,400	107.60	
644330048	210-068-10867	BIRKETT, JEFFERY Location: 2704 MAIN STREET	MANAHAN, MYRIA	1.00	2/15/2022	300,000	285,600	95.20	

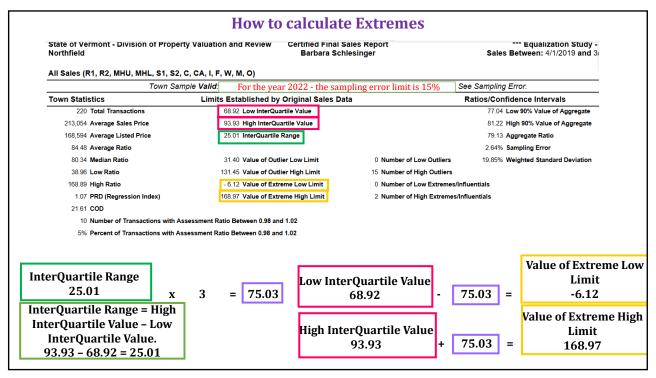
				Fairfax Certified Final Co										
Category	Property Count	ED Form 411 Listed Value	CUSE Value	Education Listed Value Excl. CUSE	Municipal Listed Value Excl. CUSE	Applied Ratio	Ratio Source	Education Equalized Value	Municipal Equalized Value	COD				
R1	1,186	380,574,300	26,300	380,548,000	379,588,000	106.08		358,763,102	357,858,125	7.83				
		less than 6 acres Category Sam		he year 2022 - the	mit is 15	15% See Sampling Error. Ratios/Confidence Intervals								
Cat	egory Statistics 210 Total Trans	actions		shed by Original Sale: w InterQuartile Value	s Data		Ratio	105.00 Low 90% Valu						
	320,859 Average Sa			h InterQuartile Value				107.16 High 90% Valu						
	340,369 Average Lis		_	erQuartile Range				106.08 Aggregate Rat	_					
	106.98 Average Ra	tio				L		1.02% Sampling Erro	or					
	106.52 Median Rat	io	77.62 Val	ue of Outlier Low Limit	1 Number	of Low Outlie	rs							
	71.33 Low Ratio		135.93 Val	ue of Outlier High Limit	3 Number	3 Number of High Outliers								
	133.92 High Ratio		55.76 Val	ue of Extreme Low Limit	0 Number	0 Number of Low Extremes/Influentials								
	1.01 PRD (Regre	ssion Index)	157.80 Val	ue of Extreme High Limit	3 Number	of High Extre	mes/Influent	ials						
	7.83 COD													
		Transactions with Asse	ssment Ratio Betwee		If yo	our Cat	egory	is valid, you	ur Aggreg	ate				
				ent Datio Retween 0.98 and 1.02				tio will match the Applied Ratio on						
		Fransactions with Asse	ssment Ratio Betwee	en 0.98 and 1.02	Rati	io will	match	tne Applie	a katio or	1				

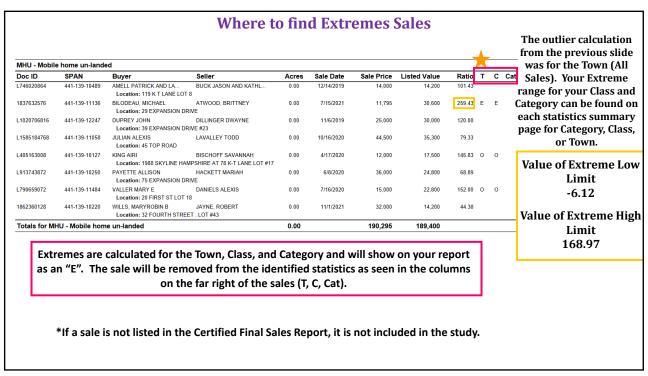


Finding the Source of your Applied Ratio "Ratio Source" Definitions: Class Fairfax 2022 Town-wide Certified Final Computation Sheet 0: Override Education Municipal ED Form 411 Listed Value Property Count **Education Listed** Municipal Listed Applied Ratio Ratio Equalized Value Equalized Category CUSE Value Value Excl. CUSE Value Excl. CUSE COD 124 10,135,600 740,300 9,395,300 9,395,300 9,624,744 9,624,744 14.26 M - Miscellaneous Category Sample Invalid: For the year 2022 - the sampling error limit is 15% See Sampling Error. **Category Statistics** Limits Established by Original Sales Data Ratios/Confidence Intervals Class - Farm/Vacant (W. M. F) Town Sample Invalid: Town Statistics Limits Established by Original Sales Data Ratios/Confidence Intervals 19.70% Sampling Error All Sales (R1, R2, MHU, MHL, S1, S2, C, CA, I, F, W, M, O) Town Sample Valid: See Sampling Error. Ratios/Confidence Intervals Town Statistics Limits Established by Original Sales Data 318 Total Transactions 99.38 Low InterQuartile Value 104.69 Low 90% Value of Aggregate 310,751 Average Sales Price 114.29 High InterQuartile Value 106.80 High 90% Value of Aggregate 328.611 Average Listed Price 14.91 InterQuartile Range 105.75 Aggregate Ratio 0.99% Sampling Error 106.81 Average Ratio 77.01 Value of Outlier Low Limit 4 Number of Low Outliers 12.39% Weighted Standard Deviation 107.13 Median Ratio 55.91 Low Ratio 136.66 Value of Outlier High Limit 6 Number of High Outliers If the Town statistics are used, the Aggregate Ratio for Town will match the Applied Ratio on the Certified Final Computation Sheet



