



**BOARD OF EDUCATION OF HOWARD COUNTY
MEETING AGENDA ITEM**

TITLE: Attendance Area Adjustment Plans **DATE:** October 20, 2011

PRESENTER(S): Joel Gallihue, Manager, School Planning
Ken Roey, Executive Director, Facilities, Planning, and Management

OVERVIEW:

This document contains redistricting recommendations for the school year. Redistricting is recommended at the elementary school level, involving the following schools: Atholton Elementary School, Bollman Bridge Elementary School, Dayton Oaks Elementary School, Forest Ridge Elementary School, Fulton Elementary School, Gorman Crossing Elementary School, Guilford Elementary School, Hammond Elementary School, Laurel Woods Elementary School, and Pointers Run Elementary School.

This recommendation follows the June 2011 Feasibility Study and evaluation by the 2011 Attendance Area Adjustment Committee. The annual Feasibility Study is a study of long term capital planning and redistricting options. The Attendance Area Adjustment Committee is appointed in conformity with Policy 6010 to provide advice and comment during the development of capital budget and redistricting recommendations. Taken as a whole, this review process includes short-term and long-term considerations and allows system-wide needs and options to be discussed in a transparent manner.

RECOMMENDATION/FUTURE DIRECTION:

Following a series of public hearings and work sessions beginning on November 3, 2011, the Board will be asked to approve the 2012-2013 attendance area adjustments on November 17, 2011.

Submitted by:	Ken Roey, Executive Director Facilities Planning and Mgmt	Approval/Concurrence:	Sydney L. Cousin Superintendent
	Joel Gallihue, Manager School Planning		Mamie Perkins Deputy Superintendent
			Raymond H. Brown Chief Operating Officer

Attendance Area Adjustments

Staff Recommendations

Effective Date: School Year 2012–2013

October 2011

Howard County Board of Education

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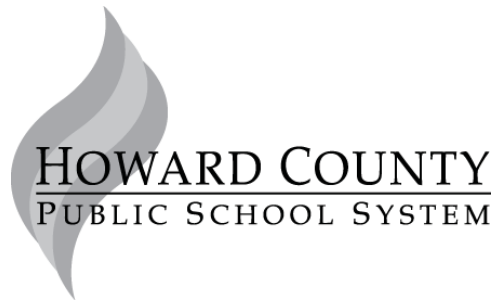
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October 20, 2011

To: Board of Education Members

From: Sydney L. Cousin, Superintendent

A handwritten signature in black ink that reads "S. L. Cousin".

Subject: Attendance Area Adjustments: Recommendations

This document contains my redistricting recommendations for the school year 2012–2013. Redistricting is recommended at the elementary school level, involving the following schools: Atholton ES, Bollman Bridge ES, Dayton Oaks ES, Forest Ridge ES, Fulton ES, Gorman Crossing ES, Guilford ES, Hammond ES, Laurel Woods ES, and Pointers Run ES.

This recommendation follows the June 2011 Feasibility Study and evaluation by the 2011 Attendance Area Committee. The annual Feasibility Study is a study of long term capital planning and redistricting options. The Attendance Area Committee is appointed by me per Policy 6010 to provide advice and comment during the development of capital budget and redistricting recommendations. Taken as a whole, this review process includes short-term and long-term considerations and allows system-wide needs and options to be discussed in a transparent manner.

I want to thank each member of the Attendance Area Committee for giving up personal time to help shape a redistricting strategy that serves the entire county. I also thank the members of the public who provided input through calls, written correspondence, or by speaking at meetings.

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I. Introduction

Each year the Board of Education (BOE) reviews capital planning options and redistricting scenarios through a feasibility study. This document was published in June 2011 and is available for reference on the Howard County Public School System (HCPSS) website. The annual student enrollment projections were introduced in this report along with scenarios that are intended to provide a comprehensive look at suggested capital additions and any redistricting or attendance area adjustments that are anticipated within the ten-year Capital Improvement Program (CIP) period. Plans examined in the feasibility study may only be implemented through approval of the Capital Budget and changes to current school attendance areas. This report provides final staff recommendations of redistricting decisions to be made for this year. It also summarizes feedback given by the Attendance Area Committee (AAC) and by members of the general public on the long range plan.

This document contains recommendations for attendance area adjustment decisions this year that would take effect in August 2012.

The conditions which have influenced past enrollment projections may change. New plans may be needed to react to population shifts or new residential development plans. Staff returns to the Board each year with a new projection and an adjusted long range plan in the feasibility study. Redistricting proposals are not certain until approved by the Board of Education.

Data in this document are presented using a pre-and post-measures format. The pre-measures format shows the effect of projected enrollment without any redistricting, coupled with FY12 Capital Budget projects as approved. The post-measures format shows the impact of projected enrollment within the redistricting plan and includes capital projects recommended in the Board of Education's Proposed FY13 Capital Budget. If these projects are not approved, other plans must be developed.

II. Executive Summary

This Attendance Area Adjustment report presents recommendations for decisions this year that would take effect in August 2012. The proposed elementary redistricting plan includes the polygons shown in Table 1 and will move an estimated 1,220 students, or 5.4 percent of current elementary enrollment. This plan would improve capacity utilization in the southeast region by drawing some western attending areas eastward. This concept has been under discussion in feasibility study documents for a number of years. The final recommendation balances the use of available capacity with transportation considerations like distance traveled and maintenance of walk areas. The plan allows the need for New Elementary School #42 to be delayed to 2019 or later. Table 1 presents the recommendation by polygons and estimated number of students in 2012. The pre- and post-measures charts show long term impact to capacity utilization. The assessment charts evaluate particular considerations from policy. Staff believes this plan successfully balances capacity without substantial negative impact to other considerations in policy.

Table 1. 2012 Redistricting Recommendation			
Sending	Receiving	Polygons	# Students
Atholton ES	Hammond ES	17, 18, 1017, 1018	211
Bollman Bridge ES	Guilford ES	27, 1027	53
Forest Ridge ES	Bollman Bridge ES	260, 1260	89
Fulton ES	Dayton Oaks ES	119, 194, 1119, 1194	94
Fulton ES	Pointers Run ES	112, 114, 117, 122, 125, 126, 296, 1114, 1115, 1117, 1125, 1259, 1296, 2112, 2114, 2115, 3115	287
Gorman Crossing ES	Fulton ES	7, 1007	104
Guilford ES	Atholton ES	15	78
Guilford ES	Hammond ES	1015	36
Hammond ES	Fulton ES	8, 221, 1008, 1221, 1227, 2221	199
Laurel Woods ES	Bollman Bridge ES	1, 1001	53
Laurel Woods ES	Forest Ridge ES	12	16
		Total	1220

Redistricting recommendations are made in the context of a comprehensive long range plan that is adjusted each year in the feasibility study. This stage of redistricting would be decided November 17, 2011 and become effective in August 2012. Staff intends to follow with additional redistricting recommendations in 2013 and later. Elementary redistricting to open New Elementary School #41 will be considered for 2013, with the next phase of redistricting planned for 2014 to open the new middle school (if funding is approved). The 2012 Feasibility Study will present a more detailed discussion of these plans, which will not be finalized until Board of Education approval in succeeding years.

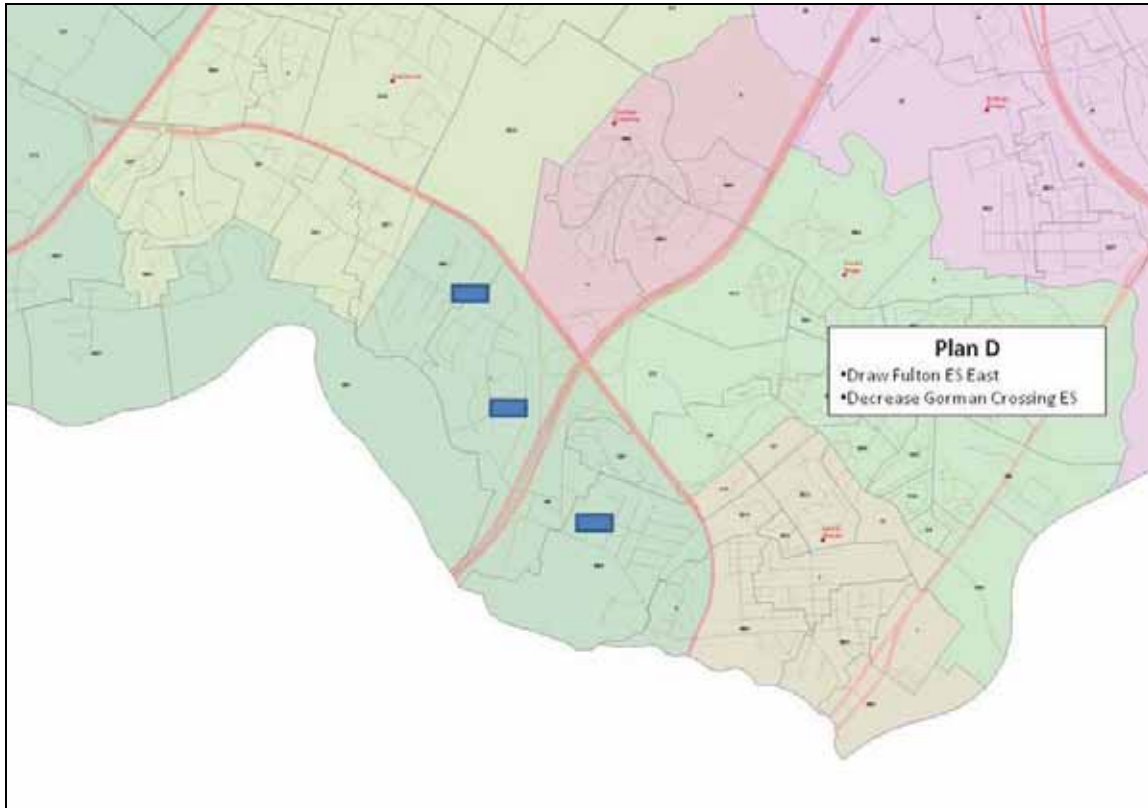
III. 2011 Attendance Area Committee Process

The AAC is comprised of no more than 12 members, and includes residents from each of the HCPSS planning areas, one student representative, and the staff facilitators from the Office of School Planning. Applications to be on the committee are accepted every spring and an interview process in accordance with Policy 6010 is used to recommend members to the Superintendent. Advertisements were made through the HCPSS News electronic communication system and printed in the Baltimore Sun and Patuxent Publishing newspapers. Members of the committee were selected from a pool of 27 candidates this year.

The 2011 AAC was first convened on June 28, 2011, and 10 meetings were held through August 30, 2011, with all meetings open to the public. Meeting summaries have been posted to the HCPSS website. Citizens were able to share ideas through a suggestion box or by email (to boundary@hcpss.org) and the correspondence to the committee was discussed at the meetings. Over 100 calls or emails came to either the AAC or the Board and Superintendent. Approximately 200 people attended the regional meetings and most of them had a chance to ask a question or make a point.

