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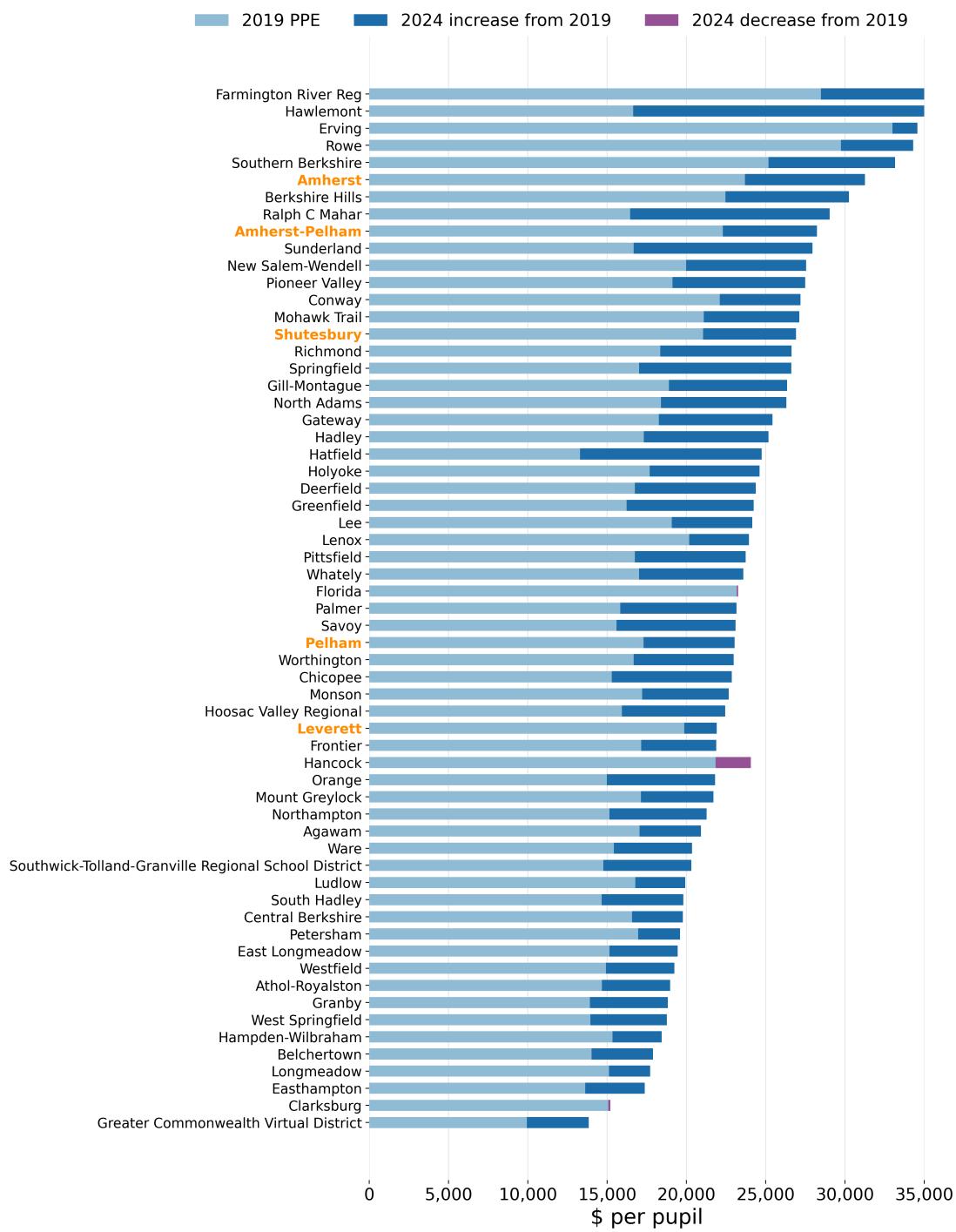
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# All Western MA Traditional Districts: PPE Overview 2019 -> 2024

Bars show 2019 PPE with darker segment to 2024 (purple = decrease).

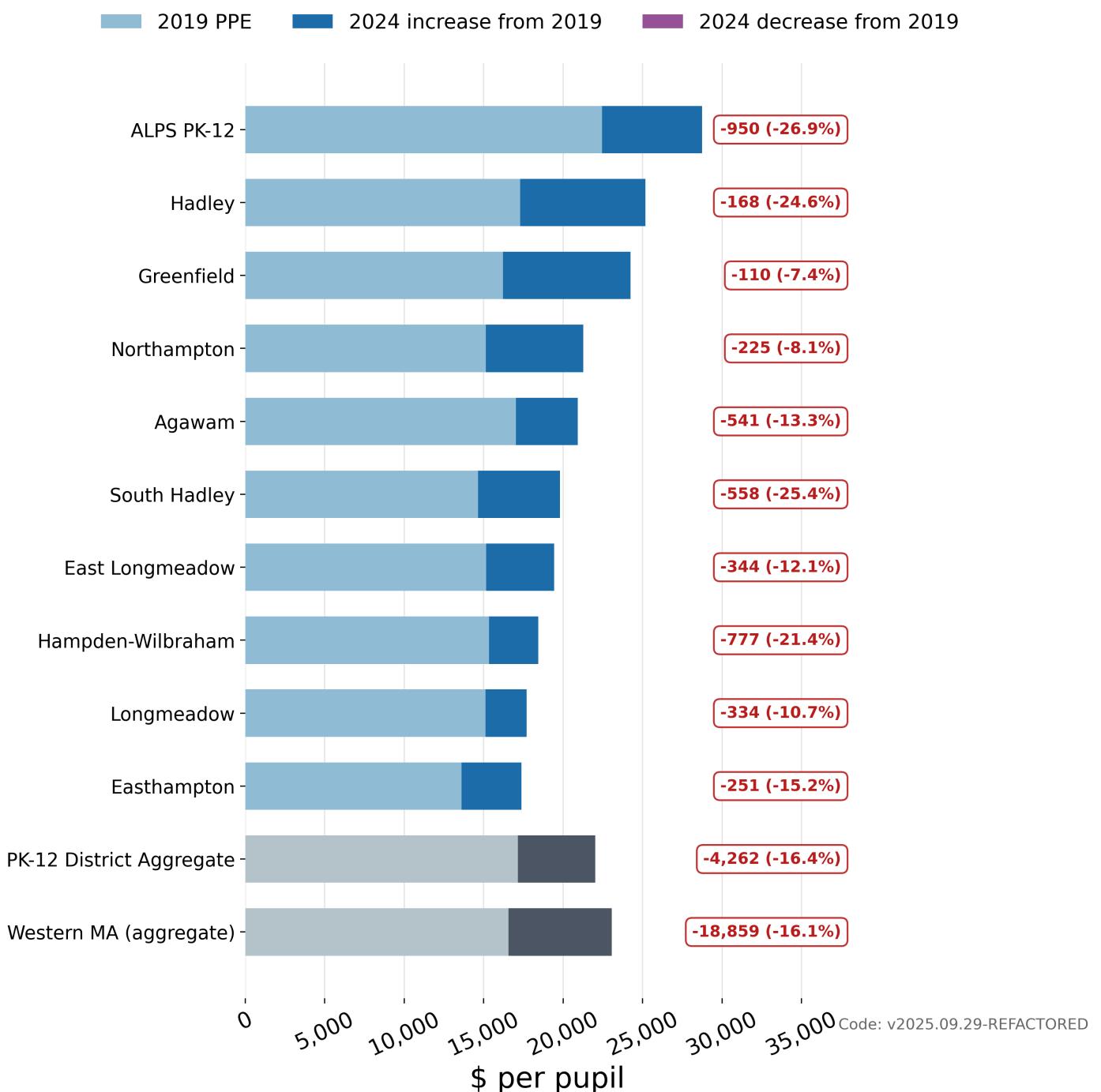


All Western MA Traditional Districts: Each bar represents one district's per-pupil expenditures (PPE). Districts are sorted by 2024 PPE (lowest to highest).

# ALPS PK-12 & Peers: PPE and Enrollment 2019 -> 2024

Bars show 2019 PPE with darker segment to 2024 (purple = decrease). Enrollment change shown to right of bars.

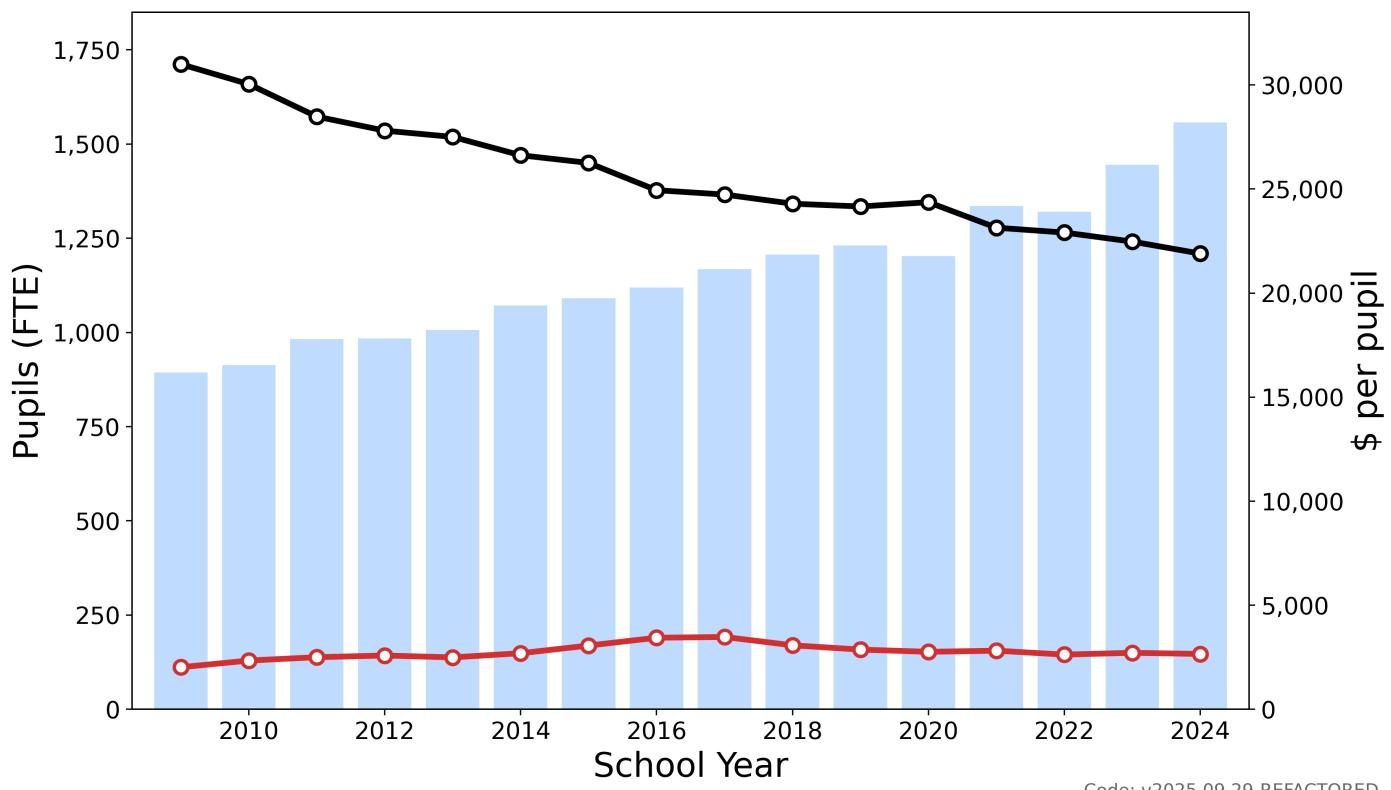
*Enrollment change 2019→2024 shown to right of bars (FTE count and %)*



ALPS Peers: Weighted aggregate of ALPS PK-12 and 9 comparison districts to benchmark against similar PK-12 systems in Western MA. Aggregate groups shown at bottom.

# Amherst-Pelham Regional: PPE vs Enrollment

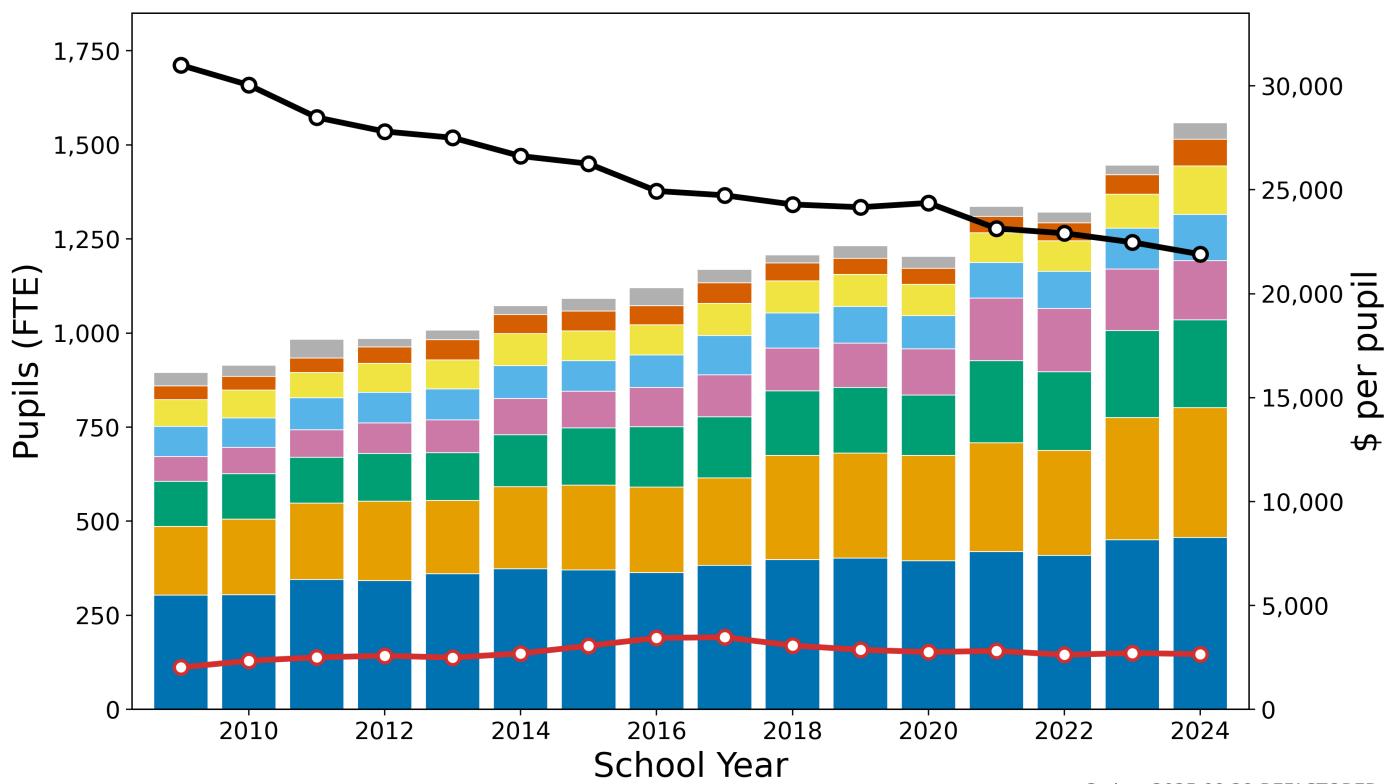
Total per-pupil expenditures; black/red lines show in-/out-of-district FTE trend.



Code: v2025.09.29-REFACTORED

# Amherst-Pelham Regional: PPE vs Enrollment (vs Western MA Districts)

Stacked per-pupil expenditures by category; black/red lines show in-/out-of-district FTE trend.



Code: v2025.09.29-REFACTORED

Category	2009 \$/pupil	CAGR 15y	CAGR 10y	CAGR 5y	2024 \$/pupil
Other	\$646	+1.4%	+6.5%	+5.5%	\$799
Administration	\$652	+4.6%	+3.5%	+11.0%	\$1,277
Instructional Leadership	\$1,289	+4.0%	+4.2%	+8.6%	\$2,336
Operations and Maintenance	\$1,459	+2.8%	+3.4%	+4.6%	\$2,221
Other Teaching Services	\$1,199	+5.9%	+5.1%	+6.1%	\$2,851
Pupil Services	\$2,170	+4.6%	+5.4%	+6.0%	\$4,231
Insurance, Retirement Programs and Other	\$3,305	+4.3%	+4.7%	+4.4%	\$6,248
Teachers	\$5,491	+2.8%	+2.0%	+2.6%	\$8,270
Total	\$16,211	+3.8%	+3.8%	+4.8%	\$28,233

Shading vs Western:  $|\Delta \$/\text{pupil}| \geq 2.0\% \text{ or } |\Delta \text{CAGR}| \geq 2.0\text{pp}$

> Western CAGR (>500)

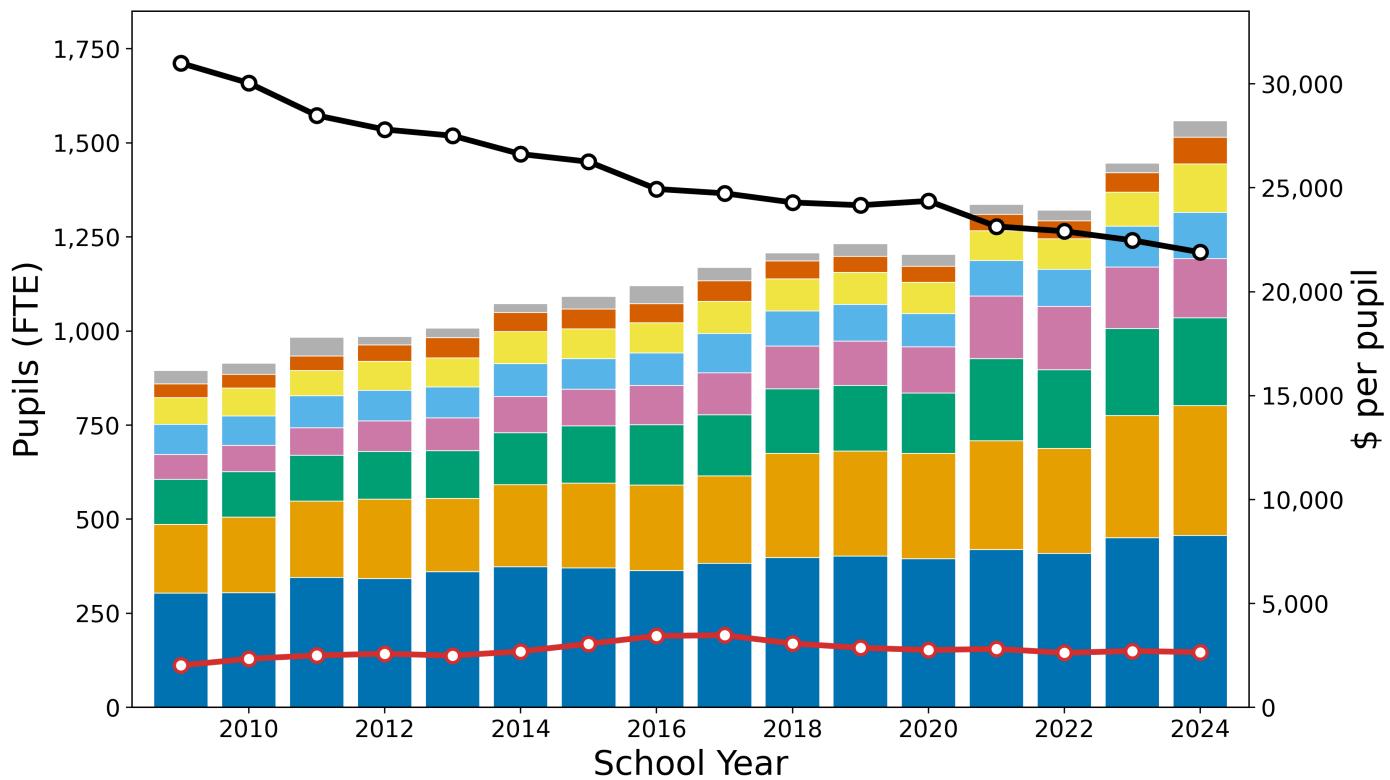
CAGR =  $(\text{End}/\text{Start})^{(1/\text{years})} - 1$

< Western CAGR (>500)

FTE Series	2019	CAGR 15y	CAGR 10y	CAGR 5y	2024
In-District FTE Pupils	1,334	-2.3%	-1.9%	-1.9%	1,209
Out-of-District FTE Pupils	158	+1.8%	-0.1%	-1.5%	147
Total FTE	1,493	-2.0%	-1.8%	-1.9%	1,356

# Amherst-Pelham Regional: PPE vs Enrollment (vs ALPS Peers)

Comparison to ALPS Peer Districts aggregate



Code: v2025.09.29-REFACTORED

Category	2009 \$/pupil	CAGR 15y	CAGR 10y	CAGR 5y	2024 \$/pupil
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> ALPS Peers CAGR

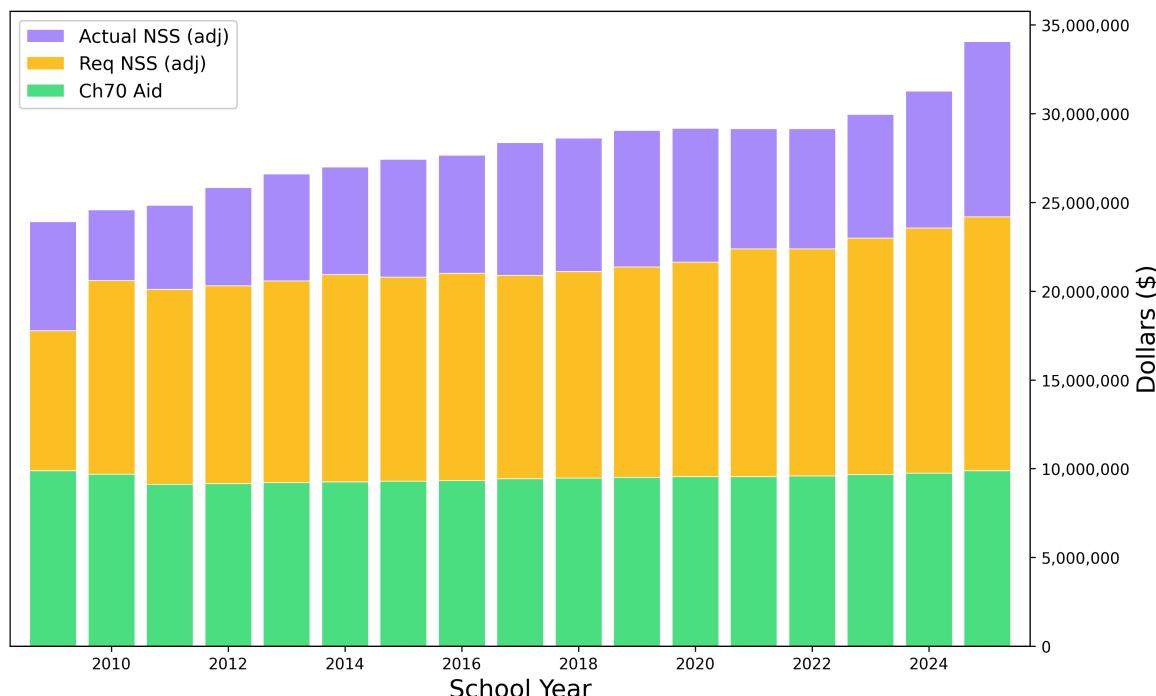
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# Amherst-Pelham Regional: Chapter 70 Aid and Net School Spending (vs Western MA)

Funding vs Western Traditional (>500)

## Amherst-Pelham: Chapter 70 Aid and Net School Spending



Component	2010 \$	CAGR 15y	CAGR 10y	CAGR 5y	2025 \$
Actual NSS (adj)	\$3,990,904	6.23%	4.05%	5.54%	\$9,877,749
Req NSS (adj)	\$10,908,954	1.82%	2.22%	3.43%	\$14,305,435
Ch70 Aid	\$9,685,959	0.14%	0.60%	0.67%	\$9,885,461
Total	\$24,585,817	2.20%	2.19%	3.14%	\$34,068,645

