



CB 61 and 62 APFO



**COUNTY COUNCIL
WORK SESSION**

OCTOBER 11, 2017



School Capacity Utilization & New Development Trends



**PREVIOUS DATA PRESENTED FROM
9-25-17 WORK SESSION NOW ALSO
SHOWING REGIONAL CAPACITIES**

ELEMENTARY SCHOOLS - CAPACITY UTILIZATION

Capacity (1)		Sept 2016 Enrollment (2)	
Columbia - East			% Util.
Cradlerock ES	398	457	114.8%
Jeffers Hill ES	421	455	108.1%
Phelps Luck ES	616	585	95.0%
Stevens Forest ES	399	398	99.7%
Talbot Springs ES	377	447	118.6%
Thunder Hill ES	509	558	109.6%
Region Totals	2,720	2,900	106.6%

Columbia - West			
Bryant Woods ES	361	379	105.0%
Clemens Crossing ES	521	531	101.9%
Longfellow ES	512	419	81.8%
Running Brook ES	515	470	91.3%
Swansfield ES	521	601	115.4%
Region Totals	2,430	2,400	98.8%

Northeastern			
Bellows Spring ES	751	667	88.8%
Deep Run ES	772	738	95.6%
Ducketts Lane ES	770	826	107.3%
Elkridge ES	760	817	107.5%
Ilchester ES	653	653	100.0%
Rockburn ES	653	636	97.4%
Veterans ES	788	861	109.3%
Waterloo ES	663	567	85.5%
Worthington ES	590	527	89.3%
Region Totals	6,400	6,292	98.3%

Northern			
Centennial Lane ES	647	739	114.2%
Hollifield Station ES	694	744	107.2%
Manor Woods ES	681	759	111.5%
Northfield ES	700	710	101.4%
St Johns Lane ES	612	701	114.5%
Waverly ES	638	707	110.8%
Region Totals	3,972	4,360	109.8%

Southeastern			
Atholton ES	424	435	102.6%
Bollman Bridge ES	666	665	99.8%
Forest Ridge ES	669	703	105.1%
Gorman Crossing ES	700	666	95.1%
Guilford ES	465	440	94.6%
Hammond ES	653	640	98.0%
Laurel Woods ES	640	541	84.5%
Region Totals	4,217	4,090	97.0%

Western			
Bushy Park ES	788	590	74.9%
Clarksville ES	612	430	70.3%
Dayton Oaks ES	788	621	78.8%
Fulton ES	788	832	105.6%
Lisbon ES	527	446	84.6%
Pointers Run ES	744	735	98.8%
Triadelphia Ridge ES	581	560	96.4%
West Friendship ES	414	326	78.7%
Region Totals	5,242	4,540	86.6%
Countywide Totals	24,981	24,582	98.4%

Sources:

- (1) From HCPSS 2017 Feasibility Study (pre-measure chart).
- (2) September 30, 2016 HCPSS Official Enrollments.

MIDDLE SCHOOLS - CAPACITY UTILIZATION

	Capacity (1)	Sept 2016 Enrollment (2)	
Columbia - East			
		% Util.	
Lake Elkhorn MS	643	530	82.4%
Oakland Mills MS	506	443	87.5%
Region Totals	1,149	973	84.7%
Columbia - West			
Harpers Choice MS	506	570	112.6%
Wilde Lake MS	760	556	73.2%
Region Totals	1,266	1,126	88.9%
Northeastern			
Bonnie Branch MS	662	713	107.7%
Elkridge Landing MS	779	700	89.9%
Ellicott Mills MS	662	829	125.2%
Mayfield Woods MS	798	685	85.8%
Thomas Viaduct MS	701	633	90.3%
Region Totals	3,602	3,560	98.8%
Northern			
Burleigh Manor MS	779	819	105.1%
Dunloggin MS	565	617	109.2%
Patapsco MS	643	687	106.8%
Region Totals	1,987	2,123	106.8%
Southeastern			
Hammond MS	604	593	98.2%
Murray Hill MS	662	669	101.1%
Patuxent Valley MS	760	639	84.1%
Region Totals	2,026	1,901	93.8%
Western			
Clarksville MS	643	560	87.1%
Folly Quarter MS	662	616	93.1%
Glenwood MS	545	517	94.9%
Lime Kiln MS	701	729	104.0%
Mount View MS	798	792	99.2%
Region Totals	3,349	3,214	96.0%
Countywide Totals	13,379	12,897	96.4%

Sources:

(1) From HCPSS 2017 Feasibility Study (pre-measure chart).

