## FY18 Chapter 70 Aid

Preliminary House 1 Proposal January 25, 2017



ELEMENTARY AND SECONDARY

EDUCATION

## Highlights from House 1

- FY18 Chapter 70 (prelim) is \$4.72B
  - \$91M (2%) increase from FY17
- Foundation budgets are increased by an inflation factor of 1.11%.
- House 1 includes an increase to the "Benefits and Fixed Charges" foundation budget rate, based on the recommendations of the 2015 Foundation Budget Review Commission. It begins to implement a new rate which acknowledges the rapid rise of healthcare costs relative to inflation, and builds in a component to recognize the cost of retiree healthcare. This adds \$66M to statewide foundation.
- Economically disadvantaged enrollment continues to replace free and reduced price lunch data, which is no longer available for all districts as a result of districts' participation in the USDA's Community Eligibility Program. The decile assignment and rate methodology is the same as FY17, with the rates factored up by inflation.
- The equity component of the formula continues to be phased in. Those communities required
  to contribute more than their targets will have the gap between their required and target local
  contributions reduced by 85%.
- All districts receive at least \$20 per pupil in additional aid over the prior year.

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## Goal of the Chapter 70 formula

 To ensure that every district has sufficient resources to meet its foundation budget spending level, through an equitable combination of local property taxes and state aid.



### Chapter 70 aid is determined in three basic steps

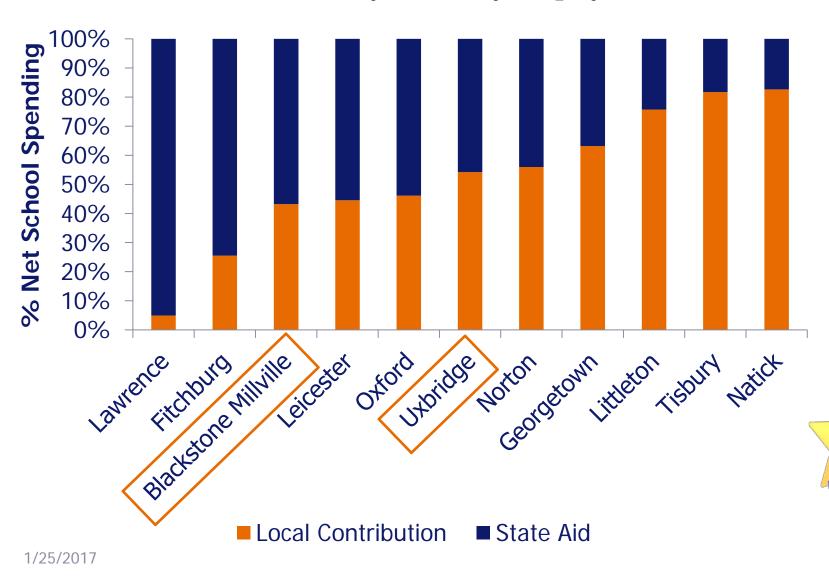
A district's Chapter 70 aid is determined in three basic steps:

- 1. It defines and calculates a **foundation budget**, an adequate funding level for each district, given the specific grades, programs, and demographic characteristics of its students.
- 2. It then determines an equitable **local contribution**, how much of that "foundation budget" should be paid for by each city and town's property tax, based upon the relative wealth of the community.
- The remainder is funded by Chapter 70 state aid.

Local Contribution + State Aid = a district's <u>Net School</u> <u>Spending (NSS) requirement</u>. This is the minimum amount that a district must spend to comply with state law.



## Districts receive different levels of Chapter 70 aid, because their community's ability to pay differs



## Key Factors in School Funding Formula

### Foundation Budget

- Enrollment
- Wage Adjustment Factor
- Inflation

### **Local Contribution**

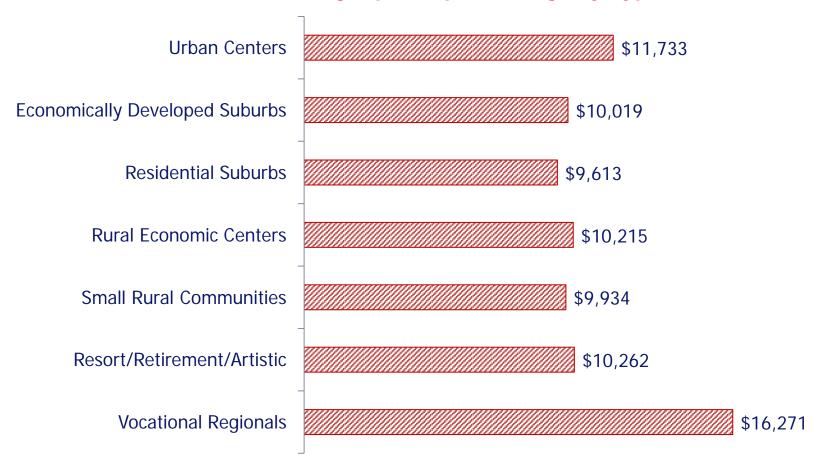
- Property value
- Income
- Municipal Revenue Growth Factor

