



Richmond Public Schools, VA Utilization Analysis

May 2019

School Utilization Modeling

School utilization refers to the 'percent full' a building is. It is calculated by dividing the enrollment by the building capacity. A color-scale has been set to help visualize how building utilization varies among schools across the district. The legend to the right shows what the colors reflect.

Below 75% Utilization
Between 75-85% Utilization
Between 85-95% Utilization
Between 95-105% Utilization
Between 105-115% Utilization
Over 115% Utilization

Forecast Enrollment

The first table shows the forecasted enrollment for each school. The second table shows the utilization for each school using the forecasted enrollment.

	Capacity	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
BARACK OBAMA ELEM.	402	339	359	379	387	394	405	401	394	387	379	371
BELLEVUE ELEM.	361	245	264	276	283	285	288	285	281	277	273	271
BLACKWELL ELEM.	601	454	465	471	483	489	489	486	482	476	469	464
BROAD ROCK ELEM.	721	1029	1031	1036	1039	1015	1012	1001	989	978	971	963
CHIMBORAZO ELEM.	560	428	440	444	462	469	482	474	466	458	451	442
E.S.H. GREENE ELEM.	1000	705	694	692	700	695	682	681	677	670	663	655
ELIZABETH D. REDD ELEM.	424	438	423	425	413	410	398	395	392	393	393	394
FAIRFIELD COURT ELEM.	499	513	514	514	543	547	551	547	540	532	523	517
G.H. REID ELEM.	632	765	755	773	793	813	815	809	802	793	783	772
GEORGE MASON ELEM.	750	444	425	416	419	416	417	415	412	408	405	401
GEORGE W. CARVER ELEM.	700	493	491	485	467	465	466	464	460	456	453	451
GINTER PARK ELEM.	389	341	350	357	358	360	359	360	358	355	350	342
J.B. FISHER ELEM.	386	318	326	333	351	371	375	371	368	364	360	354
J.L. FRANCIS ELEM.	566	646	674	677	693	713	712	702	691	679	673	663
JOHN B. CARY ELEM.	336	306	317	332	343	353	375	373	370	368	364	362
LINWOOD HOLTON ELEM.	591	669	698	708	739	758	749	743	734	726	717	709
MARY MUNFORD ELEM.	508	560	575	578	576	572	550	550	547	544	541	537
MILES JONES ELEM.	575	708	730	741	744	752	759	751	742	732	721	710
OAK GROVE/BELLEMEADE ELEM.	739	715	726	732	751	762	778	769	759	751	740	729
OVERBY-SHEPPARD ELEM.	408	414	427	445	466	476	509	502	495	489	482	474
SOUTHAMPTON ELEM.	531	434	427	440	435	436	431	430	427	423	420	414
SWANSBORO ELEM.	296	256	246	253	261	264	252	256	259	260	260	258
WESTOVER HILLS ELEM.	451	471	497	505	530	531	537	530	522	513	504	495
WILLIAM FOX ELEM.	477	518	497	496	500	501	510	506	501	496	490	485
WOODVILLE ELEM.	552	405	404	397	390	393	393	393	391	388	385	380
ES Total	13455	12614	12755	12905	13126	13240	13294	13194	13059	12916	12770	12613

ALBERT HILL MIDDLE	819	613	610	615	586	597	613	603	602	595	595	591
BINFORD MIDDLE	661	440	459	441	432	419	404	421	441	479	480	477
ELKHARDT MIDDLE	1500	944	1062	1160	1165	1129	1161	1233	1295	1312	1302	1293
HENDERSON MIDDLE	977	413	424	435	447	470	489	523	545	558	556	551
LUCILLE M. BROWN MIDDLE	779	873	898	871	893	899	930	925	936	939	936	934
MARTIN LUTHER KING JR. MIDDLE	876	762	725	732	661	667	667	716	739	760	754	747
THOMAS C. BOUSHALL MIDDLE	885	822	829	840	829	899	895	922	913	921	912	915
MS Total	6497	4867	5007	5094	5013	5080	5159	5343	5471	5564	5535	5508

ARMSTRONG HIGH	1255	968	987	951	977	976	954	952	931	930	964	1008
FRANKLIN MILITARY ACADEMY	550	400	400	400	400	400	400	400	400	400	400	400
GEORGE WYTHE HIGH	1401	1278	1357	1440	1536	1580	1652	1704	1718	1716	1736	1779
HUGUENOT HIGH	1426	1511	1410	1427	1483	1572	1604	1654	1651	1681	1737	1762
JOHN MARSHALL HIGH	1391	704	659	631	638	618	631	647	654	679	707	727
OPEN HIGH	198	200	194	194	196	198	203	207	205	205	210	215
RICHMOND COMMUNITY HIGH	726	241	242	239	248	265	271	276	274	274	280	285
THOMAS JEFFERSON HIGH	1127	821	846	871	904	909	896	889	865	838	859	873
HS Total	8074	6123	6095	6153	6382	6518	6611	6729	6698	6723	6893	7049