(2) September 30, 2016 HCPSS Official Enrollments.

HIGH SCHOOLS - CAPACITY UTILIZATION

	Capacity (1)	Sept 2016 Enrollment (2)	
Columbia - East			
Oakland Mills HS	1,400	1,174	83.9%
Region Totals	1,400	1,174	83.9%
Columbia - West			
Wilde Lake HS	1,424	1,248	87.6%
Region Totals	1,424	1,248	87.6%
Northeastern			
Howard HS	1,420	1,837	129.4%
Long Reach HS	1,488	1,554	104.4%
Region Totals	2,908	3,391	116.6%
Northern			
Centennial HS	1,360	1,511	111.1%
Marriotts Ridge HS	1,615	1,264	78.3%
Mt. Hebron HS	1,400	1,582	113.0%
Region Totals	4,375	4,357	99.6%
Southeastern			
Hammond HS	1,220	1,300	106.6%
Region Totals	1,220	1,300	106.6%
Western			
Atholton HS	1,360	1,456	107.1%
Glenelg HS	1,420	1,207	85.0%
Reservoir HS	1,551	1,481	95.5%
River Hill HS	1,488	1,154	77.6%
Region Totals	5,819	5,298	91.0%
Countywide Totals	17,146	16,768	97.8%

Sources:

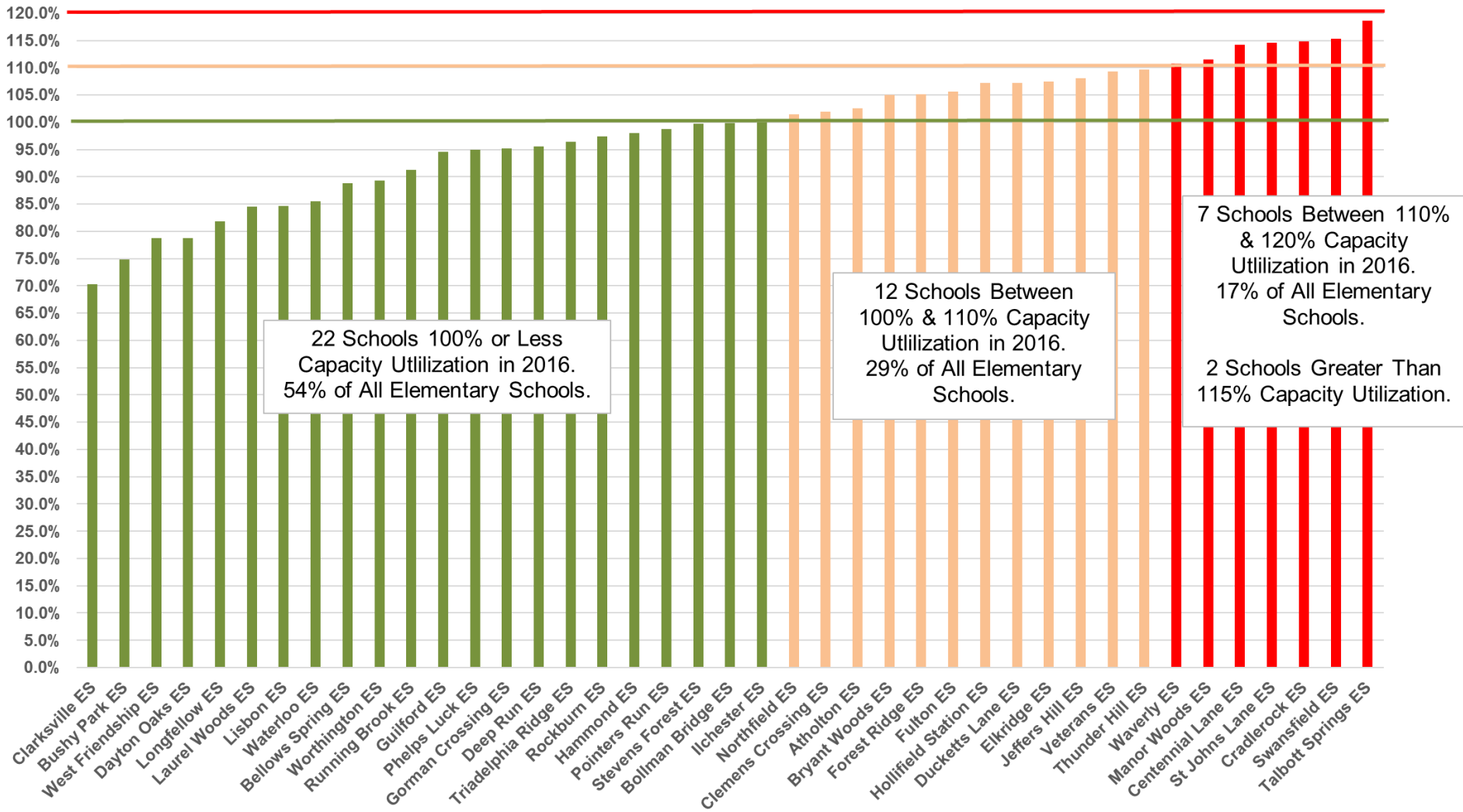
- (1) From HCPSS 2017 Feasibility Study (pre-measure chart).
- (2) September 30, 2016 HCPSS Official Enrollments.