These six factors work together to determine a district's c70 aid.



# Foundation budgets are an indication of student need

#### FY18 Foundation Budget per Pupil, Average by Type of District





### A district's foundation budget is derived by multiplying the number of pupils in 13 enrollment categories by cost rates in 11 functional areas.

#### FY18 Chapter 70 Foundation Budget

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				Base Fou	ndation Comp	ponents					Incremental Costs Above The Base			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
	Pre-	Kinde	rgarten		Jr High/	High	ELL	ELL	ELL	Voca-	Special Ed	Special Ed	Economically	
	School	Half-Day	Full-Day	Elementary	Middle	School	PK	K Half	KF - 12	tional	In District	Out of Dist	Disadvantaged	TOTAL*
Foundation Enrollment	37	7 0	128	707	456	518	0	0	22	19	70	18	378	1,869
1 Administration	6,809	0	47,109	260,204	167,826	190,645	0	0	8,097	6,993	177,811	45,723	0	911,216
2 Instructional Leadership	12,298	0	85,084	469,957	303,112	344,325	0	0	14,624	12,630	0	0	0	1,242,030
3 Classroom and Specialist Teachers	56,388	0	390,140	2,154,887	1,223,083	2,043,194	0	0	100,987	127,405	586,730	0	1,176,827	7,859,640
4 Other Teaching Services	14,462	0	100,063	552,690	256,605	242,673	0	0	13,752	8,901	547,821	699	0	1,737,665
5 Professional Development	2,230	0	15,437	85,278	59,627	65,672	0	0	3,592	3,983	28,304	0	25,901	290,022
6 Instructional Equipment & Tech	8,161	0	56,467	311,893	201,164	365,630	0	0	9,705	23,469	24,704	0	0	1,001,195
7 Guidance and Psychological	4,103	0	28,389	156,806	134,625	191,701	0	0	6,495	7,032	0	0	0	529,150
8 Pupil Services	1,632	0	11,295	93,571	98,578	258,223	0	0	2,912	9,472	0	0	0	475,682
9 Operations and Maintenance	15,658	0	108,337	598,391	418,421	460,865	0	0	25,208	31,637	198,623	0	181,754	2,038,893
10 Employee Benefits/Fixed Charges	15,347	0	106,182	586,521	369,627	394,695	0	0	22,054	22,739	228,177	0	119,459	1,864,801
11 Special Ed Tuition	0	0	0	0	0	0	0	0	0	0	0	434,113	0	434,113
12 Total	137,087	0	948,503	5,270,198	3,232,669	4,557,622	0	0	207,425	254,258	1,792,170	480,534	1,503,941	18,384,408
13 Wage Adjustment Factor	100.0%										Foundat	ion Budget	per Pupil	9,836

All of your students are counted in categories 1-10. Special education and economically disadvantaged costs are treated as "costs above the base" and are captured in 11-13.



14 Economically Disadvantaged Decile

### A district's foundation budget is derived by multiplying the number of pupils in 13 enrollment categories by cost rates in 11 functional areas.