Grand Total	28026	23604	23857	24152	24521	24838	25064	25266	25228	25203	25198	25170
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Forecast Utilization

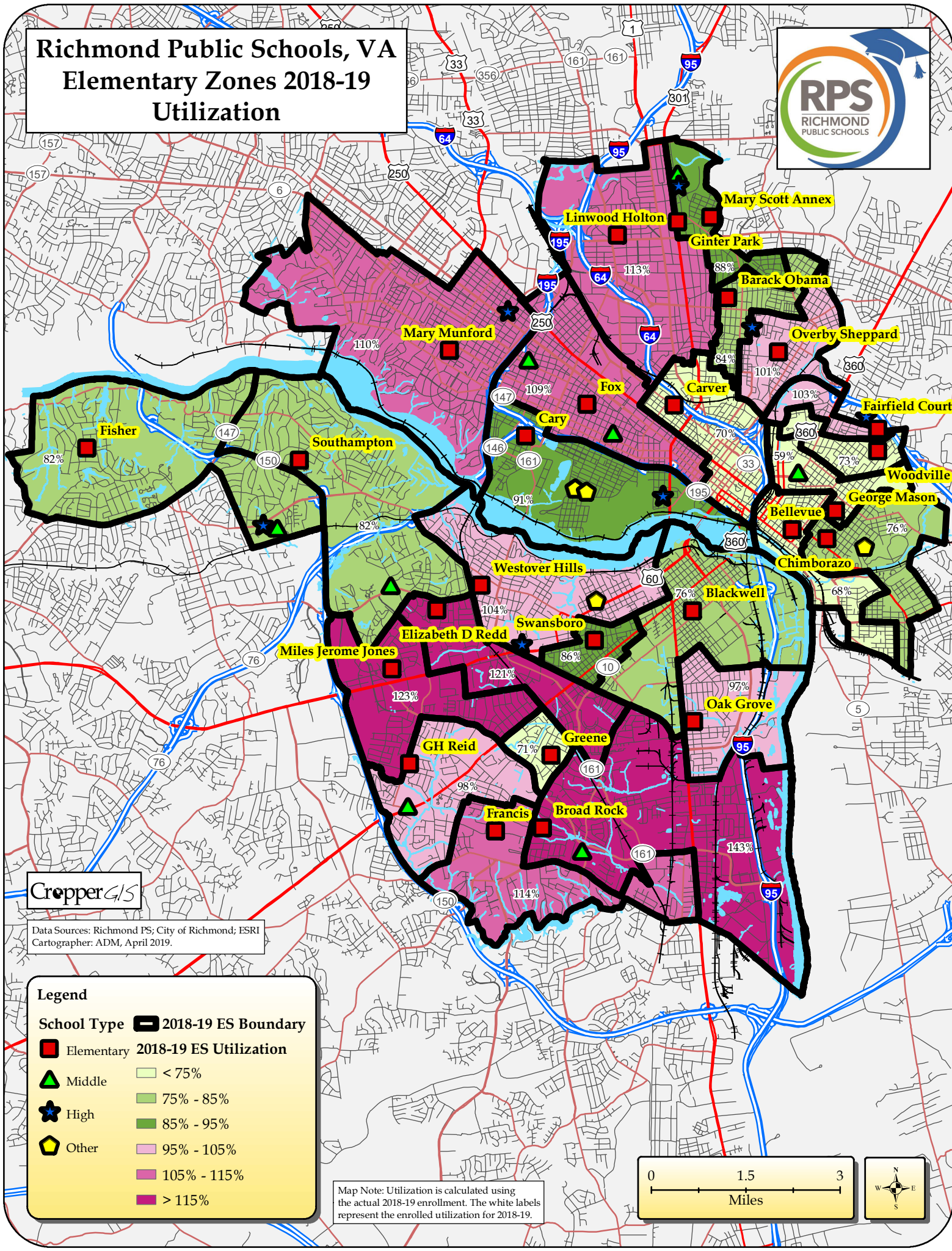
	Capacity	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
BARACK OBAMA ELEM.	402	84%	89%	94%	96%	98%	101%	100%	98%	96%	94%	92%
BELLEVUE ELEM.	361	68%	73%	76%	78%	79%	80%	79%	78%	77%	76%	75%
BLACKWELL ELEM.	601	76%	77%	78%	80%	81%	81%	81%	80%	79%	78%	77%
BROAD ROCK ELEM.	721	143%	143%	144%	144%	141%	140%	139%	137%	136%	135%	134%
CHIMBORAZO ELEM.	560	76%	79%	79%	83%	84%	86%	85%	83%	82%	81%	79%
E.S.H. GREENE ELEM.	1000	71%	69%	69%	70%	70%	68%	68%	68%	67%	66%	66%
ELIZABETH D. REDD ELEM.	424	103%	100%	100%	97%	97%	94%	93%	92%	93%	93%	93%
FAIRFIELD COURT ELEM.	499	103%	103%	103%	109%	110%	110%	110%	108%	107%	105%	104%
G.H. REID ELEM.	632	121%	119%	122%	125%	129%	129%	128%	127%	125%	124%	122%
GEORGE MASON ELEM.	750	59%	57%	55%	56%	55%	56%	55%	55%	54%	54%	53%
GEORGE W. CARVER ELEM.	700	70%	70%	69%	67%	66%	67%	66%	66%	65%	65%	64%
GINTER PARK ELEM.	389	88%	90%	92%	92%	93%	92%	93%	92%	91%	90%	88%
J.B. FISHER ELEM.	386	82%	84%	86%	91%	96%	97%	96%	95%	94%	93%	92%
J.L. FRANCIS ELEM.	566	114%	119%	120%	122%	126%	126%	124%	122%	120%	119%	117%
JOHN B. CARY ELEM.	336	91%	94%	99%	102%	105%	112%	111%	110%	110%	108%	108%
LINWOOD HOLTON ELEM.	591	113%	118%	120%	125%	128%	127%	126%	124%	123%	121%	120%
MARY MUNFORD ELEM.	508	110%	113%	114%	113%	113%	108%	108%	108%	107%	106%	106%
MILES JONES ELEM.	575	123%	127%	129%	129%	131%	132%	131%	129%	127%	125%	123%
OAK GROVE/BELLEMEADE ELEM.	739	97%	98%	99%	102%	103%	105%	104%	103%	102%	100%	99%
OVERBY-SHEPPARD ELEM.	408	101%	105%	109%	114%	117%	125%	123%	121%	120%	118%	116%
SOUTHAMPTON ELEM.	531	82%	80%	83%	82%	82%	81%	81%	80%	80%	79%	78%
SWANSBORO ELEM.	296	86%	83%	85%	88%	89%	85%	86%	88%	88%	88%	87%
WESTOVER HILLS ELEM.	451	104%	110%	112%	118%	118%	119%	118%	116%	114%	112%	110%
WILLIAM FOX ELEM.	477	109%	104%	104%	105%	105%	107%	106%	105%	104%	103%	102%
WOODVILLE ELEM.	552	73%	73%	72%	71%	71%	71%	71%	71%	70%	70%	69%
ES Total	13705	94%	95%	96%	98%	98%	99%	98%	97%	96%	95%	94%