School Capacity Utilization & New Development Trends



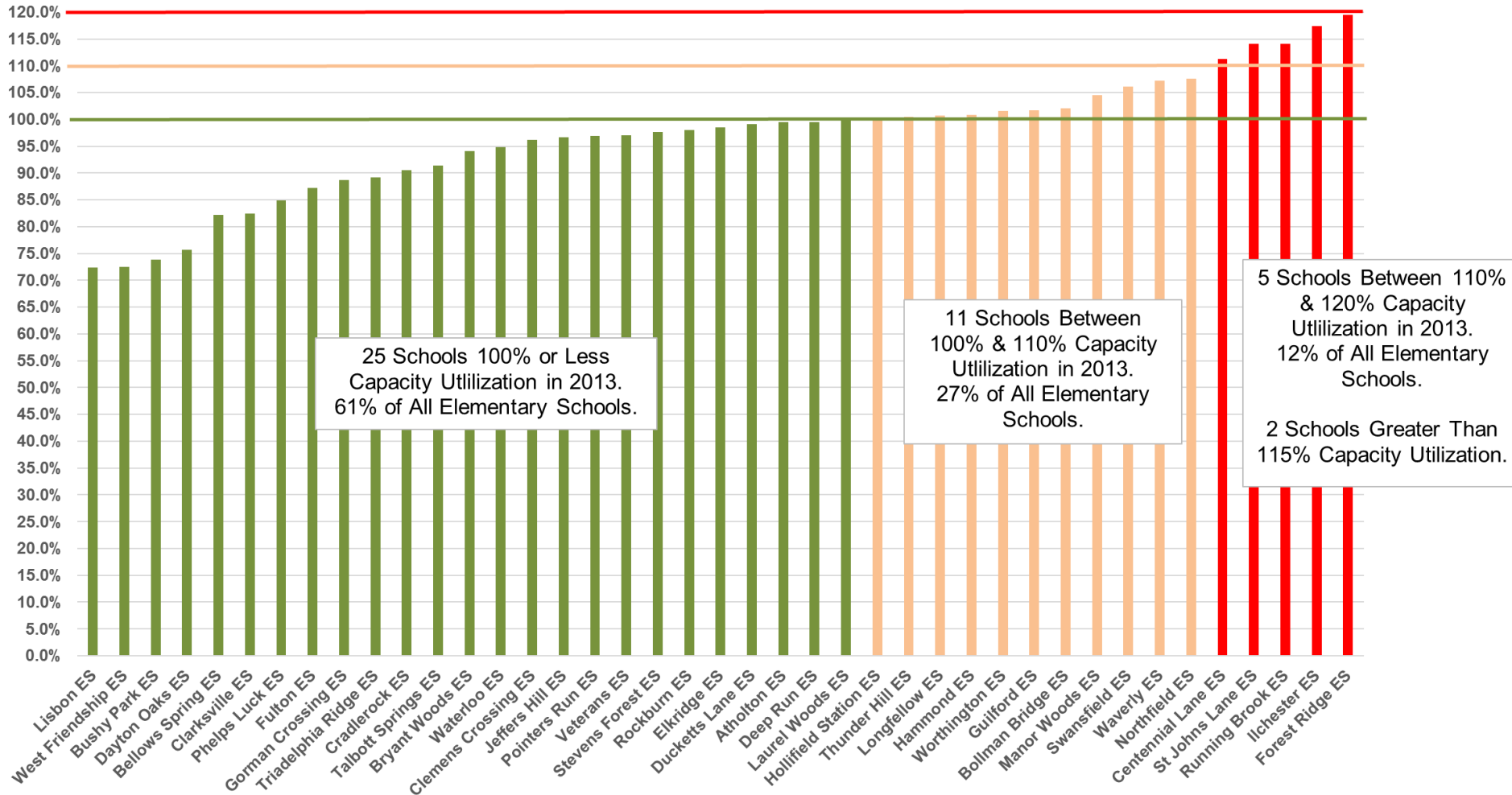
**PREVIOUS CHARTS PRESENTED FOR
9-25-17 WORK SESSION, BUT NOW
ALSO SHOWING 2013 CAPACITY
UTILIZATION FOR ELEMENTARY
SCHOOLS**

