

## Huber Heights City Schools, OH 2024 Redistricting Study

-Public Advisory Committee Meeting 2-

**September 23, 2024** 

Cropper G/S





## Welcome and Introductions





## Who We Are



Crepper*GIS* 



## The Company

## **Cropper GIS Consulting**

K-12 school planning is our business and our passion. Our specialty is school realignment.

Cropper works with K-12 school districts to:

- develop redistricting plans,
- facilitate community engagement,
- research, map and write demographic studies,
- prepare long-range facility master plans,
- author site feasibility studies,
- conduct & publish housing impact and yield factor studies, and
- provide GIS implementation & training.



Cropper GIS is an ESRI Authorized Business Partner



## The Company

#### **Recent Projects:**

- Cincinnati Public Schools, OH
- Columbus Public Schools, OH
- Groveport Madison Schools, OH
- Westerville City Schools, OH
- Worthington Schools, OH
- Dublin City Schools, OH
- Akron Public Schools, OH
- Northwest Local School District, OH
- Monroe Local Schools, OH
- Washington County Schools, IN
- Vigo County Schools, IN
- MSD Washington Township, IN











## **Matthew Cropper**

- More than 20 years experience providing GIS mapping and analysis services to school districts and other clients.
- Manages and Facilitates K-12 redistricting and facility planning projects across the U.S.
- Expert consultant for U.S. Department of Justice, Civil Rights Division
- Published numerous papers about using GIS in master planning and educational planning.





## **Project Objectives**

With the support of the Board of Education, Huber Heights City Schools is undertaking a redistricting study to address imbalances in school utilization and enrollment, and to pro-actively align with future facility plans. Huber Heights City Schools has begun a redistricting study to meet the following key objectives:

<u>Primary Objective:</u> Evaluate elementary attendance boundaries to ensure that the district is maintaining equity in school enrollment size and demographics.

<u>Secondary Objectives:</u> Evaluate the configuration of schools within the district to determine if there are potentially changes to grade configuration and/or school uses to ensure schools are operating efficiently.

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## **Redistricting Study**

Cropper GIS Consulting was hired by Huber Heights City Schools to facilitate and manage the project. Our firm is tasked to:

- A. <u>Develop</u> supporting materials to help facilitate the study.
- **B.** <u>Facilitate</u> an expert-based process of developing a student redistricting plan.
- *C. Empower* the community throughout the process.
- **D.** <u>Leverage</u> expertise to develop logical, efficient, and effective student redistricting options with the planning team.
- E. <u>Recommend</u> a redistricting plan to the School Board.





## Redistricting Criteria

Cropper GIS has developed a body of criteria to guide this student redistricting study. The following criteria are not listed in any particular order of importance:

#### • Balance school facility utilization

Make every effort to have equitable utilization (where possible) across the district and in accordance with school capacities and funded allotment ratios in accordance with state law. Make efficient use of available space.

#### Account for future growth

Allow for increasing attendance in high growth areas.

#### Close Proximity

Students should be assigned to the school within the closest proximity to their homes where possible.

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## **Redistricting Criteria**

## • <u>Maximize busing efficiencies in</u> transportation of students

Make every effort to account for transportation (school bus and car rider), parent commuting patterns, balance busing travel time, and costs.



#### • Minimize impact on students

Attempt to minimize the number of students impacted when making boundary adjustments.

• Account for economic, cultural, and ethnic diversity

Ensure schools are inclusionary and not adversely affected by redistricting decisions.



## **Redistricting Criteria**

• Make every effort to establish contiguous zones

Avoid creating zones that are not connected to the primary attendance zone, where possible

• <u>Use major roads and natural boundaries wherever feasible to</u> define attendance zones

Minimize the number of students who need to cross major roads and other barriers to maximize the safety and security of students and optimize transportation efficiency by containing bus routes within natural boundaries wherever possible to avoid traffic delays and late arrivals.

All criteria are in no particular order or priority, and the best plan is one that touches on all criteria but does not focus solely on one element of the criteria.