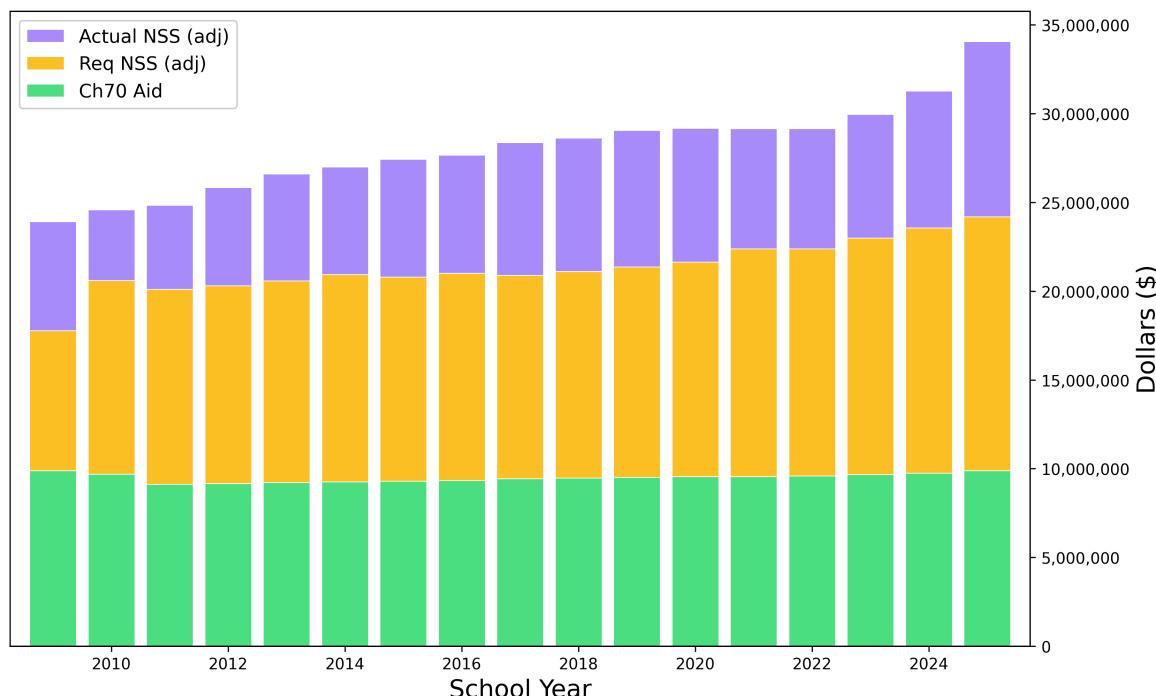
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CAGR =  $(\text{End}/\text{Start})^{(1/\text{years})} - 1$

# Amherst-Pelham Regional: Chapter 70 Aid and Net School Spending (vs ALPS Peers)

Funding vs ALPS Peer Districts

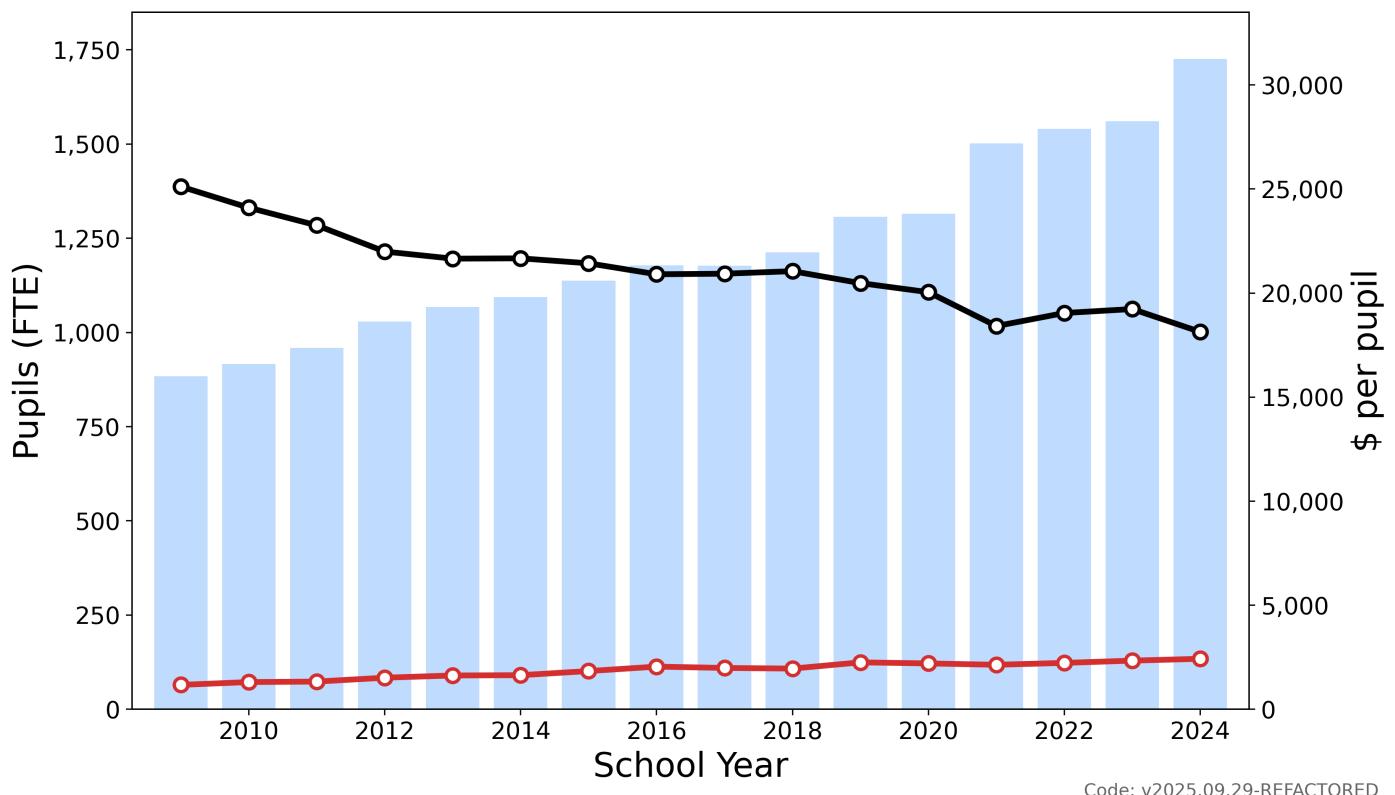
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# Amherst: PPE vs Enrollment

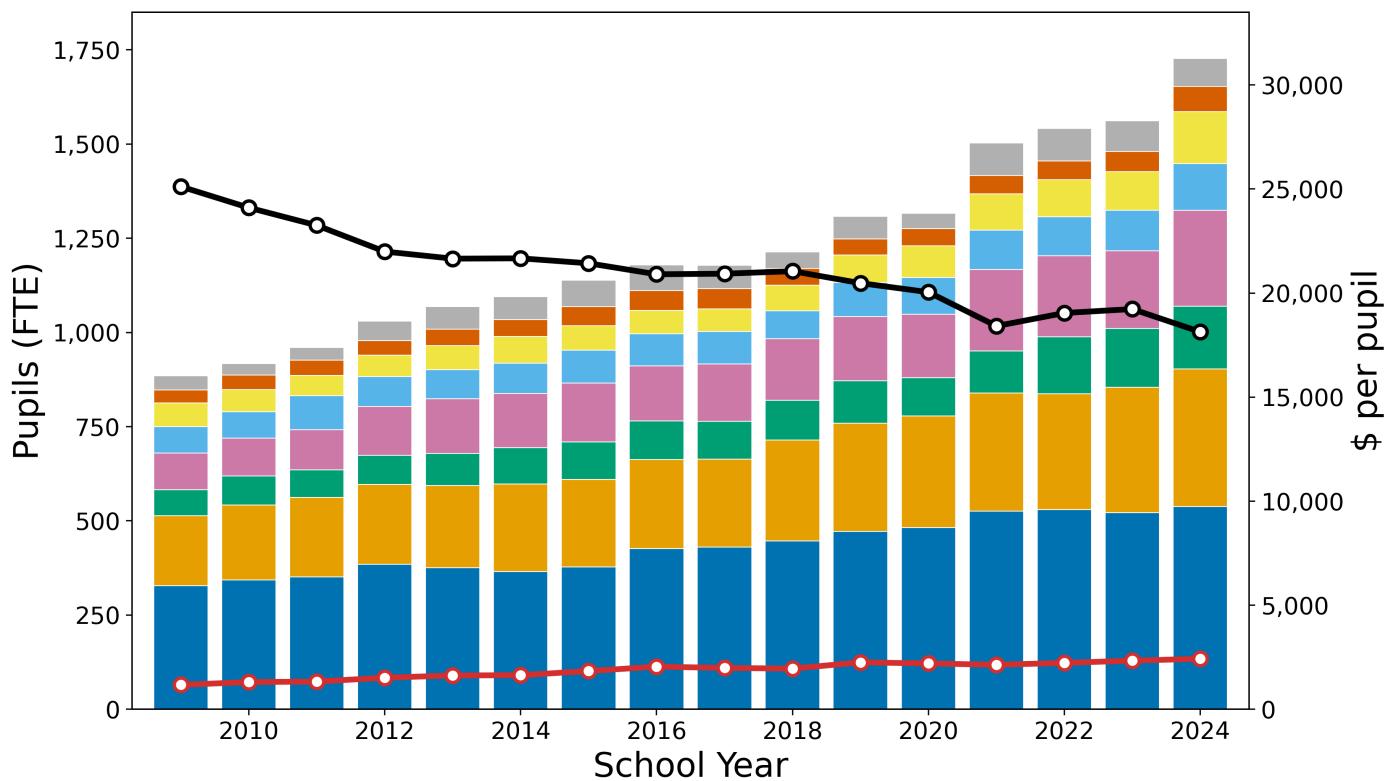
Total per-pupil expenditures; black/red lines show in-/out-of-district FTE trend.



Code: v2025.09.29-REFACTORED

# Amherst: PPE vs Enrollment (vs Western MA Districts)

Stacked per-pupil expenditures by category; black/red lines show in-/out-of-district FTE trend.



Code: v2025.09.29-REFACTORED

Category	2009 \$/pupil	CAGR 15y	CAGR 10y	CAGR 5y	2024 \$/pupil
Other	\$684	+4.5%	+1.9%	+4.0%	\$1,328
Administration	\$627	+4.5%	+4.1%	+9.6%	\$1,213
Instructional Leadership	\$1,134	+5.4%	+7.0%	+13.5%	\$2,498
Operations and Maintenance	\$1,264	+3.9%	+4.5%	+6.4%	\$2,248
Other Teaching Services	\$1,762	+6.6%	+5.9%	+8.4%	\$4,612
Pupil Services	\$1,261	+6.0%	+5.5%	+8.3%	\$3,018
Insurance, Retirement Programs and Other	\$3,353	+4.6%	+4.7%	+4.9%	\$6,605
Teachers	\$5,944	+3.4%	+3.9%	+2.7%	\$9,745
Total	\$16,029	+4.6%	+4.7%	+5.7%	\$31,267

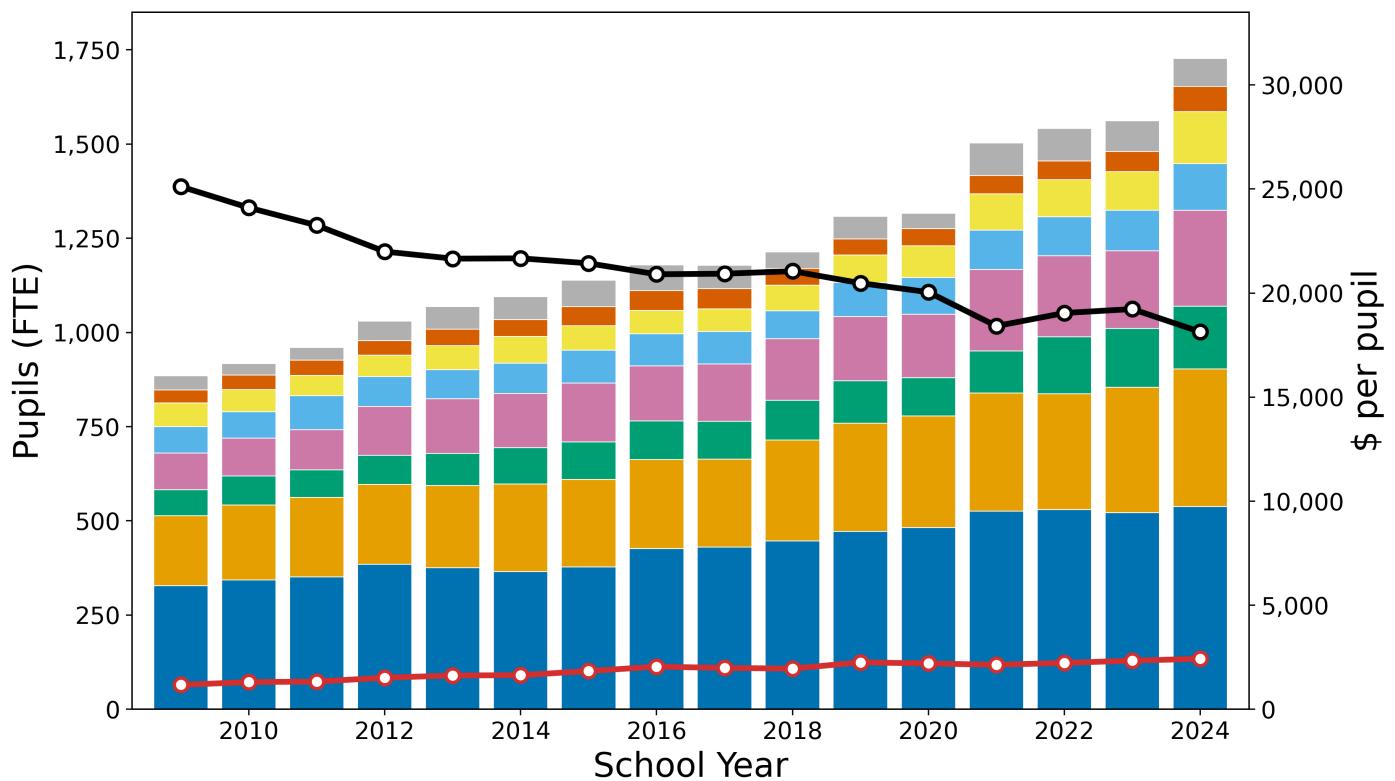
Shading vs Western:  $|\Delta \$/\text{pupil}| \geq 2.0\%$  or  $|\Delta \text{CAGR}| \geq 2.0\text{pp}$  > Western CAGR (>500)

CAGR =  $(\text{End}/\text{Start})^{(1/\text{years})} - 1$  < Western CAGR (>500)

FTE Series	2019	CAGR 15y	CAGR 10y	CAGR 5y	2024
In-District FTE Pupils	1,131	-2.1%	-1.8%	-2.4%	1,002
Out-of-District FTE Pupils	124	+5.0%	+4.0%	+1.5%	134
Total FTE	1,255	-1.6%	-1.2%	-2.0%	1,135

# Amherst: PPE vs Enrollment (vs ALPS Peers)

Comparison to ALPS Peer Districts aggregate



Code: v2025.09.29-REFACTORED

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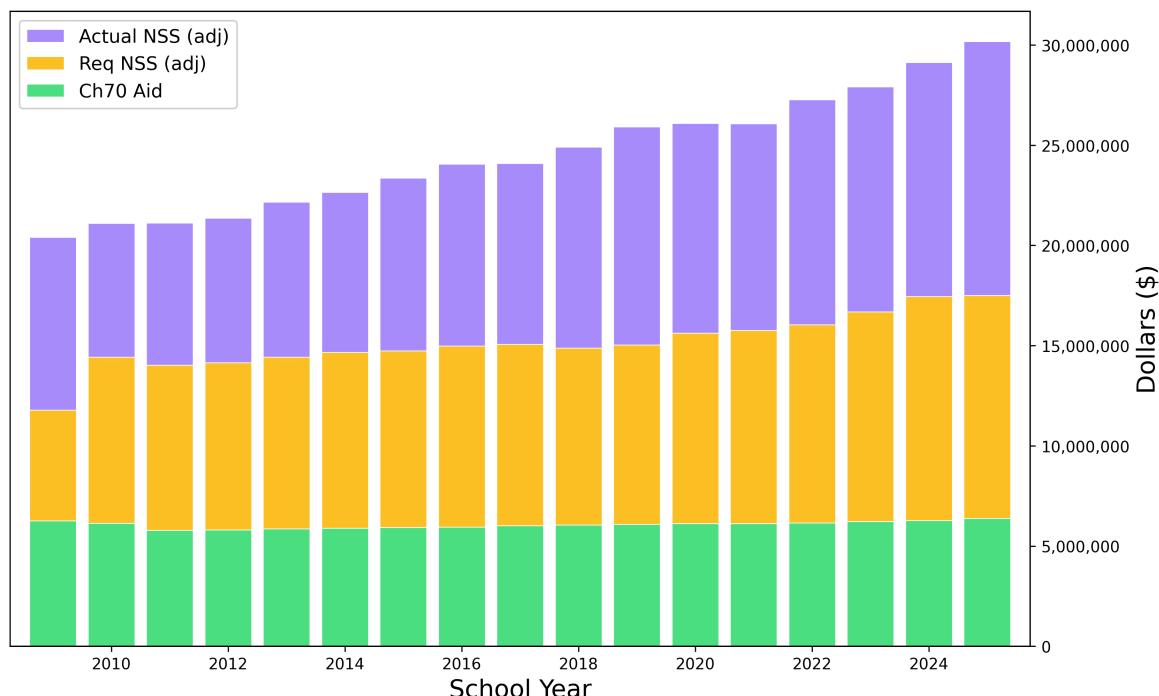
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Funding vs Western Traditional (>500)

## Amherst: Chapter 70 Aid and Net School Spending

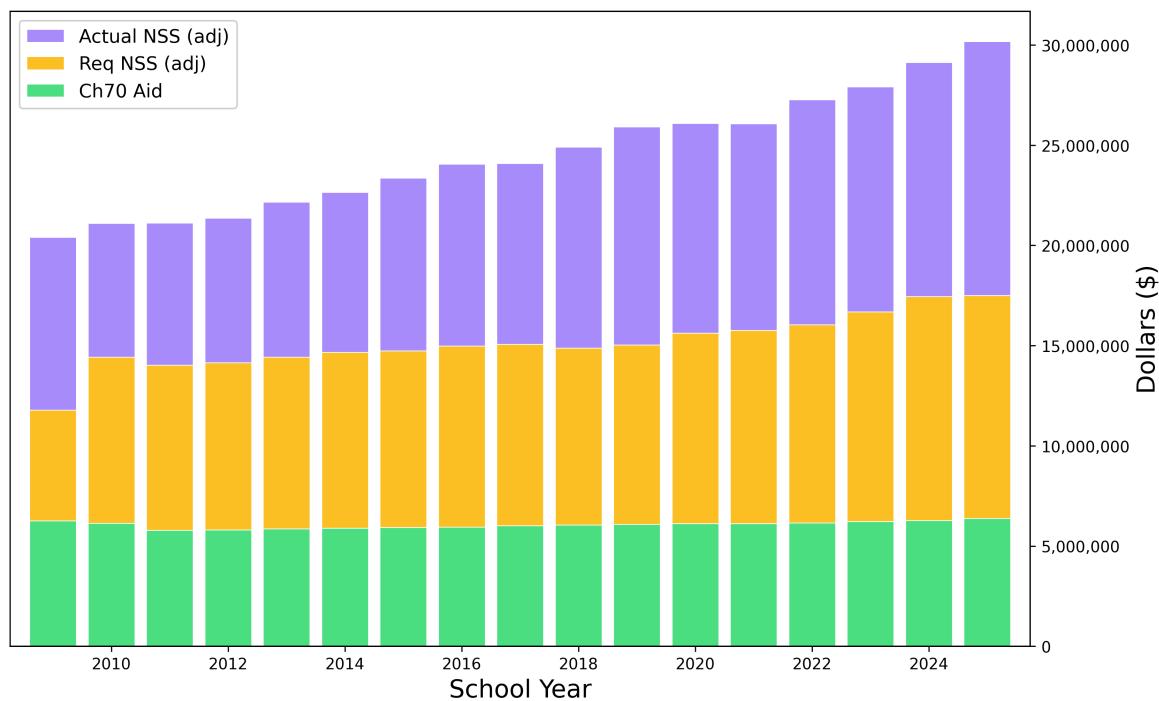


Component	2010 \$	CAGR 15y	CAGR 10y	CAGR 5y	2025 \$
Actual NSS (adj)	\$6,668,132	4.38%	3.93%	3.91%	\$12,678,894
Req NSS (adj)	\$8,287,309	1.98%	2.36%	3.18%	\$11,117,824
Ch70 Aid	\$6,141,373	0.26%	0.75%	0.84%	\$6,383,109
Total	\$21,096,814	2.42%	2.59%	2.95%	\$30,179,827
Shading vs Western: $ \Delta\$/\text{pupil}  \geq 2.0\%$ or $ \Delta\text{CAGR}  \geq 2.0\%$		> Western CAGR (>500)			
CAGR = $(\text{End}/\text{Start})^{(1/\text{years})} - 1$		< Western CAGR (>500)			

# Amherst: Chapter 70 Aid and Net School Spending (vs ALPS Peers)

Funding vs ALPS Peer Districts

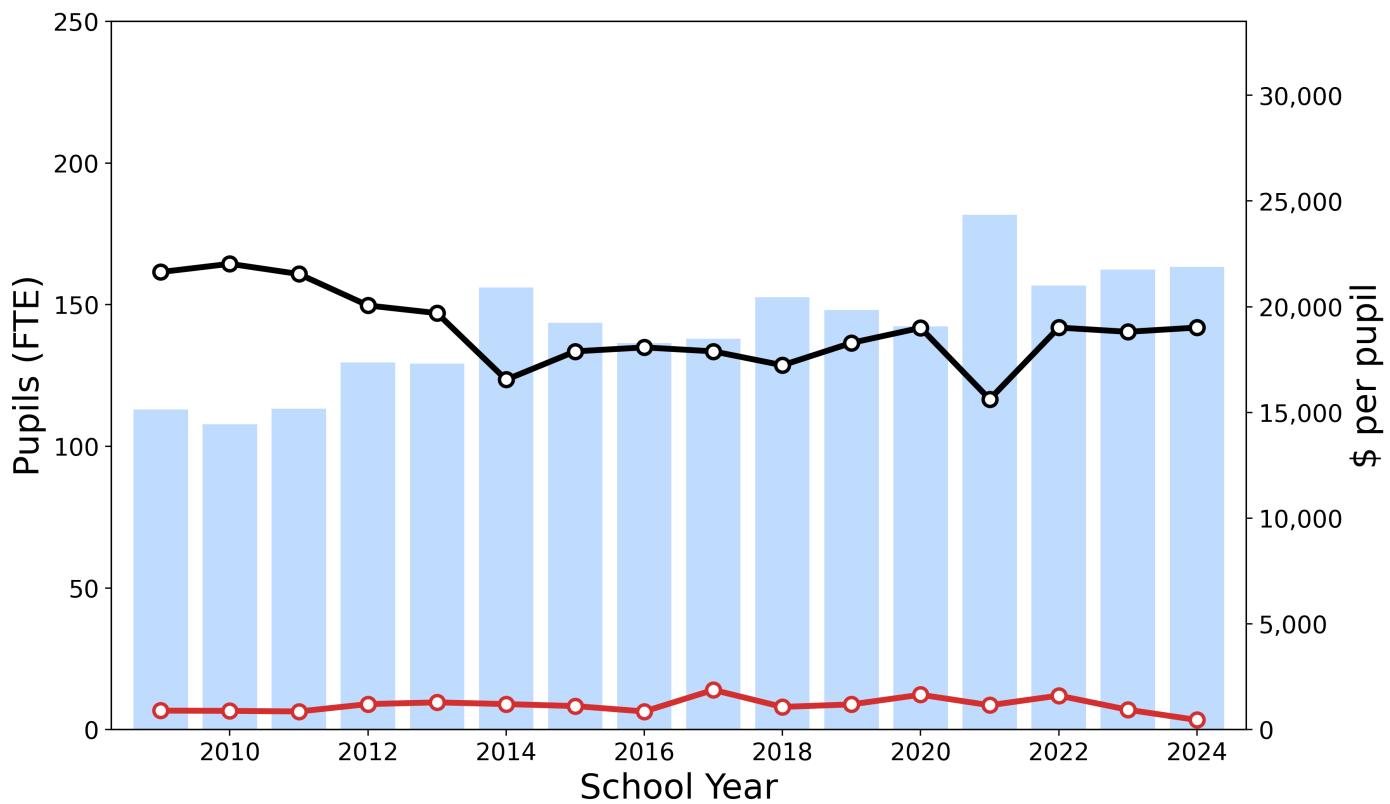
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CAGR = $(\text{End}/\text{Start})^{(1/\text{years})} - 1$			< ALPS Peers CAGR		