	Capacity	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
ALBERT HILL MIDDLE	819	75%	74%	75%	72%	73%	75%	74%	74%	73%	73%	72%
BINFORD MIDDLE	661	67%	69%	67%	65%	63%	61%	64%	67%	72%	73%	72%
ELKHARDT MIDDLE	1500	63%	71%	77%	78%	75%	77%	82%	86%	87%	87%	86%
HENDERSON MIDDLE	977	42%	43%	45%	46%	48%	50%	54%	56%	57%	57%	56%
LUCILLE M. BROWN MIDDLE	779	112%	115%	112%	115%	115%	119%	119%	120%	121%	120%	120%
MARTIN LUTHER KING JR. MIDDLE	876	87%	83%	84%	75%	76%	76%	82%	84%	87%	86%	85%
THOMAS C. BOUSHALL MIDDLE	885	93%	94%	95%	94%	102%	101%	104%	103%	104%	103%	103%
MS Total	6497	75%	77%	78%	77%	78%	79%	82%	84%	86%	85%	85%

	Capacity	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
ARMSTRONG HIGH	1255	77%	79%	76%	78%	78%	76%	76%	74%	74%	77%	80%
FRANKLIN MILITARY ACADEMY	550	73%	73%	73%	73%	73%	73%	73%	73%	73%	73%	73%
GEORGE WYTHE HIGH	1401	91%	97%	103%	110%	113%	118%	122%	123%	122%	124%	127%
HUGUENOT HIGH	1426	106%	99%	100%	104%	110%	112%	116%	116%	118%	122%	124%
JOHN MARSHALL HIGH	1391	51%	47%	45%	46%	44%	45%	47%	47%	49%	51%	52%
OPEN HIGH	198	101%	98%	98%	99%	100%	103%	105%	104%	104%	106%	109%
RICHMOND COMMUNITY HIGH	726	33%	33%	33%	34%	37%	37%	38%	38%	38%	39%	39%
THOMAS JEFFERSON HIGH	1127	73%	75%	77%	80%	81%	80%	79%	77%	74%	76%	77%
HS Total	8074	76%	75%	76%	79%	81%	82%	83%	83%	83%	85%	87%

Total	23489	84%	85%	86%	87%	89%	89%	90%	90%	90%	90%	90%
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Richmond Public Schools, VA Elementary Zones 2018-19 Utilization



Cropper GIS

Data Sources: Richmond PS; City of Richmond; ESRI
Cartographer: ADM, April 2019.