2016 Actual Elementary School Capacity Utilization



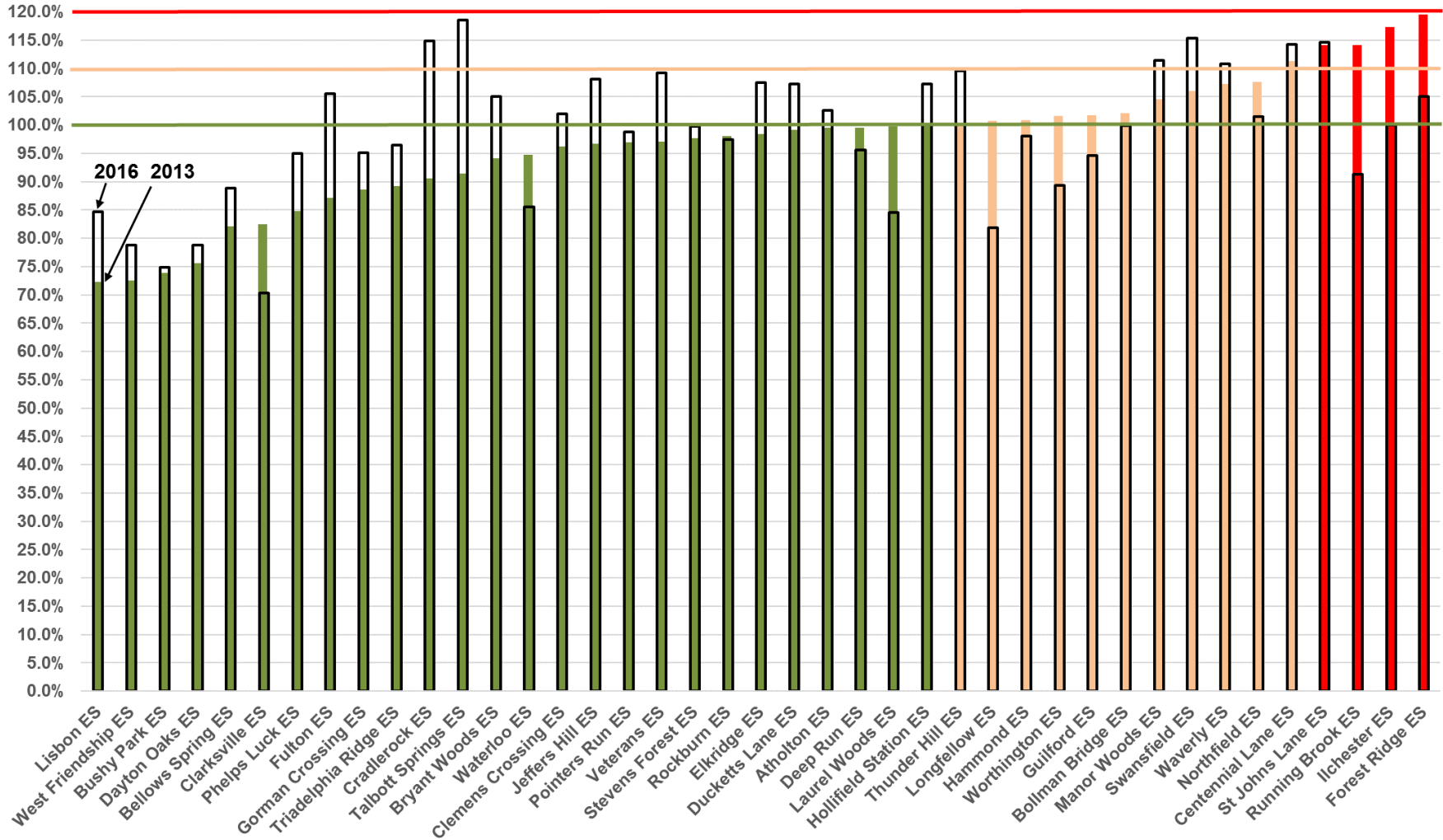
Sources: School capacities from HCPSS 2017 Feasibility Study (pre-measure chart). Enrollments from September, 2016 HCPSS Official Enrollments.