# Leverett: PPE vs Enrollment

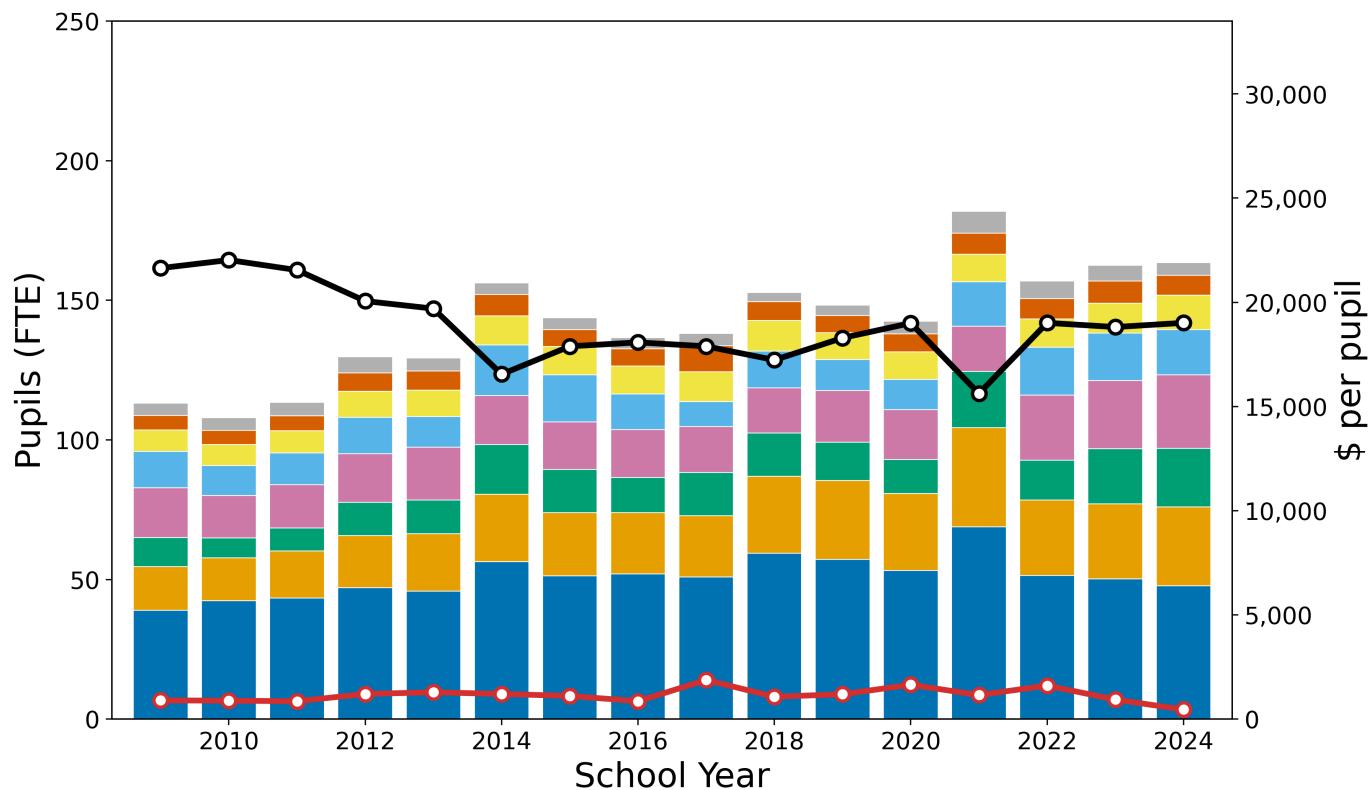
Total per-pupil expenditures; black/red lines show in-/out-of-district FTE trend.



Code: v2025.09.29-REFACTORED

# Leverett: PPE vs Enrollment (vs Western MA Districts)

Stacked per-pupil expenditures by category; black/red lines show in-/out-of-district FTE trend.



Code: v2025.09.29-REFACTORED

Category	2009 \$/pupil	CAGR 15y	CAGR 10y	CAGR 5y	2024 \$/pupil
Other	\$575	+0.4%	+0.9%	+3.9%	\$608
Administration	\$715	+1.9%	-0.8%	+2.9%	\$953
Instructional Leadership	\$1,015	+3.3%	+1.8%	+5.4%	\$1,663
Operations and Maintenance	\$1,755	+1.4%	-1.1%	+7.7%	\$2,158
Other Teaching Services	\$2,385	+2.6%	+4.1%	+7.3%	\$3,526
Pupil Services	\$1,395	+4.8%	+1.6%	+8.8%	\$2,814
Insurance, Retirement Programs and Other	\$2,098	+4.0%	+1.6%	+0.1%	\$3,793
Teachers	\$5,218	+1.4%	-1.6%	-3.6%	\$6,395
Total	\$15,156	+2.5%	+0.5%	+2.0%	\$21,910

Shading vs Western:  $|\Delta\$/\text{pupil}| \geq 2.0\%$  or  $|\Delta\text{CAGR}| \geq 2.0\text{pp}$

> Western CAGR ( $\leq 500$ )

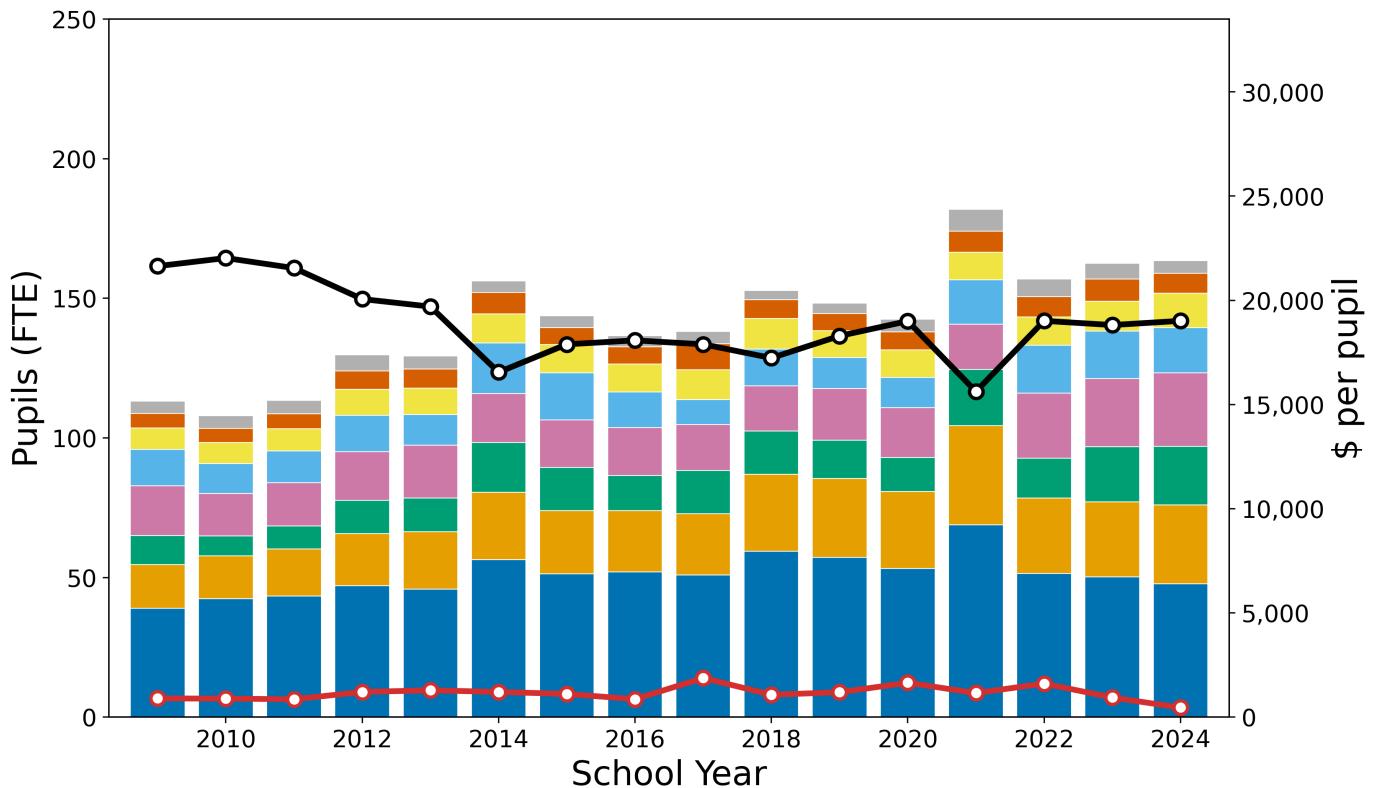
CAGR =  $(\text{End}/\text{Start})^{(1/\text{years})} - 1$

< Western CAGR ( $\leq 500$ )

FTE Series	2019	CAGR 15y	CAGR 10y	CAGR 5y	2024
In-District FTE Pupils	136	-0.9%	+1.4%	+0.8%	142
Out-of-District FTE Pupils	9	-4.4%	-9.3%	-17.5%	3
Total FTE	145	-1.0%	+0.9%	-0.0%	145

# Leverett: PPE vs Enrollment (vs ALPS Peers)

Comparison to ALPS Peer Districts aggregate



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> ALPS Peers CAGR

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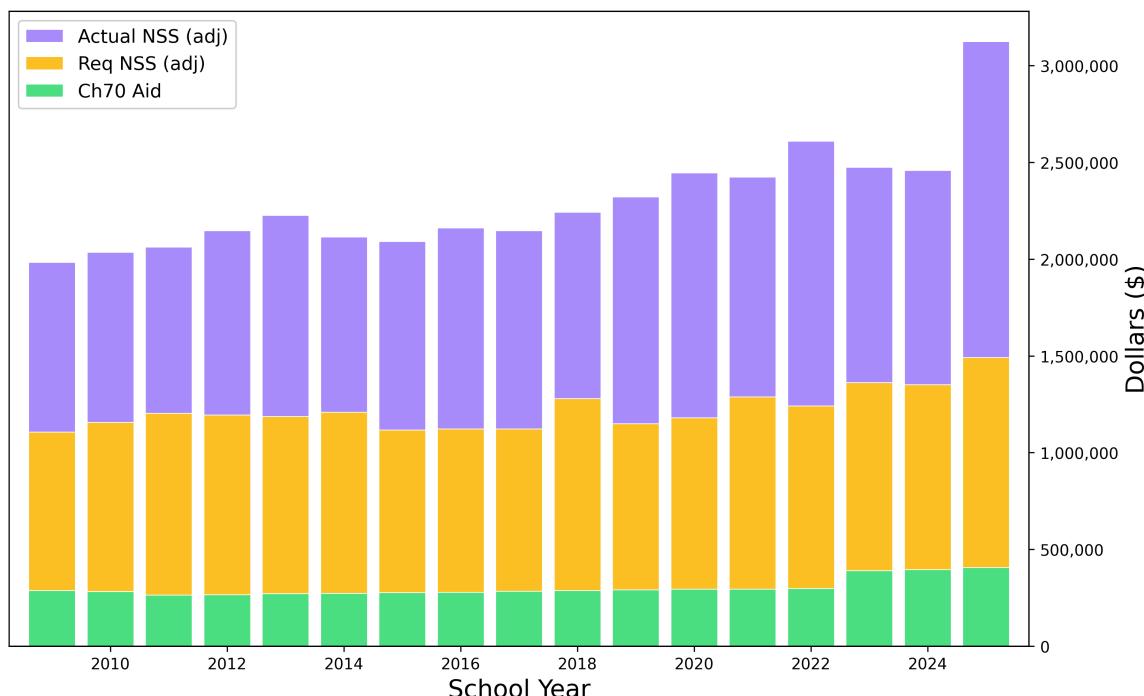
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# Leverett: Chapter 70 Aid and Net School Spending (vs Western MA)

Funding vs Western Traditional ( $\leq 500$ )

## Leverett: Chapter 70 Aid and Net School Spending



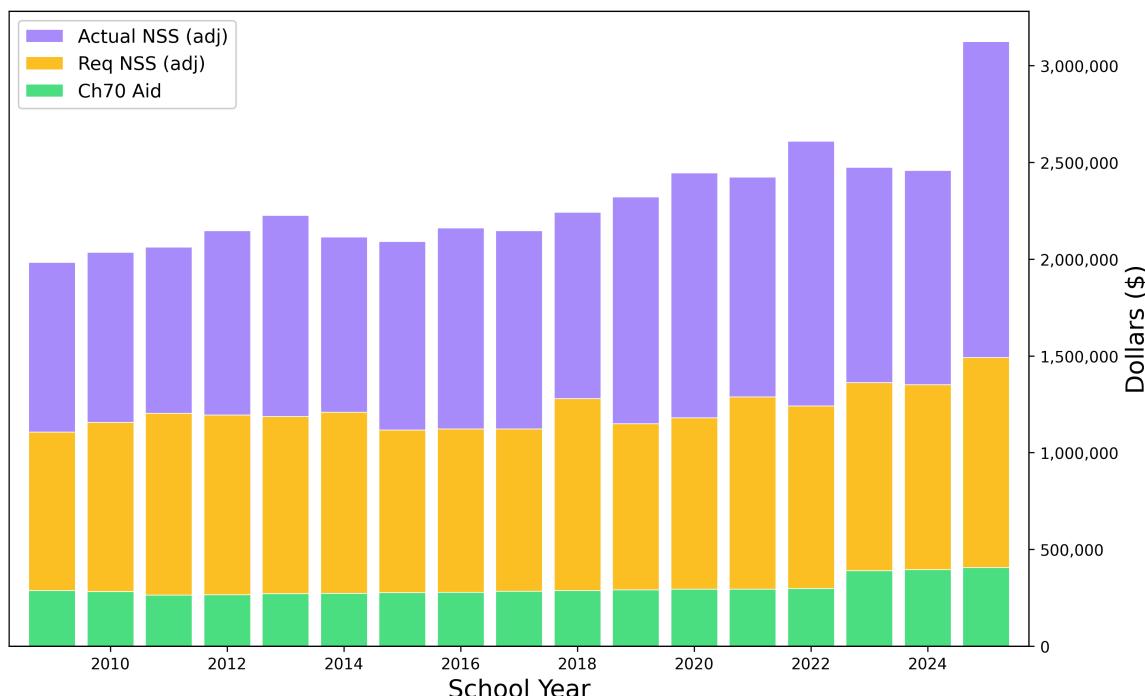
Code: v2025.10.02-NSS-CH70

Component	2010 \$	CAGR 15y	CAGR 10y	CAGR 5y	2025 \$
Actual NSS (adj)	\$877,836	4.22%	5.30%	5.24%	\$1,632,916
Req NSS (adj)	\$875,032	1.44%	2.57%	4.13%	\$1,083,930
Ch70 Aid	\$282,057	2.49%	3.94%	6.66%	\$407,888
Total	\$2,034,925	2.90%	4.09%	5.02%	\$3,124,734
Shading vs Western: $ \Delta\$/\text{pupil}  \geq 2.0\%$ or $ \Delta\text{CAGR}  \geq 2.0\%$					
> Western CAGR ( $\leq 500$ )					
CAGR = $(\text{End}/\text{Start})^{(1/\text{years})} - 1$					
< Western CAGR ( $\leq 500$ )					

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Funding vs ALPS Peer Districts

## Leverett: Chapter 70 Aid and Net School Spending

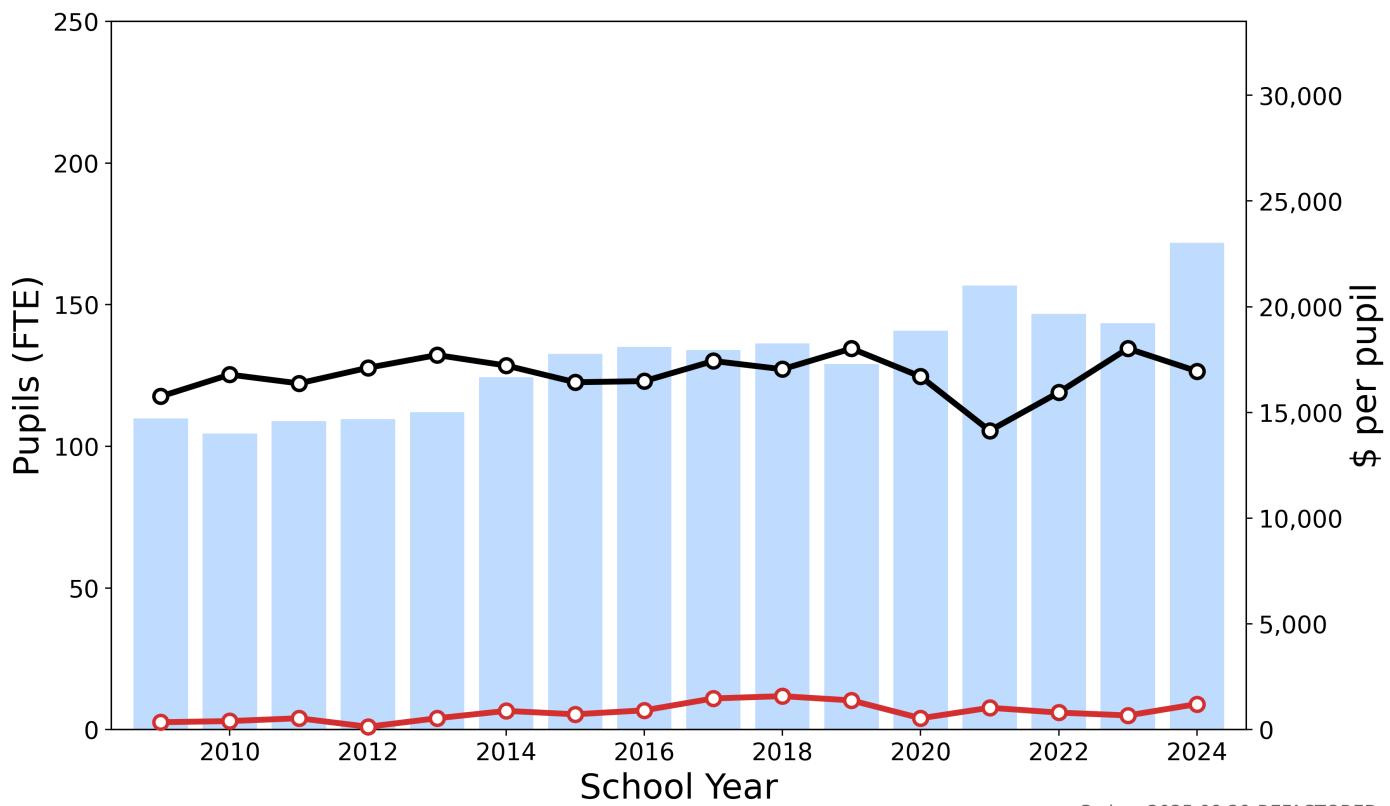


Code: v2025.10.02-NSS-CH70

Component	2010 \$	CAGR 15y	CAGR 10y	CAGR 5y	2025 \$
Actual NSS (adj)	\$877,836	4.22%	5.30%	5.24%	\$1,632,916
Req NSS (adj)	\$875,032	1.44%	2.57%	4.13%	\$1,083,930
Ch70 Aid	\$282,057	2.49%	3.94%	6.66%	\$407,888
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> ALPS Peers CAGR					
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# Pelham: PPE vs Enrollment

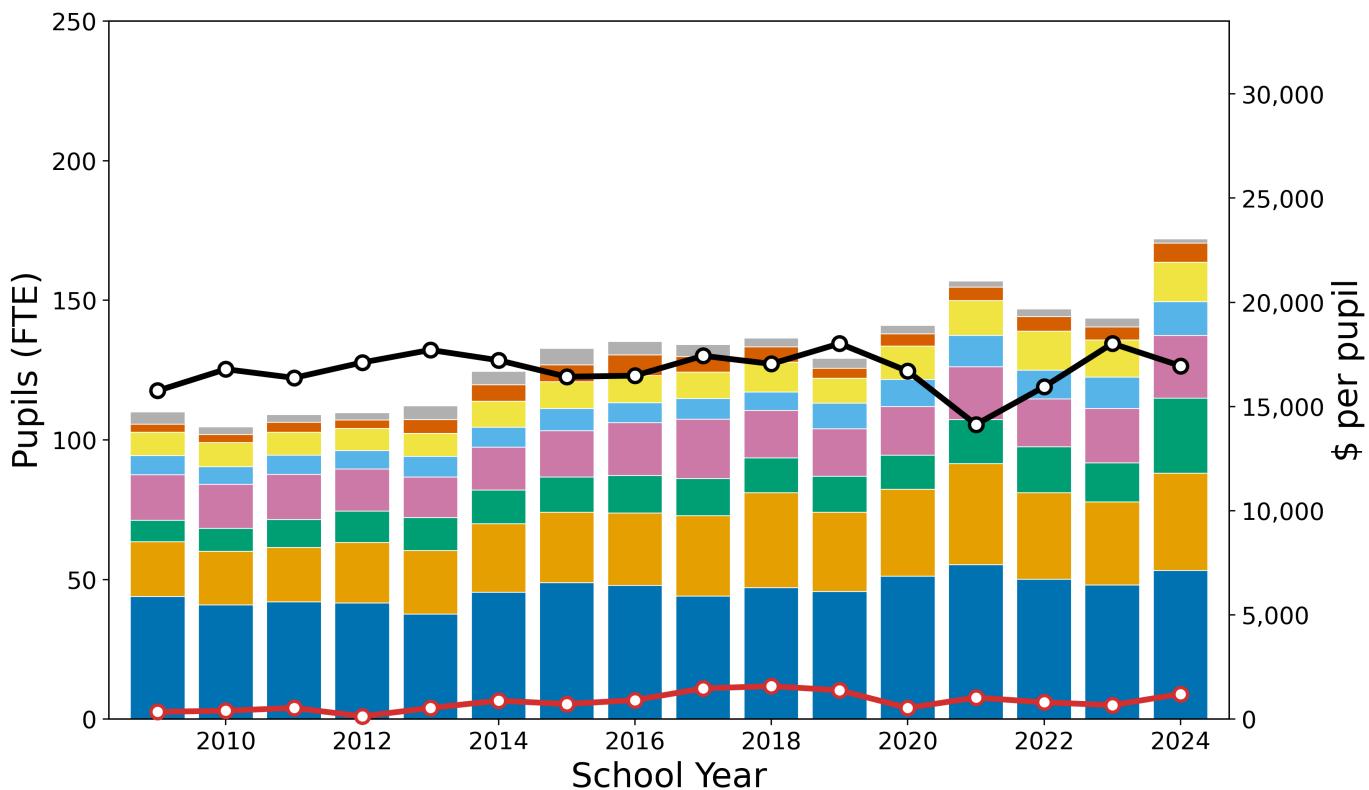
Total per-pupil expenditures; black/red lines show in-/out-of-district FTE trend.