A. Learning the Process

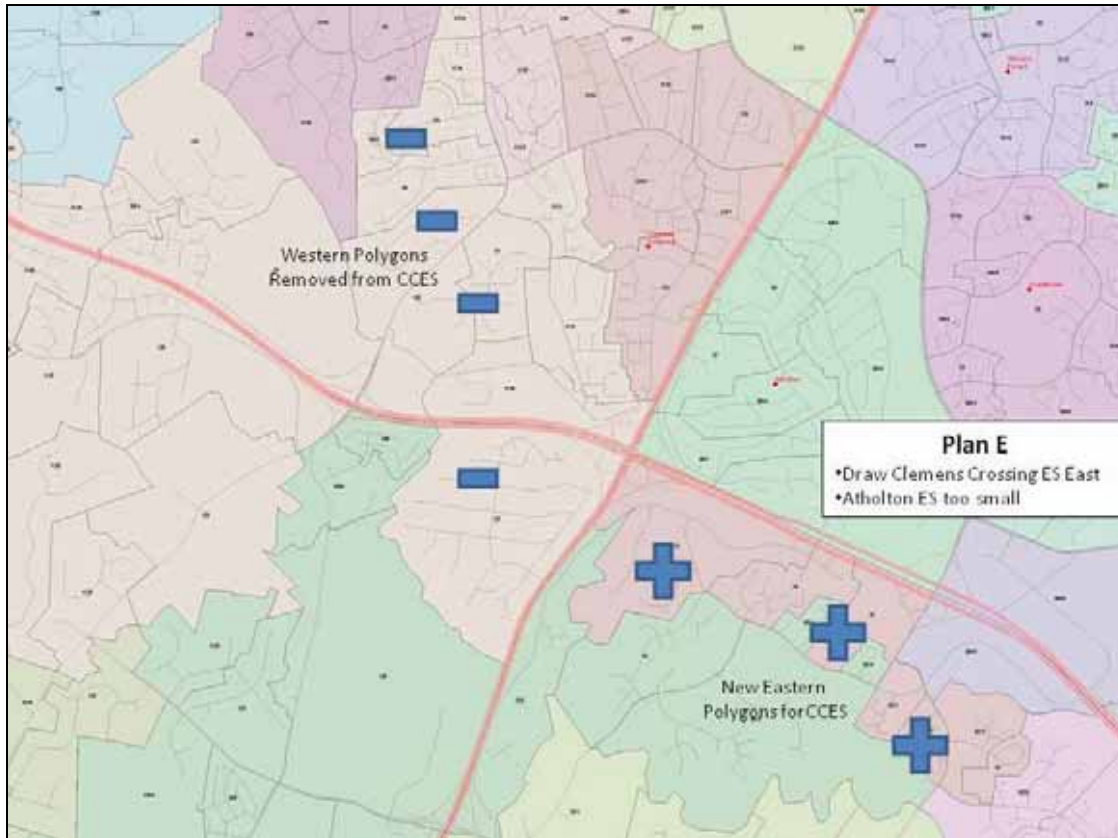
In order for the Attendance Area Committee to be effective in making suggestions staff trained the group using presentations and group exercises. The meetings on June 28, 2011 and July 5, 2011 included only presentations with questions and answers. On July 12, 2011, the group began trying to develop redistricting scenarios working in small groups. Plans developed in these sessions (plans A-C) were focused on specific schools. These plans are better described as exercises since they were not comprehensive.



By July 19, 2011 the group was trying to develop comprehensive plans. Plan D focused on relief to Gorman Crossing ES and showed the importance of Fulton ES in any redistricting scenario that relieves any southeast school with capacity in the west. Fulton ES is central to any effort which would extend attending areas from underutilized schools towards the crowded schools. The MD 216 and MD 32 road corridors are important east-west routes for these changes. Areas south of this road could be reassigned to Fulton ES. This allows the crowded schools to the north and east to have smaller attending areas. The western boundary of a central school like Fulton ES would be contracted allowing western schools to share the burden. Sometimes such a plan is referred to as “domino” or “cascade.” An important consideration to such plans is that the central school in the plan will see significant change to both its eastern and western boundary. Plan D would move 498 students or 2 percent of county-wide elementary enrollment. This plan improved utilization at some schools but did not address others. This scenario demonstrated that a more comprehensive strategy was needed and that the “domino” concept could work.

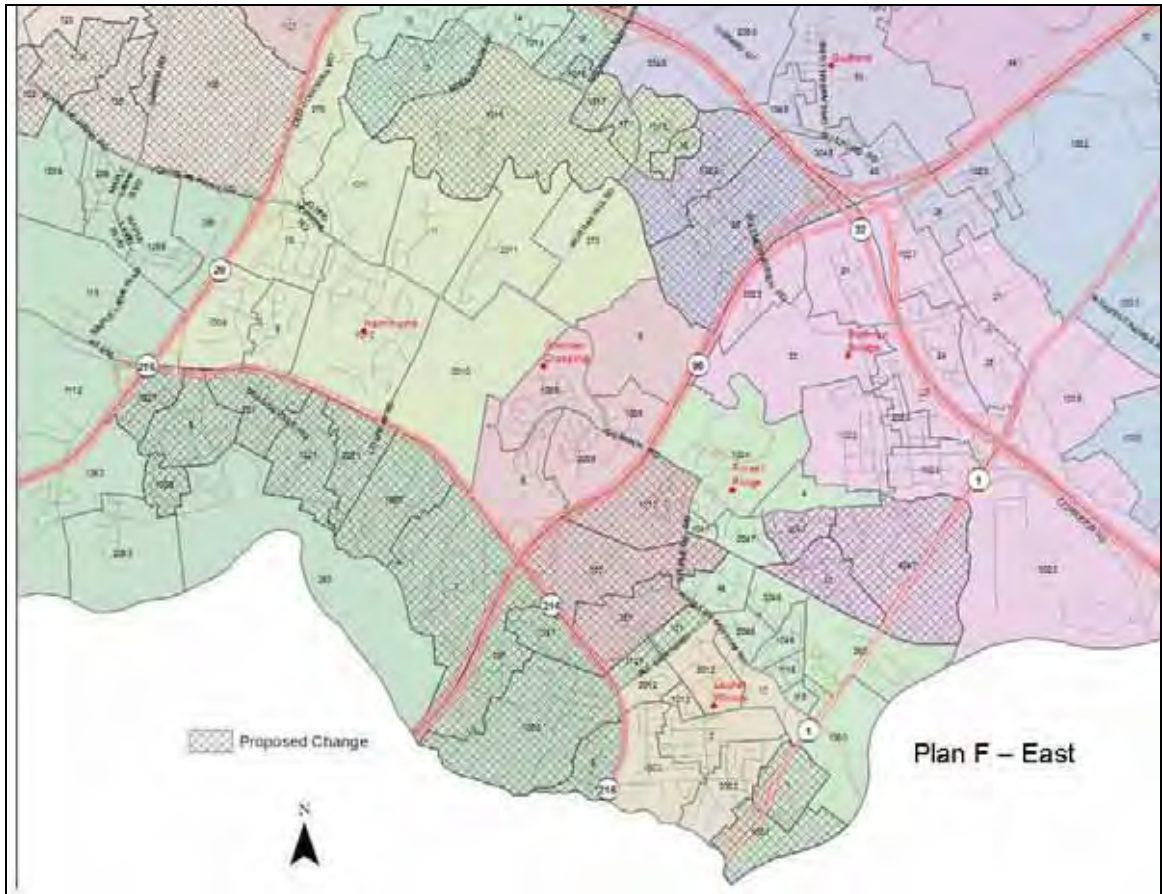
B. Developing Alternate Strategies

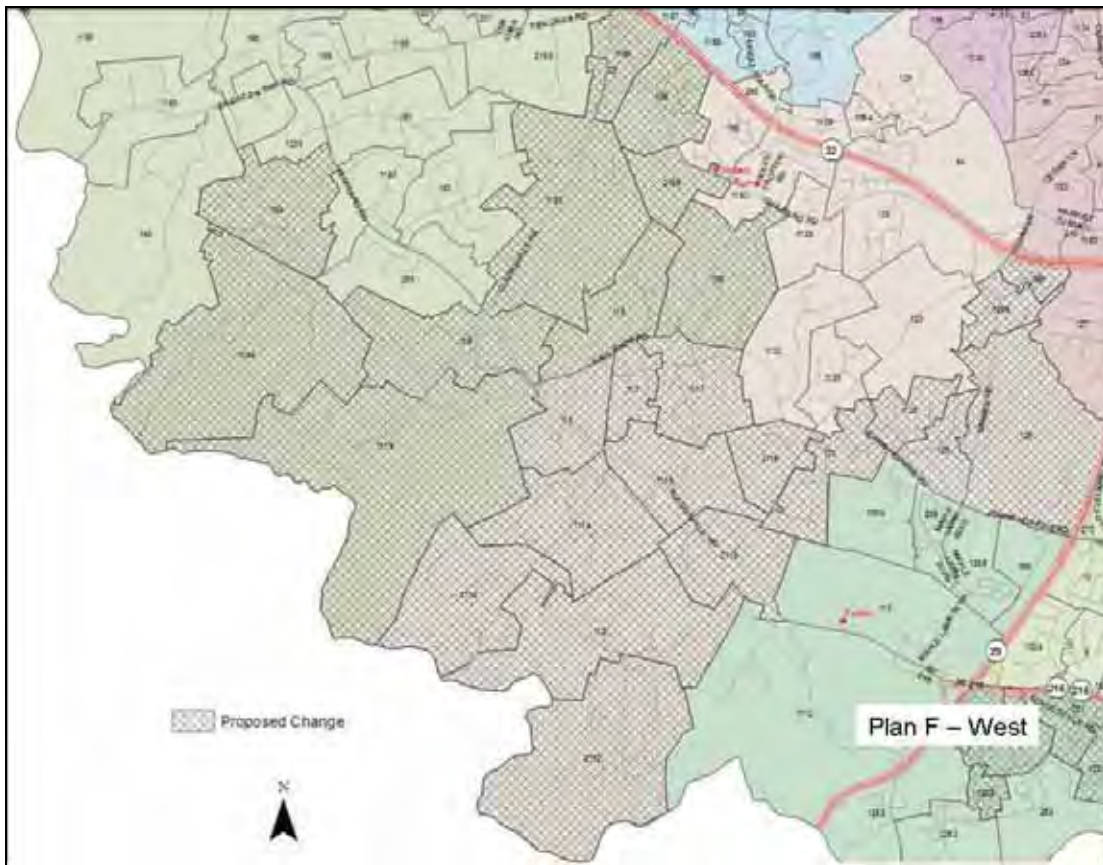
Plan E involved more schools and introduced the concept of using Clemens Crossing ES as another central school in the plan. In this case, MD 32 would be an east-west route for the redistricting. This plan actually made the Atholton ES attending area too small with a projected utilization of 49-62 percent. While the plan did not resolve crowding at all of the schools in the southeastern region, it validated some ideas for improvement.



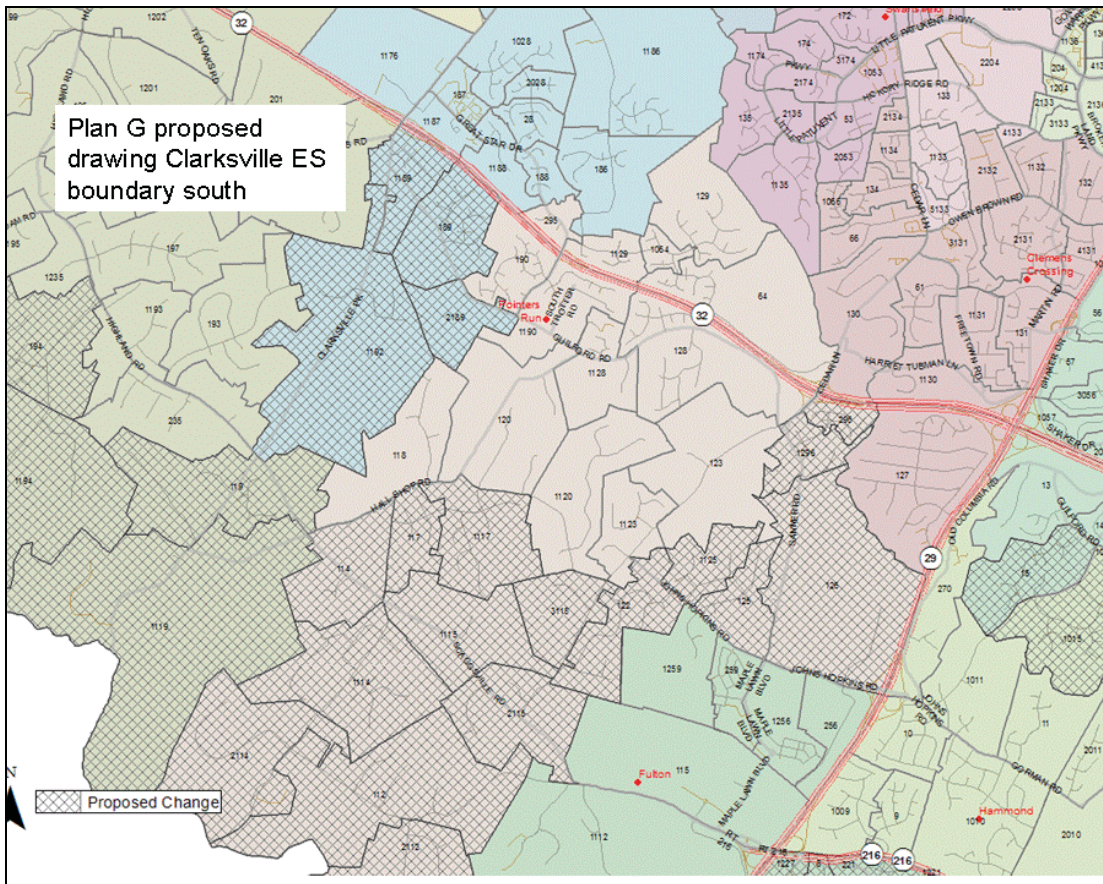
The group returned to the drawing board with Plan F attempting to pull these ideas into a more comprehensive plan. The plan was more expansive than the plan in the feasibility study, moving over 2,000 students. Plan F returned to the concept of drawing Fulton ES further east as was tested in Plan D. The Laurel Woods ES attending area was reduced in the vicinity of All Saints Road. The feasibility study plan did not select this area (Canterbury Riding) because the students walk to Laurel Woods ES, but the committee observed that, based upon the current projection, the capacity utilization at Laurel Woods ES is only improved by that plan until 2013. Plan F improves Laurel Woods until 2018 by taking this neighborhood and the areas east of Washington Road and moving them to Forest Ridge ES. Forest Ridge ES in turn is relieved by moving part of Bowling Brook Farms to Bollman Bridge ES. This idea also would cause students in a current walk area to have bus assignments. Under this plan the Gorman Crossing ES attending area would have been under 80 percent capacity utilization which led to some discussion of delay or elimination of the planned 173 seat addition. Because the plan did not resolve capacity utilization at Hammond ES, which would have been overcrowded in 2018, the idea of delay or elimination of the Gorman Crossing ES addition was rejected. Atholton ES and Guilford ES would be relieved by transferring attending areas to Hammond ES, which would then be relieved from Fulton ES. Guilford ES would also gain neighborhoods that