#### FY18 Chapter 70 Foundation Budget

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	Base Foundation Components						Incremental Costs Above The Base							
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
	Pre-	Kinde	rgarten		Jr High/	High	ELL	ELL	ELL	Voca-	Special Ed	Special Ed	Economically	
	School	Half-Day	Full-Day	Elementary	Middle	School	PK	K Half	KF - 12	tional	In District	Out of Dist	Disadvantaged	TOTAL*
Foundation Enrollment	70	0	113	666	433	467	0	0	69	0	66	17	409	1,783
1 Administration	12,882	0	41,589	245,115	159,361	171,875	0	0	25,395	0	167,650	43,183	0	867,048
2 Instructional Leadership	23,266	0	75,113	442,704	287,824	310,424	0	0	45,866	0	0	0	0	1,185,196
3 Classroom and Specialist Teachers	106,679	0	344,421	2,029,921	1,161,393	1,842,030	0	0	316,733	0	553,202	0	1,273,340	7,627,719
4 Other Teaching Services	27,360	0	88,337	520,639	243,662	218,780	0	0	43,131	0	516,517	660	0	1,659,086
5 Professional Development	4,219	0	13,628	80,333	56,619	59,206	0	0	11,265	0	26,686	0	28,025	279,981
6 Instructional Equipment & Tech	15,441	0	49,850	293,806	191,018	329,632	0	0	30,439	0	23,293	0	0	933,478
7 Guidance and Psychological	7,762	0	25,062	147,712	127,835	172,827	0	0	20,371	0	0	0	0	501,569
8 Pupil Services	3,087	0	9,971	88,145	93,606	232,800	0	0	9,132	0	0	0	0	436,741
9 Operations and Maintenance	29,624	0	95,641	563,689	397,316	415,490	0	0	79,061	0	187,273	0	196,659	1,964,754
10 Employee Benefits/Fixed Charges	29,035	0	93,739	552,508	350,984	355,835	0	0	69,169	0	215,139	0	129,256	1,795,664
11 Special Ed Tuition	0	0	0	0	0	0	0	0	0	0	0	409,995	0	409,995
12 Total	259,355	0	837,350	4,964,571	3,069,618	4,108,899	0	0	650,561	0	1,689,760	453,838	1,627,280	17,661,231
13 Wage Adjustment Factor	100.0%										Foundat	ion Budget	per Pupil	9,905

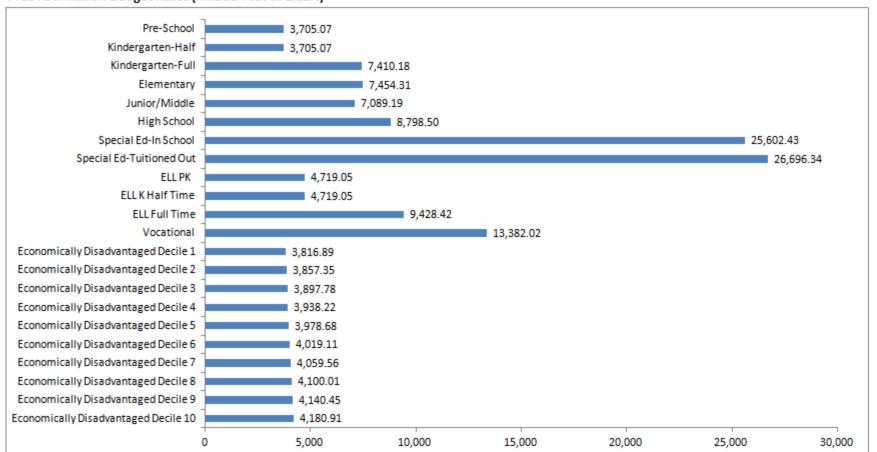
All of your students are counted in categories 1-10. Special education and economically disadvantaged costs are treated as "costs above the base" and are captured in 11-13.



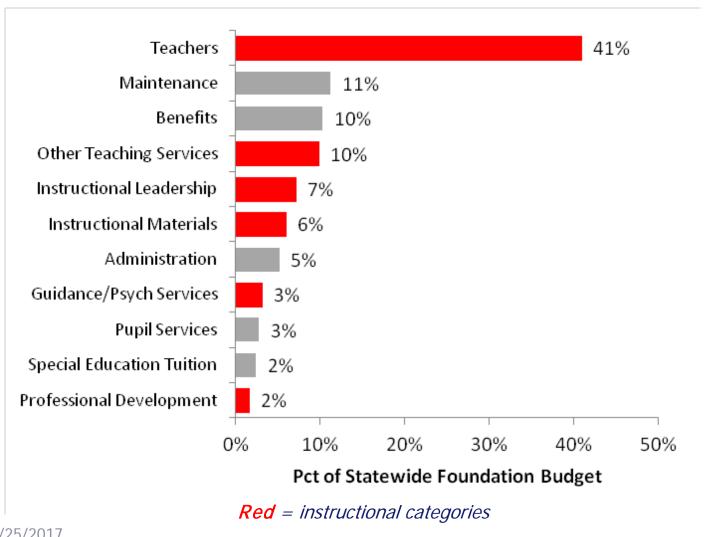
14 Economically Disadvantaged Decile

# Foundation budget rates reflect differences in the cost of educating different types of students.

FY18 Foundation Budget Rates (Inflation set at 1.11%)