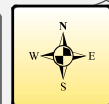
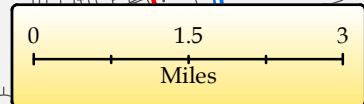
Legend

School Type 2018-19 ES Boundary

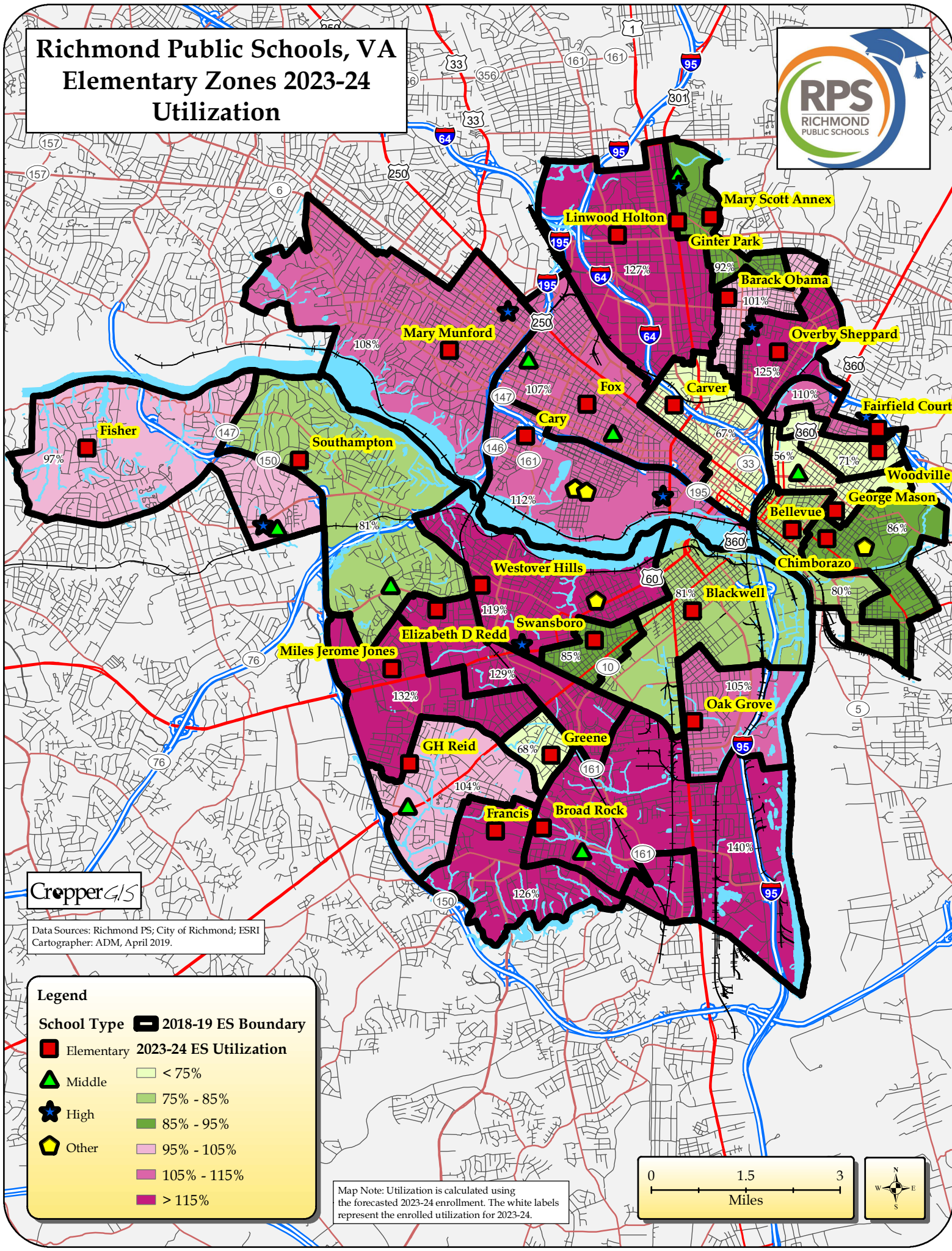
Elementary **2018-19 ES Utilization**

- Middle < 75%
- High 75% - 85%
- Other 85% - 95%
- 95% - 105%
- 105% - 115%
- > 115%

Map Note: Utilization is calculated using the actual 2018-19 enrollment. The white labels represent the enrolled utilization for 2018-19.