2013 Actual Elementary School Capacity Utilization



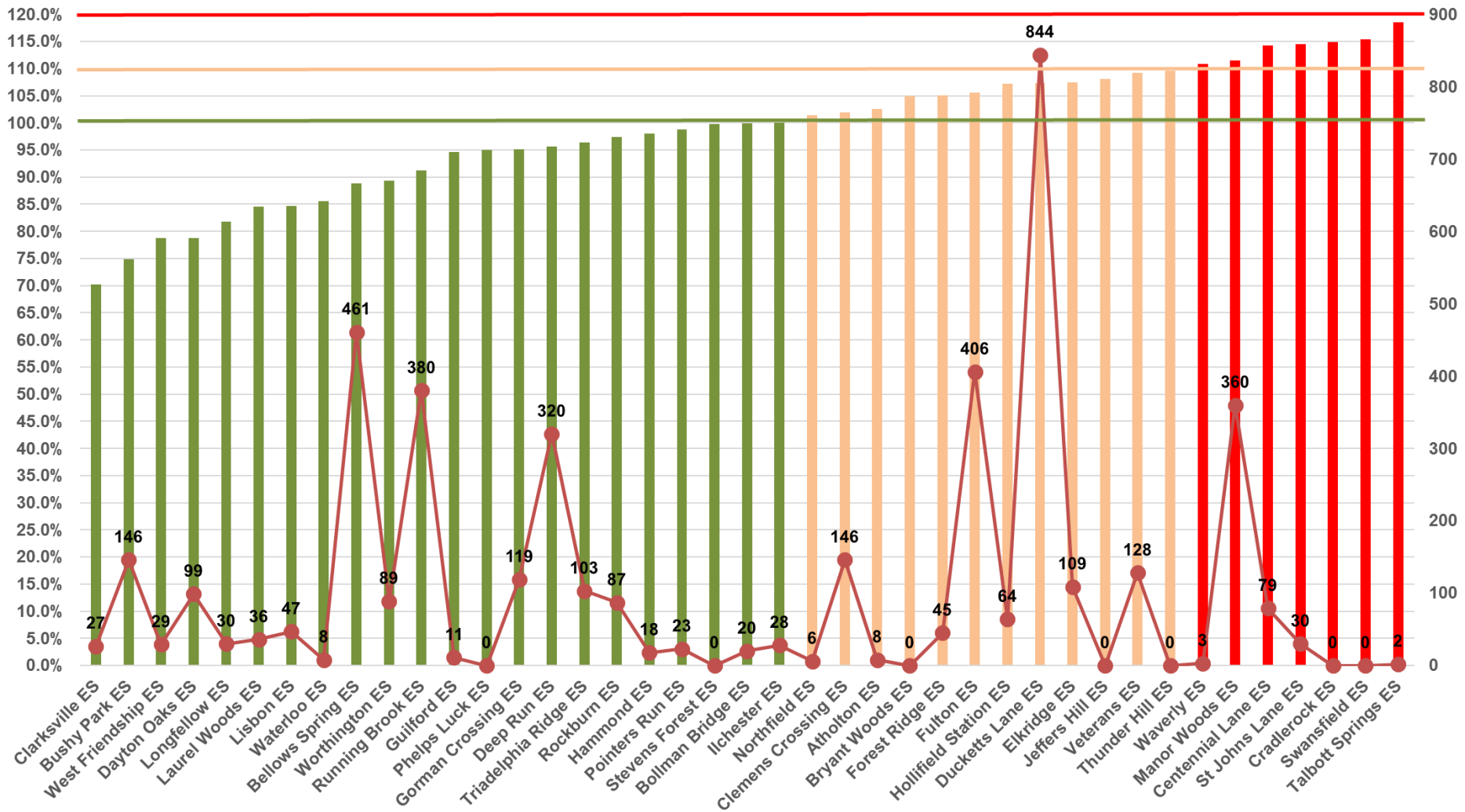
Sources: From HCPSS requested 2013 capacity data on 10/08/2017. Enrollments from September, 2013 HCPSS Official Enrollments.