## Instructional categories comprise 68% of the statewide foundation budget.



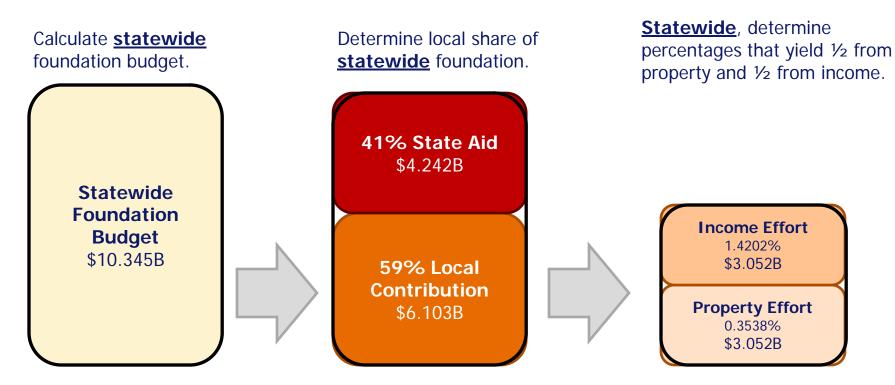


### **Local Contribution**

Establishing local ability to pay

- The foundation budget is a shared municipal-state responsibility.
- Each community has a different target local share, or ability to pay, based on its property values and residents' incomes.
- Prior to this policy, required local contributions had become less linked to ability to pay. A process was established in 2007 to move each community from its 2006 baseline to its new target.

# How is the required local contribution calculated? Determining each community's target local share starts with the local share of statewide foundation.



Property and income percentages are applied uniformly across <u>all</u> <u>cities and towns</u> to determine the **combined effort yield** from property and income.



# Uxbridge – Calculation of Required Local Contribution

#### FY18 Determination of City and Town Total Required Contribution

FY18 Increments Toward Goal

#### 304 Uxbridge

Effort Goal

1) 2016 equalized valuation	1,575,033,900	13) Required local contribution FY17	12,144,534
2) Property percentage	0.3538%	14) Municipal revenue growth factor (DOR)	3.99%
3) Local effort from property wealth	5,572,839	15) FY18 preliminary contribution (13 x 14)	12,629,101
		16) Preliminary contribution pct of foundation (15/8)	61.63%
4) 2014 income	469,132,000		
5) Income percentage	1.4202%	If preliminary contribution is above the target share:	
6) Local effort from income	6,662,764	17) Excess local effort (15 - 10)	393,498
		18) 85% reduction toward target (17 x 85%)	334,473
7) Combined effort yield (row 3+ row 6)	12,235,603	19) FY18 required local contribution (15 - 18), capped at 90% of foundation	12,294,628
		20) Contribution as percentage of foundation (19 / 8)	59.99
8) Foundation budget FY18	20,493,340		
9) Maximum local contribution (82.5% * row 8)	16,907,006	If preliminary contribution is below the target share:	
		21) Shortfall from target local share (11 - 16)	
10) Target local contribution (lesser of row 7 or row 9)	12,235,603	22) Added increment toward target (13 x 1% or 2%)*	
		*1% if shortfall is between 2.5% and 7.5%; 2% if shortfall > 7.5%	
11) Target local share (row 10 as % of row 8)	59.71%	23) Shortfall from target after adding increment (10 - 15 - 22)	
12) Target aid share (100% minus row 11)	40.29%	24) FY18 required local contribution (15 + 22)	
		25) Contribution as percentage of foundation (24 / 8)	