are currently in the Bollman Bridge ES attendance area in the Vollmerhausen Road vicinity by this plan. In the west, the plan tested having Dayton Oaks ES take attending area from Pointers Run ES, as well as Fulton ES. This generated discussion about how far east the Dayton Oaks ES attending area should be drawn.



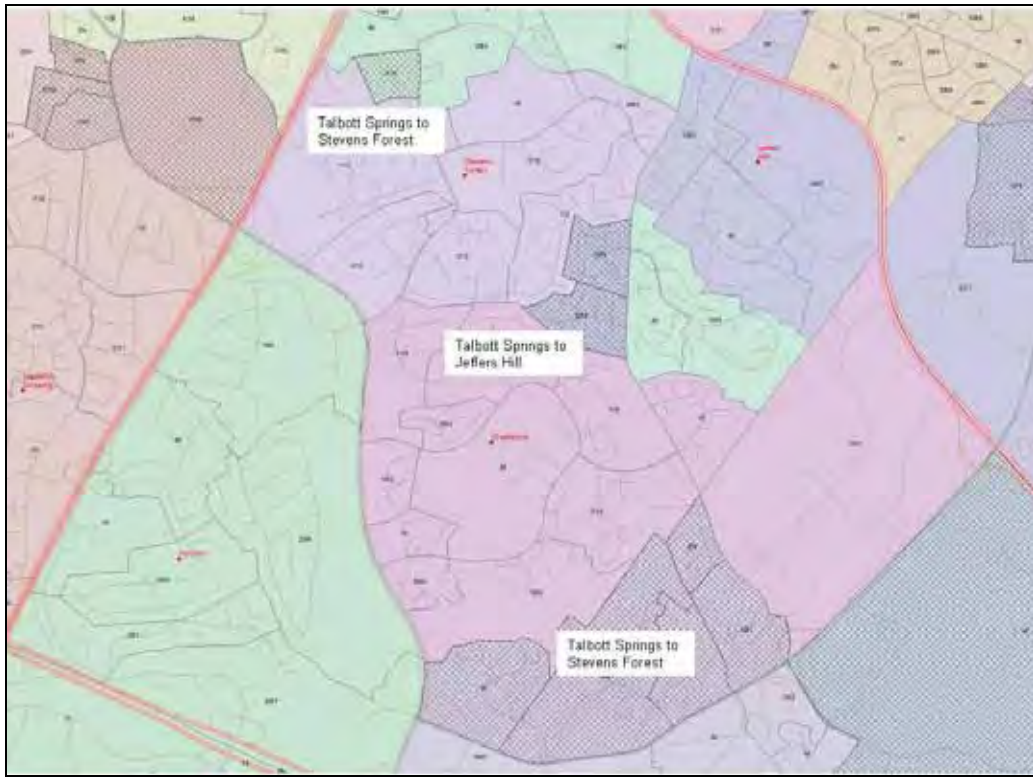


A variant of Plan F was discussed which was influenced by the distance to Dayton Oaks ES. Plan G would have moved 2,043 students, approximately 9.1 percent of the countywide elementary school population. The plan introduced the concept of using available capacity at Clarksville ES. While Clarksville ES does have capacity, staff did not choose to adopt this idea. Staff did take notice of the concerns about distance to Dayton Oaks ES.



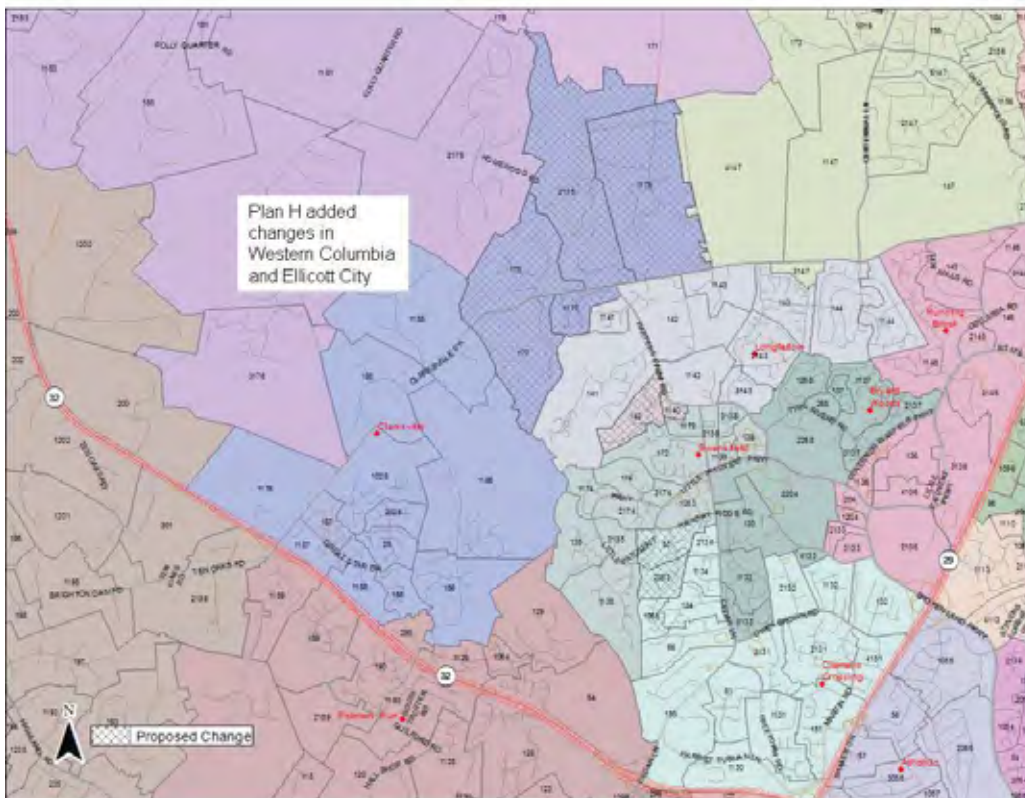
C. Columbia East Consideration

A citizen who attended some of the meetings contacted staff and proposed changes that are probably more appropriate for the 2013 staff plan. The 2013 staff plan proposes redistricting of an island (polygons 59, 1059, 2059, 3059) from Talbott Springs ES to Stevens Forest ES. This citizen's plan alternatively suggested redistricting a different island to Stevens Forest ES (polygons 51, 52, 205, 279, 1051). One observation was that Polygons 51, 52, 205, 279, 1051 would be bused to any school. This change seems feasible in terms of capacity utilization and transportation. Staff does not recommend redistricting additional students into the Stevens Forest ES attending area until the Stevens Forest ES addition/renovation is substantially complete (projected completion date is December 2013).



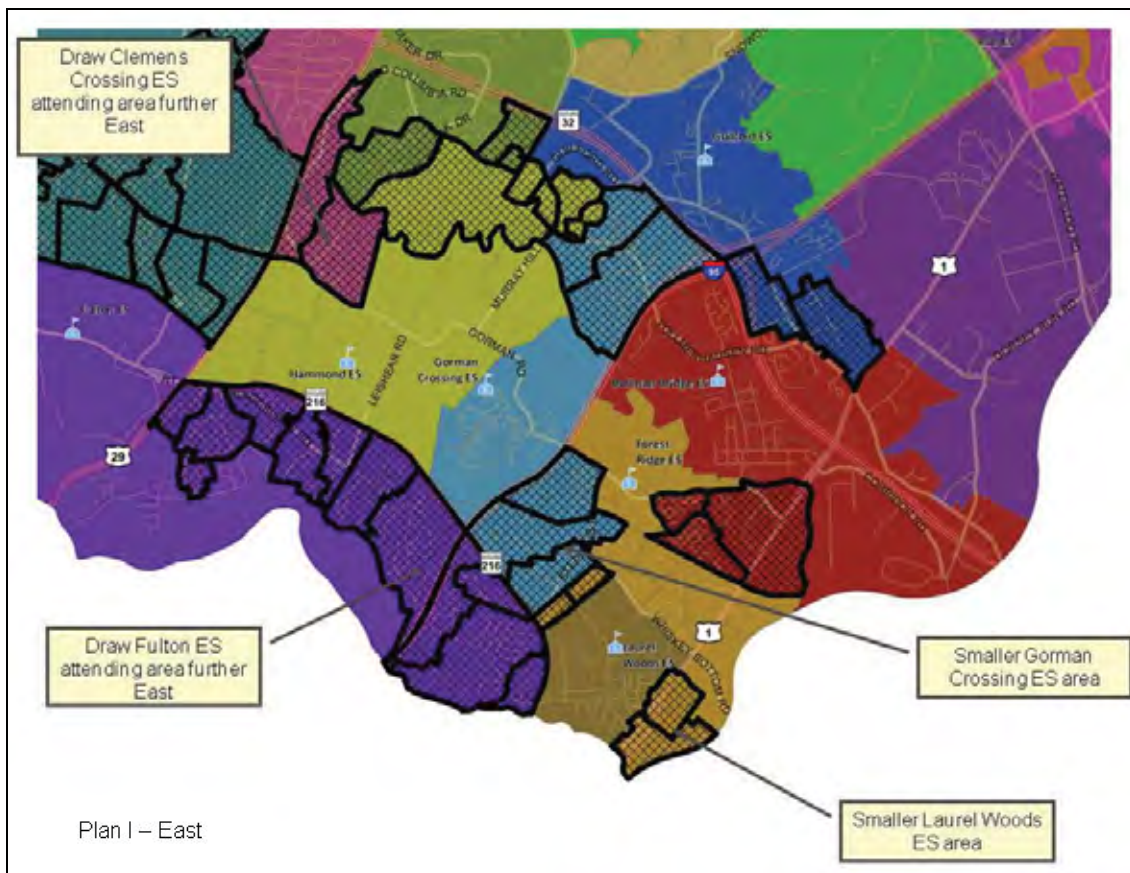
D. Swansfield Consideration

Plan H was examined as a proposal to provide aid to Swansfield ES. The plan relieves Fulton ES to the west after moves in the east that are identical to Plan F. Relief is provided to Swansfield ES, taking advantage of capacity at Clarksville ES. The plan also involved redistricting of Clemens Crossing ES and Longfellow ES. Overall, this plan would move 1,984 students, including 56 middle school students from Harpers Choice MS to Clarksville MS and 33 high school students from Wilde Lake HS to River Hill HS. This plan would move approximately 8.4 percent of the countywide elementary school population, 0.5 percent of the countywide middle school population, and 0.2 percent of the countywide high school population. The committee did not adopt plan H, rather choosing to develop Plan I. Staff does not recommend redistricting in this area in 2012 in light of the apparent over-projection of students for Swansfield ES and the joint study between the HCPSS and the Howard County Department of Planning and Zoning on Downtown Columbia Schools which will be initiated this winter.