Richmond Public Schools, VA Elementary Zones 2023-24 Utilization



Cropper GIS

Data Sources: Richmond PS; City of Richmond; ESRI
Cartographer: ADM, April 2019.

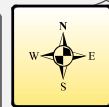
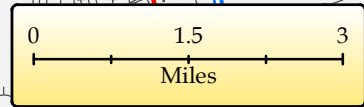
Legend

School Type 2018-19 ES Boundary

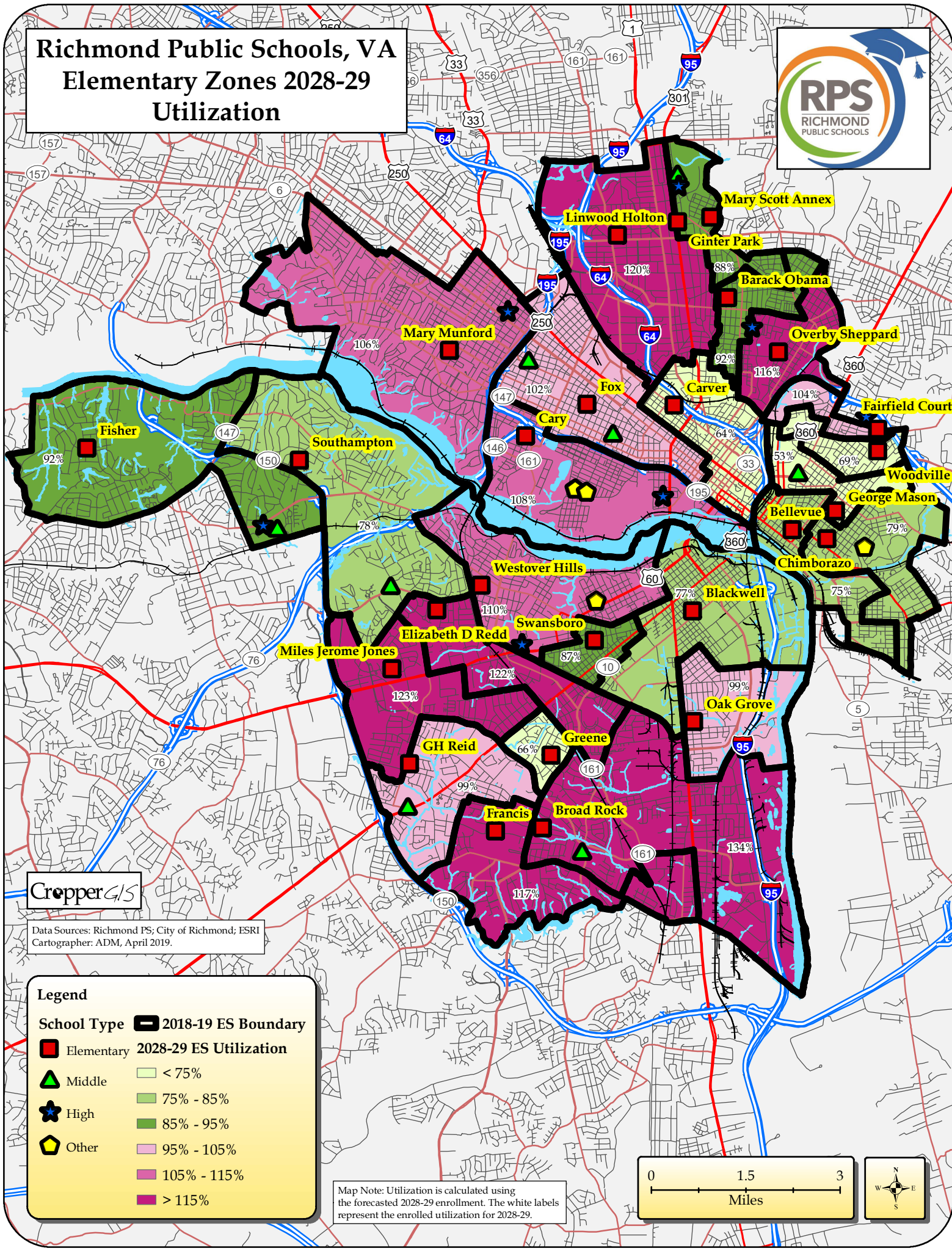
Elementary **2023-24 ES Utilization**

- Middle
 - High
 - Other
- | | |
|--|-------------|
| | < 75% |
| | 75% - 85% |
| | 85% - 95% |
| | 95% - 105% |
| | 105% - 115% |
| | > 115% |

Map Note: Utilization is calculated using the forecasted 2023-24 enrollment. The white labels represent the enrolled utilization for 2023-24.