2013 vs. 2016 Actual Elementary School Capacity Utilization



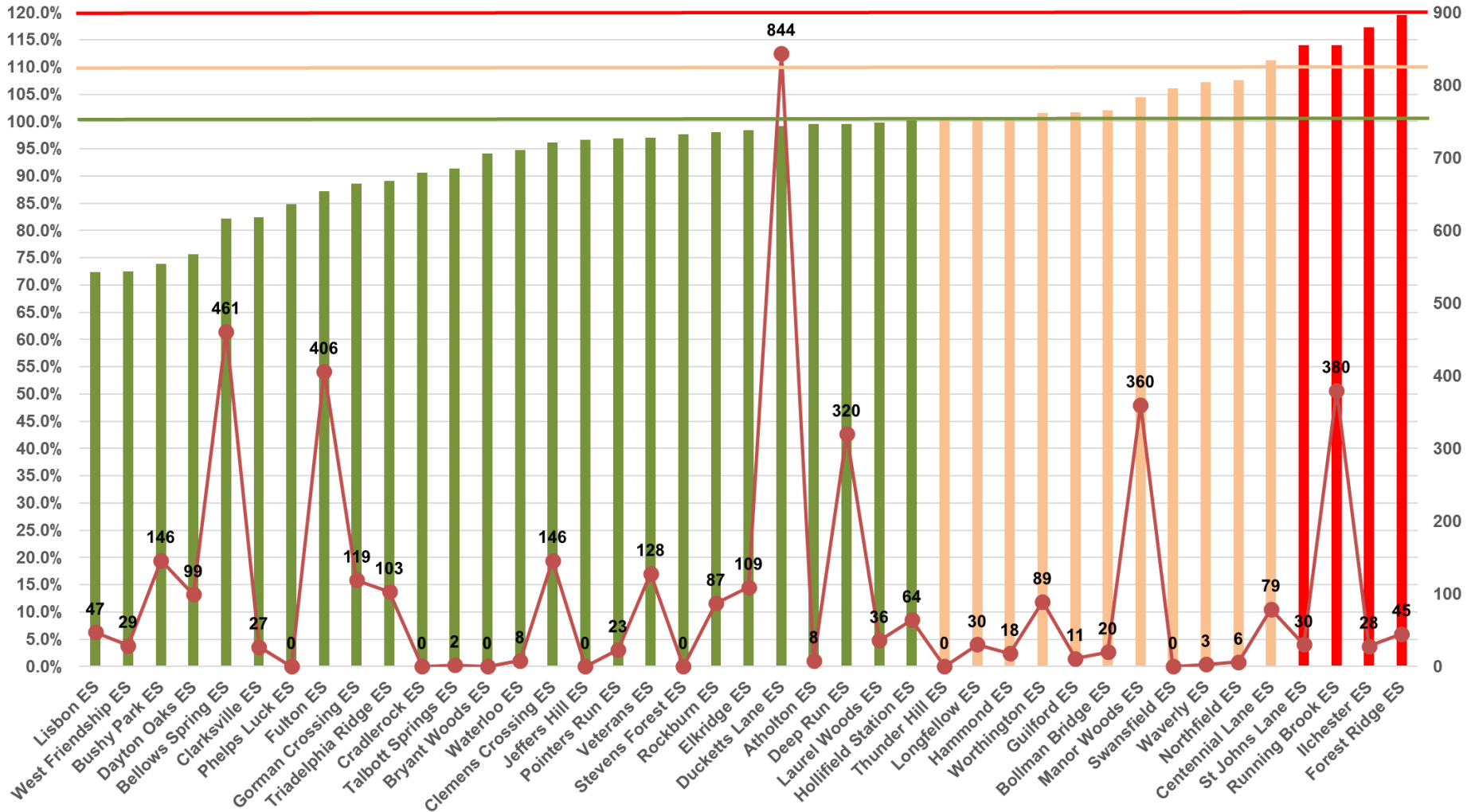
Sources : From HCPSS requested 2013 capacity data on 10/08/2017. Enrollments from September, 2013 and 2016 HCPSS Official Enrollments.

