Shrewsbury Public Schools

Average Per Pupil Expenditure Report March 2017

Topics

- How the data is derived
- Who publishes the data and when
- What goes into the calculation
- Comparative data sets
- Conclusions

How the data is derived

- Expenditures: All Massachusetts school districts are required to annually report their revenues and expenditures to the Department of Elementary and Secondary Education using a standard format called the End of Year Report
- <u>Pupils:</u> All Massachusetts school districts are required to report their student enrollment data and demographics three times per year via the Student Information Management System

Who publishes the data and when

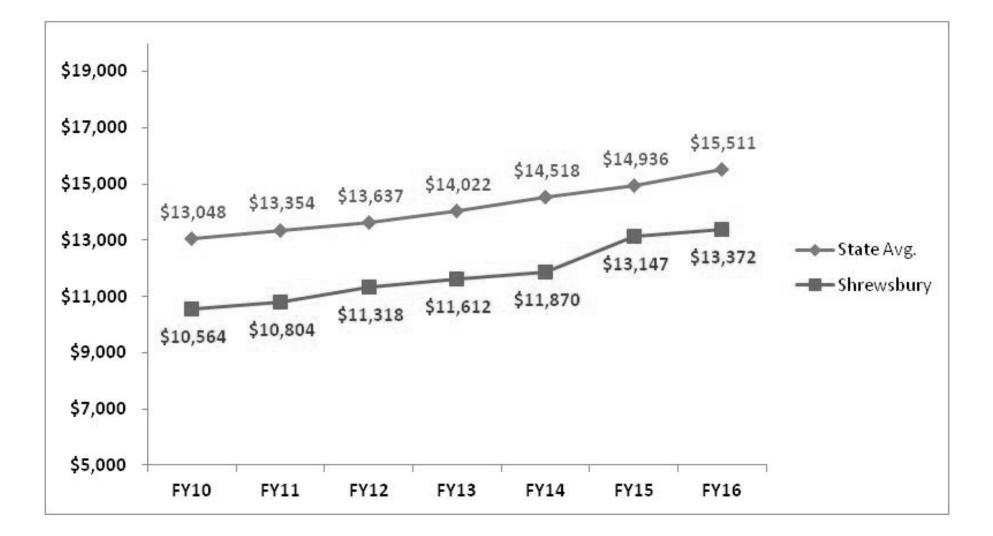
- <u>Who:</u> The average per pupil expenditure data for each school district is calculated and published by the Department of Elementary and Secondary Education and available on their website.
- <u>When:</u> Typically the data is published in February or March of each for the preceding fiscal year. FY16 data was published on 3/21/2016.

What goes into the calculation

• Spending from all funds

- The following funding sources are all included in the functional expenditure per pupil measure.
 - school committee appropriations
 - municipal appropriations outside the school committee budget that affect schools
 - federal grants
 - state grants
 - circuit breaker funds
 - private grants and gifts
 - school choice and other tuition revolving funds
 - athletic funds
 - school lunch funds
 - other local receipts such as rentals and insurance receipts