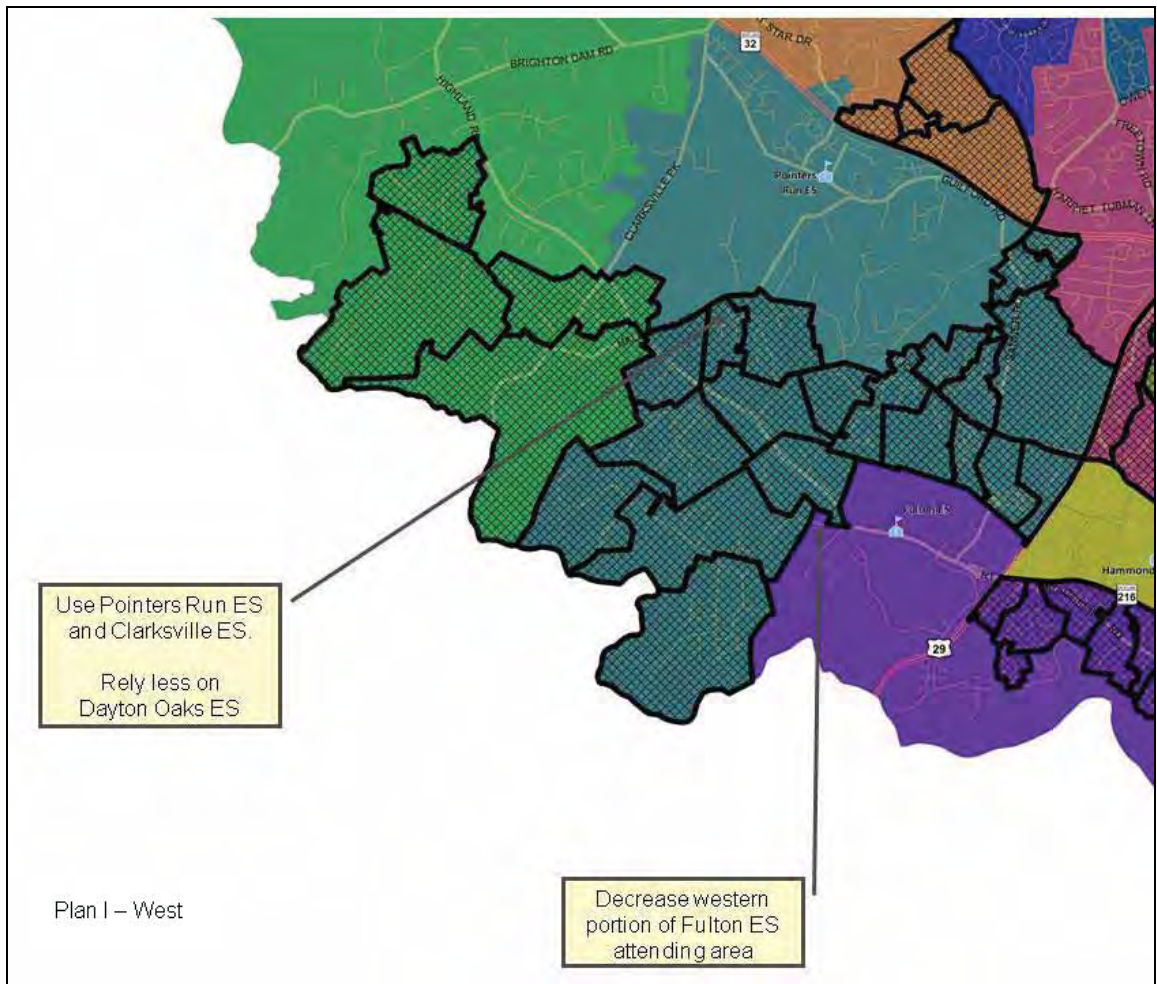


E. Representative Plan

The committee ended with Plan I however this plan was not specifically recommended by the committee to replace the staff plan. Rather the committee felt it could serve as a guide to staff on a plan that would allow the capacity utilization of more schools to stay within the BOE target range of 90-110 percent utilization for a longer period of time. Plan I would move 2,348 students.



In the southeast region most of the same ideas shown in Plan F will remain the same for Plan I for schools like Laurel Woods ES, Forest Ridge ES, and Bollman Bridge ES. The Guilford ES attending area by this plan would be mostly north of MD 32 and the Gorman Crossing ES attending area would contain an area from Bollman Bridge ES that is in the Vollmerhausen Road vicinity. Western areas of Guilford ES and the southern areas of Atholton ES would be assigned to Hammond ES. Parts of Hammond ES would be assigned to Clemens Crossing ES and others to Fulton ES. The Fulton ES attending area would come east to the High Ridge Park vicinity.



In the west, Plan I decreases the western portion of the Fulton ES attending area so that the northern part of Maple Lawn would be assigned to Pointers Run ES. Pointers Run ES is drawn south as well and Dayton Oaks ES would extend eastward only as far east as properties with egress to Clarksville Pike near the county line.

F. Major Findings From The Attendance Area Committee

Significant planning concepts that were reviewed by the AAC are summarized below.

1. Students in the over-utilized eastern portion of the county should be redistricted westward to use existing capacity.

The committee agreed with the essential thrust of the staff recommendation that some western capacity should be used to provide relief to southeastern schools. Rising capacity utilizations indicate that waiting is no longer an option. Upcoming capital projects will not provide enough capacity to relieve southeastern schools.

2. The AAC recommends more redistricting than the staff plan presented in the June 2011 Feasibility Study. The group suggested ways to bring capacity utilization within policy guidelines of 90 percent to 110 percent for a longer period of time (particularly in the southeast).

A common refrain in meetings was that we should develop a plan that avoids the necessity to come back and redistrict again too frequently.

3. The AAC was willing to move selected walk areas and other traditional boundaries in an effort to better balance capacity.

High projected capacity utilization for schools like Laurel Woods ES in particular led the group to be open to discuss ideas which in the past have been seen by staff as unworkable. The AAC, which included two parents from the Laurel Woods community, was willing to reduce the Laurel Woods ES attending area in the vicinity of All Saints Road, acknowledging that this bold step was necessary in order to reduce the capacity utilization levels at Laurel Woods ES to manageable levels over the longer term.

A second idea accepted by the AAC was the need to break communities between two schools where necessary. Specifically noted, was potentially splitting Maple Lawn into two different elementary school attending areas.

4. The group did not endorse a specific plan. Concepts were tested and suggestions made to improve the staff plan.

Examples of ideas from the AAC which have been incorporated into the final staff recommendation include:

- a) The Guilford ES attending area was drawn further east to include polygon 27 and polygons 1018 and 18 which were recommended to be sent to Hammond ES.
- b) The Pointers Run ES attending area was drawn further south to include polygons 112 and 1112 in the Lime Kiln Road area (currently attending Fulton ES), better positioning Fulton ES to absorb more of the eastern attending in the future if necessary.
- c) Polygon 1259, currently attending Fulton ES is being sent Pointers Run ES, in order to keep the Flamewood Drive community together and make space at Fulton ES.
- d) The Fulton ES attending area can be drawn further east to include polygon 7 and 1007 allowing Gorman Crossing ES to relieve Forest Ridge ES and Laurel Woods ES. This strategy is designed as a fallback if strong enrollment growth continues at Laurel Woods ES.

G. Public Input in Advance of Public Hearing

One of the goals in this redistricting process is to provide many avenues for public input. Public input sessions were held September 6, 2001 and September 7, 2011 and were attended by approximately 200 individuals. Staff has also logged approximately 50 phone calls and 175 emails. Major themes of this input included the following:

1. Understanding process and how to provide input

The most common calls or emails were essentially questions or calls about the process. Substantial portions of meetings were devoted to helping citizens understand

the process. Some have provided feedback that clearer or more interactive resources may help improve understanding. While many improvements have been made to the process and information provided, staff remains committed to future improvement and adaptations.

2. Avoid elimination of walk areas

Opposition was clearly voiced at the regional meetings and in email to reassigning walk areas to other schools where they must be bussed. Significant input was received on the value of walking to promote wellness and improve community interactions. Some commented that walk areas save the HCPSS money.

3. Avoid impacting students by redistricting multiple times

Some expressed concern that their child may be redistricted at every level. Policy seeks to avoid redistricting students more than once at any level. Staff calculates that approximately 231 currently enrolled students that may be impacted by the 2012 redistricting may also be impacted by the 2014 middle school redistricting. None will be impacted by high school redistricting suggested in the June 2011 Feasibility Study.

4. Perceived differences in educational quality

Some believed that their new school assignment would result in a less favorable educational environment than the current assignments, particularly as changes related to current attending areas for Atholton ES and Guilford ES. It should be noted that the difference between Atholton ES and Guilford ES test scores is not substantial. The 2009 MSA reading pass rate for Atholton ES was 92 percent and 87 percent for Guilford ES. The county wide average was 91.5 percent and the standard deviation was 5.8 percent. Since both scores are inside one standard deviation of the average they are statistically similar. The same can be said for the MSA math pass rate where Atholton ES was 92 percent and Guilford ES was 89 percent. The countywide average was 93 percent and the standard deviation was 5.7 percent.

The similarity of the statistics is due to a countywide commitment to delivering excellence at all schools. Transition planning and staffing decisions will give careful consideration to neighborhood reassignment if approved. Past experiences have shown that parents of reassigned students have willingly engaged in support of their new school bolstering the success of the transition.

5. Consider changes to process

There were a number of suggestions to improve the process. One was to allow open enrollment as an alternative to redistricting. Some suggested phased redistricting which would “grandfather-in” students at their current schools and only require rising students to go to the new school. Some suggested that we have redistricting apply to only new neighborhoods. A local Homeowners Association leader suggested direct outreach to potentially affected Homeowner Associations.

IV. Recommendations for August 2012

This redistricting is designed to manage interim capacity utilization issues primarily originating in the Route 1 Corridor until new capacity can be budgeted and constructed. Without some elementary redistricting in 2012, schools like Atholton ES and Laurel

Woods ES capacity utilization will significantly exceed 110 percent. Staff planning has been validated by the Attendance Area Committee, which confirmed that southeastern redistricting requires a cascade of movement to access capacity in the west at schools like Dayton Oaks ES, Fulton ES and Pointers Run ES.

The proposed elementary redistricting plan including the polygons shown in Table 1 of the executive summary will move an estimated 1,220 students, or 5.4 percent of current elementary enrollment. The implementation of this recommendation will complete a six year planning effort. As early as the July 2006 Feasibility Study, emerging ideas for balancing southeast region elementary school capacities were under consideration. By June 2008, the concept of a plan to utilize western capacity to balance southeastern schools was clearly articulated and this concept has remained in subsequent feasibility studies. Also in 2008, hypothetical scenarios were tested demonstrating ways to compare plans via a scorecard. The downside of hypothetical scenarios became clear when members of the community began to come forward objecting to concepts that were only hypothetical. This served as an important reminder of how sensitive the community is to redistricting. The value of the experience was that the scorecards broadened the discussion of plans. The discussions seemed to better capture all considerations in policy and not just number of students moved or resulting utilization. With this tool in place it has become easier to discuss more comprehensive redistricting.

VI. Evaluation of 2012 Redistricting Recommendations

This study evaluates the recommendations using the May 2011 student enrollment projections. The comparison of the recommendation is based upon the considerations listed in Policy 6010 – School Attendance Areas. This policy is published on the HCPSS website.¹ Plans are measured by two capacity utilization measures. The first is the 115 percent capacity utilization standard for the Adequate Public Facilities Ordinance (APFO) school test. The second is the 90 percent to 110 percent capacity utilization target in Policy 6010, and results are illustrated in a pre- and post-measures approach in this document. The plan assessment section provides a detailed comparison of the proposed changes. Staff believes this plan successfully balances capacity without substantial negative impact to other considerations in policy.