Richmond Public Schools, VA Elementary Zones 2028-29 Utilization



Cropper GIS

Data Sources: Richmond PS; City of Richmond; ESRI
Cartographer: ADM, April 2019.

Legend

School Type 2018-19 ES Boundary

Elementary **2028-29 ES Utilization**

Middle

High

Other

< 75%

75% - 85%

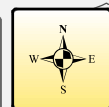
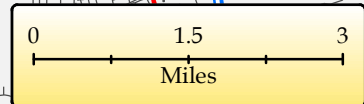
85% - 95%

95% - 105%

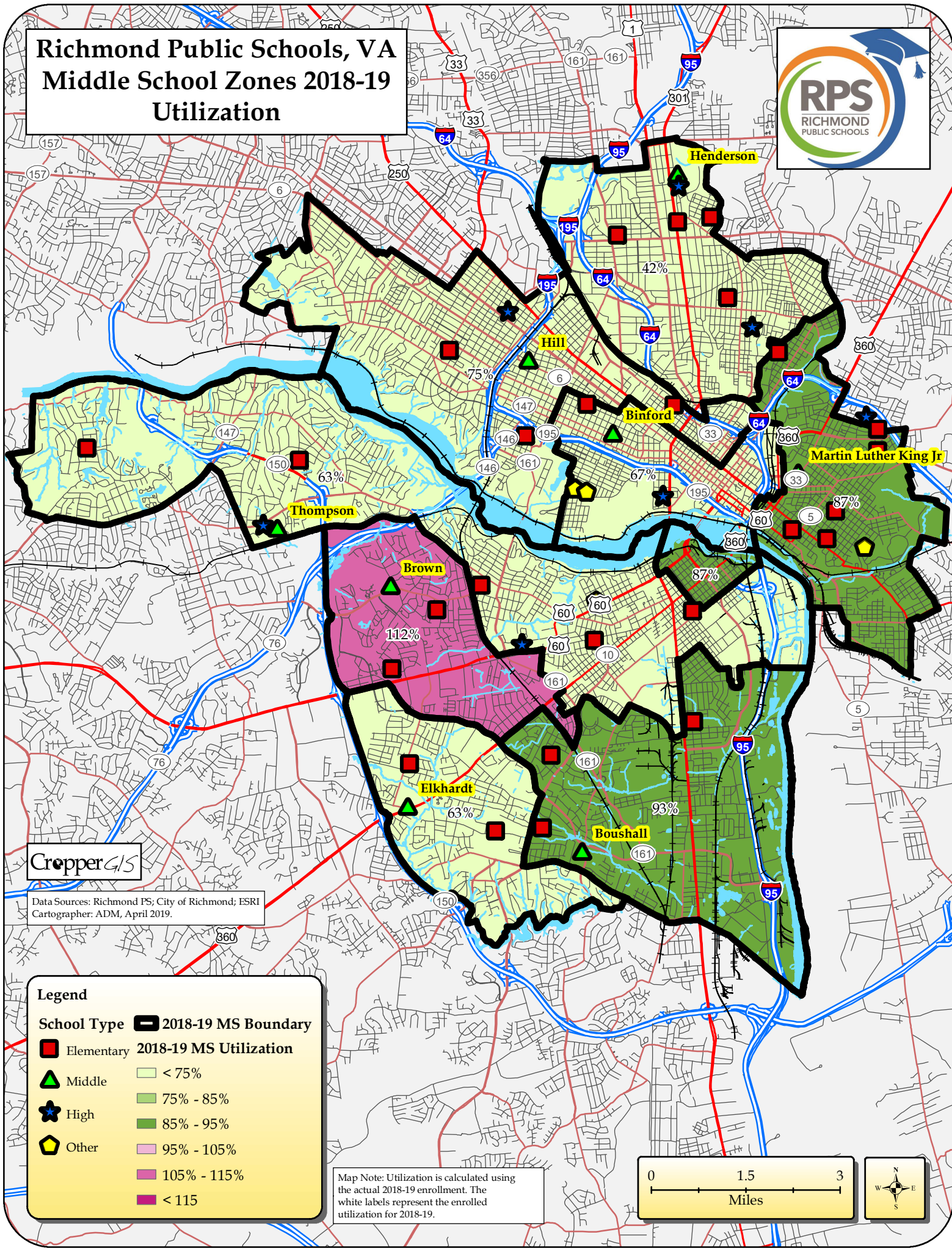
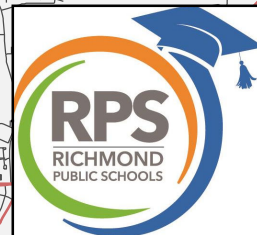
105% - 115%

> 115%

Map Note: Utilization is calculated using the forecasted 2028-29 enrollment. The white labels represent the enrolled utilization for 2028-29.