## Timeline





**Process & Timeline for Redistricting** 

	March	April	May	June	July	August	September	October	November	December
	2024	2024	2024	2024	2024	2024	2024	2024	2024	2024
Data Collection										
Data Analysis / Assimilation										
Redistricting Baseline Options Development										
Internal Planning Team Work (1-2 meetings per month)										
Public Information Session #1 : Present Project Process,										
Criteria, Timeline, and Redistricting Objectives to Community.		4/22								
Information meeting to public. No Options shared at this		4/22								
point.										
Public Advisory Committee Meeting 1										
- Review Background Data, Objectives, and Fall Planning			5/20							
Logistics										
Public Advisory Committee Meeting 2							9/23			
- Review DRAFT Options							9/23			
Public Information Session #2: Present DRAFT Redistricting								10/24		
Options to General Public for Comment/Feedback								10/24		
Public Advisory Committee Meeting 3										
- Review Survey Feedback/Results, Final considerations									11/18	
regarding DRAFT Options										
Presentation of Redistricting Plan to the Board of Education										12/12





## Communication Logistics





## **Communication Logistics**

#### • HHCS redistricting process website!:

- Helps to refer inquiring community to this website to answer questions about the student redistricting process, schedule and a quantity of data and maps.
- https://www.hhcsredistricting.com/
- An <u>online feedback form</u> is on this page where any member of the public can provide ongoing input.
- Materials for Public Advisory Committee meetings and the October Public Information Session will be posted on the website.



## **Communication Logistics**

#### **Cropper GIS Contact Info:**

Matthew Cropper info@croppergis.com 614.451.1242

#### **Huber Heights City Schools Contact:**

Jason Enix superintendent@myhhcs.org 937.237.6300 Ext. 8

Please remember to use the online comment form for general comments and questions.





## Options Development





## **Options Development**

The Internal Planning Team, facilitated by Cropper GIS, has been hard at work for the past six months developing options.

Cropper GIS started the process by creating baseline options based on the available data.

The IPT has been meeting multiple times monthly to review and discuss the options, starting with the original baseline options. Each time, the options and have been revised and analyzed again.

Many different approaches have been reviewed, and two options remain, labeled Option A and Option B. Option A is a fully comprehensive option that addresses all the criteria, and Option B is a more conservative approach that improves the district's situation with minimal impact.

The Public Advisory Committee has played an invaluable role in this process, providing feedback after the first PAC meeting that was immediately incorporated into this process.



### **Options Statistical Analysis and Maps**

We will now review a series of tables that depict statistics for options that are being evaluated.

This information will help inform all stakeholders on how schools could be potentially impacted as a result of potential redistricting adjustments.

All calculations were derived from the district's 2023-24 Enrollment student database dated March 25, 2024.

#### Glossary of Terms

Capacity - The number of students that an individual school has the physical capacity to enroll and can be reasonably accommodated in a facility.

<u>Utilization</u> - Utilization is the total enrollment divided by the capacity, described as a percentage.

Live-in students - Students residing inside of a school attendance boundary, regardless of where that student attends school.

Live and Attend - Students who attend the assigned schools for the zones where they live.

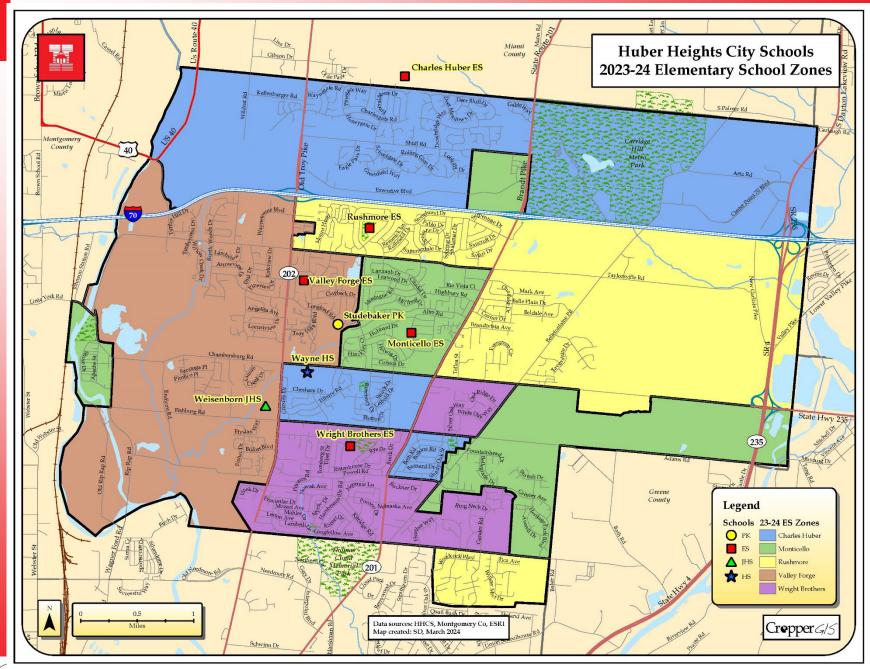
Live Out Attend In - Students that live outside of their attending school's boundary but reside within the Huber Heights City Schools district boundary.