A. Balancing Capacity

This plan improves short-term and long-term utilization of capacity. Under the plan, capacity use is expected to improve in nine schools in 2012. Fulton ES will drop from 84 percent to 74 percent utilization in the short-term, but will reach target capacity by 2016 due to the Maple Lawn development. Looking ahead to 2022, the plan improves capacity use in seven schools and leaves three schools temporarily over the target.² Bollman Bridge ES and Hammond ES will exceed target capacity at this time however these schools are likely to be in the vicinity of New Elementary School #42. Staff anticipates the location of this school to be north of the Bollman Bridge attending area. By extending attending areas of schools with low utilization

¹ <http://www.hcpss.org/board/policies/6010.pdf>

² A third school, Hollified Station ES, is referenced in the chart, however this is due to 2013 redistricting planned in the June 2011 Feasibility Study.

eastward, the plan reduces the per school average number below the 90 percent utilization target. Similarly the plan reduces the per school average number of years above 110 percent.

B. Transportation Impact

The average current distance of the center of any planning polygon to its assigned elementary school is 5,654 feet or about 1.1 miles. The average distance after this plan taking effect would be 5,753 feet. Increasing the average distance by about 100 feet does not sound like much but these are straight-line distances from the center of polygons used for comparison purposes. Calculation of the average distance of individual residences to the home school before and after is a much more complex effort. We have reviewed the plans with Pupil Transportation staff and they have confirmed that this plan will have some increased costs, but tier³ adjustments may be able to balance most of the changes using existing contracts. A much stronger concern was any potential elimination of walk areas as discussed in committee. This concern matches the strong objections from members of the community and influenced the staff decision to recommend a plan that does not eliminate walk areas. Fortunately an examination of the actual numbers indicates that enrollment counts at Laurel Woods ES are somewhat lower than anticipated. Staff has taken notice of some of the ideas in Plan I, such as the walk area at Laurel Woods ES, and would wait to recommend such a plan, saving it as a back-up option if Laurel Woods ES enrollments resume strong growth.

C. Islands or Non Contiguous Attendance Areas

Having neighborhood schools is an overall goal which is assumed to be diminished by planning areas that are made of islands such as the one that exists at Atholton ES today. On the other hand, the layout of neighborhoods and schools is not even. Sometimes neighborhoods are separated by large non-residential areas or major roads. Small schools in more densely populated areas may have intermingled attending areas (examples include Cradlerock ES, Stevens Forest ES, and Talbott Springs ES). Staff received input that eliminating islands should not be a primary consideration.

D. Effect Upon Students

Any redistricting plan will impact some students. This plan does not propose to move any students that have been moved before at any level. The estimated 1,220 students proposed for redistricting represents 5.4 percent of current elementary enrollment. Small feeds to Hammond MS, Lime Kiln MS, and Patuxent Valley MS are eliminated, but two are created at Murray Hill MS (from Bollman Bridge ES – 6.8 percent) and Hammond MS (from Guilford ES – 3 percent). These two small feeds are located within the potential redistricting boundaries associated with the opening of New Middle School #20 and could be eliminated at that time.

The plan has a negligible overall impact to the balance of students qualifying for free and reduced-price meals services (FARMS). This measure is only an indicator of income and many other factors can influence academic performance. Atholton ES would be taken from 22 percent to 9 percent FARM, significantly below the county average, Bollman Bridge ES would be increased from 29 percent to 33 percent FARM, and Guilford ES would be

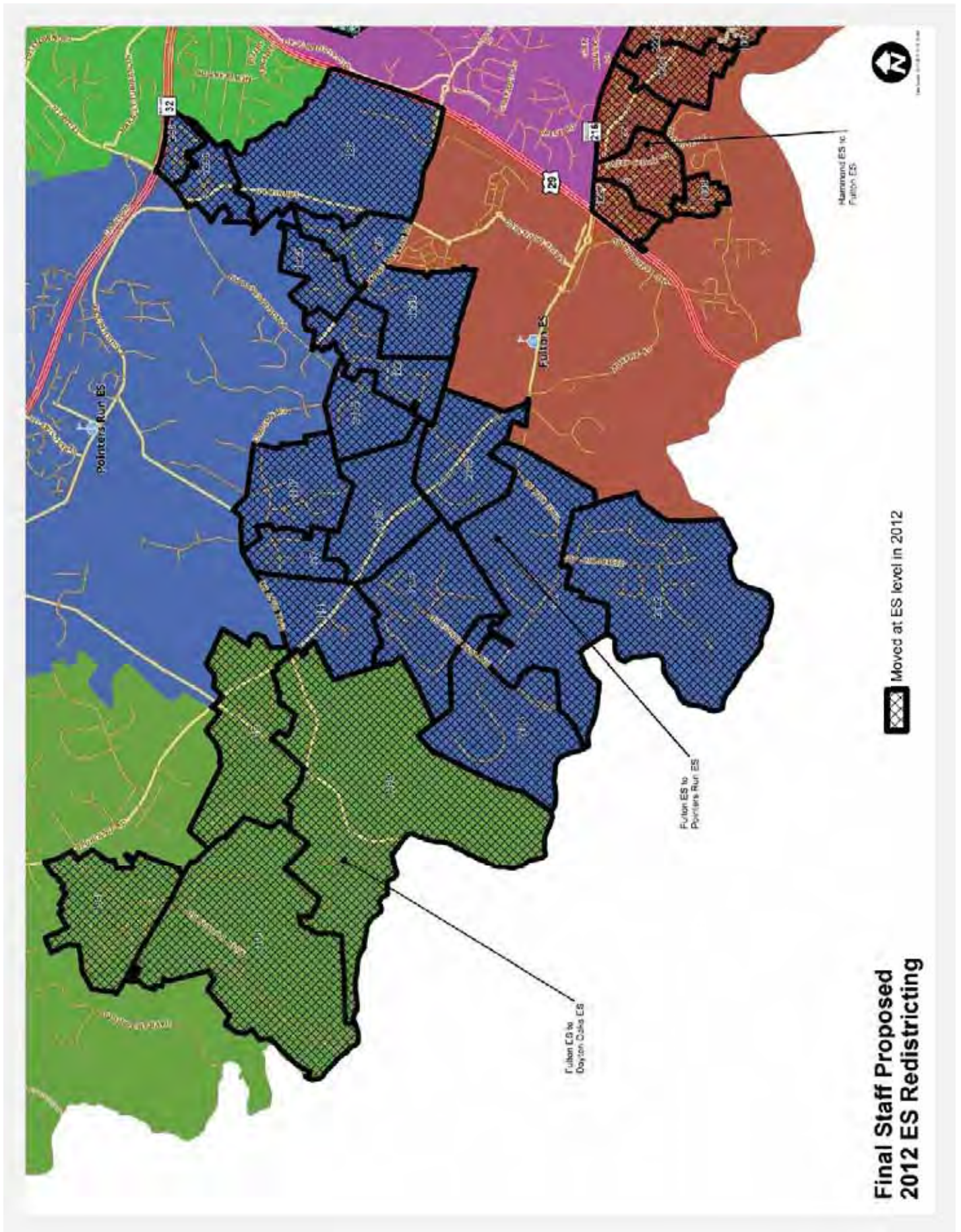
³ Bus contracts are arranged to cover runs for multiple levels.

increased from 30 percent to 35 percent FARM. Forest Ridge ES, Gorman Crossing ES, Hammond ES, and Laurel Woods ES would all be brought closer to the county average.

The plan has a negligible impact upon the balance of the Maryland School Assessment (MSA) reading and math pass rates overall. The proposed attending areas may cause scores at Atholton ES and Guilford ES to be further from the county average of 92.4 percent for math however the estimated four percent change (up for Atholton ES and down for Guilford ES) is within one standard deviation of the mean, so the impact should be considered negligible.

VII. Maps

On the following pages the staff proposed plans for the current year redistricting recommendations are mapped. It should be noted that none of these maps represent approved plans. Redistricting approved by the Board of Education in November 2011 would take effect in August 2012. Maps for the long range plan outlined on pages 16-19 can be found in the June 2011 Feasibility Study. Plans for future years would also require Board of Education approval in the fall of the year before they are to take effect. By that time conditions may change and a different plan may be the better option. Long-term plans are presented in an effort to have a transparent planning process and to provide context for the capital budgeting process.



VIII. Pre- and Post-Measures

On the following pages the effect of the staff proposed plans on capacity utilization are depicted in tabular form. Only the elementary level is presented in this report because no changes are proposed at the middle school or high school level. The June 2011 Feasibility Study has long range information about the middle and high school levels.

ELEMENTARY SCHOOLS - Data for Demonstrative Purposes Only
Capacity Utilization Rates with Board of Education's Approved FY 2012 Capital Budget Projects - Not Test for APFO

Chart reflects May 2011 Projections, Board of Education's FY 2012 approved capacities, and no redistricting.