Code: v2025.09.29-REFACTORED

# Pelham: PPE vs Enrollment (vs Western MA Districts)

Stacked per-pupil expenditures by category; black/red lines show in-/out-of-district FTE trend.



Code: v2025.09.29-REFACTORED

Category	2009 \$/pupil	CAGR 15y	CAGR 10y	CAGR 5y	2024 \$/pupil
Other	\$580	-6.6%	-10.7%	-15.0%	\$207
Administration	\$390	+5.9%	+1.4%	+13.4%	\$917
Instructional Leadership	\$1,123	+3.5%	+4.2%	+9.6%	\$1,885
Operations and Maintenance	\$920	+3.8%	+5.5%	+5.6%	\$1,614
Other Teaching Services	\$2,184	+2.2%	+3.9%	+5.8%	\$3,010
Pupil Services	\$1,032	+8.7%	+8.4%	+15.8%	\$3,610
Insurance, Retirement Programs and Other	\$2,615	+3.9%	+3.6%	+4.3%	\$4,670
Teachers	\$5,889	+1.3%	+1.6%	+3.1%	\$7,127
Total	\$14,733	+3.0%	+3.3%	+5.9%	\$23,040

Shading vs Western:  $|\Delta\$/\text{pupil}| \geq 2.0\%$  or  $|\Delta\text{CAGR}| \geq 2.0\text{pp}$

> Western CAGR ( $\leq 500$ )

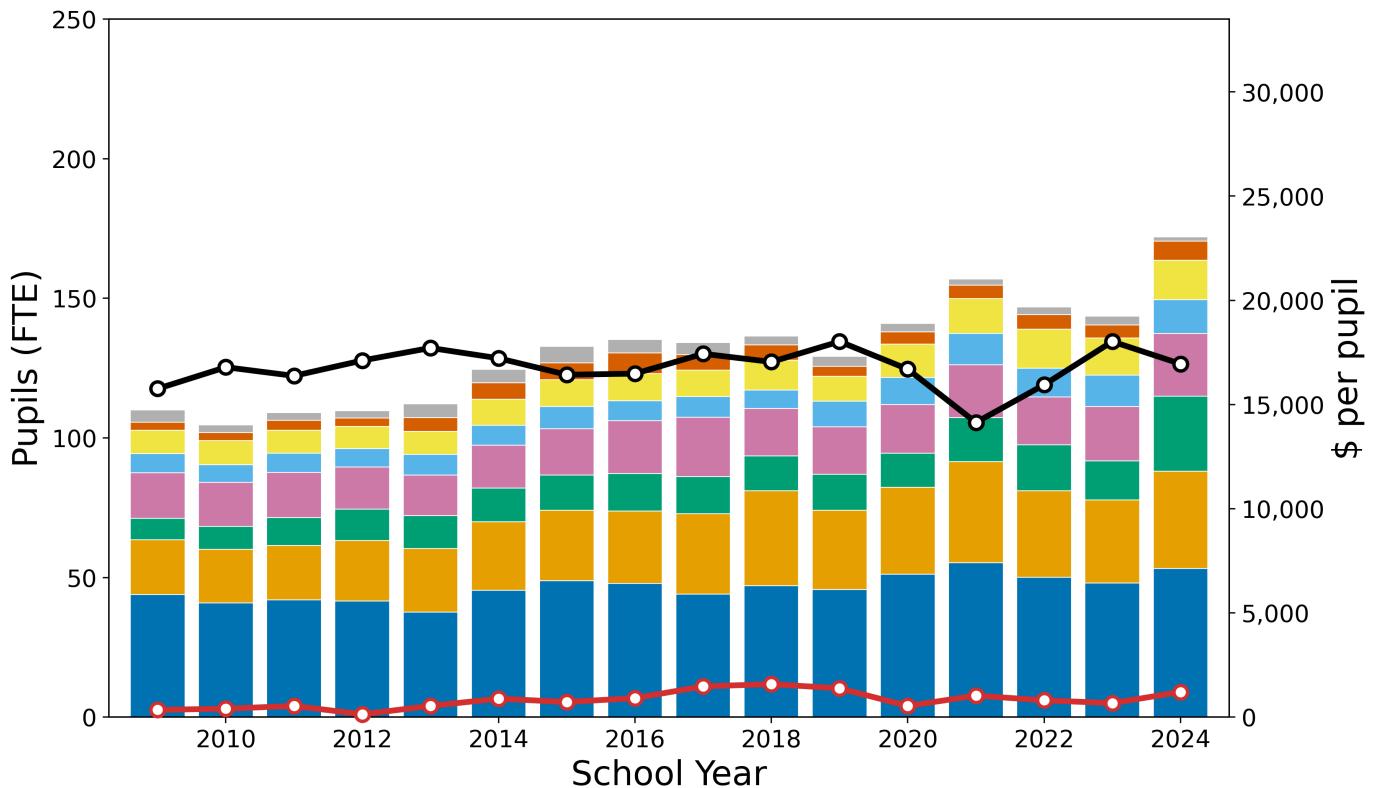
CAGR =  $(\text{End}/\text{Start})^{(1/\text{years})} - 1$

< Western CAGR ( $\leq 500$ )

FTE Series	2019	CAGR 15y	CAGR 10y	CAGR 5y	2024
In-District FTE Pupils	134	+0.5%	-0.2%	-1.2%	126
Out-of-District FTE Pupils	10	+8.6%	+3.2%	-2.7%	9
Total FTE	145	+0.8%	+0.0%	-1.3%	136

# Pelham: PPE vs Enrollment (vs ALPS Peers)

Comparison to ALPS Peer Districts aggregate



Code: v2025.09.29-REFACTORED

Category	2009 \$/pupil	CAGR 15y	CAGR 10y	CAGR 5y	2024 \$/pupil
Other	\$580	-6.6%	-10.7%	-15.0%	\$207
Administration	\$390	+5.9%	+1.4%	+13.4%	\$917
Instructional Leadership	\$1,123	+3.5%	+4.2%	+9.6%	\$1,885
Operations and Maintenance	\$920	+3.8%	+5.5%	+5.6%	\$1,614
Other Teaching Services	\$2,184	+2.2%	+3.9%	+5.8%	\$3,010
Pupil Services	\$1,032	+8.7%	+8.4%	+15.8%	\$3,610
Insurance, Retirement Programs and Other	\$2,615	+3.9%	+3.6%	+4.3%	\$4,670
Teachers	\$5,889	+1.3%	+1.6%	+3.1%	\$7,127
Total	\$14,733	+3.0%	+3.3%	+5.9%	\$23,040

Shading vs ALPS Peers:  $|\Delta\$/\text{pupil}| \geq 2.0\%$  or  $|\Delta\text{CAGR}| \geq 2.0\text{pp}$

> ALPS Peers CAGR

CAGR =  $(\text{End}/\text{Start})^{(1/\text{years})} - 1$

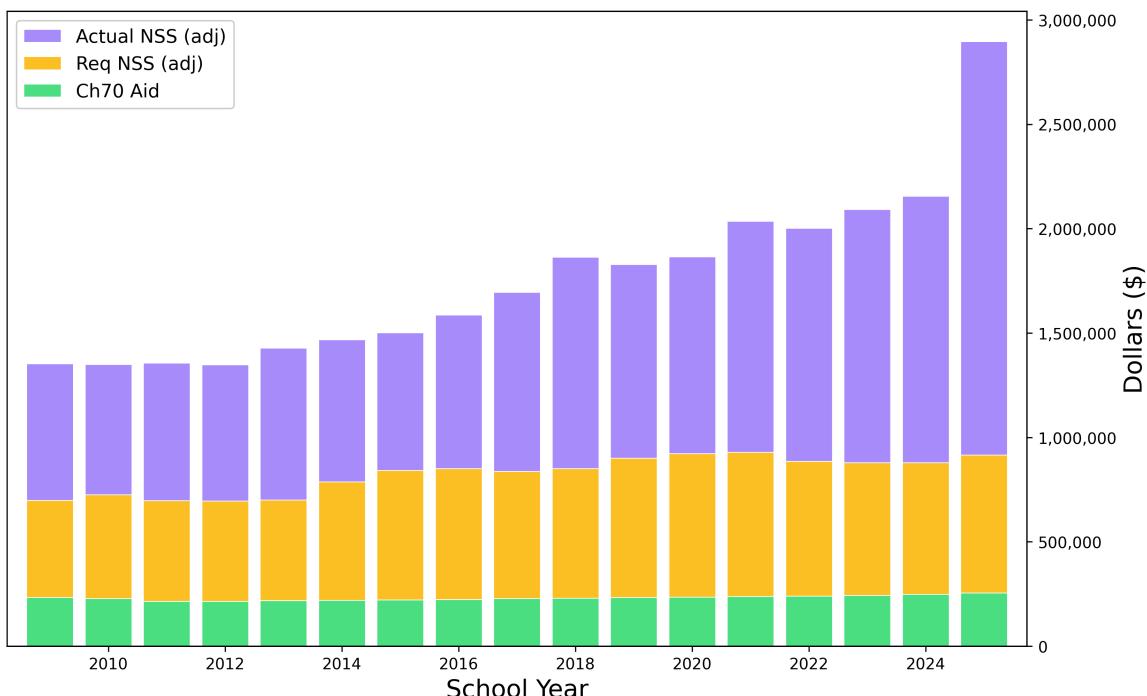
< ALPS Peers CAGR

FTE Series	2019	CAGR 15y	CAGR 10y	CAGR 5y	2024
In-District FTE Pupils	134	+0.5%	-0.2%	-1.2%	126
Out-of-District FTE Pupils	10	+8.6%	+3.2%	-2.7%	9
Total FTE	145	+0.8%	+0.0%	-1.3%	136

# Pelham: Chapter 70 Aid and Net School Spending (vs Western MA)

Funding vs Western Traditional ( $\leq 500$ )

## Pelham: Chapter 70 Aid and Net School Spending



Code: v2025.10.02-NSS-CH70

Component	2010 \$	CAGR 15y	CAGR 10y	CAGR 5y	2025 \$
Actual NSS (adj)	\$625,523	7.99%	11.62%	16.02%	\$1,980,185
Req NSS (adj)	\$496,664	1.93%	0.65%	-0.76%	\$661,794
Ch70 Aid	\$228,505	0.73%	1.38%	1.59%	\$254,815
Total	\$1,350,692	5.22%	6.79%	9.21%	\$2,896,794

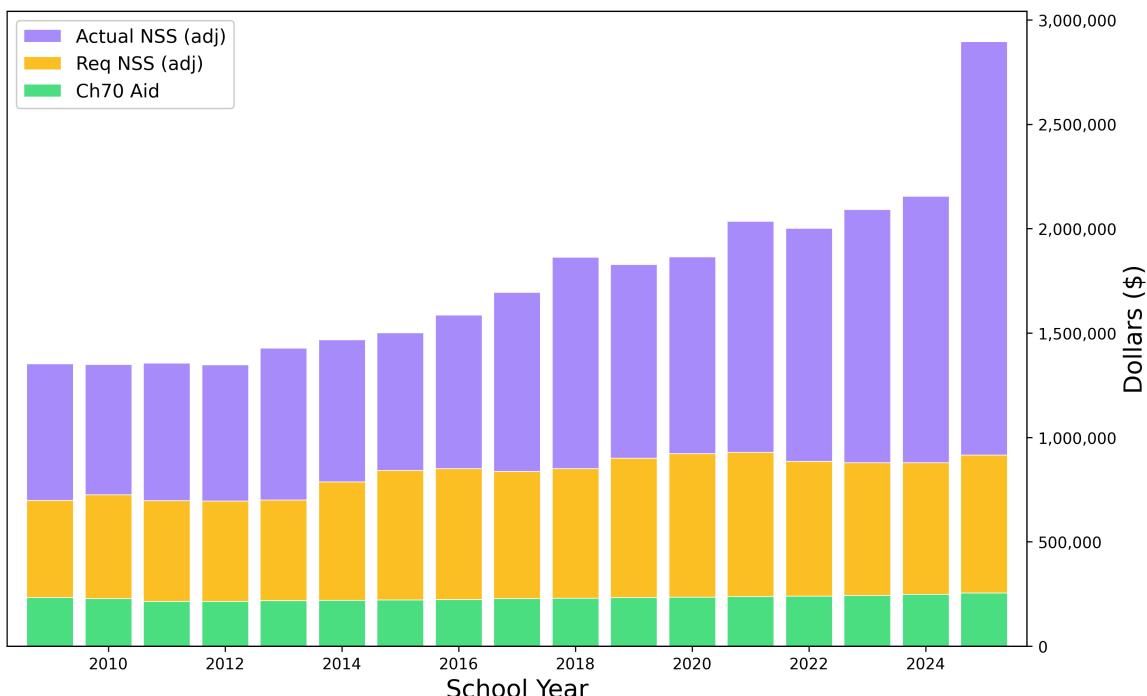
Shading vs Western:  $|\Delta \$/\text{pupil}| \geq 2.0\%$  or  $|\Delta \text{CAGR}| \geq 2.0\%$

CAGR =  $(\text{End}/\text{Start})^{(1/\text{years})} - 1$

# Pelham: Chapter 70 Aid and Net School Spending (vs ALPS Peers)

Funding vs ALPS Peer Districts

## Pelham: Chapter 70 Aid and Net School Spending

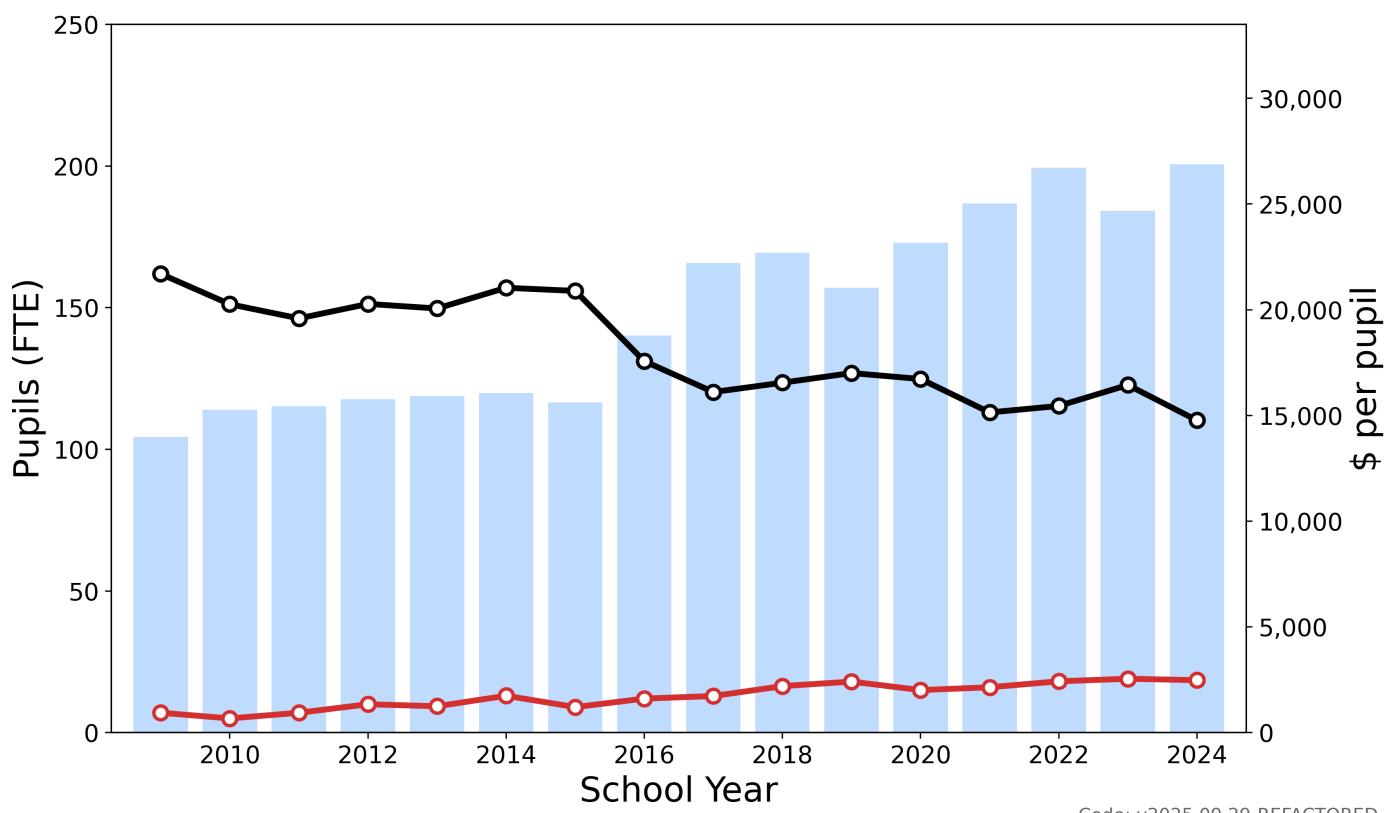


Shading vs ALPS Peers:  $|\Delta\$/\text{pupil}| \geq 2.0\%$  or  $|\Delta\text{CAGR}| \geq 2.0\%$

CAGR =  $(\text{End}/\text{Start})^{(1/\text{years})} - 1$

# Shutesbury: PPE vs Enrollment

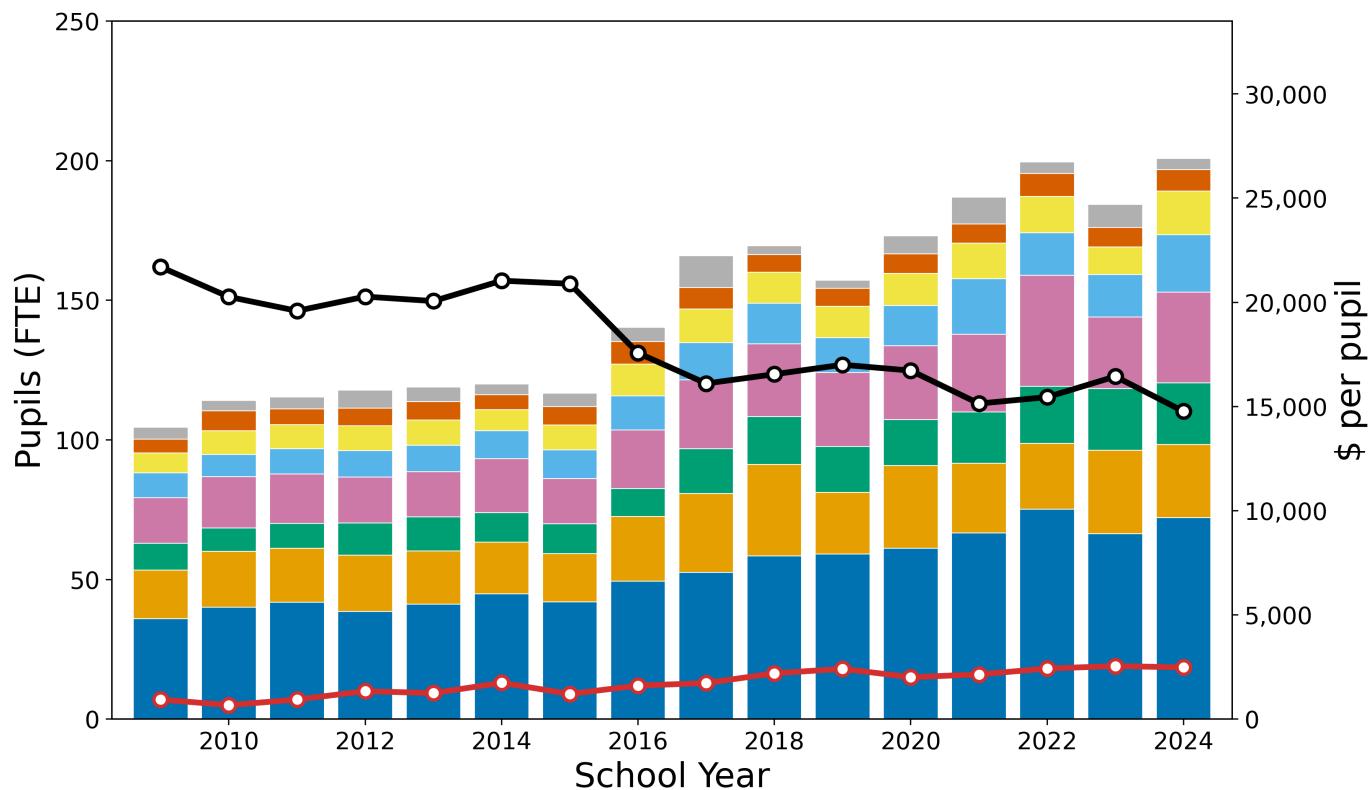
Total per-pupil expenditures; black/red lines show in-/out-of-district FTE trend.



Code: v2025.09.29-REFACTORED

# Shutesbury: PPE vs Enrollment (vs Western MA Districts)

Stacked per-pupil expenditures by category; black/red lines show in-/out-of-district FTE trend.