								*			The outlier calculation from the previous slide was for
Doc ID	SPAN	Buyer	Seller	Acres	Sale Date	Sale Price	Listed Value	Ratio T	C	Cat	the Town (All Sales). Your
1689669632	441-139-11569	AUSTIN STEPHANIE Location: 85 BAILEY RD.	PORTER RICHARD	6.79	1/14/2020	168,900	236,400	139.96 O	0	0	Outlier range for your Class
L117743616	441-139-10242	BACHMAN DAVID Location: 1945 LOOP RD	SHAW CASSIDY	13.50	9/18/2020	267,000	207,000	77.53			and Category can be foun
L39706624	441-139-10963	BREDBENNER MICHAEL Location: 1825 HALLSTROM	BUTLER CAROLINE ROAD	32.25	2/21/2020	279,000	243,200	87.17			on each statistics summar page for Category, Class, o
968223808	441-139-10882	CONLON, JUSTIN Location: 134 SCENIC VIEW	ROSS, CHRISTOPHER A DRIVE	8.00	9/24/2021	360,000	258,700	71.86			Town.
925862976	441-139-11930	DARLING, JOANN Location: 624 BEAN ROAD	ELLIS, GRETCHEN W	7.64	8/9/2021	218,875	168,900	77.17		Γ,	7-1 CO+1: I I !
L844390400	441-139-11637	DIEGO MARK Location: 1862 LOOP ROAD	ROTONDI KATHERINE	9.40	5/16/2019	278,000	275,400	99.06		'	Value of Outlier Low Lim 31.40
3371264	441-139-10873	DUNN, JESSE R Location: 449 WOODS ROAD	DUNCAN, ERIC W	10.10	12/17/2021	300,000	206,600	68.87			31.40
L1143648256	441-139-11789	GREEN BENJAMIN Location: 1665 RABBIT HOLI	SUPPLEE ARLINGTON LOW RD.	32.60	5/24/2019	380,000	452,300	119.03		1	Value of Outlier High Lin
L1941155840	441-139-11884	GRISWOLD TIMOTHY Location: 1248 ROUTE 12A	CADORETTE RONALD	13.40	12/10/2019	329,000	309,300	94.01			131.45
L200413184	441-139-11835	HEWITT GREG Location: 330 WEST HILL RO	HYDE RICHARD DAD	150.00	5/23/2019	350,000	404,900	115.69		L	
L770310144	441-139-12128	HOLUB LUCAS Location: 809 WEST HILL RO	CLEMENTS JOSEPH	27.00	6/17/2019	158,000	174,800	110.63			
L10092544	441-139-10412	JACKSON JARRET Location: 64 BELLMORE RO.	D'ANGELO P. MARK	30.00	9/26/2019	410,000	293,100	71.49			
L948551680	441-139-10722	KOZLOWSKI NATALIE	GERDES VERMONT REAL	105.30	7/2/2020	185,000	279,000	150.81 O	0	0	





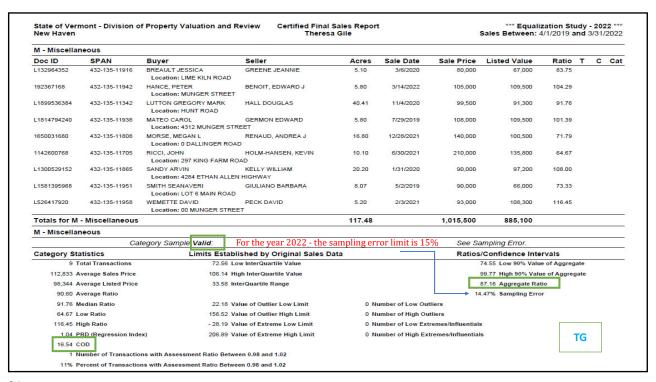
What is the Coefficient of Dispersion (COD)?

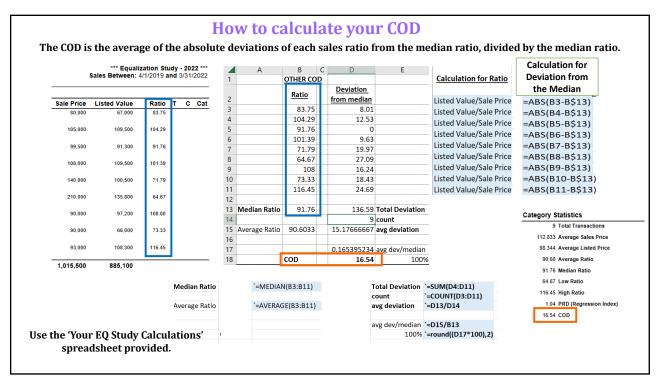
The Coefficient of Dispersion (COD) is a measure of equity. It shows how fairly distributed the property tax is within a town. A high COD (above 20%) means that many taxpayers are paying more than their fair share, and many are paying less than their fair share.