## Blackstone – Calculation of Required Local Contribution

#### FY18 Determination of City and Town Total Required Contribution

#### 32 Blackstone

Effort Goal		FY18 Increments Toward Goal
1) 2016 equalized valuation	894,520,200	13) Required local contribution FY17 6,948,202
2) Property percentage	0.3538%	14) Municipal revenue growth factor (DOR) 4.42%
3) Local effort from property wealth	3,165,022	15) FY18 preliminary contribution (13 x 14) 7,255,313
		16) Preliminary contribution pct of foundation (15/8) 50.63%
4) 2014 income	261,254,000	
5) Income percentage	1.4202%	If preliminary contribution is above the target share:
6) Local effort from income	3,710,414	17) Excess local effort (15 - 10) 379,877
		18) 85% reduction toward target (17 x 85%) 322,895
7) Combined effort yield (row 3+ row 6)	6,875,436	19) FY18 required local contribution (15 - 18), capped at 90% of foundation 6,932,418
		20) Contribution as percentage of foundation (19 / 8) 48.38
8) Foundation budget FY18	14,329,431	
9) Maximum local contribution (82.5% * row 8)	11,821,780	If preliminary contribution is below the target share:
		21) Shortfall from target local share (11 - 16)
10) Target local contribution (lesser of row 7 or row 9)	6,875,436	22) Added increment toward target (13 x 1% or 2%)*
		*1% if shortfall is between 2.5% and 7.5%; 2% if shortfall > 7.5%
11) Target local share (row 10 as % of row 8)	47.98%	23) Shortfall from target after adding increment (10 - 15 - 22)
12) Target aid share (100% minus row 11)	52.02%	24) FY18 required local contribution (15 + 22)
		25) Contribution as percentage of foundation (24 / 8)



# Millville – Calculation of Required Local Contribution

#### FY18 Determination of City and Town Total Required Contribution

#### 188 Millville

Effort Goal		FY18 Increments Toward Goal	
1) 2016 equalized valuation	287,812,000	13) Required local contribution FY17	2,254,606
2) Property percentage	0.3538%	14) Municipal revenue growth factor (DOR)	3.26%
3) Local effort from property wealth	1,018,346	15) FY18 preliminary contribution (13 x 14)	2,328,106
		16) Preliminary contribution pct of foundation (15/8)	42.47%
4) 2014 income	95,433,000		
5) Income percentage	1.4202%	If preliminary contribution is above the target share:	
6) Local effort from income	1,355,370	17) Excess local effort (15 - 10)	
		18) 85% reduction toward target (17 x 85%)	
7) Combined effort yield (row 3+ row 6)	2,373,717	19) FY18 required local contribution (15 - 18), capped at 90% of foundation	
		20) Contribution as percentage of foundation (19 / 8)	
8) Foundation budget FY18	5,481,183		
9) Maximum local contribution (82.5% * row 8)	4,521,976	If preliminary contribution is below the target share:	
		21) Shortfall from target local share (11 - 16)	0.84%
10) Target local contribution (lesser of row 7 or row 9)	2,373,717	22) Added increment toward target (13 x 1% or 2%)*	0
		*1% if shortfall is between 2.5% and 7.5%; 2% if shortfall > 7.5%	
11) Target local share (row 10 as % of row 8)	43.31%	23) Shortfall from target after adding increment (10 - 15 - 22)	45,611
12) Target aid share (100% minus row 11)	56.69%	24) FY18 required local contribution (15 + 22)	2,328,106
		25) Contribution as percentage of foundation (24 / 8)	42.47%

## Individual communities' target local shares are based on local property values and income, and foundation budget.

- To determine local effort, first apply this year's property percentage (0.3538%) to the town's 2016 total equalized property valuation
- Then apply this year's income percentage (1.4202%) to the town's 2014 total residential income

### **Local Property Effort**

- + Local Income Effort
- = Combined Effort Yield (CEY)
- Target Local Share = CEY/Foundation budget
  - Capped at 82.5% of foundation
  - In FY18, 148 of 351 communities are capped.



## Getting Closer To the Target Contribution Determining the Upcoming Year's Local Contribution

#### **Preliminary Contribution**

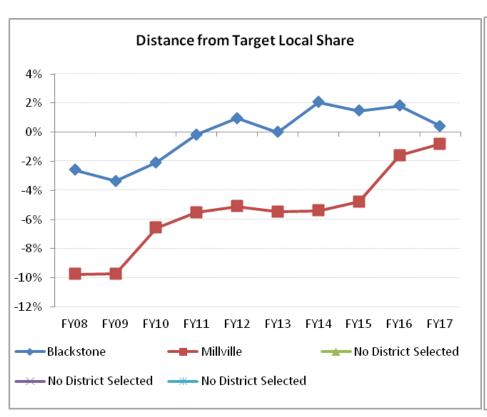
- Increase last year's required local contribution by the municipality's <u>Municipal</u> <u>Revenue Growth Factor (MRGF)</u>
  - Calculated annually by the Department of Revenue
  - Quantifies the most recent annual percentage change in each community's local revenues, such as the annual increase in the Proposition 2½ levy limit, that should be available for schools