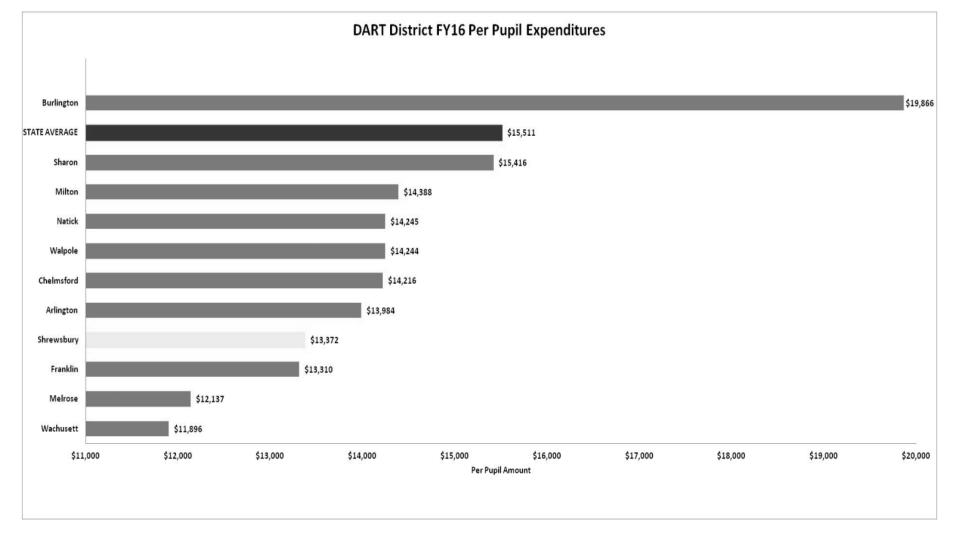
Shrewsbury v. State Average



Shrewsbury v. State Median

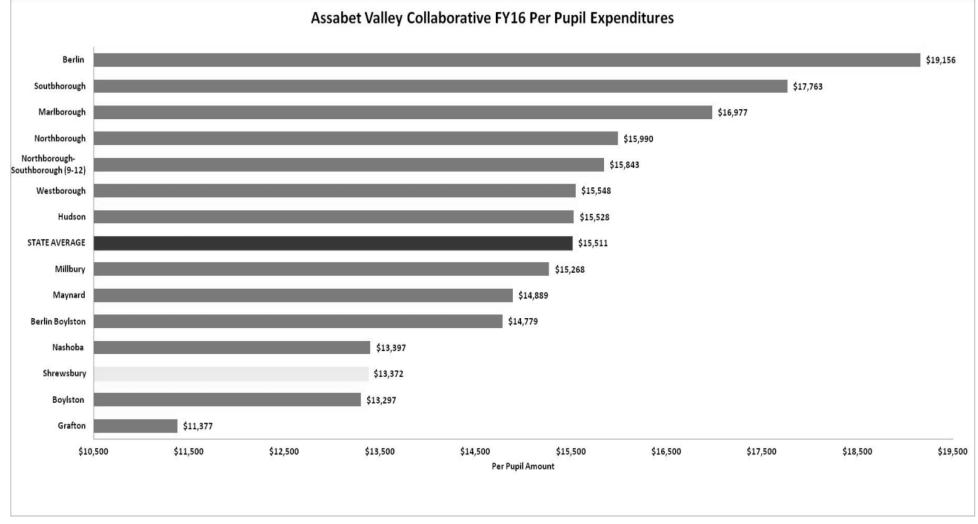
- FY16 State Median = \$15,021
- FY16 Shrewsbury = \$13,372
 - \$ below median \$1,649
 - % below median 11%

Shrewsbury v. "Comparable Communities"



MA DESE determines comparable communities by district grades span, total enrollment, and special student populations.

Shrewsbury v. Assabet Valley Collaborative Communities



Source: MA Department of Elementary and Secondary Education

Shrewsbury v. Similar Size Districts

Size Rank	District	Pupils	Avg. Cost
1	WACHUSETT	7,542	\$11,896
2	REVERE	7,488	\$14,492
3	CHELSEA	7,248	\$14,329
4	METHUEN	7,196	\$13,234
5	CAMBRIDGE	7,177	\$28,399
6	LEXINGTON	7,026	\$18,069
7	WEYMOUTH	6,644	N/R
8	HOLYOKE	6,606	\$16,568
9	LEOMINSTER	6,533	\$13,301
10	PITTSFIELD	6,384	\$14,451
11	SHREWSBURY	6,271	\$13,372
12	ANDOVER	6,227	\$16,389
13	ATTLEBORO	6,188	\$13,378
14	PEABODY	6,109	\$14,299
15	FRANKLIN	5,948	\$13,310
16	BRAINTREE	5,850	\$14,112
17	FITCHBURG	5,812	\$13,937
18	ACTON-BOXBOROUGH	5,746	\$14,745
19	WESTFIELD	5,720	\$14,289
20	NEEDHAM	5,678	\$16,547
21	BARNSTABLE	5,607	\$15,556

Cost Rank	District	Pupils	FY16 Avg. Cost
1	WEYMOUTH	6,644	N/R
2	CAMBRIDGE	7,177	\$28,399
3	LEXINGTON	7,026	\$18,069
4	HOLYOKE	6,606	\$16,568
5	NEEDHAM	5,678	\$16,547
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16	ATTLEBORO	6,188	\$13,378
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18	FRANKLIN	5,948	\$13,310
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20	METHUEN	7,196	\$13,234
21	WACHUSETT	7,542	\$11,896

Adjusting for economies of scale, SPS ranks below the median in PPX for its peer group.