Out of District students - Students that live outside of Huber Heights City Schools district boundary.

<u>Unmatched students</u> - Students whose address was not able to be located by the GIS.











## 2023-24 Elementary School Enrollment Statistics

Within 10% Between 10									ES Curro	ent Enrollme	nt (2023-24)				
Over/Unde	er 15%		2023-24 Enrollment and Utilization Enrolled Live-Attend												
Elementary School	Capacity	K	1	2	3	4	5	6	Current Enrollment	Current Utilization	Trend	Live-In	Live-and- Attend-In	Live-Out- and-Attend- In	Out of District
Charles Huber Elementary	690	104	93	94	81	104	92	73	641	93%		644	599	42	5
Monticello Elementary	668	78	84	83	69	98	83	78	573	86%	-	549	517	56	17
Rushmore Elementary	668	91	96	91	81	91	96	94	640	96%	-	647	598	42	7
Valley Forge Elementary	690	71	84	70	69	72	74	86	526	76%	-	509	476	50	4
Wright Brothers Elementary	704	90	111	92	91	99	104	90	677	96%	_	671	632	45	4
Total	3,420	434	468	430	391	464	449	421	3,057	89%	_	3,020	2,822	235	37

Counts based on HHCS student database dated 03/25/2024





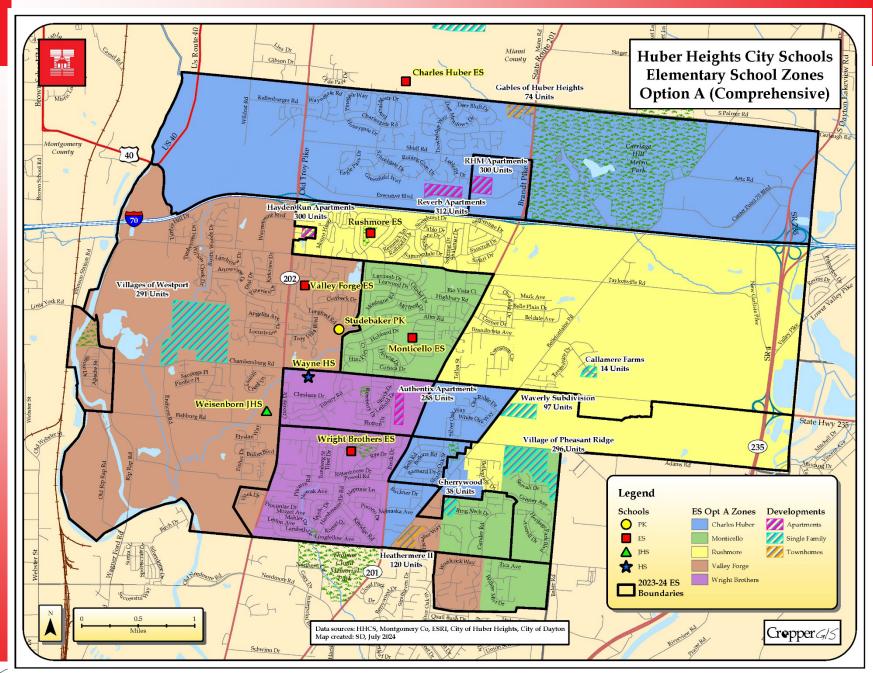
## 2023-24 Elementary Demographic Statistics