Towns are required by statute to maintain a Coefficient of Dispersion that does not exceed 20%. If this limit is not met, the Division of Property Valuation and Review will order the town to complete a reappraisal. (Title 32-5405)

19

				New Hay	en 2022					
				Certified Final Co	mputation Sheet					
Category	Property Count	ED Form 411 Listed Value	CUSE Value	Education Listed Value Excl. CUSE	Municipal Listed Value Excl. CUSE	Applied Ratio	Ratio Source	Education Equalized Value	Municipal Equalized Value	COD
R1	245	51,773,200	0	51,773,200	51,653,200	74.08		69,888,229	69,726,242	16.82
R2	370	119,082,800	1,057,800	118,025,000	117,965,000	79.19		150,252,661	150,176,894	14.33
MHU	1	17,400	0	17,400	17,400	76.78	C	22,662	22,662	0.00
MHL	23	3,156,900	6,900	3,150,000	3,150,000	76.78	C	4,110,539	4,110,539	0.00
S1	0	0	0	0	0	0.00	C	0	0	0.00
S2	5	2,060,800	38,200	2,022,600	2,022,600	76.78	C	2,678,062	2,678,062	0.00
C	34	13,539,300	0	13,539,300	13,539,300	77.61	T	17,445,303	17,445,303	0.00
CA	3	1,403,700	17,600	1,386,100	1,386,100	77.61	T	1,806,153	1,806,153	0.00
I	4	4,685,600	87,200	4,598,400	4,598,400	77.61	T	6,024,952	6,024,952	0.00
UE	13	76,267,000	0	76,267,000	86,066,600	88.54	0	86,138,468	97,206,460	0.00
UO	1	27,097,500	0	27,097,500	27,097,500	77.61	T	34,914,959	34,914,959	0.00
F	40	11,296,000	2,143,500	9,152,500	9,152,500	87.16	C	12,957,537	12,957,537	0.00
0	34	58,400	0	58,400	58,400	87.16	C	67,003	67,003	0.00
W	4	387,800	20,100	367,700	367,700	87.16	C	444,905	444,905	0.00
M	130	7,792,900	1,340,300	6,452,600	6,452,600	87.16		8,939,327	8,939,327	16.54
	907	318,619,300	4,711,600	313,907,700	323,527,300			395,690,762	406,521,000	
			Cable:	596,532	0	100.00		596,532	0	
			Inventory:	Exempt	0	100.00		Exempt	0	
		Mach	inery & Equip:	Exempt	0	100.00		Exempt	0	
			TOTAL:	596,532	0			596,532	0	
		GI	RAND TOTAL:	\$314,504,232	\$323,527,300	80.55		\$396,287,294	\$406,521,000	
		Certified	to County:	\$396,287,000	CLA:		80.55	"Patio Source	e" Definitions:	
CW		Certified		\$396,287,000		ride COD:			Class	
-		- Ct. initu		J.J. 0,201,300	201111			177	Town-wide	





The results of the Equalization Study are used to do the following:

- Determine education property tax rates
- Determine whether a municipality must undergo a reappraisal
- · Determine taxes municipalities pay to the county
- The CLA is applied to current use value to equalize and make equitable

23

The results of the Equalization Study are used to do the following:

- The CLA is applied to appeals beyond lister grievance to make fair market value equitable
- The CLA is applied to utility values each year to make fair market value equitable
- The CLA is applied directly to education tax rates to equalize the rates

To learn more about the Equalization Study, see <u>'Introduction to Vermont's Equalization Study'</u>, located on our website.

What is the Lister/Assessor Role & Responsibility when it comes to this process?

The listers/assessor are asked to provide feedback to PVR each year about the validity of sales. It is essential to spend sufficient time researching sales that come into your office to determine if they represent valid/arms- length transactions. The importance cannot be understated. If you are not allowed enough time to do this, you might want to have a conversation with your Selectboard about the impact of these numbers.

25

What is the Lister/Assessor Role & Responsibility when it comes to this process?

The results of the sales study hinge primarily on the quality of data that is used. It is also important for you to study sales for your own purposes to have knowledge and insight into your level of assessment so you can speak about it to taxpayers and town officials in addition to making decisions and planning adjustments to your grand list. A complete reappraisal is only one option.

Questions and Comments

27

Next Step

In 2 weeks, we will have another one of these sessions where we will talk about validating sales, researching sales, what to look for, and how to use the appropriate codes to invalidate sales.

We will take a break and use the link in the comments to access the VTPIE Training on Sales Validation.