Region	2012		2013		2014		2015		2016-17		2018-19		2019-20		2021-22		2022-23									
	Capacity	Proj % Util.	Capacity	Proj % Util.	Capacity	Proj % Util.	Capacity	Proj % Util.	Proj % Util.	Proj % Util.	Proj % Util.	Proj % Util.	Proj % Util.	Proj % Util.	Proj % Util.	Proj % Util.	Proj % Util.	Proj % Util.								
Columbia - East	2692	2892	2892	2788	103.6	98.5	2849	98.5	2853	98.7	2905	100.4	2904	100.4	2948	101.8	2960	102.4	3036	105.0	3101	107.2	3155	109.1		
Craderock ES	487	487	487	487	100.0	100.0	487	100.0	487	100.0	487	100.0	487	100.0	487	100.0	487	100.0	487	100.0	487	100.0	487	100.0		
Jeffers Hill ES	421	421	421	421	100.0	100.0	421	100.0	421	100.0	421	100.0	421	100.0	421	100.0	421	100.0	421	100.0	421	100.0	421	100.0		
Phelps Luck ES	540	540	540	540	100.0	100.0	540	100.0	540	100.0	540	100.0	540	100.0	540	100.0	540	100.0	540	100.0	540	100.0	540	100.0		
Stevens Forest ES	333	333	333	333	100.0	100.0	333	100.0	333	100.0	333	100.0	333	100.0	333	100.0	333	100.0	333	100.0	333	100.0	333	100.0		
Talbot Springs ES	443	443	443	443	100.0	100.0	443	100.0	443	100.0	443	100.0	443	100.0	443	100.0	443	100.0	443	100.0	443	100.0	443	100.0		
Thunder Hill ES	468	468	468	468	100.0	100.0	468	100.0	468	100.0	468	100.0	468	100.0	468	100.0	468	100.0	468	100.0	468	100.0	468	100.0		
Region Totals	2692	2892	2892	2788	103.6	98.5	2849	98.5	2853	98.7	2905	100.4	2904	100.4	2948	101.8	2960	102.4	3036	105.0	3101	107.2	3155	109.1		
Columbia - West	355	355	355	355	100.0	100.0	355	100.0	355	100.0	355	100.0	355	100.0	355	100.0	355	100.0	355	100.0	355	100.0	355	100.0		
Bryant Woods ES	522	522	522	522	100.0	100.0	522	100.0	522	100.0	522	100.0	522	100.0	522	100.0	522	100.0	522	100.0	522	100.0	522	100.0		
Clemens Crossing ES	418	418	418	418	100.0	100.0	418	100.0	418	100.0	418	100.0	418	100.0	418	100.0	418	100.0	418	100.0	418	100.0	418	100.0		
Longfellow ES	405	405	405	405	100.0	100.0	405	100.0	405	100.0	405	100.0	405	100.0	405	100.0	405	100.0	405	100.0	405	100.0	405	100.0		
Running Brook ES	528	528	528	528	100.0	100.0	528	100.0	528	100.0	528	100.0	528	100.0	528	100.0	528	100.0	528	100.0	528	100.0	528	100.0		
Swansfield ES	2228	2228	2228	2228	100.0	100.0	2228	100.0	2228	100.0	2228	100.0	2228	100.0	2228	100.0	2228	100.0	2228	100.0	2228	100.0	2228	100.0		
Region Totals	2228	2228	2228	2228	100.0	100.0	2228	100.0	2228	100.0	2228	100.0	2228	100.0	2228	100.0	2228	100.0	2228	100.0	2228	100.0	2228	100.0		
Northeastern	762	762	762	762	100.0	100.0	762	100.0	762	100.0	762	100.0	762	100.0	762	100.0	762	100.0	762	100.0	762	100.0	762	100.0		
Belows Spring ES	601	601	601	601	100.0	100.0	601	100.0	601	100.0	601	100.0	601	100.0	601	100.0	601	100.0	601	100.0	601	100.0	601	100.0		
Deep Run ES	779	779	779	779	100.0	100.0	779	100.0	779	100.0	779	100.0	779	100.0	779	100.0	779	100.0	779	100.0	779	100.0	779	100.0		
Elkridge ES	617	617	617	617	100.0	100.0	617	100.0	617	100.0	617	100.0	617	100.0	617	100.0	617	100.0	617	100.0	617	100.0	617	100.0		
Elchester ES	600	600	600	600	100.0	100.0	600	100.0	600	100.0	600	100.0	600	100.0	600	100.0	600	100.0	600	100.0	600	100.0	600	100.0		
New ES #41	667	667	667	667	100.0	100.0	667	100.0	667	100.0	667	100.0	667	100.0	667	100.0	667	100.0	667	100.0	667	100.0	667	100.0		
Rockburn ES	788	788	788	788	100.0	100.0	788	100.0	788	100.0	788	100.0	788	100.0	788	100.0	788	100.0	788	100.0	788	100.0	788	100.0		
Veterans ES	594	594	594	594	100.0	100.0	594	100.0	594	100.0	594	100.0	594	100.0	594	100.0	594	100.0	594	100.0	594	100.0	594	100.0		
Waterloo ES	516	516	516	516	100.0	100.0	516	100.0	516	100.0	516	100.0	516	100.0	516	100.0	516	100.0	516	100.0	516	100.0	516	100.0		
Worthington ES	5324	5924	5924	5924	111.3	107.7	6026	107.7	6173	104.2	6256	105.6	6297	106.3	6468	109.2	6610	111.6	6677	112.7	6808	114.9	6906	116.6	7030	118.7
Region Totals	5324	5924	5924	5924	111.3	107.7	6026	107.7	6173	104.2	6256	105.6	6297	106.3	6468	109.2	6610	111.6	6677	112.7	6808	114.9	6906	116.6	7030	118.7
Northern	628	628	628	628	100.0	100.0	628	100.0	628	100.0	628	100.0	628	100.0	628	100.0	628	100.0	628	100.0	628	100.0	628	100.0		
Centennial Lane ES	688	688	688	688	100.0	100.0	688	100.0	688	100.0	688	100.0	688	100.0	688	100.0	688	100.0	688	100.0	688	100.0	688	100.0		
Hollfield Station ES	647	647	647	647	100.0	100.0	647	100.0	647	100.0	647	100.0	647	100.0	647	100.0	647	100.0	647	100.0	647	100.0	647	100.0		
Manor Woods ES	672	672	672	672	100.0	100.0	672	100.0	672	100.0	672	100.0	672	100.0	672	100.0	672	100.0	672	100.0	672	100.0	672	100.0		
Northfield ES	597	597	597	597	100.0	100.0	597	100.0	597	100.0	597	100.0	597	100.0	597	100.0	597	100.0	597	100.0	597	100.0	597	100.0		
St. Johns Lane ES	675	675	675	675	100.0	100.0	675	100.0	675	100.0	675	100.0	675	100.0	675	100.0	675	100.0	675	100.0	675	100.0	675	100.0		
Waverly ES	3907	3907	3907	3907	100.0	100.0	3787	96.9	3756	96.1	3801	97.3	3881	96.9	4000	99.8	4115	102.7	4227	105.5	4387	109.5	4503	112.4	4591	114.6
Region Totals	3907	3907	3907	3907	100.0	100.0	3787	96.9	3756	96.1	3801	97.3	3881	96.9	4000	99.8	4115	102.7	4227	105.5	4387	109.5	4503	112.4	4591	114.6
Southeastern	387	387	387	387	100.0	100.0	387	100.0	387	100.0	387	100.0	387	100.0	387	100.0	387	100.0	387	100.0	387	100.0	387	100.0		
Atholton ES	663	663	663	663	100.0	100.0	663	100.0	663	100.0	663	100.0	663	100.0	663	100.0	663	100.0	663	100.0	663	100.0	663	100.0		
Bollman Bridge ES	626	626	626	626	100.0	100.0	626	100.0	626	100.0	626	100.0	626	100.0	626	100.0	626	100.0	626	100.0	626	100.0	626	100.0		
Forest Ridge ES	540	540	540	540	100.0	100.0	540	100.0	540	100.0	540	100.0	540	100.0	540	100.0	540	100.0	540	100.0	540	100.0	540	100.0		
Gorman Crossing ES	462	462	462	462	100.0	100.0	462	100.0	462	100.0	462	100.0	462	100.0	462	100.0	462	100.0	462	100.0	462	100.0	462	100.0		
Guilford ES	597	597	597	597	100.0	100.0	597	100.0	597	100.0	597	100.0	597	100.0	597	100.0	597	100.0	597	100.0	597	100.0	597	100.0		
Hammond ES	540	540	540	540	100.0	100.0	540	100.0	540	100.0	540	100.0	540	100.0	540	100.0	540	100.0	540	100.0	540	100.0	540	100.0		
Laurel Woods ES	3815	3815	3988	3988	104.5	104.8	4234	111.0	4361	109.4	4497	112.8	4637	116.3	4836	121.3	5001	125.4	5120	128.4	5205	130.5	5271	132.2	5328	133.6
Region Totals	3815	3815	3988	3988	104.5	104.8	4234	111.0	4361	109.4	4497	112.8	4637	116.3	4836	121.3	5001	125.4	5120	128.4	5205	130.5	5271	132.2	5328	133.6
Western	788	788	788	788	100.0	100.0	788	100.0	788	10																

Post-Measures
2012 Proposed Plan
 Capacity Utilization Rates with Proposed FY 2013 Capital Budget Projects - Not Test for APFO
 Chart reflects May 2011 Projections, Board of Education's FY 2013 Requested Capacity, and redistricting as listed in October 2011 Attendance Area Adjustment Document.

Capacity	2012		2013		2014		2015		2016		2017		2018		2019		2020		2021		2022		2023	
	2012	2013	2012	2013	2012	2013	2012	2013	2012	2013	2012	2013	2012	2013	2012	2013	2012	2013	2012	2013	2012	2013	2012	2013
Columbia - East	487	487	487	487	494	101.4	538	110.5	539	110.7	553	113.6	585	120.1	596	122.4	597	122.6	618	126.9	634	130.2	649	133.3
Craderlock ES	487	487	487	487	494	101.4	538	110.5	539	110.7	553	113.6	585	120.1	596	122.4	597	122.6	618	126.9	634	130.2	649	133.3
Jeffers Hill ES	421	421	421	421	373	88.6	372	88.4	366	86.9	367	86.8	357	84.3	354	84.1	355	84.3	363	86.2	370	87.9	376	89.3
Phelps Luck ES	540	640	640	643	638	119.1	643	100.5	664	103.8	659	103.0	665	103.8	657	102.7	665	103.9	678	105.9	696	108.8	711	111.1
Stevens Forest ES	333	433	433	433	321	96.4	317	93.2	302	89.7	318	94.3	315	90.1	313	89.3	308	88.1	319	91.1	324	92.8	327	91.5
Thurbot Springs ES	443	443	443	443	581	131.2	590	133.2	582	131.4	572	129.1	581	131.2	573	129.3	579	130.7	590	133.2	602	135.9	609	137.5
Thunder Hill ES	468	468	468	468	409	87.4	418	89.3	418	89.3	448	95.7	448	95.7	454	97.0	460	98.3	472	100.9	478	102.1	487	104.1
Region Totals	2692	2892	2892	2892	2774	103.0	2842	98.3	2875	99.4	2906	100.5	2905	100.4	2953	102.1	2947	101.9	2964	102.5	3040	107.3	3159	109.2
Columbia - West	355	355	355	355	333	93.8	334	94.1	343	96.6	341	96.1	356	100.3	364	102.5	364	102.5	364	102.5	364	102.5	364	102.5
Bryant Woods ES	522	522	522	522	476	91.2	472	90.4	443	84.9	441	84.5	433	83.0	423	81.0	429	82.2	428	82.0	448	85.8	455	87.2
Clemens Crossing ES	418	418	418	418	399	95.5	394	93.8	394	93.8	398	95.2	389	93.1	387	92.6	387	92.6	396	94.3	394	94.3	396	94.7
Longfellow ES	405	405	405	405	443	109.4	461	113.8	485	120.8	510	126.2	529	130.8	554	138.1	582	145.2	612	153.2	642	167.1	672	178.1
Running Brook ES	528	528	528	528	586	111.0	617	116.9	622	117.8	632	119.7	635	120.3	634	120.1	646	122.3	641	121.4	647	122.5	659	124.8
Swansfield ES	2228	2228	2228	2228	2237	100.4	2278	102.2	2296	98.6	2322	98.7	2342	100.6	2354	101.1	2408	103.4	2441	104.9	2495	107.2	2550	109.5
Region Totals	5324	5924	5924	5924	5871	110.3	6026	101.7	6173	104.2	6256	105.6	6297	106.3	6488	109.2	6610	111.6	6677	102.3	6808	104.4	6906	105.9
Northwestern	762	762	762	762	873	114.6	920	120.7	968	127.0	1031	135.3	1090	143.0	1180	154.9	1270	166.7	1345	176.5	1419	186.2	1476	193.7
Bellevue Spring ES	601	601	601	601	656	109.2	735	122.3	808	134.4	857	142.6	870	144.8	905	150.6	904	150.4	875	145.6	869	144.6	882	146.8
Deep Run ES	779	779	779	779	601	77.1	617	79.7	601	77.1	599	77.1	569	73.2	532	68.6	527	68.6	509	66.8	541	70.7	563	73.2
Elkridge ES	617	617	617	617	601	97.4	601	97.4	601	97.4	601	97.4	601	97.4	601	97.4	601	97.4	601	97.4	601	97.4	601	97.4
ICHS ES	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
New ES #41	667	667	667	667	661	99.1	640	96.0	617	92.5	599	89.8	572	85.8	561	84.1	574	86.1	575	86.2	585	87.7	590	89.7
Rockburn ES	788	788	788	788	800	101.5	800	101.5	800	101.5	800	101.5	800	101.5	800	101.5	800	101.5	800	101.5	800	101.5	800	101.5
Veterans ES	594	594	594	594	704	118.5	704	118.5	704	118.5	704	118.5	704	118.5	704	118.5	704	118.5	704	118.5	704	118.5	704	118.5
Waterloo ES	516	516	516	516	497	96.3	518	100.4	541	104.8	539	104.5	533	103.3	526	101.9	510	96.8	499	96.7	498	96.5	490	95.2
Worthington ES	516	516	516	516	497	96.3	518	100.4	541	104.8	539	104.5	533	103.3	526	101.9	510	96.8	499	96.7	498	96.5	490	95.2
Region Totals	5324	5924	5924	5924	5871	110.3	6026	101.7	6173	104.2	6256	105.6	6297	106.3	6488	109.2	6610	111.6	6677	102.3	6808	104.4	6906	105.9
Northern	628	628	628	628	681	108.4	670	106.7	658	104.8	646	102.9	658	104.8	659	104.9	651	103.7	669	106.5	671	106.8	686	109.2
Centennial Lane ES	688	688	688	688	685	99.6	672	97.7	690	100.3	674	98.0	666	96.8	658	95.6	662	96.2	668	97.1	661	96.1	668	97.1
Hollifield Station ES	647	647	647	647	663	102.5	693	107.1	708	109.4	809	125.0	894	138.2	1014	156.7	1136	175.6	1234	190.7	1318	203.7	1361	210.4
Manor Woods ES	672	672	672	672	601	89.4	623	91.3	611	90.9	588	87.5	581	86.5	572	85.1	579	86.5	575	85.6	609	90.6	632	94.0
Northfield ES	597	597	597	597	572	95.8	579	97.0	564	94.5	558	92.6	558	92.6	558	92.6	558	92.6	555	93.0	581	97.3	594	99.5
St. Johns Lane ES	675	675	675	675	545	80.7	545	80.7	525	77.8	531	78.7	524	76.6	530	78.4	522	76.4	526	76.9	547	70.6	562	72.5
Waverly ES	3907	3907	3907	3907	3747	95.9	3787	96.9	3756	96.1	3801	97.3	3881	96.9	4000	99.8	4115	102.7	4227	105.5	4387	109.5	4503	112.4
Region Totals	3907	3907	3907	3907	3747	95.9	3787	96.9	3756	96.1	3801	97.3	3881	96.9	4000	99.8	4115	102.7	4227	105.5	4387	109.5	4503	112.4
Southeastern	387	387	387	387	344	88.9	356	92.0	367	94.8	373	96.4	387	100.0	395	102.1	401	103.6	402	103.9	401	103.6	410	105.9
Atholton ES	663	663	663	663	626	94.4	626	94.4	626	94.4	626	94.4	626	94.4	626	94.4	626	94.4	626	94.4	626	94.4	626	94.4
Boilman Bridge ES	626	626	626	626	665	106.2	666	106.4	648	103.5	652	104.2	633	101.1	628	100.3	624	99.7	618	98.7	628	100.3	627	100.2
Forest Ridge ES	540	540	540	540	541	100.2	541	100.2	541	100.2	541	100.2	541	100.2	541	100.2	541	100.2	541	100.2	541	100.2	541	100.2
Gorman Crossing ES	462	462	462	462	421	91.1	427	92.4	435	94.2	433	93.7	437	94.6	442	95.7	457	98.9	460	99.6	470	101.7	471	101.9
Guilford ES	597	597	597	597	584	97.8	593	99.3	605	101.3	634	106.2	677	113.4	729	122.1	768	128.6	821	137.5	840	140.7	858	143.7
Hammond ES	540	540	540	540	565	104.6	617	114.3	659	122.0	669	123.9	677	113.4	734	135.9	784	145.2	835	154.6	866	160.4	886	164.1
Laurel Woods ES	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
New ES #42	3815	3888	3988	3988	3753	98.4	3907	98.0	4013	100.6	4147	104.0	4269	107.0	4467	112.0	4629	116.1	4743	118.9	4823	120.9	4888	122.6
Region Totals	3815	3888	3988	3988	3753	98.4	3907	98.0	4013	100.6	4147	104.0	4269	107.0	4467	112.0	4629	116.1	4743	118.9	4823	120.9	4888	122.6
Western	788	788	788	788	554	70.3	528	67.0	484	61.4	454	57.6	438	55.6	427	54.2	435	55.2	431	54.7	446	56.6	449	57.0
Bushy Park ES	634	634	634	634	490	77.3	449	70.3	380	59.9														