Shrewsbury v. Districts with Similar Income/Capita

Rank	Municipality	School District	2014 Census	2014 DOR Income	DOR Income Per Capita	FY16 Average PPX [High to Low]	
1	Edgartown	Martha's Vineyard	4,297	213,674,000	49,726	24,711	
2	Dedham	Dedham	25,411	1,285,381,000	50,584	18,415	
3	Rockport	Rockport	7,162	346,523,000	48,384	17,297	
4	Essex	Manchester-Essex	3,633	195,659,000	53,856	16,327	
5	Chatham	Monomoy	6,138	325,472,000	53,026	16,135	
6	Foxborough	Foxborough	17,399	833,641,000	47,913	16,058	
7	Northborough	Northborough K-8	14,914	774,857,000	51,955	15,990	
8	Ipswich	Ipswich	13,673	720,344,000	52,684	15,575	
9	Newburyport	Newburyport	17,889	933,250,000	52,169	15,307	
10	Norfolk	Norfolk	11,790	595,626,000	50,520	15,193	
11	Upton	Mendon-Upton	7,701	388,616,000	50,463	15,033	Median PPX
12	Mendon	Mendon-Upton	5,962	307,084,000	51,507	15,033	
13	Littleton	Littleton	9,404	476,673,000	50,688	14,358	
14	Dunstable	Groton-Dunstable	3,390	178,003,000	52,508	14,247	
15	Walpole	Walpole	24,966	1,257,171,000	50,355	14,244	
16	Wrentham	Wrentham	11,434	571,633,000	49,994	14,209	
17	Hanover	Hanover	14,349	748,793,000	52,184	13,547	-
18	Shrewsbury	Shrewsbury	36,574	1,883,130,000	51,488	13,372	Median Income
19	Holliston	Holliston	14,392	751,032,000	52,184	13,186	per Capita
20	Reading	Reading	25,482	1,326,944,000	52,074	13,163	L
21	Princeton	Wachusett	3,461	174,316,000	50,366	11,896	
				Averages	\$ 51,173	\$ 15,395	

Shrewsbury v. Districts with Similar EQV/Capita

Rank	Municipality	School District	2014 Census	2016 EQV	EQV Per Capita	FY16 Average PPX [High to Low]		
1	Northfield	Pioneer Valley Reg.	3,008		152,637	N/R		
2	Cummington	Central Berkshire Reg.	873		151,324	15,484		
3	Hinsdale	Central Berkshire Reg.	1,977		153,700	15,484		
4	Washington	Central Berkshire Reg.	535		156,298	15,484		
5	Plainville	Plainville K-8	8,956		155,224	15,099		
6	Mendon	Mendon-Upton	5,962	901,857,400	151,268	15,033		
7	Seekonk	Seekonk	14,691	2,241,360,800	152,567	15,021		
8	Wareham	Wareham	22,464	3,397,641,400	151,248	14,854		
9	Saugus	Saugus	27,885	4,162,848,900	149,286	14,629		
10	Mansfield	Mansfield	23,604		149,210	14,457		
11	Groton	Groton-Dunstable	11,225	1,635,643,200	145,714		Median PPX	
12	Dunstable	Groton-Dunstable	3,390	512,397,400	151,150			
13	Chelmsford	Chelmsford	35,028	5,436,078,900	155,192			
14	Medford	Medford	57,295	8,962,552,200	156,428	13,895		
15	Rehoboth	Dighton-Rehoboth	11,932	1,758,293,500	147,359	-		
16	Beverly	Beverly	41,081	6,145,554,700	149,596	-		
17	Shrewsbury	Shrewsbury	36,574	5,538,400,100	151,430	13,372	Median EQV pe	er Capita
18	Franklin	Franklin	33,011	5,001,281,700	151,503			
19	Boylston	Boylston	4,476	686,459,600	153,365	13,297	L	
20	Raynham	Bridgewater-Raynham	13,695	2,011,714,400	146,894	13,175		
21	West Bridgewater	West Bridgewater	7,048	1,101,346,700	156,264	12,177		
				Averages	\$ 151,793	\$ 14,350		