Code: v2025.09.29-REFACTORED

Category	2009 \$/pupil	CAGR 15y	CAGR 10y	CAGR 5y	2024 \$/pupil
Other	\$580	-0.4%	+0.6%	+7.2%	\$545
Administration	\$652	+3.0%	+3.4%	+3.5%	\$1,015
Instructional Leadership	\$969	+5.3%	+7.7%	+6.8%	\$2,103
Operations and Maintenance	\$1,180	+5.8%	+7.5%	+10.6%	\$2,754
Other Teaching Services	\$2,185	+4.7%	+5.3%	+4.2%	\$4,359
Pupil Services	\$1,292	+5.7%	+7.6%	+6.1%	\$2,962
Insurance, Retirement Programs and Other	\$2,332	+2.7%	+3.5%	+3.3%	\$3,501
Teachers	\$4,821	+4.7%	+4.9%	+4.1%	\$9,669
Total	\$14,011	+4.4%	+5.3%	+5.0%	\$26,908

Shading vs Western:  $|\Delta \$/\text{pupil}| \geq 2.0\%$  or  $|\Delta \text{CAGR}| \geq 2.0\text{pp}$

> Western CAGR ( $\leq 500$ )

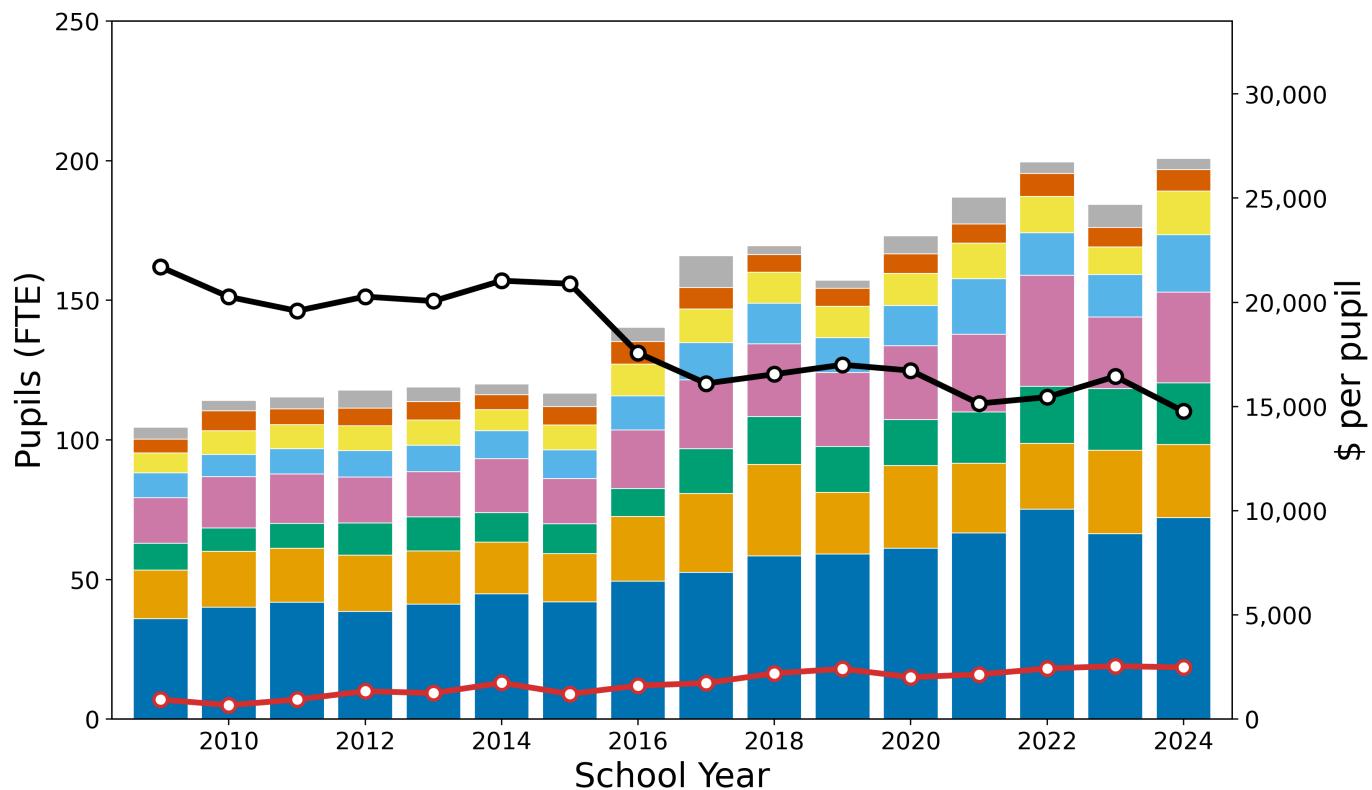
CAGR =  $(\text{End}/\text{Start})^{(1/\text{years})} - 1$

< Western CAGR ( $\leq 500$ )

FTE Series	2019	CAGR 15y	CAGR 10y	CAGR 5y	2024
In-District FTE Pupils	127	-2.5%	-3.5%	-2.8%	110
Out-of-District FTE Pupils	18	+6.7%	+3.6%	+0.5%	18
Total FTE	145	-1.8%	-2.7%	-2.3%	129

# Shutesbury: PPE vs Enrollment (vs ALPS Peers)

Comparison to ALPS Peer Districts aggregate



Code: v2025.09.29-REFACTORED

Category	2009 \$/pupil	CAGR 15y	CAGR 10y	CAGR 5y	2024 \$/pupil
Other	\$580	-0.4%	+0.6%	+7.2%	\$545
Administration	\$652	+3.0%	+3.4%	+3.5%	\$1,015
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Teachers	\$4,821	+4.7%	+4.9%	+4.1%	\$9,669
Total	\$14,011	+4.4%	+5.3%	+5.0%	\$26,908

Shading vs ALPS Peers:  $|\Delta \$/\text{pupil}| \geq 2.0\%$  or  $|\Delta \text{CAGR}| \geq 2.0\text{pp}$

> ALPS Peers CAGR

CAGR =  $(\text{End}/\text{Start})^{(1/\text{years})} - 1$

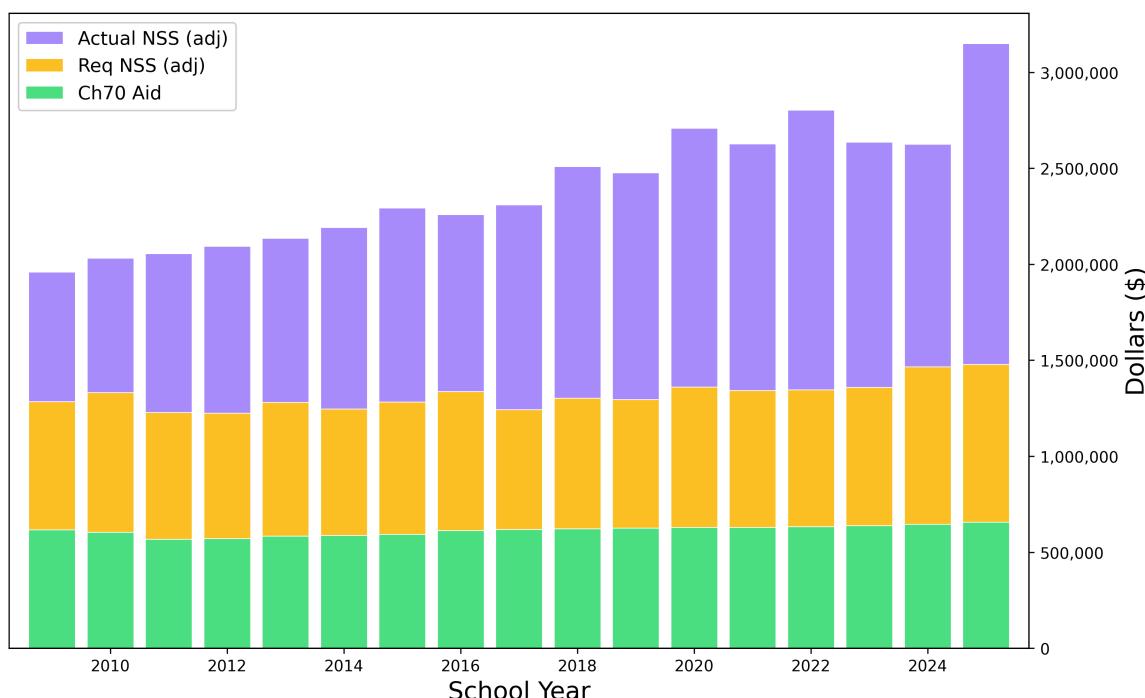
< ALPS Peers CAGR

FTE Series	2019	CAGR 15y	CAGR 10y	CAGR 5y	2024
In-District FTE Pupils	127	-2.5%	-3.5%	-2.8%	110
Out-of-District FTE Pupils	18	+6.7%	+3.6%	+0.5%	18
Total FTE	145	-1.8%	-2.7%	-2.3%	129

# Shutesbury: Chapter 70 Aid and Net School Spending (vs Western MA)

Funding vs Western Traditional ( $\leq 500$ )

## Shutesbury: Chapter 70 Aid and Net School Spending



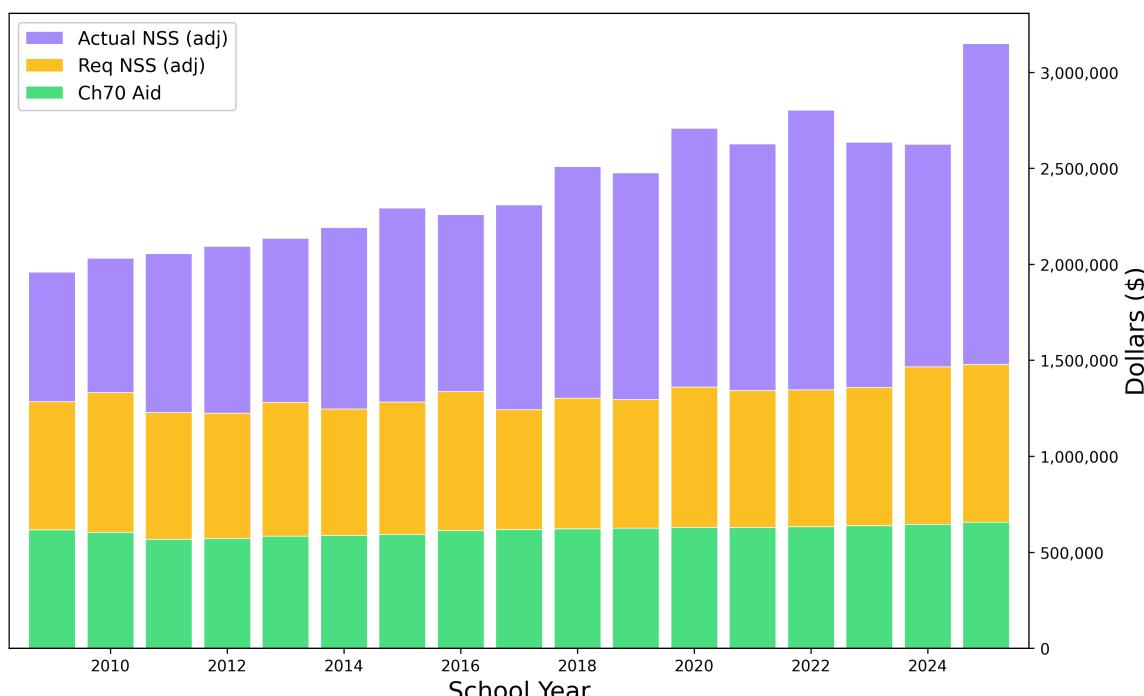
Shading vs Western:  $|\Delta\$/\text{pupil}| \geq 2.0\%$  or  
 $|\Delta\text{CAGR}| \geq 2.0\%$

CAGR =  $(\text{End}/\text{Start})^{(1/\text{years})} - 1$

# Shutesbury: Chapter 70 Aid and Net School Spending (vs ALPS Peers)

Funding vs ALPS Peer Districts

## Shutesbury: Chapter 70 Aid and Net School Spending

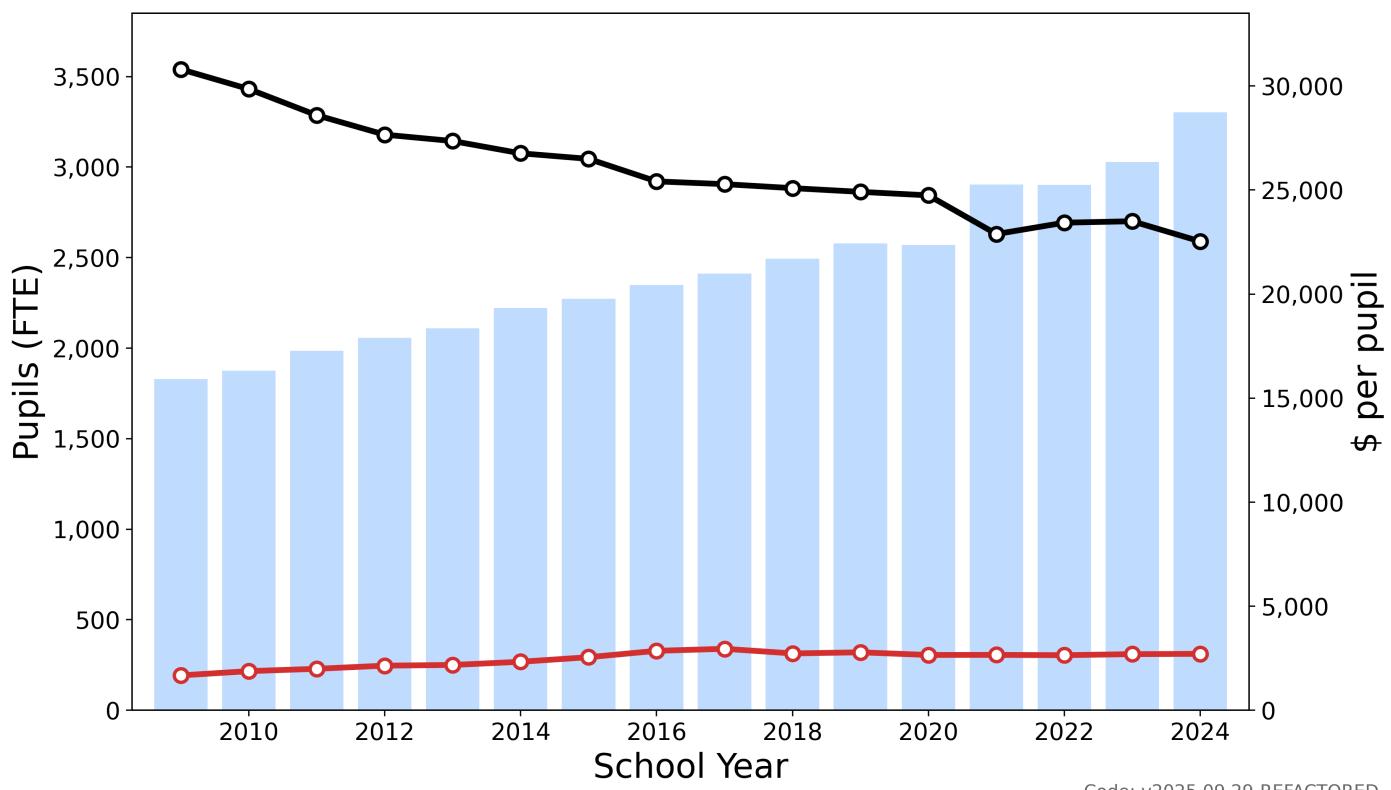


Code: v2025.10.02-NSS-CH70

Component	2010 \$	CAGR 15y	CAGR 10y	CAGR 5y	2025 \$
Actual NSS (adj)	\$699,974	5.98%	5.16%	4.39%	\$1,671,970
Req NSS (adj)	\$728,091	0.81%	1.78%	2.40%	\$822,355
Ch70 Aid	\$604,124	0.55%	1.01%	0.81%	\$656,282
<b>Total</b>	<b>\$2,032,189</b>	<b>2.97%</b>	<b>3.22%</b>	<b>3.06%</b>	<b>\$3,150,607</b>
Shading vs ALPS Peers: $ \Delta\$/\text{pupil}  \geq 2.0\%$ or $ \Delta\text{CAGR}  \geq 2.0\text{pp}$					
CAGR = $(\text{End}/\text{Start})^{(1/\text{years})} - 1$					
> ALPS Peers CAGR					
< ALPS Peers CAGR					

# ALPS PK-12: PPE vs Enrollment

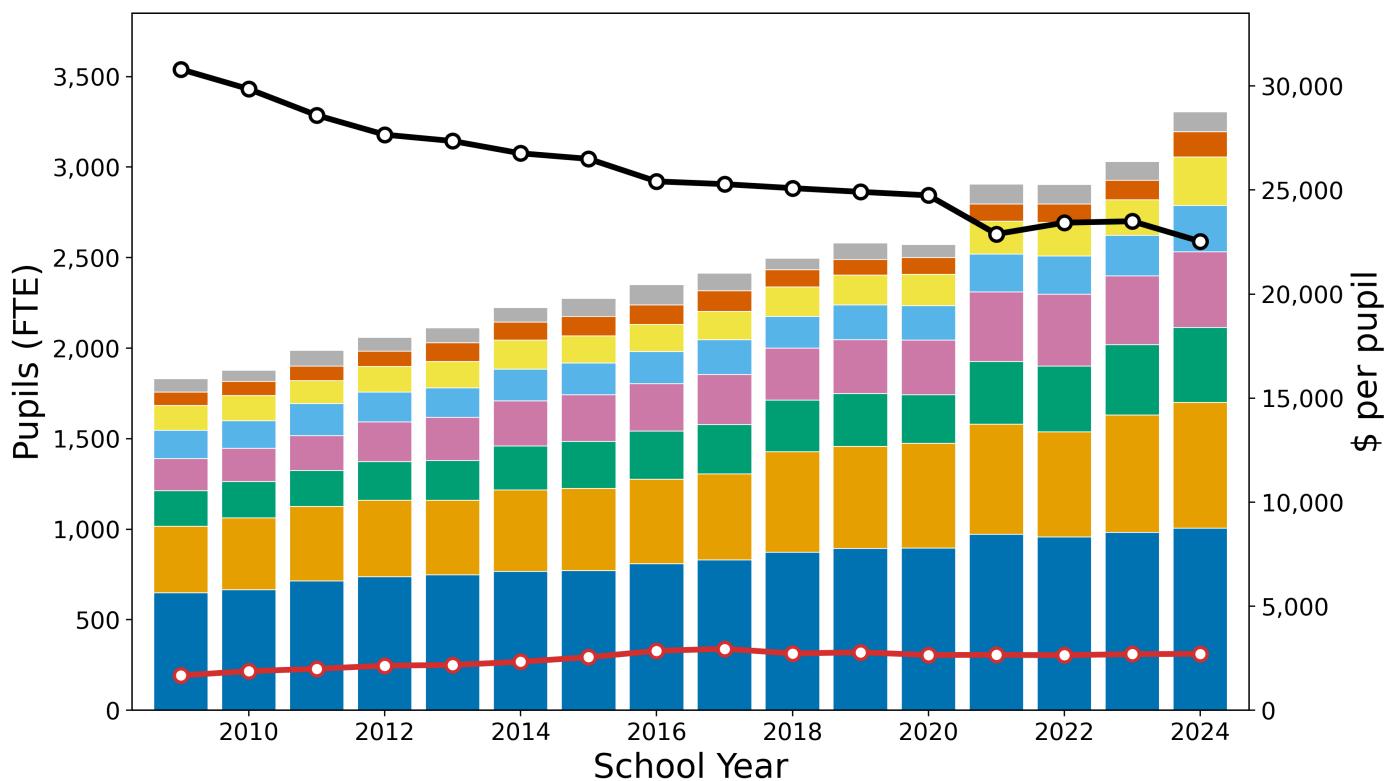
Total per-pupil expenditures; black/red lines show in-/out-of-district FTE trend (ALPS uses its own FTE scale).



Code: v2025.09.29-REFACTORED

# ALPS PK-12: PPE vs Enrollment (vs Western MA Districts)

Stacked per-pupil expenditures by category; black/red lines show in-/out-of-district FTE trend (ALPS uses its own FTE scale).



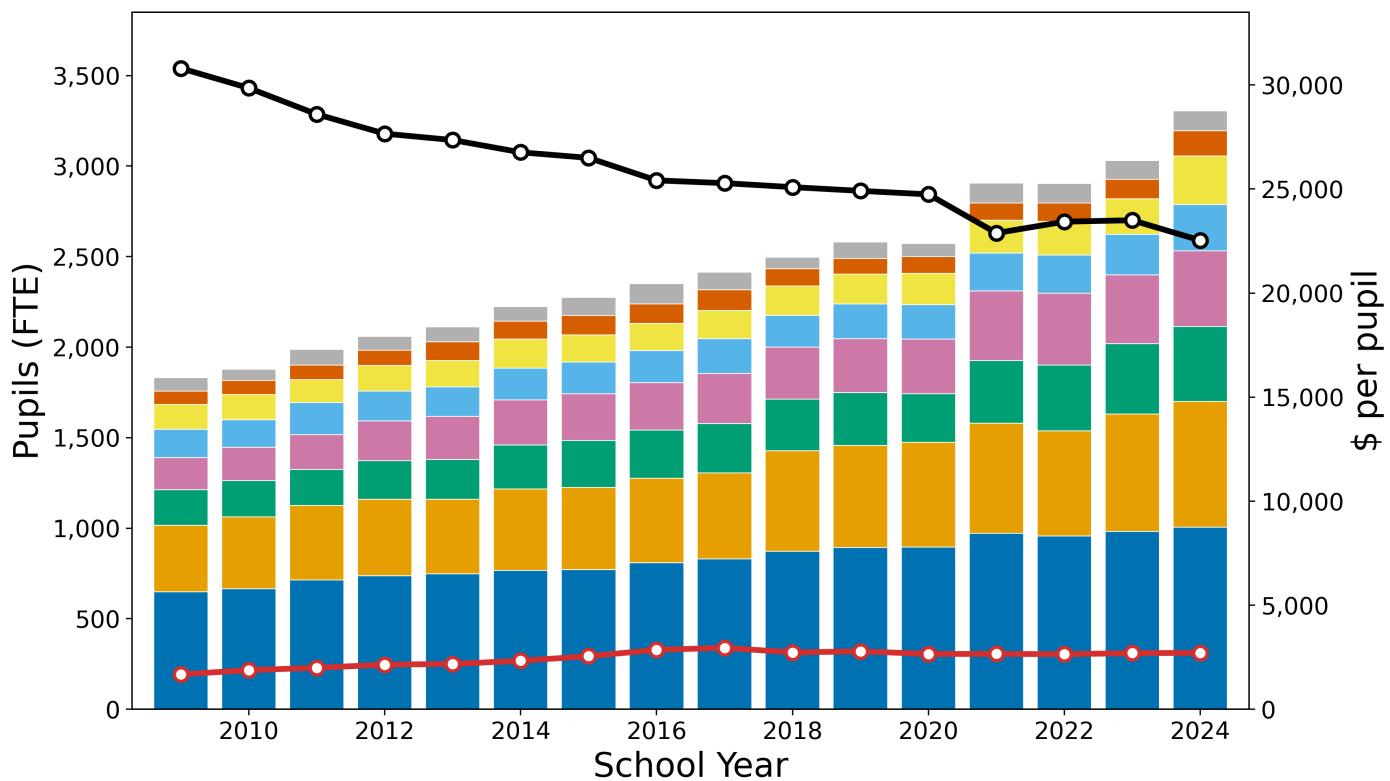
Code: v2025.09.29-REFACTORED

Category	2009 \$/pupil	CAGR 15y	CAGR 10y	CAGR 5y	2024 \$/pupil
Other	\$652	+2.6%	+3.1%	+4.1%	\$953
Administration	\$636	+4.4%	+3.4%	+9.8%	\$1,206
Instructional Leadership	\$1,196	+4.5%	+5.3%	+10.3%	\$2,330
Operations and Maintenance	\$1,365	+3.3%	+3.8%	+5.7%	\$2,221
Other Teaching Services	\$1,552	+5.9%	+5.4%	+7.1%	\$3,641
Pupil Services	\$1,701	+5.1%	+5.5%	+7.2%	\$3,600
Insurance, Retirement Programs and Other	\$3,201	+4.3%	+4.5%	+4.3%	\$6,058
Teachers	\$5,639	+3.0%	+2.7%	+2.4%	\$8,741
Total	\$15,942	+4.0%	+4.0%	+5.1%	\$28,750
Shading vs Western: $ \Delta \$/\text{pupil}  \geq 2.0\% \text{ or }  \Delta \text{CAGR}  \geq 2.0\text{pp}$					
> Western CAGR (>500)					
CAGR = $(\text{End}/\text{Start})^{(1/\text{years})} - 1$					
< Western CAGR (>500)					

FTE Series	2019	CAGR 15y	CAGR 10y	CAGR 5y	2024
In-District FTE Pupils	2,863	-2.1%	-1.7%	-2.0%	2,589
Out-of-District FTE Pupils	320	+3.3%	+1.5%	-0.5%	312
Total FTE	3,183	-1.7%	-1.4%	-1.8%	2,901

# ALPS PK-12: PPE vs Enrollment (vs ALPS Peers)

Comparison to ALPS Peer Districts aggregate



Category	2009 \$/pupil	CAGR 15y	CAGR 10y	CAGR 5y	2024 \$/pupil
Other	\$652	+2.6%	+3.1%	+4.1%	\$953
Administration	\$636	+4.4%	+3.4%	+9.8%	\$1,206
Instructional Leadership	\$1,196	+4.5%	+5.3%	+10.3%	\$2,330
Operations and Maintenance	\$1,365	+3.3%	+3.8%	+5.7%	\$2,221
Other Teaching Services	\$1,552	+5.9%	+5.4%	+7.1%	\$3,641
Pupil Services	\$1,701	+5.1%	+5.5%	+7.2%	\$3,600
Insurance, Retirement Programs and Other	\$3,201	+4.3%	+4.5%	+4.3%	\$6,058
Teachers	\$5,639	+3.0%	+2.7%	+2.4%	\$8,741
Total	\$15,942	+4.0%	+4.0%	+5.1%	\$28,750

Shading vs ALPS Peers:  $|\Delta \$/\text{pupil}| \geq 2.0\%$  or  $|\Delta \text{CAGR}| \geq 2.0\text{pp}$  > ALPS Peers CAGR