IX. Plan Assessment

Elementary School Summary	Current	Aggregate Plan	Assessment Criteria
Balance FARM %	(ES Average = 18%) StdDev 18.4% 15.95	18.6% 15.98 NEGLIGIBLE	Standard Deviation reduced by 25% or more = Strength; increased by 25% or more = Weakness; otherwise Negligible
Balance MSA Reading Pass Rate	(ES Average = 92%) StdDev 91.7% 5.94	91.6% 5.99 NEGLIGIBLE	Standard Deviation reduced by 25% or more = Strength; increased by 25% or more = Weakness; otherwise Negligible
Balance MSA Math Pass Rate	(ES Average = 93%) StdDev 92.5% 5.73	92.4% 5.74 NEGLIGIBLE	Standard Deviation reduced by 25% or more = Strength; increased by 25% or more = Weakness; otherwise Negligible
Consecutive Years Under 110%	# of Schools Strengthened NA # of Schools Weakened NA Mean 7.9	4 2 8.3 NEGLIGIBLE	Mean increased by 1.0 or more = Strength; reduced by 1.0 or more = Weakness; otherwise Negligible
Balanced 2012 Utilization	# of Schools Strengthened NA # of Schools Weakened NA StdDev 17.39	9 1 14.91 NEGLIGIBLE	Standard Deviation reduced by 25% or more = Strength; increased by 25% or more = Weakness; otherwise Negligible
Balanced 2022 Utilization	# of Schools Strengthened NA # of Schools Weakened NA StdDev 37.69	7 3 34.74 NEGLIGIBLE	Standard Deviation reduced by 25% or more = Strength; increased by 25% or more = Weakness; otherwise Negligible
Proximity to School	# of Schools Strengthened NA # of Schools Weakened NA Mean 5654 (smaller # = closer set of polygons)	6 4 5753 NEGLIGIBLE	Mean reduced by 100 or more = Strength; increased by 100 or more = Weakness; otherwise Negligible
Non-Contiguous Attendance Areas	Number of "Islands" 5	4 STRENGTH	"After" count lower than "Before" = Strength; "After" higher = Weakness; otherwise Negligible
Transportation Costs	(ES Avg Rating = 0.00) (pos=savings; neg=cost) NA	-0.05 WEAKNESS	Mean increased = Strength; mean reduced = Weakness; otherwise Negligible
Students Moved	Number NA % of Enrollment NA	1220 5.4% MODERATE MOVEMENT	% of enrollment greater than 10% = High Movement, 5% to 10% = Moderate Movement, less than 5% = Low Movement
Students moved too soon after last move	Number NA % of Enrollment NA	0 0.0% NO MOVEMENT	% of enrollment greater than 3% = High Movement, greater than 0% to 3% = Moderate Movement, 0% = No Movement
Small ES-to-MS Feeds (under 15%)	# of Small Feeds 21	20 STRENGTH	"After" count lower than "Before" = Strength; "After" higher = Weakness; otherwise Negligible
Double Small Feeds	# of Double Small Feeds 3	3 NEGLIGIBLE	"After" count lower than "Before" = Strength; "After" higher = Weakness; otherwise Negligible
Low Utilization (Under 90%) 2012-2023	Per-school Average Years 3.7	3.4 STRENGTH	Mean reduced by 0.1 or more = Strength; increased by 0.1 or more = Weakness; otherwise Negligible
High Utilization (Over 110%) 2012-2023	Per-school Average Years 4.1	3.7 STRENGTH	Mean reduced by 0.1 or more = Strength; increased by 0.1 or more = Weakness; otherwise Negligible

Strength Moderate Weakness

Elementary Schools	Balanced Farm %			Balanced MSA Reading Pass Rate			Balanced MSA Math Pass Rate			Consecutive Yrs Under 110%			Balanced 2012 Utilization			Balanced 2017 Utilization			Balanced 2022 Utilization						
	Before	After	Chg	Before	After	Chg	Before	After	Chg	Before	After	Chg	Before	After	Chg	Before	After	Chg	Before	After	Chg	Before	After	Chg	
Atholton ES	22%	9%	-	92%	93%	+	92%	96%	+	0	12	+	123%	89%	+	147%	102%	+	156%	106%	+	147%	102%	+	
Bellows Spring ES	12%	12%	=	94%	94%	=	97%	97%	=	0	0	=	115%	115%	=	155%	155%	=	199%	199%	=	155%	155%	=	
Bollman Bridge ES	29%	33%	+	82%	80%	-	84%	84%	=	10	5	-	82%	95%	+	96%	113%	+	111%	125%	+	96%	113%	+	
Bryant Woods ES	49%	49%	=	83%	83%	=	80%	80%	=	12	12	=	94%	94%	=	100%	100%	=	105%	105%	=	100%	100%	=	
Bushy Park ES	1%	1%	=	98%	98%	=	99%	99%	=	12	12	=	70%	70%	=	54%	54%	=	57%	57%	=	54%	54%	=	
Centennial Lane ES	6%	6%	=	97%	97%	=	97%	97%	=	10	10	=	108%	108%	=	105%	105%	=	111%	111%	=	105%	105%	=	
Clarksville ES	1%	1%	=	97%	97%	=	97%	97%	=	12	12	=	77%	77%	=	45%	45%	=	81%	81%	=	45%	45%	=	
Clemens Crossing ES	8%	8%	=	95%	95%	=	95%	95%	=	12	12	=	91%	91%	=	81%	81%	=	88%	88%	=	81%	81%	=	
Cradlerock ES	43%	43%	=	78%	78%	=	78%	78%	=	2	2	=	92%	92%	=	120%	120%	=	133%	133%	=	120%	120%	=	
Dayton Oaks ES	1%	2%	+	94%	94%	=	98%	97%	-	12	12	=	60%	72%	+	53%	65%	+	53%	63%	+	53%	65%	+	
Deep Run ES	37%	37%	=	92%	92%	=	94%	94%	=	1	1	=	109%	109%	=	151%	151%	=	151%	151%	=	151%	151%	=	
Elkridge ES	17%	17%	=	91%	91%	=	92%	92%	=	0	0	=	115%	115%	=	133%	133%	=	137%	137%	=	133%	133%	=	
Forest Ridge ES	21%	19%	-	94%	96%	+	93%	93%	=	6	12	+	118%	106%	-	110%	110%	=	110%	107%	-	110%	107%	-	
Fulton ES	4%	5%	+	93%	95%	+	93%	95%	+	12	12	=	84%	74%	-	103%	94%	-	99%	92%	-	103%	94%	-	
Gorman Crossing ES	15%	17%	+	92%	91%	-	89%	85%	-	0	3	-	119%	100%	-	131%	111%	-	136%	114%	-	131%	111%	-	
Guilford ES	30%	35%	+	87%	87%	=	89%	85%	-	12	12	=	104%	91%	-	107%	96%	-	107%	104%	-	107%	96%	-	
Hammond ES	8%	21%	+	97%	93%	-	97%	92%	-	5	4	-	90%	98%	+	111%	122%	+	137%	152%	+	111%	122%	+	
Hollifield Station ES	18%	18%	=	90%	90%	=	90%	90%	=	12	12	=	100%	100%	=	99%	99%	=	99%	99%	=	99%	99%	=	
Ilchester ES	4%	4%	=	99%	99%	=	98%	98%	=	12	12	=	97%	97%	=	82%	82%	=	95%	95%	=	82%	82%	=	
Jeffers Hill ES	27%	27%	=	82%	82%	=	82%	82%	=	12	12	=	89%	89%	=	84%	84%	=	89%	89%	=	84%	84%	=	
Laurel Woods ES	44%	42%	-	79%	79%	=	83%	84%	+	0	2	+	117%	105%	-	157%	136%	-	189%	164%	-	157%	136%	-	
Lisbon ES	9%	9%	=	96%	96%	=	97%	97%	=	12	12	=	82%	82%	=	100%	100%	=	107%	107%	=	100%	100%	=	
Longfellow ES	35%	35%	=	91%	91%	=	93%	93%	=	12	12	=	95%	95%	=	93%	93%	=	96%	96%	=	93%	93%	=	
Manor Woods ES	5%	5%	=	97%	97%	=	98%	98%	=	3	3	=	102%	102%	=	157%	157%	=	216%	216%	=	157%	157%	=	
New Northeastern ES	5%	5%	=	98%	98%	=	97%	97%	=	12	12	=	89%	89%	=	85%	85%	=	96%	96%	=	85%	85%	=	
Northfield ES	43%	43%	=	85%	85%	=	83%	83%	=	9	9	=	119%	119%	=	104%	104%	=	111%	111%	=	104%	104%	=	
Phelps Luck ES	2%	2%	=	97%	95%	-	97%	96%	-	12	12	=	68%	105%	+	51%	95%	+	54%	98%	+	51%	95%	+	
Pointers Run ES	8%	8%	=	92%	92%	=	95%	95%	=	12	12	=	99%	99%	=	84%	84%	=	90%	90%	=	84%	84%	=	
Rockburn ES	41%	41%	=	82%	82%	=	83%	83%	=	4	4	=	109%	109%	=	110%	110%	=	138%	138%	=	110%	110%	=	
Running Brook ES	3%	3%	=	97%	97%	=	97%	97%	=	12	12	=	96%	96%	=	95%	95%	=	102%	102%	=	95%	95%	=	
St Johns Lane ES	46%	46%	=	88%	88%	=	91%	91%	=	12	12	=	96%	96%	=	73%	73%	=	76%	76%	=	73%	73%	=	
Stevens Forest ES	37%	37%	=	84%	84%	=	86%	86%	=	0	0	=	111%	111%	=	120%	120%	=	126%	126%	=	120%	120%	=	
Swansfield ES	47%	47%	=	85%	85%	=	91%	91%	=	0	0	=	131%	131%	=	131%	131%	=	137%	137%	=	131%	131%	=	
Talbot Springs ES	5%	5%	=	98%	98%	=	99%	99%	=	12	12	=	87%	87%	=	97%	97%	=	104%	104%	=	97%	97%	=	
Thunder Hill ES	4%	4%	=	98%	98%	=	98%	98%	=	12	12	=	76%	76%	=	78%	78%	=	80%	80%	=	78%	78%	=	
Triadelphia Ridge ES	20%	20%	=	90%	90%	=	94%	94%	=	0	0	=	124%	124%	=	132%	132%	=	143%	143%	=	132%	132%	=	
Veterans ES	20%	20%	=	92%	92%	=	93%	93%	=	0	0	=	119%	119%	=	124%	124%	=	124%	124%	=	124%	124%	=	
Waterloo ES	2%	2%	=	95%	95%	=	97%	97%	=	12	12	=	81%	81%	=	68%	68%	=	74%	74%	=	68%	68%	=	
Waverly ES	3%	3%	=	99%	99%	=	93%	93%	=	12	12	=	67%	67%	=	53%	53%	=	61%	61%	=	53%	53%	=	
West Friendship ES	2%	2%	=	95%	95%	=	97%	97%	=	12	12	=	96%	96%	=	102%	102%	=	95%	95%	=	102%	102%	=	
Worthington ES	18%	18%	=	92%	92%	=	93%	93%	=	7	7	=	97%	97%	=	101%	101%	=	104%	104%	=	101%	101%	=	
Overall ES	18.4%	16.0%	-	91.7%	91.6%	-	92.5%	92.4%	-	7.9	8.3	+	97.7%	96.9%	-	101.8%	101.0%	-	110.9%	110.1%	-	101.8%	101.0%	-	
Strengthened		4	+	1	+	1	+	1	+	4	+	4	+	9	+	8	+	8	+	7	+	8	+	7	+
Weakened		3	-	0	-	2	-	2	-	2	-	2	-	1	-	2	-	2	-	3	-	2	-	3	-
Negligible		33	=	39	=	37	=	37	=	34	=	34	=	30	=	30	=	30	=	30	=	30	=	30	=
Mean	18.4%	16.0%	-	91.7%	91.6%	-	92.5%	92.4%	-	7.9	8.3	+	97.7%	96.9%	-	101.8%	101.0%	-	110.9%	110.1%	-	101.8%	101.0%	-	
StdDev	16.0	16.0	-	5.9	6.0	-	5.7	5.7	-	5.7	5.7	-	17.4	14.9	-	29.9	26.3	-	37.7	34.7	-	29.9	26.3	-	