Massachusetts Department of Elementary and Secondary Education

Per Pupil Expenditure Summary, FY14-FY16

Fiscal year 2016 data last updated March 3, 2017

This report shows per pupil expenditures by major functional categories for the last three years, including total in-district expenditures, and total expenditures for all districts. Total expenditures per pupil average across all expenditures and pupils, both in-district and out-of-district. The out-of-district expenditure functions (9000 series) are not included on this report because we are not able to calculate per pupil expenditures consistently for all of these functional categories. Districts with incomplete fiscal year 2016 data are not displayed.

Shrew	sbury			
		2014	2015	2016
FTEIn	In-District FTE Pupils	5,925.8	5,868.2	5,967.9
FTEOut	Out-of-District FTE Pupils	357.8	353.3	302.8
FTEs	Total FTE Pupils	6,283.6	6,221.5	6,270.7

			2014			2015			2016		
		\$ Per In-			\$ Per In-			\$ Per In-			
		District Pupil	State Average	% of State	District Pupil	State Average	% of State	District Pupil	State Average	% of State	
Functio	n Description	Α	В	C = A/B	Α	В	C = A/B	Α	В	C = A/B	
ADMN	Administration	\$310.26	\$500.14	62.0%	\$294.78	\$531.08	55.5%	\$338.54	\$545.36	62.1%	
LDRS	Instructional Leadership	\$676.87	\$935.16	72.4%	\$754.67	\$976.22	77.3%	\$795.88	\$1,016.07	78.3%	
TCHR	Teachers	\$4,315.20	\$5,442.89	79.3%	\$5,042.60	\$5,619.30	89.7%	\$5,087.39	\$5,831.96	87.2%	
TSER	Other Teaching Services	\$1,326.94	\$1,138.33	116.6%	\$1,391.59	\$1,177.10	118.2%	\$1,444.07	\$1,240.11	116.4%	
PDEV	Professional Development	\$163.13	\$217.05	75.2%	\$154.56	\$197.46	78.3%	\$216.32	\$207.18	104.4%	
MATL	Instructional Materials, Equipment and Technology	\$307.49	\$431.09	71.3%	\$417.69	\$430.87	96.9%	\$331.93	\$466.69	71.1%	
GUID	Guidance, Counseling and Testing	\$322.09	\$420.88	76.5%	\$376.31	\$443.26	84.9%	\$361.74	\$461.50	78.4%	
SERV	Pupil Services	\$1,087.92	\$1,375.78	79.1%	\$1,143.38	\$1,430.21	79.9%	\$1,288.38	\$1,502.53	85.7%	
OPMN	Operations and Maintenance	\$708.41	\$1,102.49	64.3%	\$818.03	\$1,140.40	71.7%	\$794.49	\$1,124.35	70.7%	
BENE	Insurance, Retirement Programs and Other	\$1,544.90	\$2,434.56	63.5%	\$1,584.28	\$2,490.70	63.6%	\$1,693.30	\$2,598.82	65.2%	
1111	In-District Per Pupil Expenditure	\$10,763.21	\$13,998.38	76.9%	\$11,977.91	\$14,436.60	83.0%	\$12,352.04	\$14,994.57	82.4%	
ттрр	Total Per Pupil Expenditures	\$11,869.99	\$14,520.87	81.7%	\$13,147.35	\$14,942.48	88.0%	\$13,372.35	\$15,511.26	86.2%	

\$ Per In-		\$ Per In-				PS v State	Ranking SPS out	Percentile
		District Pupil	State Average	% of State	av	erage per	of 314 districts,	100%= Тор,
Functio	on Description	Α	В	C = A/B		pupil	1=highest	1%=Bottom
ADMN	Administration	\$338.54	\$545.36	62.1%	\$	(206.81)	293	7%

		\$ Per In-			SF	'S v State	Ranking SPS out	Percentile
		District Pupil	State Average	% of State	av	erage per	of 314 districts,	100%= Тор,
Functi	on Description	Α	В	C = A/B		pupil	1=highest	1%=Bottom
LDRS	Instructional Leader	\$795.88	\$1,016.07	78.3%	\$	(220.19)	235	25%