Richmond Public Schools, VA Middle School Zones 2018-19 Utilization



CrepperGIS

Data Sources: Richmond PS; City of Richmond; ESRI
Cartographer: ADM, April 2019.

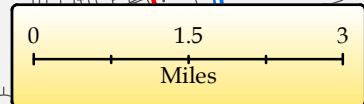
Legend

School Type **2018-19 MS Boundary**

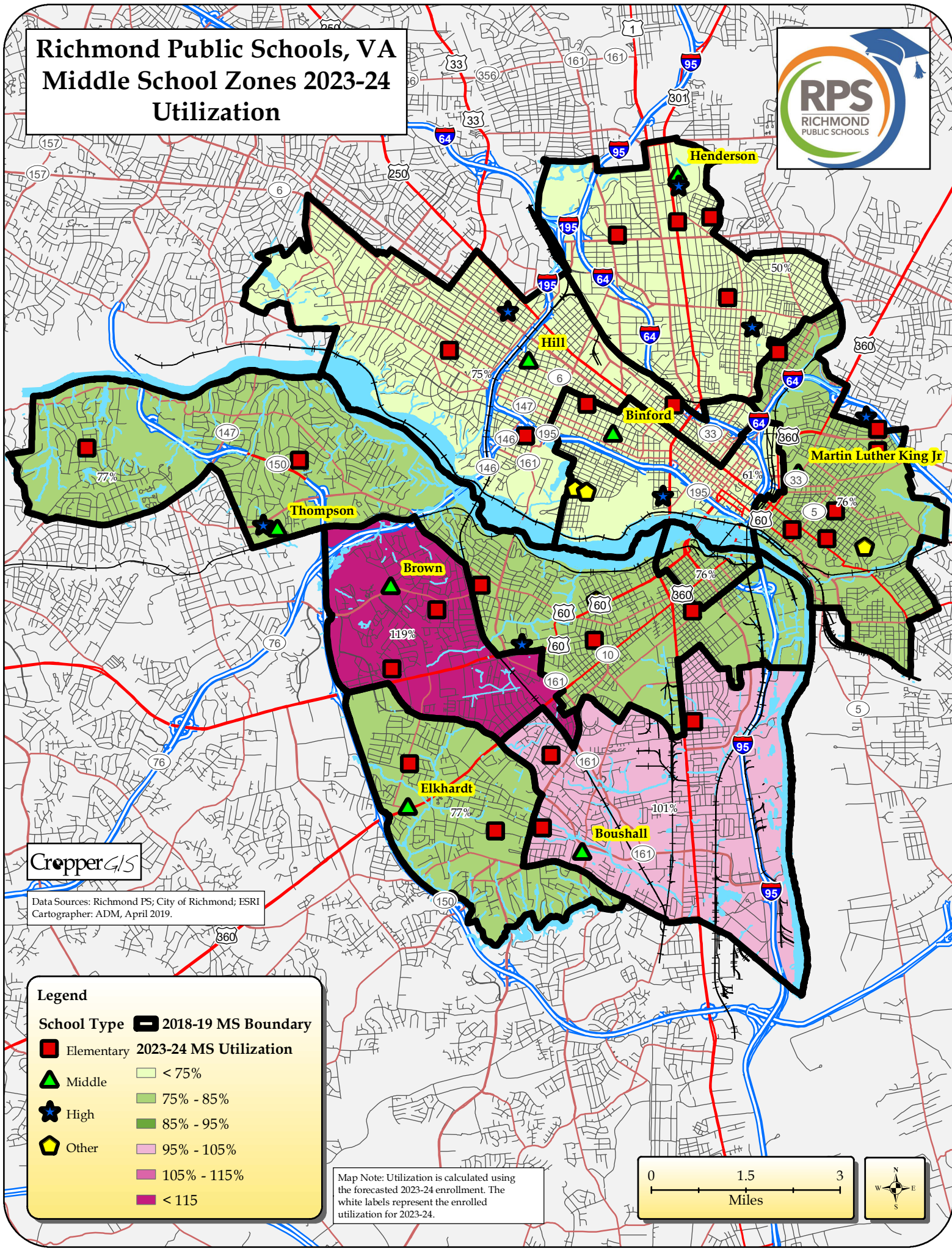
Elementary **2018-19 MS Utilization**

- Middle
 - High
 - Other
- | | |
|--|-------------|
| | < 75% |
| | 75% - 85% |
| | 85% - 95% |
| | 95% - 105% |
| | 105% - 115% |
| | < 115 |

Map Note: Utilization is calculated using the actual 2018-19 enrollment. The white labels represent the enrolled utilization for 2018-19.



Richmond Public Schools, VA Middle School Zones 2023-24 Utilization



CrepperGIS

Data Sources: Richmond PS; City of Richmond; ESRI
Cartographer: ADM, April 2019.