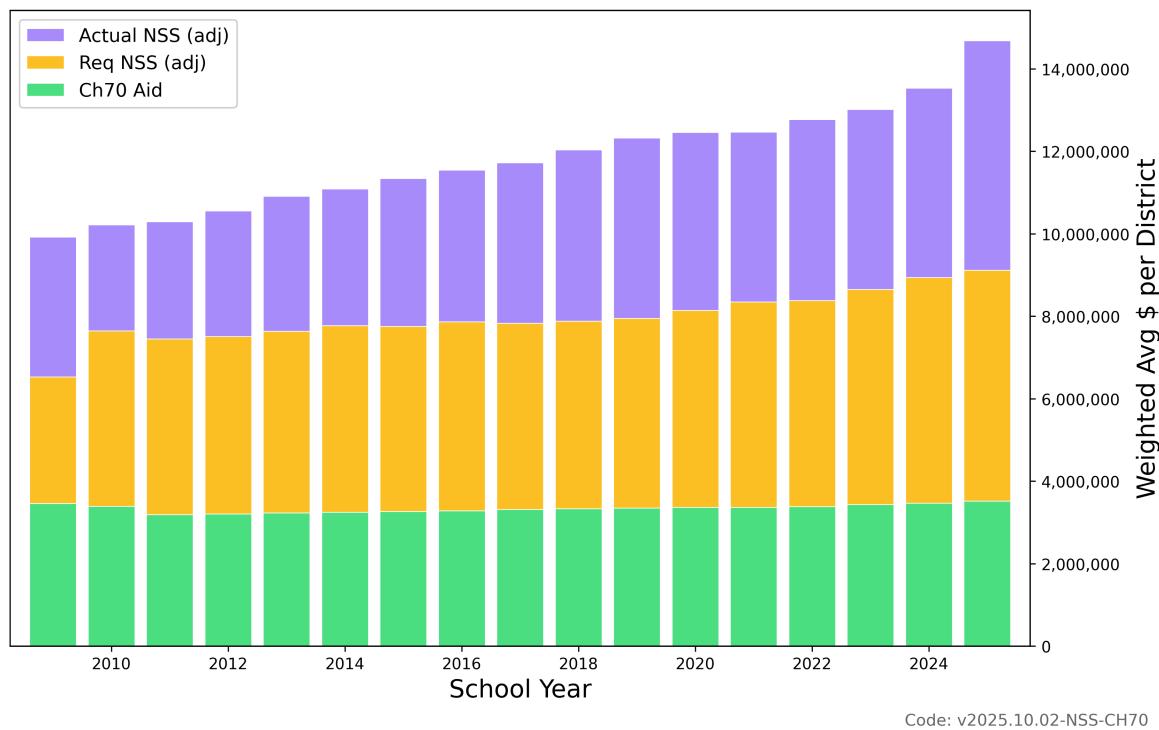
CAGR =  $(\text{End}/\text{Start})^{(1/\text{years})} - 1$  < ALPS Peers CAGR

FTE Series	2019	CAGR 15y	CAGR 10y	CAGR 5y	2024
In-District FTE Pupils	2,863	-2.1%	-1.7%	-2.0%	2,589
Out-of-District FTE Pupils	320	+3.3%	+1.5%	-0.5%	312
Total FTE	3,183	-1.7%	-1.4%	-1.8%	2,901

# ALPS PK-12: Chapter 70 Aid and Net School Spending (vs ALPS Peers)

Funding components: State aid (Ch70), Required local contribution, and Actual spending above requirement

## ALPS PK-12: Chapter 70 Aid and Net School Spending



Code: v2025.10.02-NSS-CH70

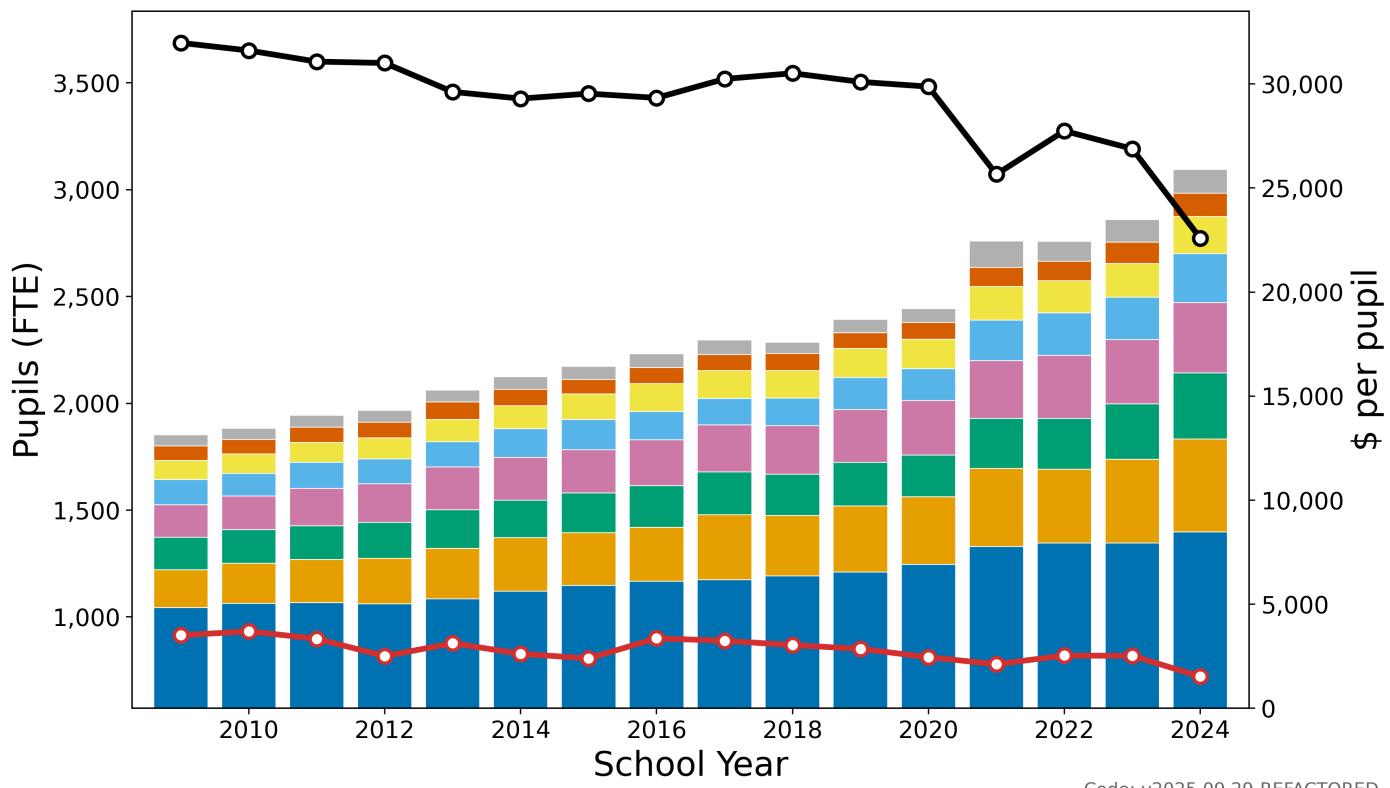
Component	2010 \$	CAGR 15y	CAGR 10y	CAGR 5y	2025 \$
Actual NSS (adj)	\$2,572,474	5.28%	4.51%	5.24%	\$5,568,343
Req NSS (adj)	\$4,259,210	1.84%	2.23%	3.22%	\$5,598,268
Ch70 Aid	\$3,388,404	0.25%	0.74%	0.87%	\$3,517,511
Total	\$10,220,088	2.45%	2.62%	3.34%	\$14,684,121
Shading vs ALPS Peers: $ \Delta\$/pupil  \geq 2.0\%$ or $ \Delta CAGR  \geq 2.0\%$		> ALPS Peers CAGR			
CAGR = $(End/Start)^{(1/years)} - 1$		< ALPS Peers CAGR			

# Appendix A. Aggregate Districts for Comparison

(Western MA Traditional by enrollment size, plus ALPS Peer group)

## All Western MA Traditional Districts ≤500 Students

PPE vs Enrollment — Not including charters and vocational



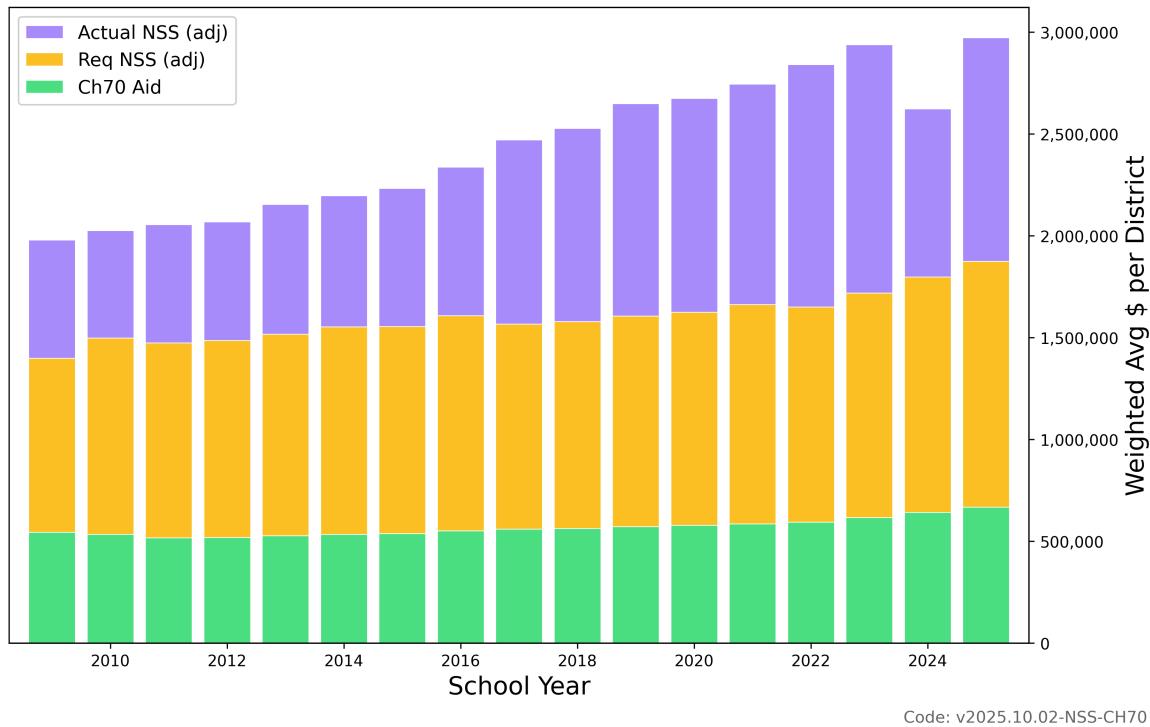
Code: v2025.09.29-REFACTORED

Category	2009 \$/pupil	CAGR 15y	CAGR 10y	CAGR 5y	2024 \$/pupil
Other	\$548	+4.9%	+6.3%	+11.2%	\$1,125
Administration	\$696	+3.3%	+3.7%	+8.7%	\$1,129
Instructional Leadership	\$906	+4.6%	+5.0%	+5.0%	\$1,789
Operations and Maintenance	\$1,223	+4.5%	+5.5%	+8.8%	\$2,353
Other Teaching Services	\$1,551	+5.3%	+5.0%	+5.8%	\$3,364
Pupil Services	\$1,561	+4.9%	+5.9%	+8.9%	\$3,193
Insurance, Retirement Programs and Other	\$1,830	+6.1%	+5.7%	+7.0%	\$4,466
Teachers	\$4,833	+3.8%	+4.2%	+5.3%	\$8,465
Total	\$13,149	+4.6%	+5.0%	+6.7%	\$25,885
FTE Series	2019	CAGR 15y	CAGR 10y	CAGR 5y	2024
In-District FTE Pupils	152	-1.3%	-1.2%	-1.9%	139
Out-of-District FTE Pupils	37	-0.9%	-0.4%	-0.5%	36
Total FTE	189	-1.2%	-1.0%	-1.6%	175

# All Western MA Traditional Districts $\leq$ 500 Students: Chapter 70 Aid and Net School Spending

Weighted avg funding per district: State aid (Ch70), Required local contribution, and Actual spending above requirement

## Western MA ( $\leq$ 500): Chapter 70 Aid and Net School Spending

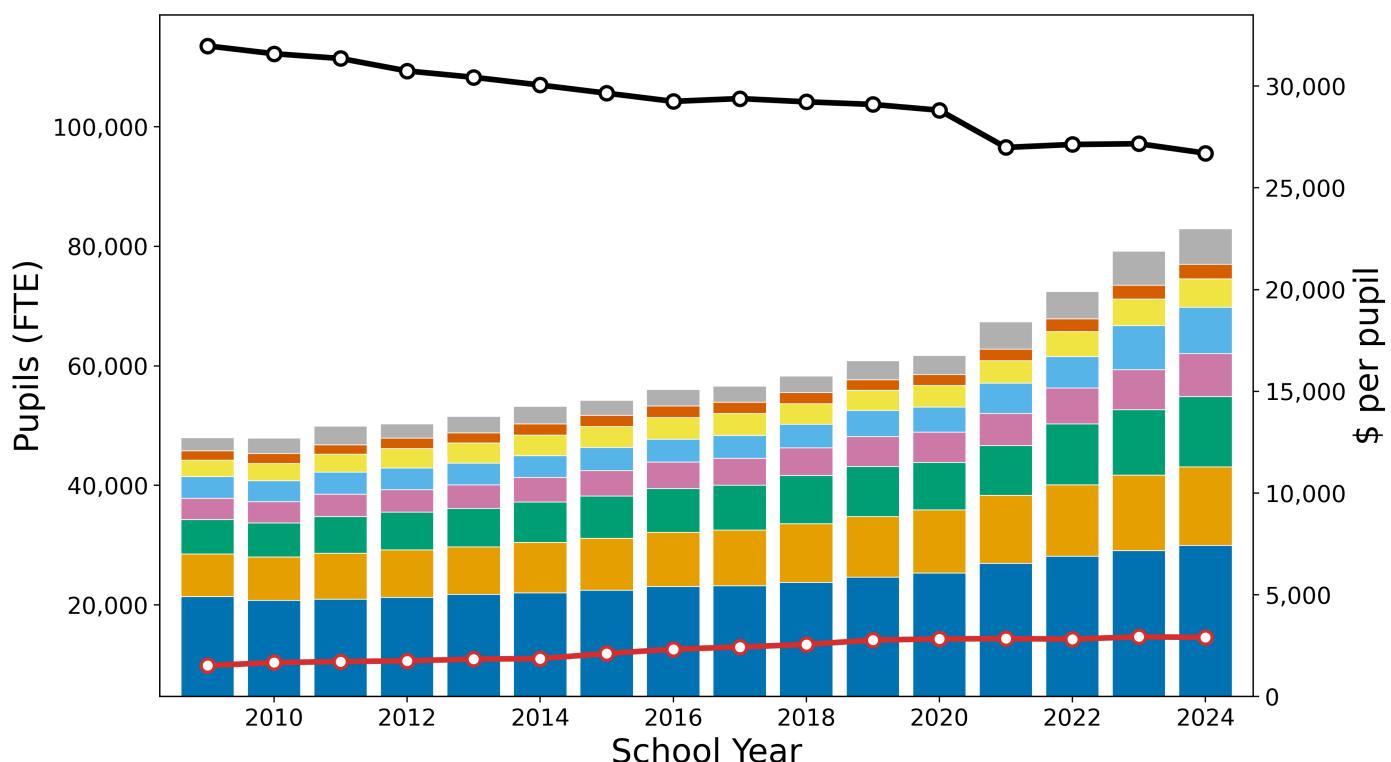


Code: v2025.10.02-NSS-CH70

Component	2010 \$	CAGR 15y	CAGR 10y	CAGR 5y	2025 \$
Actual NSS (adj)	\$527,360	5.01%	4.92%	0.91%	\$1,097,939
Req NSS (adj)	\$964,038	1.51%	1.74%	2.92%	\$1,207,802
Ch70 Aid	\$534,246	1.50%	2.17%	2.91%	\$667,870
Total	\$2,025,644	2.59%	2.90%	2.14%	\$2,973,610

# All Western MA Traditional Districts >500 Students

PPE vs Enrollment — Not including charters and vocational



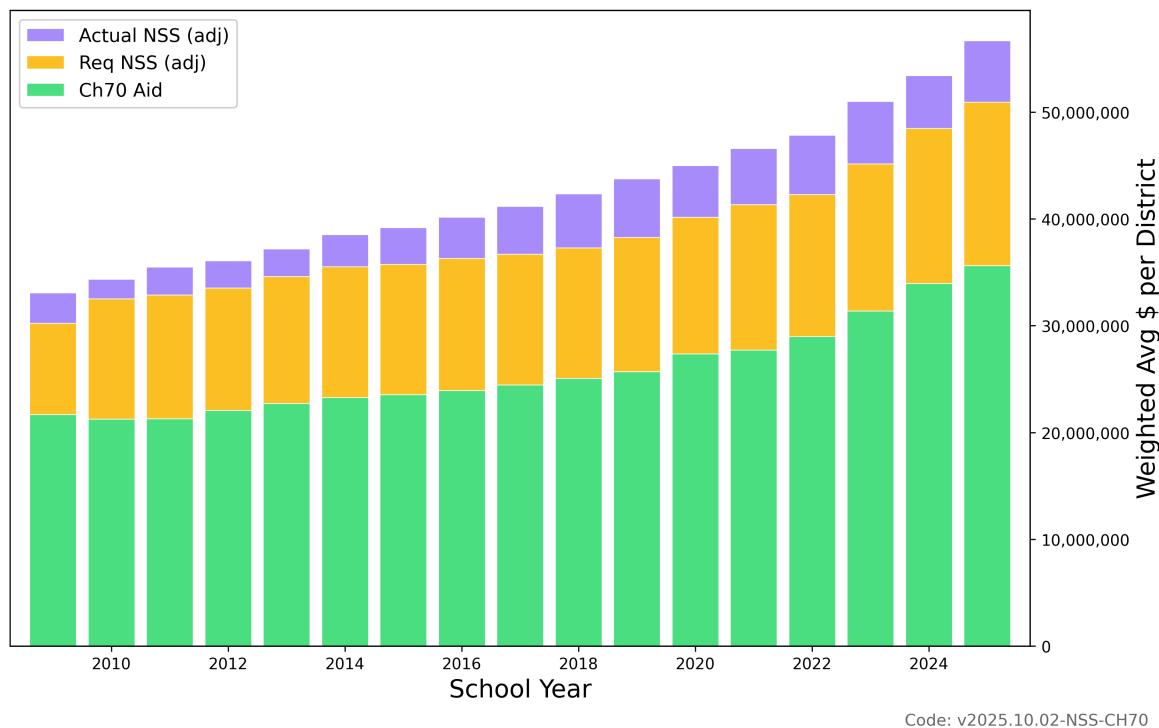
Code: v2025.09.29-REFACTORED

Category	2009 \$/pupil	CAGR 15y	CAGR 10y	CAGR 5y	2024 \$/pupil
Other	\$649	+6.8%	+7.2%	+13.4%	\$1,734
Administration	\$453	+3.1%	+2.7%	+7.1%	\$718
Instructional Leadership	\$806	+3.7%	+3.2%	+6.8%	\$1,390
Operations and Maintenance	\$1,076	+5.2%	+7.9%	+12.2%	\$2,295
Other Teaching Services	\$1,030	+4.9%	+5.7%	+7.6%	\$2,106
Pupil Services	\$1,708	+4.8%	+5.7%	+7.1%	\$3,454
Insurance, Retirement Programs and Other	\$2,079	+4.2%	+4.5%	+5.3%	\$3,853
Teachers	\$4,916	+2.8%	+3.8%	+4.8%	\$7,430
Total	\$12,717	+4.0%	+4.9%	+6.9%	\$22,980
FTE Series		2019	CAGR 15y	CAGR 10y	CAGR 5y
In-District FTE Pupils	2,412	-1.0%	-0.9%	-0.7%	2,331
Out-of-District FTE Pupils	328	+2.8%	+3.1%	+1.6%	355
Total FTE	2,741	-0.6%	-0.4%	-0.4%	2,686

# All Western MA Traditional Districts >500 Students: Chapter 70 Aid and Net School Spending

Weighted avg funding per district: State aid (Ch70), Required local contribution, and Actual spending above requirement

## Western MA (>500): Chapter 70 Aid and Net School Spending

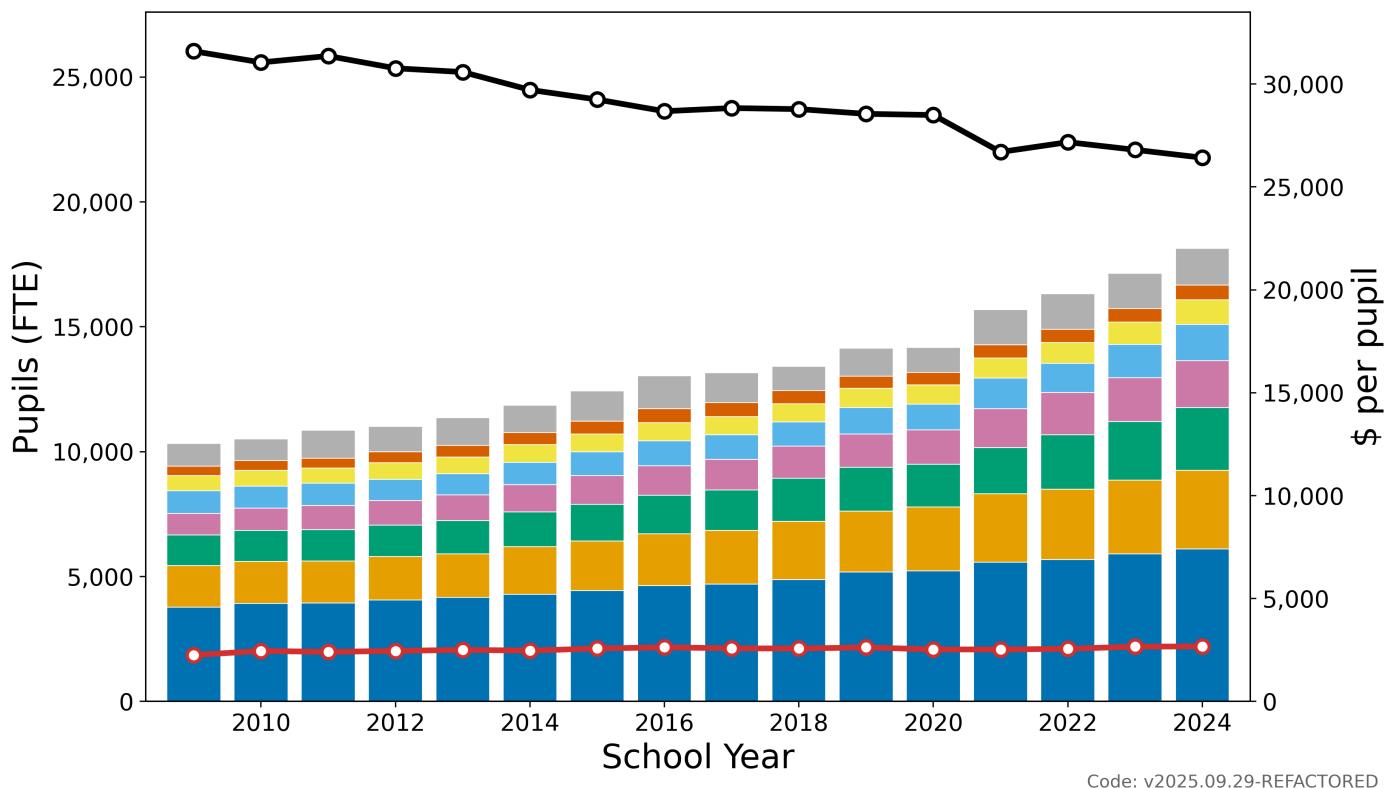


Code: v2025.10.02-NSS-CH70

Component	2010 \$	CAGR 15y	CAGR 10y	CAGR 5y	2025 \$
Actual NSS (adj)	\$1,842,329	7.88%	5.31%	3.58%	\$5,748,773
Req NSS (adj)	\$11,253,980	2.08%	2.29%	3.66%	\$15,328,678
Ch70 Aid	\$21,258,222	3.50%	4.23%	5.42%	\$35,617,112
Total	\$34,354,531	3.40%	3.76%	4.74%	\$56,694,562