		\$ Per In-			SP	'S v State	Ranking SPS out	Percentile
		District Pupil	State Average	% of State	av	erage per	of 314 districts,	100%= Тор,
Functi	on Description	Α	В	C = A/B		pupil	1=highest	1%=Bottom
TCHR	Teachers	\$5,087.39	\$5,831.96	87.2%	\$	(744.57)	243	23%

		\$ Per In-			SPS v Stat	Ranking SPS out	Percentile
			State Average	% of State	1	r of 314 districts,	1
Functi	ion Description	Α	В	C = A/B	pupil	1=highest	1%=Bottom
TSER	Other Teaching Services	\$1,444.07	\$1,240.11	116.4%	\$ 203.9	6 91	71%

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		\$ Per In-			SPS v State	Ranking SPS out	Percentile
		District Pupil	State Average	% of State	average per	of 314 districts,	100%= Тор,
Functi	on Description	Α	В	C = A/B	pupil	1=highest	1%=Bottom
PDEV	Professional Development	\$216.32	\$207.18	104.4%	\$ 9.14	103	67%

		\$ Per In-			SPS v State	Ranking SPS out	Percentile
		District Pupil	State Average	% of State	average per	of 314 districts,	100%= Тор,
Functio	on Description	Α	В	C = A/B	pupil	1=highest	1%=Bottom
MATL	Instructional Materials, Equipment and Technology	\$331.93	\$466.69	71.1%	\$ (134.76)	199	37%

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		\$ Per In-			SPS v Sta	te Ranking SPS out	Percentile
		District Pupil	State Average	% of State	average p	per of 314 districts,	100%= Top,
Functio	on Description	Α	В	C = A/B	pupil	1=highest	1%=Bottom
GUID	Guidance, Counseling and Testing	\$361.74	\$461.50	78.4%	\$ (99	9.76) 243	23%

		\$ Per In-			SPS v State	Ranking SPS out	Percentile
		District Pupil St	tate Average	% of State	average per	of 314 districts,	100%= Тор,
Functi	on Description	Α	В	C = A/B	pupil	1=highest	1%=Bottom
SERV	Pupil Services	\$1,288.38	\$1,502.53	85.7%	\$ (214.15	j) 191	39%

		\$ Per In-			SPS v	State	Ranking SPS out	Percentile
		District Pupil	State Average	% of State	averag	ge per	of 314 districts,	100%= Тор,
Function Description		Α	В	C = A/B	pu	pil	1=highest	1%=Bottom
OPMN	Operations and Maintenance	\$794.49	\$1,124.35	70.7%	\$ (329.86)	298	5%

\$ Per In		\$ Per In-			SPS v St	ate Ranking SPS	out Percentile
		District Pupil	State Average	% of State	average	per of 314 distr	icts, 100%= Top,
Function Description		Α	В	C = A/B	pupil	1=highes	t 1%=Bottom
BENE	Insurance, Retirement Programs and Other	\$1,693.30	\$2,598.82	65.2%	\$ (90	5.52) 286	9%

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		\$ Per In-			SPS v State	Ranking SPS out	Percentile
		District Pupil	State Average	% of State	average per	of 314 districts,	100%= Top,
Functio	on Description	А	В	C = A/B	pupil	1=highest	1%=Bottom
1111	In-District Per Pupil Expenditure	\$12,352.04	\$14,994.57	82.4%	\$ (2,642.54)	301	4%

Other Facts

- Shrewsbury ranks #257 of 314 school districts reported thus far. [Data for 15 districts is not yet published.]
 This is bottom 18th percentile
- *Shrewsbury ranks #72 of 351 Commonwealth communities in income per capita at \$51,488

– This is the top 21st percentile

- *State <u>average income per capita</u> is \$41,937 and median is \$33,453
 - *Department of Revenue data from 2014-latest available

Conclusions

- The different data sets all affirm Shrewsbury Public Schools is a comparatively "costefficient" organization
- If S.P.S. were spending at the state average per pupil, our budget would have to increase by \$13.4M [6270.7 pupil FTE x \$2,139]