Within 10%  Between 10-15%			ES Curren		ES Current Enrollment (2023-24)									
Over/Under 15%			Ra	ace Percenta	Percentage Lunch Percentage									
Elementary School	Asian	Black	Hispanic	American Indian	Mutli-racial	Native Hawaiian or P.I.	White	Free	None	Reduced				
Charles Huber Elementary	1%	22%	13%	0%	15%	0%	50%	35%	62%	3%				
Monticello Elementary	1%	27%	9%	0%	12%	0%	51%	36%	58%	6%				
Rushmore Elementary	3%	27%	6%	0%	14%	0%	50%	38%	56%	6%				
Valley Forge Elementary	3%	27%	6%	0%	17%	0%	47%	41%	54%	5%				
Wright Brothers Elementary	3%	23%	11%	0%	11%	0%	52%	40%	55%	5%				
Total	2%	25%	9%	0%	14%	0%	50%	38%	57%	5%				

Counts based on HHCS student database dated 03/25/2024









## **Option A Enrollment Statistics**

Within 10%
Between 10-15%
Over/Under 15%

3,420

468

434

430

Over/Un	nder 15%				Option A (C	tion A (Comprehensive) Estimated Enrollment						
Elementary School	Capacity	K	1	2	3	4	5	6	Option A Estimated	Option A Utilization	Trend	
Charles Huber Elementary	690	93	93	86	84	113	87	79	635	92%	-	
Monticello Elementary	668	85	86	86	72	87	92	83	591	88%	-	
Rushmore Elementary	668	84	86	81	76	82	92	93	594	89%	▶	
Valley Forge Elementary	690	86	101	88	81	87	90	95	628	91%		
Wright Brothers Elementary	704	86	102	89	78	95	88	71	609	87%		

391

464

449

3,057

421

89%



Total



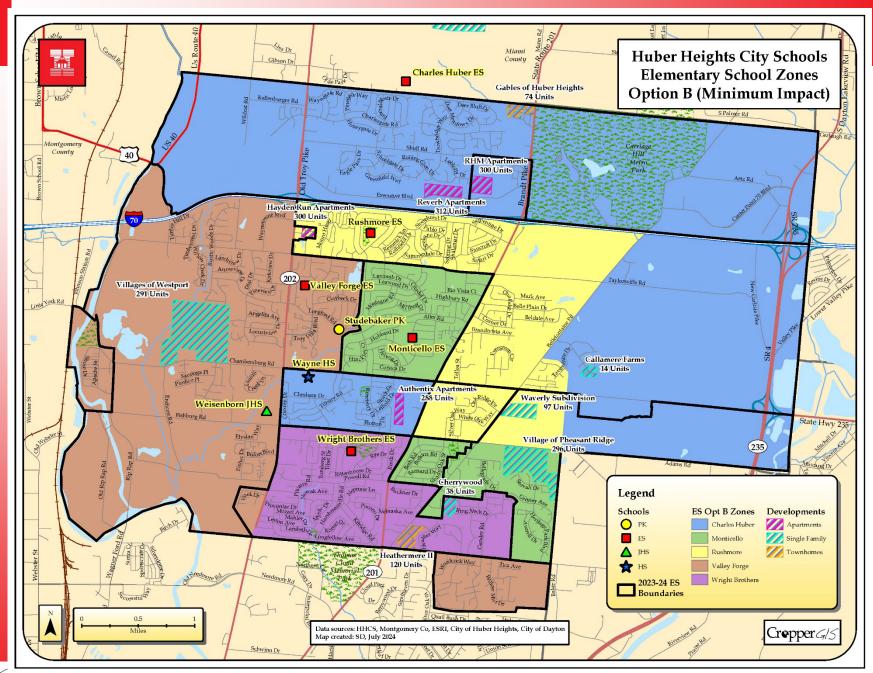
## **Option A Demographic Statistics**

Over/Under 15%
Between 10-15%
Within 10%

Between 10-15% Over/Under 15%	(	Option A Rac		Option A Lunch			
Elementary School	Black	White	Hispanic	Other	Free	Paid	
Charles Huber Elementary	25%	50%	10%	15%	41%	59%	
Monticello Elementary	28%	50%	7%	16%	42%	58%	
Rushmore Elementary	27%	50%	5%	18%	44%	56%	
Valley Forge Elementary	25%	50%	8%	17%	45%	55%	
Wright Brothers Elementary	20%	52%	15%	13%	44%	56%	
Tota1	24%	50%	9%	16%	43%	57%	