Elementary Schools	Proximity to school		Non-contiguous Areas		Transportation Cost Change		Students Moved		Students moved within 5 yrs of last ES move		Double Small Feed		2012-2017 Low Util (<90%)		2012-2017 High Util (>110%)		2018-2023 Low Util (<90%)		2018-2023 High Util (>110%)				
	Before	After	Chg	Before	After	Chg	Number	% Enrollment	Number	% Enrollment	Before	After	Chg	Before	After	Chg	Before	After	Chg	Before	After	Chg	
Atholton ES	4563	3272	+1391	1	0	+1	78	23%	0	0%	0	0	0	6	6	0	6	0	6	0	6	0	
Bellows Spring ES	6185	6185	0	0	0	0	0	0%	0	0%	1	1	0	6	6	0	6	0	6	0	6	0	
Bolliman Bridge ES	4136	5950	+1814	0	0	0	142	22%	0	0%	0	0	0	0	1	1	0	0	0	2	6	6	
Bryant Woods ES	3593	3593	0	0	0	0	0	0%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
Bushy Park ES	9494	9494	0	0	0	0	0	0%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
Centennial Lane ES	5323	5323	0	1	1	0	0	0%	0	0%	0	0	0	0	0	0	0	0	0	2	2	2	
Clarksville ES	4119	4119	0	0	0	0	0	0%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
Clemens Crossing ES	4097	4097	0	0	0	0	0	0%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
Cradlerock ES	3196	3196	0	0	0	0	0	0%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
Dayton Oaks ES	11526	12989	+1463	0	0	-2	94	16%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
Deep Run ES	6235	6235	0	0	0	0	0	0%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
Elkridge ES	4285	4285	0	0	0	0	0	0%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
Forest Ridge ES	3991	3705	-286	0	0	0	16	2%	0	0%	0	0	0	5	5	0	0	0	0	0	0	0	
Fulton ES	9308	7888	-1420	0	0	0	303	53%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
Gorman Crossing ES	5942	5769	-173	0	0	0	0	0%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
Guilford ES	5076	4528	-548	0	0	0	53	13%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
Hammond ES	4633	6004	+1371	0	0	0	247	42%	0	0%	1	1	0	1	2	1	0	0	0	0	0	0	
Hollifield Station ES	4585	4585	0	0	0	0	0	0%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
Ilchester ES	4260	4260	0	0	0	0	0	0%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
Jeffers Hill ES	3871	1918	-1953	0	0	0	0	0%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
Laurel Woods ES	2239	1918	-321	0	0	0	0	0%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
Lisbon ES	14682	14682	0	0	0	0	0	0%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
Longfellow ES	4746	4746	0	0	0	0	0	0%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
Manor Woods ES	9259	9259	0	0	0	0	0	0%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
New Northeastern ES	4902	4902	0	0	0	0	0	0%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
Northfield ES	3864	3864	0	0	0	0	0	0%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
Phelps Luck ES	4491	7853	+3362	0	0	0	287	35%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
Pointers Run ES	5288	5288	0	0	0	0	0	0%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
Rockburn ES	4892	4892	0	0	0	0	0	0%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
Running Brook ES	4757	4757	0	0	0	0	0	0%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
St Johns Lane ES	1909	1909	0	0	0	0	0	0%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
Stevens Forest ES	2827	2827	0	0	0	0	0	0%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
Swansfield ES	6522	6522	0	0	0	0	0	0%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
Talbott Springs ES	4476	4476	0	0	0	0	0	0%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
Thunder Hill ES	9063	9063	0	0	0	0	0	0%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
Triadelphia Ridge ES	7097	7097	0	0	0	0	0	0%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
Veterans ES	7255	7255	0	1	1	0	0	0%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
Waterloo ES	5125	5125	0	0	0	0	0	0%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
Waverly ES	10800	10800	0	0	0	0	0	0%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
West Friendship ES	3547	3547	0	0	0	0	0	0%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
Worthington ES	5654.0	5753.3	+99.3	0	0	0	0	0%	0	0%	0	0	0	0	0	0	0	0	0	0	0	0	
Overall ES				5	4	+1	1220	5%	0	0%	3	3	0	74	59	15	69	63	6	91	88	3	
Strengthened																							
Weakened																							
Negligible																							
Mean	5654.0	5753.3	+99.3	0.1	0.1	-0.1	30.5	5%	0.0	0%	2.0	1.8	3	1.9	1.5	1.7	1.6	1.7	2.3	2.3	2.2	2.2	
StdDev																							

Middle School	Before			After			Middle School	Before			After		
	Feeding Schools	Feed		Feeding Schools	Feed			Feeding Schools	Feed		Feeding Schools	Feed	
Bonnie Branch MS	Bellows Spring ES	12.0%		Bellows Spring ES	12.0%		Harpers Choice MS	Clemens Crossing ES	10.0%		Clemens Crossing ES	10.0%	
	Ilchester ES	43.0%		Ilchester ES	43.0%			Longfellow ES	39.1%		Longfellow ES	39.1%	
	Jeffers Hill ES	2.8%		Jeffers Hill ES	2.8%			Swansfield ES	50.8%		Swansfield ES	50.8%	
	Phelps Luck ES	27.7%		Phelps Luck ES	27.7%								
	Rockburn ES	14.5%		Rockburn ES	14.5%								
Burleigh Manor MS	Centennial Lane ES	58.6%		Centennial Lane ES	58.6%		Lime Kiln MS	Clemens Crossing ES	5.5%		Clemens Crossing ES	5.5%	
	Manor Woods ES	23.6%		Manor Woods ES	23.6%			Dayton Oaks ES	19.4%		Dayton Oaks ES	29.2%	
	Northfield ES	17.8%		Northfield ES	17.8%			Fulton ES	61.0%		Fulton ES	17.1%	
						Pointers Run ES		14.0%		Pointers Run ES	48.1%		
Clarksville MS	Clarksville ES	49.0%		Clarksville ES	49.0%		Mayfield Woods MS	Bellows Spring ES	30.3%		Bellows Spring ES	30.3%	
	Pointers Run ES	51.0%		Pointers Run ES	51.0%			Deep Run ES	29.5%		Deep Run ES	29.5%	
						Jeffers Hill ES		11.8%		Jeffers Hill ES	11.8%		
						Phelps Luck ES		6.2%		Phelps Luck ES	6.2%		
						Waterloo ES		22.3%		Waterloo ES	22.3%		
Cradlerock MS	Cradlerock ES	51.9%		Cradlerock ES	51.9%		Mount View MS	Manor Woods ES	31.5%		Manor Woods ES	31.5%	
	Guilford ES	16.7%		Guilford ES	16.7%			Waverly ES	41.9%		Waverly ES	41.9%	
	Jeffers Hill ES	19.0%		Jeffers Hill ES	19.0%			West Friendship ES	26.6%		West Friendship ES	26.6%	
	Talbott Springs ES	12.3%		Talbott Springs ES	12.3%								
Dunloggin MS	Northfield ES	37.8%		Northfield ES	37.8%		Murray Hill MS	Forest Ridge ES	22.3%		Bollman Bridge ES	6.8%	
	Thunder Hill ES	13.0%		Thunder Hill ES	13.0%			Gorman Crossing ES	31.5%		Forest Ridge ES	18.4%	
	Veterans ES	49.2%		Veterans ES	49.2%			Hammond ES	0.0%		Gorman Crossing ES	31.5%	
						Laurel Woods ES		46.2%		Hammond ES	0.0%		
									Laurel Woods ES	43.3%			
Elkridge Landing MS	Elkridge ES	64.1%		Elkridge ES	64.1%		New NE MS						
	Rockburn ES	35.9%		Rockburn ES	35.9%								
Ellicott Mills MS	Phelps Luck ES	12.7%		Phelps Luck ES	12.7%		Oakland Mills MS	Atholton ES	10.5%		Atholton ES	10.5%	
	Thunder Hill ES	3.8%		Thunder Hill ES	3.8%			Stevens Forest ES	33.6%		Stevens Forest ES	33.6%	
	Veterans ES	25.3%		Veterans ES	25.3%			Talbott Springs ES	41.8%		Talbott Springs ES	41.8%	
	Waterloo ES	25.2%		Waterloo ES	25.2%			Thunder Hill ES	14.1%		Thunder Hill ES	14.1%	
	Worthington ES	33.1%		Worthington ES	33.1%								
Folly Quarter MS	Bushy Park ES	14.5%		Bushy Park ES	14.5%		Patapsco MS	Hollifield Station ES	48.8%		Hollifield Station ES	48.8%	
	Clarksville ES	0.0%		Clarksville ES	0.0%			St Johns Lane ES	51.2%		St Johns Lane ES	51.2%	
	Dayton Oaks ES	41.6%		Dayton Oaks ES	41.6%								
	Triadelphia Ridge ES	43.9%		Triadelphia Ridge ES	43.9%								
Glenwood MS	Bushy Park ES	53.1%		Bushy Park ES	53.1%		Patuxent Valley MS	Atholton ES	9.7%		Bollman Bridge ES	37.0%	
	Lisbon ES	46.9%		Lisbon ES	46.9%			Bollman Bridge ES	41.4%		Deep Run ES	11.4%	
						Deep Run ES		11.4%		Forest Ridge ES	23.0%		
						Forest Ridge ES		23.0%		Guilford ES	18.8%		
						Guilford ES		14.3%		Hammond ES	9.7%		
Hammond MS	Atholton ES	16.3%		Atholton ES	26.2%		Wilde Lake MS	Bryant Woods ES	32.6%		Bryant Woods ES	32.6%	
	Gorman Crossing ES	14.5%		Fulton ES	35.8%			Clemens Crossing ES	26.4%		Clemens Crossing ES	26.4%	
	Guilford ES	15.6%		Guilford ES	3.0%			Running Brook ES	40.9%		Running Brook ES	40.9%	
	Hammond ES	53.6%		Hammond ES	35.1%								