# ALPS Peer Districts Aggregate

Weighted aggregate of ALPS PK-12 and 9 peer districts



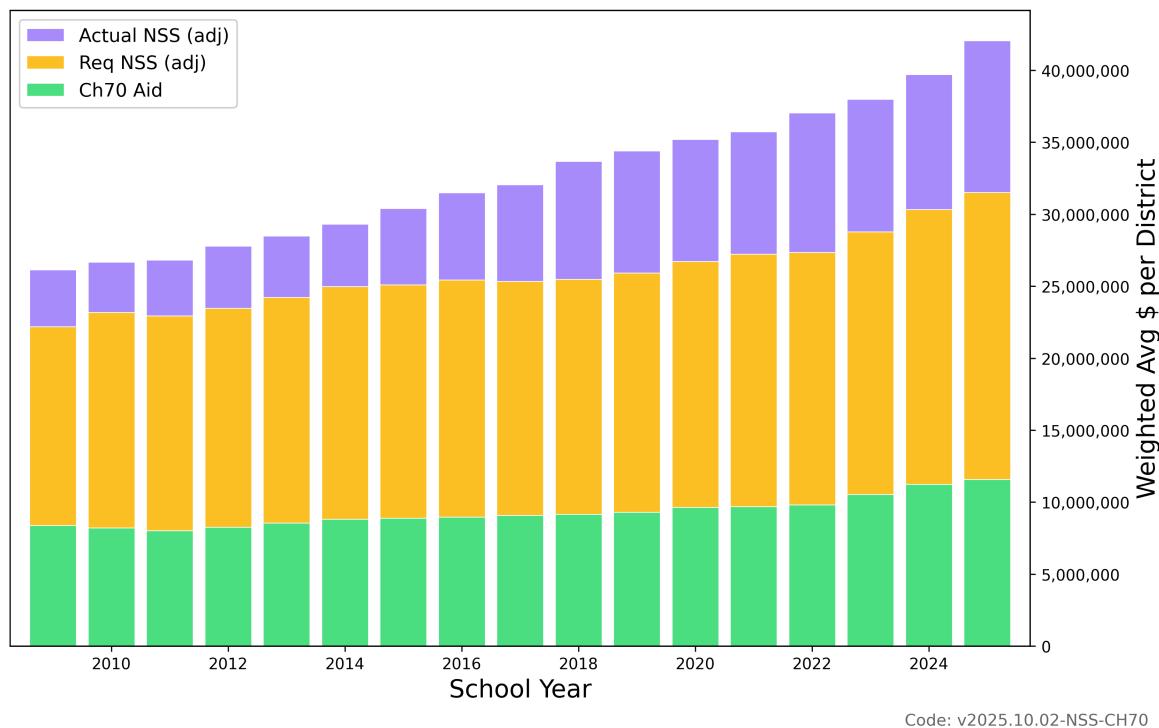
Code: v2025.09.29-REFACTORED

Category	2009 \$/pupil	CAGR 15y	CAGR 10y	CAGR 5y	2024 \$/pupil
Other	\$1,102	+3.2%	+3.0%	+5.6%	\$1,778
Administration	\$460	+3.0%	+2.2%	+4.3%	\$719
Instructional Leadership	\$726	+3.4%	+3.3%	+4.7%	\$1,193
Operations and Maintenance	\$1,102	+3.2%	+4.9%	+6.7%	\$1,765
Other Teaching Services	\$1,060	+5.2%	+5.7%	+7.1%	\$2,282
Pupil Services	\$1,483	+4.9%	+6.0%	+7.5%	\$3,057
Insurance, Retirement Programs and Other	\$2,015	+4.4%	+5.1%	+5.2%	\$3,822
Teachers	\$4,586	+3.2%	+3.6%	+3.3%	\$7,399
Total	\$12,534	+3.8%	+4.3%	+5.1%	\$22,015
FTE Series	2019	CAGR 15y	CAGR 10y	CAGR 5y	2024
In-District FTE Pupils	23,523	-1.2%	-1.2%	-1.5%	21,769
Out-of-District FTE Pupils	2,160	+1.1%	+0.8%	+0.4%	2,200
Total FTE	25,684	-1.0%	-1.0%	-1.4%	23,969

# ALPS Peer Districts Aggregate: Chapter 70 Aid and Net School Spending

Weighted avg funding per district: State aid (Ch70), Required local contribution, and Actual spending above requirement

## ALPS Peers: Chapter 70 Aid and Net School Spending



Code: v2025.10.02-NSS-CH70

Component	2010 \$	CAGR 15y	CAGR 10y	CAGR 5y	2025 \$
Actual NSS (adj)	\$3,497,112	7.64%	7.08%	4.44%	\$10,547,033
Req NSS (adj)	\$14,961,184	1.93%	2.11%	3.15%	\$19,941,670
Ch70 Aid	\$8,221,619	2.31%	2.66%	3.71%	\$11,578,303
Total	\$26,679,915	3.08%	3.30%	3.62%	\$42,067,006

# Appendix B. Data Tables

All data values used in plots

This appendix contains the underlying data tables for all districts and regions shown in the report. Each table shows PPE by category (in \$/pupil), FTE enrollment counts, and NSS/Ch70 funding components (in absolute dollars) across all available years.

## Data: Amherst-Pelham

PPE (\$/pupil), FTE Enrollment, and NSS/Ch70 Funding (\$)

### PPE by Category (\$/pupil)

Category	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Other	\$646	\$534	\$900	\$417	\$459	\$424	\$599	\$860	\$635	\$384	\$610	\$559	\$477	\$527	\$457	\$799
Administration	\$652	\$664	\$687	\$789	\$987	\$907	\$953	\$926	\$996	\$857	\$759	\$780	\$788	\$859	\$928	\$1,277
Instructional Leadership	\$1,289	\$1,337	\$1,209	\$1,397	\$1,390	\$1,545	\$1,429	\$1,437	\$1,541	\$1,555	\$1,544	\$1,501	\$1,436	\$1,472	\$1,644	\$2,336
Operations and Maintenance	\$1,459	\$1,416	\$1,559	\$1,468	\$1,481	\$1,585	\$1,473	\$1,577	\$1,904	\$1,678	\$1,776	\$1,601	\$1,705	\$1,778	\$1,957	\$2,221
Other Teaching Services	\$1,199	\$1,264	\$1,313	\$1,468	\$1,588	\$1,739	\$1,770	\$1,883	\$2,014	\$2,066	\$2,122	\$2,214	\$3,010	\$3,050	\$2,968	\$2,851
Pupil Services	\$2,170	\$2,196	\$2,205	\$2,302	\$2,291	\$2,497	\$2,753	\$2,908	\$2,931	\$3,109	\$3,161	\$2,902	\$3,951	\$3,780	\$4,177	\$4,231
Insurance, Retirement Programs and Other	\$3,305	\$3,636	\$3,673	\$3,811	\$3,526	\$3,954	\$4,086	\$4,103	\$4,218	\$5,006	\$5,047	\$5,074	\$5,237	\$5,062	\$5,887	\$6,248
Teachers	\$5,491	\$5,511	\$6,254	\$6,199	\$6,533	\$6,765	\$6,704	\$6,590	\$6,927	\$7,208	\$7,285	\$7,155	\$7,592	\$7,404	\$8,158	\$8,270
Total	\$16,211	\$16,558	\$17,800	\$17,851	\$18,255	\$19,416	\$19,767	\$20,284	\$21,166	\$21,863	\$22,304	\$21,786	\$24,196	\$23,932	\$26,176	\$28,233

### FTE Enrollment

FTE Series	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
In-District FTE Pupils	1,712	1,659	1,573	1,536	1,519	1,470	1,450	1,378	1,366	1,342	1,334	1,346	1,278	1,265	1,241	1,209
Out-of-District FTE Pupils	112	129	138	143	138	149	169	190	192	170	158	152	155	145	150	147
Total FTE	1,824	1,788	1,711	1,678	1,657	1,619	1,619	1,567	1,558	1,511	1,493	1,498	1,433	1,410	1,391	1,356

### NSS/Ch70 Funding Components (\$)

Component	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Ch70 Aid	\$9.9M	\$9.7M	\$9.1M	\$9.2M	\$9.2M	\$9.3M	\$9.3M	\$9.3M	\$9.4M	\$9.5M	\$9.5M	\$9.6M	\$9.6M	\$9.6M	\$9.7M	\$9.8M
Req NSS (adj)	\$7.9M	\$10.9M	\$11.0M	\$11.1M	\$11.4M	\$11.7M	\$11.5M	\$11.7M	\$11.5M	\$11.6M	\$11.9M	\$12.1M	\$12.8M	\$12.8M	\$13.3M	\$13.8M
Actual NSS (adj)	\$6.1M	\$4.0M	\$4.7M	\$5.5M	\$6.0M	\$6.1M	\$6.6M	\$6.7M	\$7.5M	\$7.5M	\$7.7M	\$7.5M	\$6.8M	\$6.8M	\$7.0M	\$7.7M
Total NSS	\$23.9M	\$24.6M	\$24.8M	\$25.8M	\$26.6M	\$27.0M	\$27.4M	\$27.7M	\$28.4M	\$28.6M	\$29.1M	\$29.2M	\$29.2M	\$30.0M	\$31.3M	

# Data: Amherst

## PPE (\$/pupil), FTE Enrollment, and NSS/Ch70 Funding (\$)

### PPE by Category (\$/pupil)

Category	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Other	\$684	\$547	\$606	\$931	\$1,098	\$1,098	\$1,265	\$1,242	\$1,119	\$798	\$1,092	\$733	\$1,563	\$1,561	\$1,475	\$1,328
Administration	\$627	\$698	\$735	\$709	\$787	\$809	\$919	\$944	\$981	\$799	\$767	\$827	\$874	\$896	\$981	\$1,213
Instructional Leadership	\$1,134	\$1,079	\$965	\$1,032	\$1,153	\$1,275	\$1,175	\$1,131	\$1,087	\$1,231	\$1,325	\$1,527	\$1,750	\$1,783	\$1,847	\$2,498
Operations and Maintenance	\$1,264	\$1,271	\$1,636	\$1,436	\$1,399	\$1,451	\$1,577	\$1,530	\$1,555	\$1,340	\$1,646	\$1,764	\$1,897	\$1,874	\$1,941	\$2,248
Other Teaching Services	\$1,762	\$1,813	\$1,923	\$2,345	\$2,621	\$2,610	\$2,840	\$2,652	\$2,751	\$2,973	\$3,084	\$3,053	\$3,908	\$3,898	\$3,746	\$4,612
Pupil Services	\$1,261	\$1,386	\$1,335	\$1,386	\$1,553	\$1,761	\$1,802	\$1,850	\$1,818	\$1,909	\$2,030	\$1,844	\$2,035	\$2,740	\$2,821	\$3,018
Insurance, Retirement Programs and Other	\$3,353	\$3,610	\$3,821	\$3,852	\$3,941	\$4,189	\$4,201	\$4,295	\$4,231	\$4,840	\$5,212	\$5,363	\$5,661	\$5,561	\$6,022	\$6,605
Teachers	\$5,944	\$6,213	\$6,355	\$6,963	\$6,804	\$6,627	\$6,841	\$7,712	\$7,792	\$8,091	\$8,538	\$8,725	\$9,528	\$9,598	\$9,451	\$9,745
Total	\$16,029	\$16,617	\$17,376	\$18,654	\$19,356	\$19,820	\$20,620	\$21,356	\$21,334	\$21,981	\$23,694	\$23,836	\$27,216	\$27,911	\$28,284	\$31,267

### FTE Enrollment

FTE Series	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
In-District FTE Pupils	1,387	1,331	1,284	1,215	1,196	1,197	1,184	1,154	1,156	1,163	1,131	1,107	1,017	1,052	1,062	1,002
Out-of-District FTE Pupils	65	72	73	84	90	90	101	113	110	108	124	122	118	123	129	134
Total FTE	1,452	1,403	1,358	1,298	1,286	1,287	1,285	1,268	1,266	1,270	1,255	1,228	1,135	1,175	1,191	1,135

### NSS/Ch70 Funding Components (\$)

Component	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Ch70 Aid	\$6.3M	\$6.1M	\$5.8M	\$5.8M	\$5.9M	\$5.9M	\$5.9M	\$6.0M	\$6.0M	\$6.1M	\$6.1M	\$6.1M	\$6.1M	\$6.2M	\$6.2M	\$6.3M
Req NSS (adj)	\$5.5M	\$8.3M	\$8.2M	\$8.3M	\$8.6M	\$8.8M	\$8.8M	\$9.0M	\$9.1M	\$8.8M	\$8.9M	\$9.5M	\$9.6M	\$9.9M	\$10.5M	\$11.2M
Actual NSS (adj)	\$8.6M	\$6.7M	\$7.1M	\$7.2M	\$7.7M	\$8.0M	\$8.6M	\$9.1M	\$9.0M	\$10.0M	\$10.9M	\$10.5M	\$10.3M	\$11.2M	\$11.2M	\$11.7M
Total NSS	\$20.4M	\$21.1M	\$21.1M	\$21.4M	\$22.2M	\$22.6M	\$23.4M	\$24.1M	\$24.1M	\$24.9M	\$25.9M	\$26.1M	\$26.1M	\$27.3M	\$27.9M	\$29.1M

# Data: Leverett

## PPE (\$/pupil), FTE Enrollment, and NSS/Ch70 Funding (\$)

### PPE by Category (\$/pupil)

Category	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Other	\$575	\$602	\$651	\$766	\$616	\$556	\$563	\$529	\$596	\$453	\$503	\$606	\$1,041	\$840	\$756	\$608
Administration	\$715	\$676	\$710	\$888	\$925	\$1,029	\$809	\$842	\$1,244	\$899	\$826	\$857	\$1,010	\$987	\$1,061	\$953
Instructional Leadership	\$1,015	\$1,008	\$1,072	\$1,244	\$1,257	\$1,393	\$1,357	\$1,344	\$1,431	\$1,461	\$1,278	\$1,317	\$1,318	\$1,354	\$1,430	\$1,663
Operations and Maintenance	\$1,755	\$1,427	\$1,532	\$1,741	\$1,479	\$2,421	\$2,272	\$1,707	\$1,209	\$1,765	\$1,491	\$1,458	\$2,131	\$2,296	\$2,292	\$2,158
Other Teaching Services	\$2,385	\$2,040	\$2,074	\$2,346	\$2,540	\$2,352	\$2,274	\$2,281	\$2,193	\$2,175	\$2,477	\$2,386	\$2,178	\$3,119	\$3,266	\$3,526
Pupil Services	\$1,395	\$970	\$1,096	\$1,599	\$1,613	\$2,392	\$2,073	\$1,701	\$2,082	\$2,081	\$1,845	\$1,641	\$2,690	\$1,910	\$2,635	\$2,814
Insurance, Retirement Programs and Other	\$2,098	\$2,041	\$2,253	\$2,499	\$2,753	\$3,245	\$3,041	\$2,937	\$2,943	\$3,677	\$3,781	\$3,686	\$4,766	\$3,630	\$3,611	\$3,793
Teachers	\$5,218	\$5,690	\$5,818	\$6,301	\$6,138	\$7,547	\$6,868	\$6,967	\$6,814	\$7,967	\$7,665	\$7,134	\$9,224	\$6,888	\$6,724	\$6,395
Total	\$15,156	\$14,454	\$15,206	\$17,384	\$17,321	\$20,935	\$19,257	\$18,308	\$18,512	\$20,478	\$19,866	\$19,085	\$24,358	\$21,024	\$21,775	\$21,910

### FTE Enrollment

FTE Series	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
In-District FTE Pupils	162	164	161	150	147	124	134	135	134	129	136	142	117	142	140	142
Out-of-District FTE Pupils	7	7	6	9	10	9	8	6	14	8	9	12	9	12	7	3
Total FTE	168	171	167	159	157	132	142	141	148	137	145	154	125	154	147	145

### NSS/Ch70 Funding Components (\$)

Component	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Ch70 Aid	\$288K	\$282K	\$266K	\$267K	\$272K	\$275K	\$277K	\$280K	\$285K	\$289K	\$292K	\$296K	\$296K	\$299K	\$391K	\$397K
Req NSS (adj)	\$819K	\$875K	\$938K	\$929K	\$916K	\$935K	\$841K	\$844K	\$837K	\$990K	\$858K	\$885K	\$993K	\$943K	\$971K	\$955K
Actual NSS (adj)	\$877K	\$878K	\$860K	\$952K	\$1.0M	\$905K	\$974K	\$1.0M	\$1.0M	\$963K	\$1.2M	\$1.3M	\$1.1M	\$1.4M	\$1.1M	\$1.1M
Total NSS	\$2.0M	\$2.0M	\$2.1M	\$2.1M	\$2.2M	\$2.1M	\$2.1M	\$2.2M	\$2.1M	\$2.2M	\$2.3M	\$2.4M	\$2.4M	\$2.6M	\$2.5M	\$2.5M

# Data: Pelham

## PPE (\$/pupil), FTE Enrollment, and NSS/Ch70 Funding (\$)

### PPE by Category (\$/pupil)

Category	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Other	\$580	\$361	\$384	\$366	\$658	\$639	\$780	\$652	\$569	\$414	\$466	\$407	\$292	\$365	\$422	\$207
Administration	\$390	\$398	\$478	\$391	\$664	\$796	\$806	\$980	\$739	\$731	\$489	\$574	\$656	\$688	\$614	\$917
Instructional Leadership	\$1,123	\$1,159	\$1,089	\$1,064	\$1,113	\$1,252	\$1,288	\$1,322	\$1,278	\$1,431	\$1,194	\$1,609	\$1,670	\$1,873	\$1,782	\$1,885
Operations and Maintenance	\$920	\$847	\$925	\$884	\$992	\$947	\$1,080	\$942	\$987	\$889	\$1,229	\$1,304	\$1,498	\$1,380	\$1,524	\$1,614
Other Teaching Services	\$2,184	\$2,109	\$2,166	\$2,026	\$1,937	\$2,063	\$2,218	\$2,541	\$2,850	\$2,269	\$2,273	\$2,324	\$2,540	\$2,292	\$2,594	\$3,010
Pupil Services	\$1,032	\$1,090	\$1,347	\$1,507	\$1,584	\$1,615	\$1,696	\$1,797	\$1,774	\$1,672	\$1,732	\$1,642	\$2,112	\$2,203	\$1,888	\$3,610
Insurance, Retirement Programs and Other	\$2,615	\$2,585	\$2,602	\$2,897	\$3,052	\$3,283	\$3,376	\$3,473	\$3,863	\$4,561	\$3,791	\$4,168	\$4,850	\$4,157	\$3,983	\$4,670
Teachers	\$5,889	\$5,474	\$5,627	\$5,576	\$5,035	\$6,090	\$6,540	\$6,418	\$5,904	\$6,310	\$6,129	\$6,860	\$7,406	\$6,714	\$6,430	\$7,127
Total	\$14,733	\$14,023	\$14,618	\$14,711	\$15,035	\$16,685	\$17,784	\$18,125	\$17,964	\$18,277	\$17,303	\$18,888	\$21,024	\$19,672	\$19,237	\$23,040

### FTE Enrollment

FTE Series	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
In-District FTE Pupils	118	125	122	128	132	128	123	123	130	127	134	125	106	119	134	126
Out-of-District FTE Pupils	3	3	4	1	4	7	5	7	11	12	10	4	8	6	5	9
Total FTE	120	128	126	129	136	135	128	130	141	139	145	129	113	125	140	136

### NSS/Ch70 Funding Components (\$)

Component	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Ch70 Aid	\$233K	\$229K	\$215K	\$216K	\$219K	\$221K	\$222K	\$224K	\$228K	\$231K	\$233K	\$236K	\$238K	\$241K	\$244K	\$248K
Req NSS (adj)	\$466K	\$497K	\$482K	\$480K	\$483K	\$566K	\$620K	\$627K	\$609K	\$620K	\$668K	\$688K	\$690K	\$646K	\$636K	\$632K
Actual NSS (adj)	\$654K	\$626K	\$660K	\$651K	\$726K	\$681K	\$660K	\$736K	\$859K	\$1.0M	\$927K	\$942K	\$1.1M	\$1.1M	\$1.2M	\$1.3M
Total NSS	\$1.4M	\$1.4M	\$1.4M	\$1.3M	\$1.4M	\$1.5M	\$1.5M	\$1.6M	\$1.7M	\$1.9M	\$1.8M	\$1.9M	\$2.0M	\$2.0M	\$2.1M	\$2.2M

# Data: Shutesbury

## PPE (\$/pupil), FTE Enrollment, and NSS/Ch70 Funding (\$)

### PPE by Category (\$/pupil)

Category	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Other	\$580	\$498	\$564	\$865	\$704	\$515	\$636	\$684	\$1,510	\$420	\$385	\$873	\$1,296	\$551	\$1,102	\$545
Administration	\$652	\$943	\$767	\$836	\$877	\$726	\$884	\$1,084	\$1,040	\$846	\$856	\$938	\$925	\$1,100	\$934	\$1,015
Instructional Leadership	\$969	\$1,138	\$1,149	\$1,198	\$1,227	\$1,003	\$1,192	\$1,517	\$1,604	\$1,481	\$1,517	\$1,541	\$1,707	\$1,736	\$1,323	\$2,103
Operations and Maintenance	\$1,180	\$1,079	\$1,221	\$1,276	\$1,251	\$1,338	\$1,384	\$1,637	\$1,791	\$1,941	\$1,663	\$1,916	\$2,665	\$2,048	\$2,051	\$2,754
Other Teaching Services	\$2,185	\$2,447	\$2,361	\$2,193	\$2,179	\$2,591	\$2,164	\$2,817	\$3,301	\$3,491	\$3,545	\$3,560	\$3,722	\$5,320	\$3,441	\$4,359
Pupil Services	\$1,292	\$1,128	\$1,195	\$1,556	\$1,628	\$1,418	\$1,427	\$1,340	\$2,165	\$2,301	\$2,206	\$2,198	\$2,456	\$2,748	\$2,946	\$2,962
Insurance, Retirement Programs and Other	\$2,332	\$2,687	\$2,596	\$2,690	\$2,564	\$2,484	\$2,328	\$3,107	\$3,773	\$4,388	\$2,970	\$3,963	\$3,350	\$3,154	\$4,007	\$3,501
Teachers	\$4,821	\$5,363	\$5,603	\$5,169	\$5,509	\$6,012	\$5,620	\$6,612	\$7,043	\$7,838	\$7,914	\$8,204	\$8,933	\$10,075	\$8,898	\$9,669
Total	\$14,011	\$15,283	\$15,456	\$15,783	\$15,939	\$16,087	\$15,635	\$18,798	\$22,227	\$22,706	\$21,056	\$23,193	\$25,054	\$26,732	\$24,702	\$26,908

### FTE Enrollment

FTE Series	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
In-District FTE Pupils	162	151	146	151	150	157	156	131	120	124	127	125	113	115	123	110
Out-of-District FTE Pupils	7	5	7	10	9	13	9	12	13	16	18	15	16	18	19	18
Total FTE	169	156	153	161	159	170	165	143	133	140	145	140	129	133	142	129