#### **Option B Enrollment Statistics**

Within 10%

Between 10-15%

Over/Under 15%

3,420

#### Option B (Minimum Impact) Estimated Enrollment Option B Option B **Elementary School** Capacity K Trend **Estimated** Utilization Charles Huber Elementary 88% Monticello Elementary 92% Rushmore Elementary 90% Valley Forge Elementary 88% Wright Brothers Elementary 89%

3,057

89%



**Total** 



## **Option B Demographic Statistics**

VVIIIII 10 /0													
Between 10-15% Over/Under 15%		Option B Rac	Option B Lunch										
Elementary School	Black	White	Hispanic	Other	Free	Paid							
Charles Huber Elementary	23%	49%	13%	15%	37%	63%							
Monticello Elementary	25%	51%	9%	14%	46%	54%							
Rushmore Elementary	28%	50%	5%	18%	45%	55%							
Valley Forge Elementary	26%	51%	6%	17%	44%	56%							
Wright Brothers Elementary	22%	50%	12%	15%	44%	56%							
Total	24%	50%	9%	16%	43%	57%							





## **Option Impacts**

Student Impact Estimates								
	Total K-6th	Percent K-6th						
Option	Live-In	Live-In						
		Students Impacted						
	Students Impacted	Students Impacted						
Option A	Students Impacted 584	Students Impacted 19.3%						

ES Zone 2023-24	ES Option A (Comprehensive)	Total 2023-24 K-6th Live-In Students
Charles Huber	Charles Huber	474
Charles Huber	Wright Brothers	170
Monticello	Charles Huber	40
Monticello	Monticello	459
Monticello	Rushmore	24
Monticello	Valley Forge	26
Rushmore	Monticello	13
Rushmore	Rushmore	561
Rushmore	Valley Forge	73
Valley Forge	Rushmore	2
Valley Forge	Valley Forge	507
Wright Brothers	Charles Huber	116
Wright Brothers	Monticello	102
Wright Brothers	Valley Forge	18
Wright Brothers	Wright Brothers	435

ES Zone 2023-24	ES Option B (Minimum Impact)	Total 2023-24 K-6th Live-In Students
Charles Huber	Charles Huber	556
Charles Huber	Monticello	88
Monticello	Charles Huber	24
Monticello	Monticello	512
Monticello	Rushmore	3
Monticello	Valley Forge	10
Rushmore	Charles Huber	20
Rushmore	Rushmore	541
Rushmore	Valley Forge	86
Valley Forge	Rushmore	2
Valley Forge	Valley Forge	507
Wright Brothers	Rushmore	46
Wright Brothers	Valley Forge	2
Wright Brothers	Wright Brothers	623





#### Option A and B Criteria Adherence



In Option A and B, every school is brought withing 3 percentage points of the district average of 89% utilization. The range is 87-92%.



Several satellite areas are eliminated in both options, allowing Wright Brothers and Rushmore to become completely contiguous zones.



The district is very well balanced demographically. Neither option upsets that balance, and all demographic categories remain well withing 10% of district averages in both options.



Planned developments and their potential student yields were considered for all options. Both options create space for growth at every school, including growth from new development.





Option A consolidates Wright Brothers ES, creating an entirely walkable zone, allowing almost 200 additional students to walk to school, compared to the existing zone configuration. This greatly improves transportation efficiency. Option B achieves utilization balance while minimizing student impact, with less than 10% of the student population estimated to be impacted.



Every effort was made in both options to avoid splitting neighborhoods in ways that would negatively impact communities, and to consider the safety of students walking or potentially walking to school. IPT and PAC input was invaluable to this process.



## **Questions?**





Please break into small groups to review maps and discuss further.

Thoughts about walkability across Fishburg Road for Wright Brothers ES?

When small group work is completed, please place a sticker on the option you feel is best for Huber Heights students and schools.



Data Collection

Presentation of Redistricting Plan to the Board of Education

# Public Information Session is October 24, and Next PAC Meeting is November 18, where DRAFT Redistricting Options will be reviewed for the final time.

August

2024

September

2024

October

2024

November

2024

December

2024

12/12

Process & Timeline for Redistricting

March April May June July

2024

2024

2024

2024

2024

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