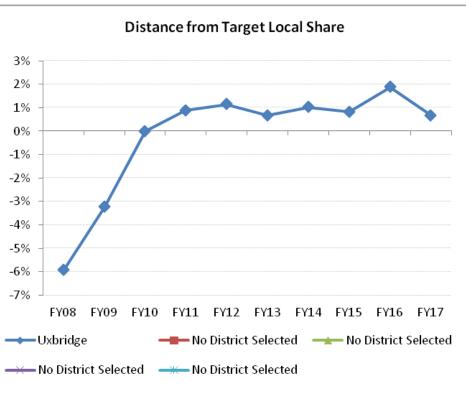
#### **Required Contribution**

- If the preliminary contribution is **above** the target, reduce by the effort reduction percent (85% in FY18).
- If the preliminary contribution is **below by less than 2.5%**, the preliminary contribution becomes the new requirement.
- If the preliminary contribution is below by more than 7.5%, an additional 2% is added to the preliminary contribution. For those below by between 2.5 and 7.5%, 1% is added.

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# Each community transitions to its target local share at a different pace.

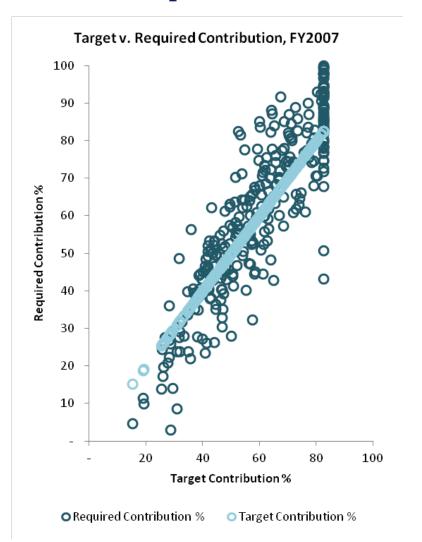


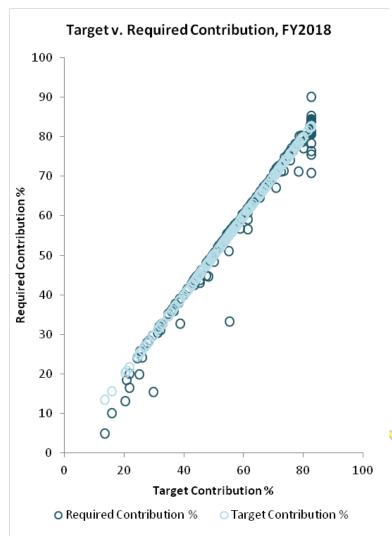


http://www.doe.mass.edu/finance/chapter70/keyfactors.xlsx



# Reaching the Targets Over Time All Municipalities

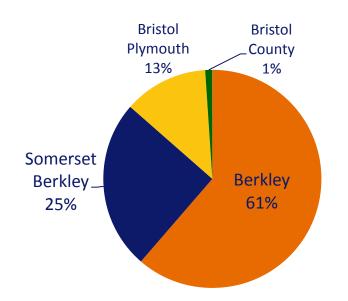




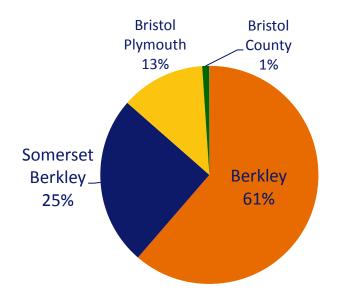
How is the district's required local contribution calculated? Once the city or town's required local contribution is calculated, it is allocated among the districts to which it belongs.

#### **Town of Berkley**

Foundation Budget = \$11.6M



#### **Required Local Contribution = \$6.0M**





# Once the city or town's required local contribution is calculated, it is allocated among the districts to which it belongs.