2016 Actual Elementary School Capacity Utilization & Number of Residential Units Built in Previous 3 Years (Oct. '13 through Sept. '16)



Sources: School capacities from HCPSS 2017 Feasibility Study (pre-measure chart). Enrollments from September, 2016 HCPSS Official Enrollments. Residential units built from DPZ Research Division.

2013 Actual Elementary School Capacity Utilization & Number of Residential Units Built in Next 3 Years (Oct. '13 through Sept. '16)



Sources: School capacities from HCPSS 2014 Feasibility Study (pre-measure chart). Enrollments from September, 2013 HCPSS Official Enrollments. Residential units built from DPZ Research Division.

Capital Spending



**INCREASING DOLLARS BEING
SPENT ON SCHOOL RENOVATIONS
AND REPLACEMENTS (SHOWING
ACTUAL DOLLAR AMOUNTS
INSTEAD OF PERCENTAGES)**

Howard County Public School System Capital Funding (X \$1,000) (1)

Fiscal Year (2)	Replacement		Renovation/			Total
	New	+ Seats	Addition	Addition	Renovation	
2007	37,797	0	10,669	11,901	19,633	80,000
2008	8,419	0	9,631	14,352	31,598	64,000
2009	1,191	0	9,574	8,349	27,887	47,000
2010	11	0	2,791	13,526	34,672	51,000
2011	836	0	4,380	8,527	35,257	49,000
2012	2,366	0	1,212	1,019	48,403	53,000
2013	23,035	0	3,897	420	59,648	87,000
2014	28,695	775	4,764	1,016	39,751	75,000
2015	8,629	2,303	8,916	9,428	42,724	72,000
2016	3,691	22,952	3,198	10,683	31,475	72,000
Total	114,670	26,030	59,031	79,221	371,048	650,000
2017	14,526	14,285	0	20,311	20,834	69,956
2018	23,958	2,000	0	23,303	34,250	83,511
2019	17,082	0	0	1,500	62,928	81,510
2020	40,630	0	0	3,557	32,200	76,387
2021	47,366	0	0	25,703	17,000	90,069
2022	58,625	0	0	7,136	21,686	87,447
2023	33,449	0	544	0	50,575	84,568
2024	5,380	0	5,404	0	71,409	82,193
2025	23,099	0	0	0	64,793	87,892
2026	23,286	0	0	0	64,927	88,213
2027	24,576	0	0	0	63,169	87,745
Total	311,977	16,285	5,948	81,510	503,771	919,491
Grand Total	426,647	42,315	64,979	160,731	874,819	1,569,491

(1) Capital dollars include individual project lines (renovations, additions, new schools, replacement schools renovations/additions), roofs, systemic renovations, Full Day K. Does not include projects grouped by type (barrier free, playgrounds, relocatables, site technology, parking lots, planning/design etc.), specific needs (MBR, etc.) special schools (Cedar Lane, etc.)

(2) FY 2007 through FY 2016 are actual expenditures, FY 2007 is funded amount and FY 2018 through FY2027 are funds requested in the Proposed FY2018 Capital Budget.

Source: Howard County Public School System, September, 2016

Average Size of Housing Units



ANALYSIS OF DATA PROVIDED FROM THE DEPARTMENT OF INSPECTIONS, LICENSES & PERMITS

Average Square Feet per New Residential Unit Built (2014 through Sept 2017) in Howard County

Unit Type	East	Rural West	Entire County
Single Family Detached	4,774	7,327	5,465
Townhouse	2,586	NA	2,586
Rental and Condo Apts	1,458	NA	1,458
Avg. All Units	3,498	7,327	4,018

Source: Howard County Department of Inspections, Licenses and Permits

Number of New Residential Units Built (2014 through Sept 2017) in Howard County

Unit Type	East	Rural West	Total County	Avg. # of Units Built per Year
Single Family Detached	1,415	525	1,940	517
Townhouse	1,882	0	1,882	502
Rental and Condo Apts	2,793	0	2,793	745
Avg. All Units	6,090	525	6,615	1,764

Source: Howard County Department of Inspections, Licenses and Permits

Average Public School Facilities Surcharge Collected per Unit (\$1.29 per SF for FY18)

Based on Above Averages

Unit Type	East	Rural West	Entire County
Single Family Detached	\$6,158	\$9,452	\$7,050
Townhouse	\$3,336	NA	\$3,336
Rental and Condo Apts	\$1,881	NA	\$1,881
Avg. All Units	\$4,512	\$9,452	\$5,183

Average Road Excise Tax Collected per Unit (\$1.18 per SF for FY18)