### NSS/Ch70 Funding Components (\$)

Component	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Ch70 Aid	\$616K	\$604K	\$569K	\$572K	\$585K	\$588K	\$594K	\$613K	\$620K	\$623K	\$627K	\$630K	\$630K	\$633K	\$639K	\$646K
Req NSS (adj)	\$668K	\$728K	\$660K	\$653K	\$697K	\$658K	\$689K	\$723K	\$624K	\$680K	\$669K	\$730K	\$712K	\$713K	\$719K	\$820K
Actual NSS (adj)	\$676K	\$700K	\$826K	\$870K	\$854K	\$946K	\$1.0M	\$923K	\$1.1M	\$1.2M	\$1.2M	\$1.3M	\$1.3M	\$1.5M	\$1.3M	\$1.2M
Total NSS	\$2.0M	\$2.0M	\$2.1M	\$2.1M	\$2.1M	\$2.2M	\$2.3M	\$2.3M	\$2.3M	\$2.5M	\$2.5M	\$2.7M	\$2.6M	\$2.8M	\$2.6M	\$2.6M

# Data: ALPS PK-12

## PPE (\$/pupil), FTE Enrollment, and NSS/Ch70 Funding (\$)

### PPE by Category (\$/pupil)

Category	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Other	\$652	\$534	\$739	\$649	\$729	\$705	\$865	\$979	\$859	\$557	\$779	\$636	\$950	\$941	\$900	\$953
Administration	\$636	\$680	\$703	\$749	\$889	\$860	\$924	\$939	\$992	\$829	\$757	\$800	\$832	\$883	\$940	\$1,206
Instructional Leadership	\$1,196	\$1,206	\$1,100	\$1,227	\$1,274	\$1,394	\$1,309	\$1,311	\$1,346	\$1,412	\$1,427	\$1,508	\$1,573	\$1,616	\$1,705	\$2,330
Operations and Maintenance	\$1,365	\$1,325	\$1,549	\$1,436	\$1,418	\$1,527	\$1,528	\$1,540	\$1,688	\$1,522	\$1,680	\$1,658	\$1,831	\$1,837	\$1,951	\$2,221
Other Teaching Services	\$1,552	\$1,597	\$1,667	\$1,901	\$2,068	\$2,159	\$2,246	\$2,275	\$2,406	\$2,507	\$2,589	\$2,613	\$3,332	\$3,448	\$3,292	\$3,641
Pupil Services	\$1,701	\$1,736	\$1,734	\$1,851	\$1,917	\$2,115	\$2,243	\$2,317	\$2,366	\$2,481	\$2,542	\$2,341	\$3,016	\$3,161	\$3,394	\$3,600
Insurance, Retirement Programs and Other	\$3,201	\$3,469	\$3,574	\$3,675	\$3,582	\$3,914	\$3,966	\$4,054	\$4,130	\$4,834	\$4,901	\$5,029	\$5,283	\$5,060	\$5,642	\$6,058
Teachers	\$5,639	\$5,784	\$6,220	\$6,422	\$6,506	\$6,676	\$6,702	\$7,045	\$7,225	\$7,585	\$7,772	\$7,798	\$8,463	\$8,317	\$8,539	\$8,741
Total	\$15,942	\$16,331	\$17,285	\$17,911	\$18,384	\$19,350	\$19,785	\$20,459	\$21,011	\$21,727	\$22,447	\$22,384	\$25,281	\$25,264	\$26,364	\$28,750

### FTE Enrollment

FTE Series	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
In-District FTE Pupils	3,540	3,431	3,286	3,179	3,144	3,076	3,045	2,921	2,906	2,884	2,863	2,844	2,630	2,693	2,701	2,589
Out-of-District FTE Pupils	192	216	229	246	250	268	293	328	339	314	320	305	306	304	310	312
Total FTE	3,733	3,647	3,515	3,425	3,394	3,344	3,338	3,249	3,245	3,197	3,183	3,149	2,936	2,997	3,011	2,901

### NSS/Ch70 Funding Components (\$)

Component	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Ch70 Aid	\$3.5M	\$3.4M	\$3.2M	\$3.2M	\$3.2M	\$3.3M	\$3.3M	\$3.3M	\$3.3M	\$3.3M	\$3.4M	\$3.4M	\$3.4M	\$3.4M	\$3.4M	\$3.5M
Req NSS (adj)	\$3.1M	\$4.3M	\$4.3M	\$4.3M	\$4.4M	\$4.5M	\$4.5M	\$4.6M	\$4.5M	\$4.6M	\$4.6M	\$4.8M	\$5.0M	\$5.0M	\$5.2M	\$5.5M
Actual NSS (adj)	\$3.4M	\$2.6M	\$2.8M	\$3.0M	\$3.3M	\$3.3M	\$3.6M	\$3.7M	\$3.9M	\$4.1M	\$4.4M	\$4.3M	\$4.1M	\$4.4M	\$4.4M	\$4.6M
Total NSS	\$9.9M	\$10.2M	\$10.3M	\$10.6M	\$10.9M	\$11.1M	\$11.3M	\$11.5M	\$11.7M	\$12.0M	\$12.3M	\$12.5M	\$12.5M	\$12.8M	\$13.0M	\$13.5M

# Data: All Western MA Traditional Districts ≤500 Students

PPE (\$/pupil), FTE Enrollment, and NSS/Ch70 Funding (\$)

## PPE by Category (\$/pupil)

Category	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Other	\$548	\$535	\$573	\$563	\$570	\$614	\$613	\$667	\$706	\$523	\$661	\$652	\$1,268	\$965	\$1,089	\$1,125
Administration	\$696	\$706	\$725	\$765	\$845	\$783	\$707	\$757	\$775	\$827	\$744	\$815	\$910	\$931	\$1,035	\$1,129
Instructional Leadership	\$906	\$938	\$956	\$1,002	\$1,073	\$1,099	\$1,237	\$1,358	\$1,333	\$1,325	\$1,403	\$1,418	\$1,620	\$1,550	\$1,619	\$1,789
Operations and Maintenance	\$1,223	\$1,076	\$1,259	\$1,205	\$1,206	\$1,381	\$1,440	\$1,350	\$1,273	\$1,313	\$1,545	\$1,526	\$1,942	\$2,023	\$2,036	\$2,353
Other Teaching Services	\$1,551	\$1,621	\$1,793	\$1,848	\$2,064	\$2,059	\$2,081	\$2,206	\$2,254	\$2,336	\$2,533	\$2,627	\$2,785	\$3,034	\$3,091	\$3,364
Pupil Services	\$1,561	\$1,620	\$1,632	\$1,720	\$1,846	\$1,808	\$1,906	\$2,003	\$2,051	\$1,992	\$2,085	\$1,998	\$2,397	\$2,445	\$2,654	\$3,193
Insurance, Retirement Programs and Other	\$1,830	\$1,918	\$2,061	\$2,201	\$2,429	\$2,575	\$2,542	\$2,599	\$3,130	\$2,908	\$3,182	\$3,261	\$3,752	\$3,548	\$4,031	\$4,466
Teachers	\$4,833	\$5,044	\$5,080	\$5,013	\$5,256	\$5,617	\$5,899	\$6,095	\$6,178	\$6,354	\$6,545	\$6,905	\$7,779	\$7,944	\$7,937	\$8,465
Total	\$13,149	\$13,458	\$14,079	\$14,318	\$15,290	\$15,934	\$16,425	\$17,034	\$17,699	\$17,578	\$18,698	\$19,203	\$22,452	\$22,440	\$23,492	\$25,885

## FTE Enrollment

FTE Series	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
In-District FTE Pupils	168	166	164	163	157	156	157	149	153	154	152	151	134	142	139	139
Out-of-District FTE Pupils	42	42	41	37	40	38	37	39	39	38	37	35	34	36	36	36
Total FTE	209	208	204	200	197	193	193	188	192	192	189	187	167	178	174	175

## NSS/Ch70 Funding Components (\$)

Component	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Ch70 Aid	\$545K	\$534K	\$517K	\$520K	\$528K	\$535K	\$539K	\$553K	\$560K	\$565K	\$572K	\$579K	\$586K	\$595K	\$617K	\$642K
Req NSS (adj)	\$854K	\$964K	\$958K	\$967K	\$990K	\$1.0M	\$1.0M	\$1.1M	\$1.0M	\$1.0M	\$1.0M	\$1.0M	\$1.1M	\$1.1M	\$1.1M	\$1.2M
Actual NSS (adj)	\$580K	\$527K	\$581K	\$582K	\$637K	\$644K	\$679K	\$729K	\$904K	\$948K	\$1.0M	\$1.0M	\$1.1M	\$1.2M	\$1.2M	\$825K
Total NSS	\$2.0M	\$2.0M	\$2.1M	\$2.1M	\$2.2M	\$2.2M	\$2.2M	\$2.3M	\$2.5M	\$2.5M	\$2.6M	\$2.7M	\$2.7M	\$2.8M	\$2.9M	\$2.6M

# Data: All Western MA Traditional Districts >500 Students

PPE (\$/pupil), FTE Enrollment, and NSS/Ch70 Funding (\$)

## PPE by Category (\$/pupil)

Category	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Other	\$649	\$759	\$925	\$702	\$808	\$868	\$736	\$803	\$792	\$813	\$926	\$934	\$1,344	\$1,350	\$1,659	\$1,734
Administration	\$453	\$496	\$457	\$514	\$505	\$547	\$550	\$562	\$562	\$549	\$509	\$548	\$573	\$618	\$681	\$718
Instructional Leadership	\$806	\$844	\$873	\$961	\$983	\$1,016	\$1,027	\$1,066	\$1,075	\$1,001	\$1,003	\$1,060	\$1,104	\$1,242	\$1,314	\$1,390
Operations and Maintenance	\$1,076	\$1,036	\$1,093	\$1,058	\$1,064	\$1,069	\$1,138	\$1,119	\$1,130	\$1,174	\$1,292	\$1,231	\$1,483	\$1,539	\$2,158	\$2,295
Other Teaching Services	\$1,030	\$1,036	\$1,111	\$1,111	\$1,159	\$1,207	\$1,266	\$1,314	\$1,323	\$1,358	\$1,463	\$1,490	\$1,584	\$1,755	\$1,968	\$2,106
Pupil Services	\$1,708	\$1,666	\$1,790	\$1,843	\$1,892	\$1,979	\$2,060	\$2,151	\$2,200	\$2,357	\$2,452	\$2,336	\$2,433	\$3,009	\$3,230	\$3,454
Insurance, Retirement Programs and Other	\$2,079	\$2,148	\$2,255	\$2,337	\$2,336	\$2,482	\$2,554	\$2,654	\$2,739	\$2,884	\$2,977	\$3,107	\$3,345	\$3,497	\$3,699	\$3,853
Teachers	\$4,916	\$4,716	\$4,787	\$4,873	\$5,023	\$5,095	\$5,229	\$5,412	\$5,438	\$5,615	\$5,872	\$6,059	\$6,552	\$6,899	\$7,172	\$7,430
Total	\$12,717	\$12,702	\$13,290	\$13,399	\$13,769	\$14,264	\$14,560	\$15,080	\$15,258	\$15,751	\$16,493	\$16,765	\$18,416	\$19,909	\$21,882	\$22,980

## FTE Enrollment

FTE Series	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
In-District FTE Pupils	2,703	2,672	2,653	2,603	2,578	2,547	2,515	2,482	2,493	2,480	2,412	2,390	2,299	2,310	2,260	2,331
Out-of-District FTE Pupils	235	246	250	253	260	262	283	300	308	319	328	333	342	340	341	355
Total FTE	2,938	2,918	2,903	2,857	2,838	2,809	2,797	2,782	2,802	2,799	2,741	2,723	2,640	2,650	2,600	2,686

## NSS/Ch70 Funding Components (\$)

Component	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Ch70 Aid	\$21.7M	\$21.3M	\$21.3M	\$22.1M	\$22.7M	\$23.3M	\$23.5M	\$24.0M	\$24.5M	\$25.1M	\$25.7M	\$27.4M	\$27.7M	\$29.0M	\$31.4M	\$34.0M
Req NSS (adj)	\$8.5M	\$11.3M	\$11.6M	\$11.5M	\$11.9M	\$12.2M	\$12.2M	\$12.4M	\$12.2M	\$12.2M	\$12.6M	\$12.8M	\$13.6M	\$13.3M	\$13.8M	\$14.5M
Actual NSS (adj)	\$2.8M	\$1.8M	\$2.6M	\$2.5M	\$2.6M	\$3.0M	\$3.4M	\$3.9M	\$4.5M	\$5.1M	\$5.5M	\$4.8M	\$5.2M	\$5.5M	\$5.9M	\$4.9M
Total NSS	\$33.1M	\$34.4M	\$35.5M	\$36.1M	\$37.2M	\$38.5M	\$39.2M	\$40.2M	\$41.2M	\$42.3M	\$43.8M	\$45.0M	\$46.6M	\$47.8M	\$51.0M	\$53.4M

# Data: ALPS Peer Districts Aggregate

PPE (\$/pupil), FTE Enrollment, and NSS/Ch70 Funding (\$)

## PPE by Category (\$/pupil)

Category	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Other	\$1,102	\$1,041	\$1,345	\$1,232	\$1,340	\$1,324	\$1,471	\$1,598	\$1,459	\$1,174	\$1,357	\$1,215	\$1,702	\$1,726	\$1,707	\$1,778
Administration	\$460	\$488	\$487	\$527	\$561	\$580	\$629	\$669	\$664	\$657	\$583	\$603	\$648	\$628	\$675	\$719
Instructional Leadership	\$726	\$759	\$732	\$808	\$809	\$864	\$867	\$893	\$898	\$873	\$948	\$943	\$970	\$1,027	\$1,075	\$1,193
Operations and Maintenance	\$1,102	\$1,079	\$1,091	\$1,033	\$1,035	\$1,089	\$1,150	\$1,201	\$1,192	\$1,182	\$1,273	\$1,254	\$1,483	\$1,406	\$1,613	\$1,765
Other Teaching Services	\$1,060	\$1,081	\$1,165	\$1,191	\$1,244	\$1,309	\$1,392	\$1,442	\$1,487	\$1,561	\$1,619	\$1,657	\$1,892	\$2,055	\$2,141	\$2,282
Pupil Services	\$1,483	\$1,496	\$1,524	\$1,525	\$1,617	\$1,702	\$1,787	\$1,868	\$1,965	\$2,087	\$2,133	\$2,089	\$2,251	\$2,652	\$2,855	\$3,057
Insurance, Retirement Programs and Other	\$2,015	\$2,048	\$2,038	\$2,112	\$2,122	\$2,320	\$2,411	\$2,524	\$2,597	\$2,832	\$2,961	\$3,101	\$3,330	\$3,409	\$3,572	\$3,822
Teachers	\$4,586	\$4,762	\$4,786	\$4,935	\$5,049	\$5,194	\$5,380	\$5,619	\$5,708	\$5,922	\$6,286	\$6,342	\$6,759	\$6,900	\$7,172	\$7,399
Total	\$12,534	\$12,753	\$13,168	\$13,363	\$13,778	\$14,383	\$15,088	\$15,815	\$15,969	\$16,289	\$17,161	\$17,204	\$19,035	\$19,801	\$20,809	\$22,015

## FTE Enrollment

FTE Series	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
In-District FTE Pupils	26,031	25,583	25,840	25,348	25,198	24,484	24,098	23,629	23,756	23,713	23,523	23,477	21,997	22,390	22,085	21,769
Out-of-District FTE Pupils	1,855	2,021	1,981	2,021	2,062	2,033	2,119	2,164	2,125	2,117	2,160	2,080	2,078	2,105	2,191	2,200
Total FTE	27,886	27,604	27,821	27,370	27,260	26,517	26,217	25,793	25,880	25,830	25,684	25,557	24,075	24,495	24,276	23,969

## NSS/Ch70 Funding Components (\$)

Component	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Ch70 Aid	\$8.4M	\$8.2M	\$8.0M	\$8.3M	\$8.6M	\$8.8M	\$8.9M	\$9.0M	\$9.1M	\$9.2M	\$9.3M	\$9.6M	\$9.7M	\$9.8M	\$10.5M	\$11.2M
Req NSS (adj)	\$13.8M	\$15.0M	\$14.9M	\$15.2M	\$15.7M	\$16.1M	\$16.2M	\$16.5M	\$16.3M	\$16.3M	\$16.6M	\$17.1M	\$17.5M	\$17.5M	\$18.2M	\$19.1M
Actual NSS (adj)	\$4.0M	\$3.5M	\$3.9M	\$4.3M	\$4.3M	\$4.3M	\$5.3M	\$6.1M	\$6.7M	\$8.2M	\$8.5M	\$8.5M	\$8.5M	\$9.7M	\$9.2M	\$9.4M
Total NSS	\$26.2M	\$26.7M	\$26.8M	\$27.8M	\$28.5M	\$29.3M	\$30.4M	\$31.5M	\$32.1M	\$33.7M	\$34.4M	\$35.2M	\$35.7M	\$37.0M	\$38.0M	\$39.7M

# Appendix C. Calculation Methodology

## Formulas and district memberships

### 1. Per-Pupil Expenditure (PPE) Definition

Per-pupil expenditure (PPE) is reported in the End of Year Report (EOYR) for municipal and regional districts, and is calculated by in-district FTE.

Per the DESE's Researcher's Guide, section XV. Using financial data:

*"The out-of-district total cannot be properly reported as a per-pupil expenditure because the cost of tuitions varies greatly depending on the reason for going out of district."*

### 2. Compound Annual Growth Rate (CAGR)

CAGR measures the mean annual growth rate over a specified time period, assuming constant growth.

**Formula:**  $\text{CAGR} = (\text{End\_Value} / \text{Start\_Value})^{(1 / \text{Years})} - 1$

**Example:** If expenditures grow from \$10,000 to \$12,000 over 5 years:

$$\text{CAGR} = (\$12,000 / \$10,000)^{(1/5)} - 1 = 1.2^{0.2} - 1 = 0.0371 = 3.71\% \text{ per year}$$

Note: CAGR requires positive values at both endpoints and is undefined if data is missing.

### 3. Aggregate District Calculations

**ALPS PK-12 Aggregate:** Weighted aggregation of member districts using enrollment-weighted per-pupil expenditures. This simulates the four towns of the Amherst-Pelham Regional District as a PK-12 unified district to support comparison with other PK-12 unified districts.

**Member districts:** Amherst, Amherst-Pelham, Leverett, Pelham, Shutesbury

**Weighted EPP Formula:**

For each category and year:  $\text{Weighted\_EPP} = \sum(\text{District\_EPP} \times \text{District\_In-District\_FTE}) / \sum(\text{District\_In-District\_FTE})$

**Example:** District A spends \$5,000/pupil (500 students), District B spends \$6,000/pupil (300 students)

$$\text{Weighted average} = (\$5,000 \times 500 + \$6,000 \times 300) / (500+300) = \$5,375/\text{pupil}$$

**Enrollment Calculation:** For each series (In-District FTE, Out-of-District FTE) and year: Sum across all member districts.

**PK-12 District Aggregate:** Weighted aggregation of selected peer districts (includes ALPS PK-12).

**Member districts:** ALPS PK-12, Easthampton, Longmeadow, Hampden-Wilbraham, East Longmeadow, South Hadley, Agawam, Northampton, Greenfield, Hadley

*Uses same weighted calculation method as ALPS PK-12.*

**All Western MA Traditional Districts ( $\leq 500$  students):** Weighted aggregation of 21 districts.

**Member districts:** Clarksburg, Conway, Deerfield, Erving, Farmington River Reg, Florida, Hancock, Hatfield, Hawlemont, Leverett, New Salem-Wendell, Pelham, Petersham, Ralph C Mahar, Richmond, and 6 others

*Uses same weighted calculation method as ALPS PK-12.*

**All Western MA Traditional Districts ( $> 500$  students):** Weighted aggregation of 40 districts.

**Member districts:** Agawam, Amherst, Amherst-Pelham, Athol-Royalston, Belchertown, Berkshire Hills, Central Berkshire, Chicopee, East Longmeadow, Easthampton, Frontier, Gateway, Gill-Montague, Granby, Greater Commonwealth Virtual District, Greenfield, Hadley, Hampden-Wilbraham, Holyoke, Hoosac Valley Regional, Lee, Lenox, Longmeadow, Ludlow, Mohawk Trail, Monson, Mount Greylock, North Adams, Northampton, Orange, Palmer, Pioneer Valley, Pittsfield, South Hadley, Southern Berkshire, Southwick-Tolland-Granville Regional School District, Springfield, Ware, West Springfield, Westfield

*Uses same weighted calculation method as ALPS PK-12.*

# Appendix C. Calculation Methodology (continued)

## 4. Red/Green Shading Logic (District Comparison Tables)

District pages include tables comparing each district's per-pupil expenditures (PPE) and growth rates (CAGR) to baseline aggregates (Western MA or ALPS Peers).

**Two independent tests determine shading:**

### Test 1 - Dollar Amount (2024 \$/pupil column):

Compares the district's 2024 PPE to the baseline's 2024 PPE using relative difference: (District – Baseline) / Baseline

- **Red shading:** District spending is  $\geq 2.0\%$  higher than baseline
- **Green shading:** District spending is  $\geq 2.0\%$  lower than baseline
- **No shading:** Difference is less than 2.0%

### Test 2 - CAGR (5y, 10y, 15y columns):

Compares the district's CAGR to the baseline's CAGR using absolute percentage point difference: District\_CAGR – Baseline\_CAGR

- **Red shading:** District CAGR is  $\geq 2.0$  percentage points higher than baseline
- **Green shading:** District CAGR is  $\geq 2.0$  percentage points lower than baseline
- **No shading:** Difference is less than 2.0 percentage points

**Key insight:** The tests are independent. A red 2024 \$/pupil with unshaded CAGRs typically means:

- The district started at a higher baseline 15 years ago, AND
- The district has been growing at roughly the same rate as peers
- Therefore it remains higher in absolute dollars but isn't growing faster

# Appendix C. Calculation Methodology (continued)

## 5. Chapter 70 Aid and Net School Spending (NSS) Calculations

Chapter 70 is Massachusetts' primary state aid program for K-12 education. Net School Spending (NSS) is the total amount a district spends on education from local and state sources.

### Data Sources:

- **Chapter 70 Aid (c70aid):** State aid received by the district (DESE profile\_DataC70 sheet)
- **Required NSS (rqnss2):** Minimum spending required by state law, adjusted (DESE profile\_DataC70 sheet)
- **Actual NSS (actualNSS):** Total district spending on education (DESE profile\_DataC70 sheet)

### Important Note:

NSS/Ch70 values are reported in **absolute dollars**, NOT per-pupil. Unlike PPE (which divides by in-district FTE), NSS/Ch70 values represent total district funding amounts.

### Stacked Components (bottom to top in plots):

1. **Ch70 Aid (\$):** c70aid
  - Green bar in plots • State funding received by district
2. **Req NSS (adj) (\$):** max(0, rqnss2 – c70aid)
  - Amber bar in plots • Required local contribution (after subtracting Ch70)
  - Uses max(0, ...) to handle rare cases where Ch70 > Required NSS
3. **Actual NSS (adj) (\$):** actualNSS – rqnss2
  - Purple bar in plots • Spending above minimum requirement
  - Represents discretionary local spending beyond state mandates

**Total NSS (\$):** Sum of all three components = actualNSS

### Example Calculation (Amherst, FY2024):

- Ch70 Aid: \$6,791,000
- Required NSS: \$18,859,000; Req NSS (adj): \$18,859,000 – \$6,791,000 = \$12,068,000
- Actual NSS: \$31,511,000; Actual NSS (adj): \$31,511,000 – \$18,859,000 = \$12,652,000
- Total NSS: \$6,791,000 + \$12,068,000 + \$12,652,000 = \$31,511,000

### Aggregate Calculation:

For aggregate districts (Western MA, ALPS Peers), sum dollar amounts across all member districts by year:

- Ch70 Aid (\$) =  $\Sigma(\text{District\_Ch70})$
- Same calculation method for Req NSS (adj) and Actual NSS (adj)

### Shading:

NSS/Ch70 comparison tables use the same red/green shading logic as PPE tables (2% dollar threshold, 2pp CAGR threshold).