#### **Apportionment of Local Contribution Across School Districts**

304 Uxbridge	Uxbridge	Blackstone Valley	Combined Total for All Districts
Prior Year Data (for comparison purposes)			
1 FY17 foundation enrollment	1,904	156	2,060
2 FY17 foundation budget	18,410,940	2,318,806	20,729,746
3 Each district's share of municipality's combined FY17 fo	88.81%	11.19%	100.00%
4 FY17 required contribution	10,786,060	1,358,474	12,144,534
FY18 apportionment of contribution among community	/'s districts		
5 FY18 total unapportioned required contribution ('municip	al contribution	sheet row 19 or 24)	12,294,628
6 FY18 foundation enrollment	1,869	140	2,009
7 FY18 foundation budget	18,384,408	2,108,932	20,493,340
8 Each district's share of municipality's total FY18 founda	89.71%	10.29%	100.00%
9 FY18 Required Contribution	11,029,410	1,265,218	12,294,628
10 Change FY18 to FY17 (9 - 4)	243,350	-93,256	150,094



# Once the city or town's required local contribution is calculated, it is allocated among the districts to which it belongs.

#### **Apportionment of Local Contribution Across School Districts**

32 Blackstone	Blackstone	Blackstone Millville	Blackstone Valley	Combined Total for All Districts
Prior Year Data (for comparison purposes)				
1 FY17 foundation enrollment	17	1,271	84	1,372
2 FY17 foundation budget	249,182	12,272,281	1,248,588	13,770,051
3 Each district's share of municipality's combined FY17 fo	1.81%	89.12%	9.07%	100.00%
4 FY17 required contribution	125,734	6,192,445	630,022	6,948,201
FY18 apportionment of contribution among community	y's districts			
5 FY18 total unapportioned required contribution ('municip	al contribution	sheet row 19	or 24)	6,932,418
6 FY18 foundation enrollment	20	1,301	76	1,397
7 FY18 foundation budget	293,243	12,891,339	1,144,849	14,329,431
8 Each district's share of municipality's total FY18 founda	2.05%	89.96%	7.99%	100.00%
9 FY18 Required Contribution	141,868	6,236,685	553,865	6,932,418
10 Change FY18 to FY17 (9 - 4)	16,134	44,240	-76,157	-15,783



# Once the city or town's required local contribution is calculated, it is allocated among the districts to which it belongs.

#### **Apportionment of Local Contribution Across School Districts**

188 Millville	Millville	Blackstone Millville	Blackstone Valley	Combined Total for All Districts
Prior Year Data (for comparison purposes)				
1 FY17 foundation enrollment	9	496	44	549
2 FY17 foundation budget	118,538	4,783,627	654,022	5,556,187
3 Each district's share of municipality's combined FY17 fo	2.13%	86.10%	11.77%	100.00%
4 FY17 required contribution	48,101	1,941,114	265,391	2,254,606
FY18 apportionment of contribution among community	's districts			
5 FY18 total unapportioned required contribution ('municipa	al contribution	sheet row 19	or 24)	2,328,106
6 FY18 foundation enrollment	7	482	41	530
7 FY18 foundation budget	93,674	4,769,893	617,616	5,481,183
8 Each district's share of municipality's total FY18 founda	1.71%	87.02%	11.27%	100.00%
9 FY18 Required Contribution	39,788	2,025,989	262,329	2,328,106
10 Change FY18 to FY17 (9 - 4)	-8,313	84,875	-3,062	73,500

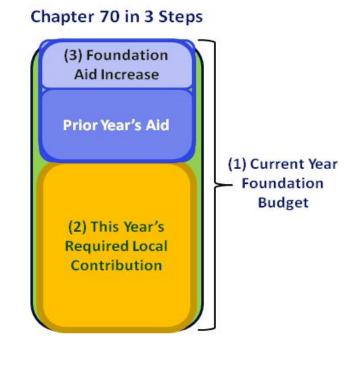
### Calculating Chapter 70 Aid

Foundation aid is the core of Chapter 70. It provides additional funding for districts to spend at their foundation budgets.

Foundation Budget – Required Local Contribution = Foundation Aid

- Start with prior year's aid
  - FY17 c70 (statewide: \$4.628B)
- Add together the prior year's aid and the required local contribution.
- If this year's foundation aid exceeds last year's total Chapter 70 aid, the district receives the amount needed to ensure it meets its foundation budget.

92 districts



### Calculating Chapter 70 Aid

- Districts are held harmless to the previous year's level of aid.
- In FY18, "minimum aid" is also available.
- District receives at least \$20 per pupil in additional aid over FY17 (237 operating districts).