Based on Above Averages

Unit Type	East	Rural West	Entire County
Single Family Detached	\$5,633	\$8,646	\$6,449
Townhouse	\$3,051	NA	\$3,051
Rental and Condo Apts	\$1,720	NA	\$1,720
Avg. All Units	\$4,128	\$8,646	\$4,741

Average Public School Facilities Surcharge & Road Excise Tax Collected per Unit (Sum of two tables above)

Based on Above Averages

Unit Type	East	Rural West	Entire County
Single Family Detached	\$11,792	\$18,098	\$13,499
Townhouse	\$6,387	NA	\$6,387
Rental and Condo Apts	\$3,601	NA	\$3,601
Avg. All Units	\$8,640	\$18,098	\$9,924

Apples to Apples Impact Fee comparisons



**FROM COUNTY AUDITOR'S OFFICE
USING HOWARD COUNTY AVERAGE
SQUARE FEET PER UNIT FROM DILP**

County By County Impact / Excise Tax Comparison

Single Family Detached 4,774 Sq Ft		
County		
Montgomery	39,399.00	1
Queen Anne's	23,679.04	
Prince George's	23,007.00	
Charles	16,206.00	
Anne Arundel	16,153.00	
Frederick	15,515.00	
Calvert	12,950.00	
Howard East	\$ 11,791.78	
Talbot	7,427.00	2
Harford	6,000.00	
St. Mary's	5,500.00	
Caroline	5,000.00	
Washington	4,774.00	
Carroll	533.00	
Dorchester	-	
Wicomico	-	3

Townhouse 2,586 Sq Ft		
County		
Montgomery	35,509.00	1
Prince George's	23,007.00	
Charles	16,206.00	
Frederick	15,697.00	
Anne Arundel	13,974.00	
Calvert	12,950.00	
Queen Anne's	12,826.56	
Howard East	\$ 6,387.42	
St. Mary's	5,500.00	
Talbot	5,398.00	2
Caroline	5,000.00	
Harford	4,200.00	
Washington	2,586.00	
Carroll	604.00	
Dorchester	-	
Wicomico	-	3

Rental / Condo Apt 1,458 Sq Ft		
County		
Montgomery	28,710.00	1
Prince George's	23,007.00	
Charles	16,206.00	
Calvert	12,950.00	
Anne Arundel	9,975.00	
Queen Anne's	7,231.68	
Frederick	6,676.00	
St. Mary's	5,500.00	
Talbot	5,398.00	2
Caroline	5,000.00	
Howard East	\$ 3,601.26	
Washington	1,458.00	
Harford	1,200.00	
Carroll	530.00	
Dorchester	-	
Wicomico	-	3

Note:

- 1 *Montgomery \$2/sq ft over 3,500, used Low Rise for Apt and Average for Transportation Impact Fee*
- 2 *Talbot Used Impact Fees Outside Municipalities*
- 3 *Wicomico removed the Impact Fee January 2, 2017*

County By County Impact / Excise Tax Comparison

County	Single Family Detached 7,327 Sq Ft	
Montgomery	44,505.00	1
Queen Anne's	36,341.92	
Prince George's	23,007.00	
Howard Rural West	\$ 18,097.69	
Anne Arundel	17,885.00	
Charles	16,206.00	
Frederick	15,515.00	
Calvert	12,950.00	
Talbot	7,427.00	2
Washington	7,327.00	
Harford	6,000.00	
St. Mary's	5,500.00	
Caroline	5,000.00	
Carroll	533.00	
Dorchester	-	
Wicomico	-	3

County	Townhouse 3,425 Sq Ft	
Montgomery	35,509.00	1
Prince George's	23,007.00	
Queen Anne's	16,988.00	
Charles	16,206.00	
Frederick	15,697.00	
Anne Arundel	14,793.00	
Calvert	12,950.00	
St. Mary's	5,500.00	
Talbot	5,398.00	2
Caroline	5,000.00	
Harford	4,200.00	
Howard Rural West	\$ 3,427.47	
Washington	3,425.00	
Carroll	604.00	
Dorchester	-	
Wicomico	-	3

Note:

- 1 *Montgomery \$2/sq ft over 3,500, used **Low Rise** for Apt and **Average** for Transportation Impact Fee*
- 2 *Talbot Used Impact Fees **Outside Municipalities***
- 3 *Wicomico removed the Impact Fee January 2, 2017*