#### 304 Uxbridge

#### Aid Calculation FY18

#### **Prior Year Aid**

1 Chapter 70 FY17	9,275,834
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#### **Foundation Aid**

2	Foundation budget FY18	18,384,408
3	Required district contribution FY18	11,029,410

4 Foundation aid (2 -3) 7,354,998

5 Increase over FY17 (4 - 1)

#### Minimum Aid

6 Minimum \$20 per pupil increase	37,380
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#### Non-Operating District Reduction to Foundation

7 Reduction to foundation 0

#### FY18 Chapter 70 Aid

9 sum of line 1, 5 minus 7 9,313,214



## Calculating Chapter 70 Aid

#### 622 Blackstone Millville

#### **Aid Calculation FY18**

#### **Prior Year Aid**

1 Chapter 70 FY17 10,826,779

#### **Foundation Aid**

2 Foundation budget FY18	17,661,231
3 Required district contribution FY18	8,262,674
4 Foundation aid (2 -3)	9,398,557
5 Increase over FY17 (4 - 1)	0

#### Minimum Aid

6 Minimum \$20 per pupil increase 35,660

#### Non-Operating District Reduction to Foundation

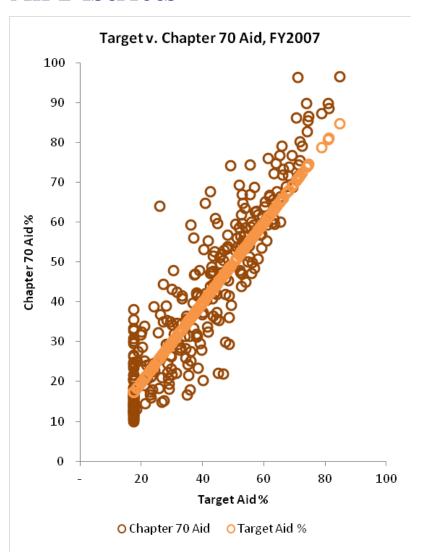
7 Reduction to foundation 0

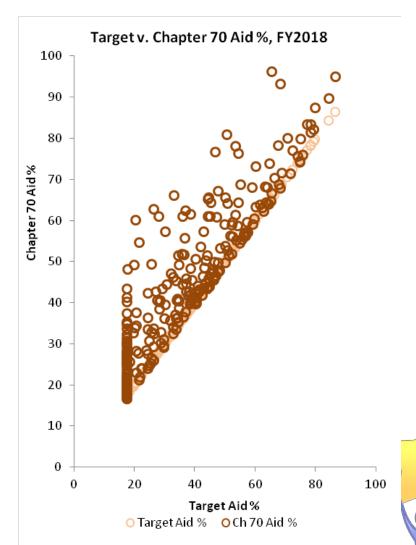
#### FY18 Chapter 70 Aid

9 sum of line 1, 5 minus 7 10,862,439



### Progress towards Target Aid Shares All Districts





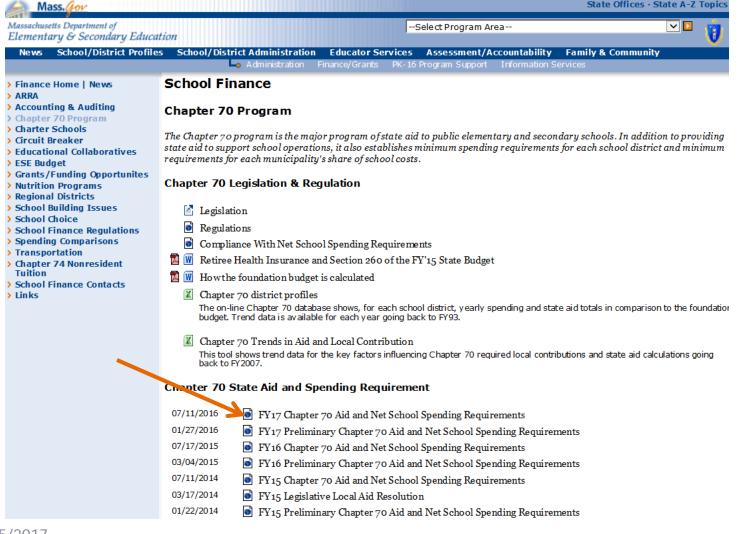
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## **Net School Spending**

- Net School Spending requirements continue to be enforced.
- FY 2016 Section 3 preamble "The department of elementary and secondary education shall not consider health care costs for retired teachers to be part of net school spending for any district in which such costs were not considered part of net school spending in fiscal year 1994, and in which such district has not accepted the provisions of Section 260 of Chapter 165 of the Acts of 2014."

### **Chapter 70 Website**

### http://www.doe.mass.edu/finance/chapter70/



### Chapter 70 Contact Info

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