Legend

School Type 2018-19 MS Boundary

Elementary **2023-24 MS Utilization**

Middle

High

Other

< 75%

75% - 85%

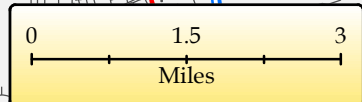
85% - 95%

95% - 105%

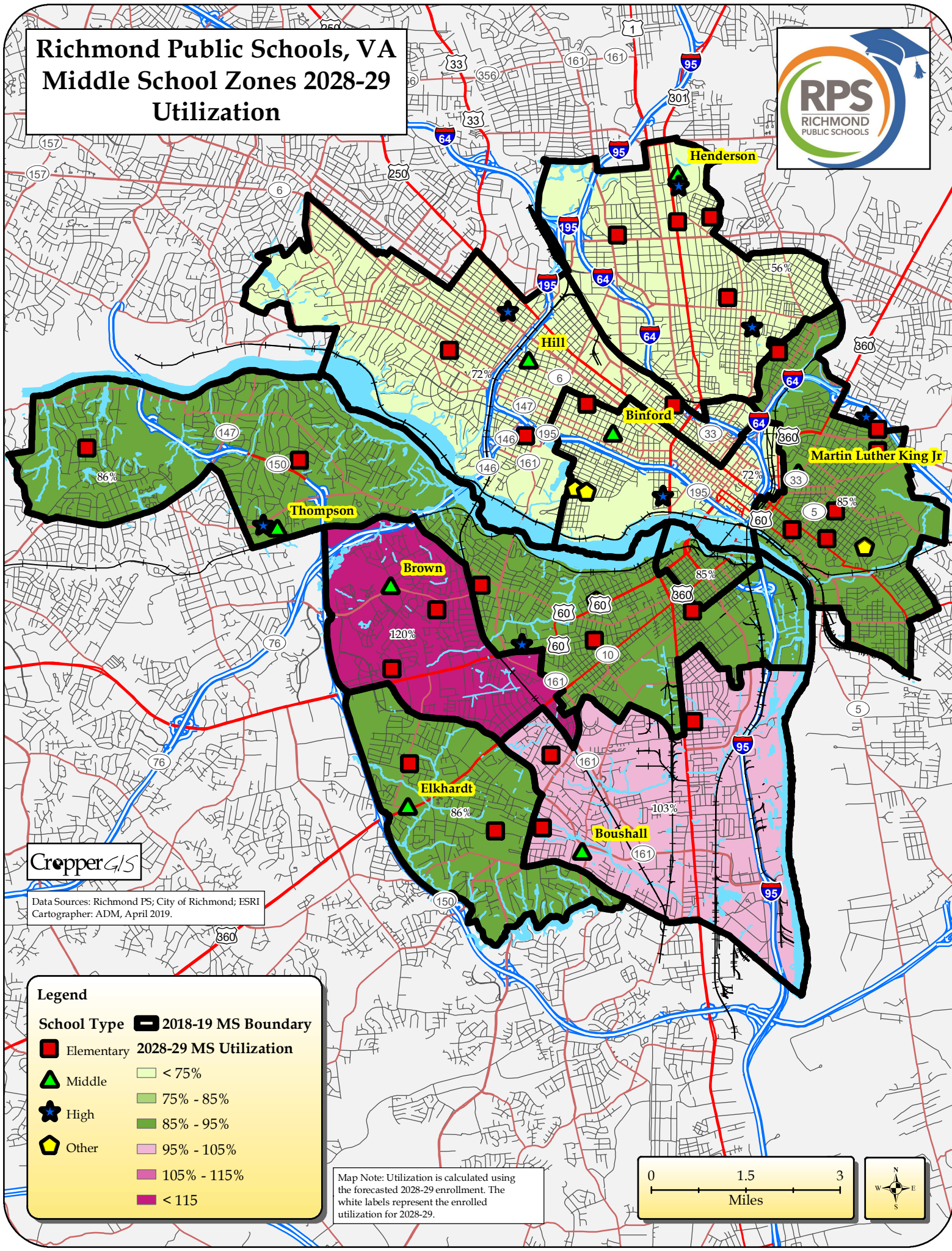
105% - 115%

< 115

Map Note: Utilization is calculated using the forecasted 2023-24 enrollment. The white labels represent the enrolled utilization for 2023-24.



Richmond Public Schools, VA Middle School Zones 2028-29 Utilization



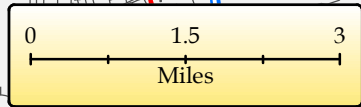
CrepperGIS

Data Sources: Richmond PS; City of Richmond; ESRI
Cartographer: ADM, April 2019.

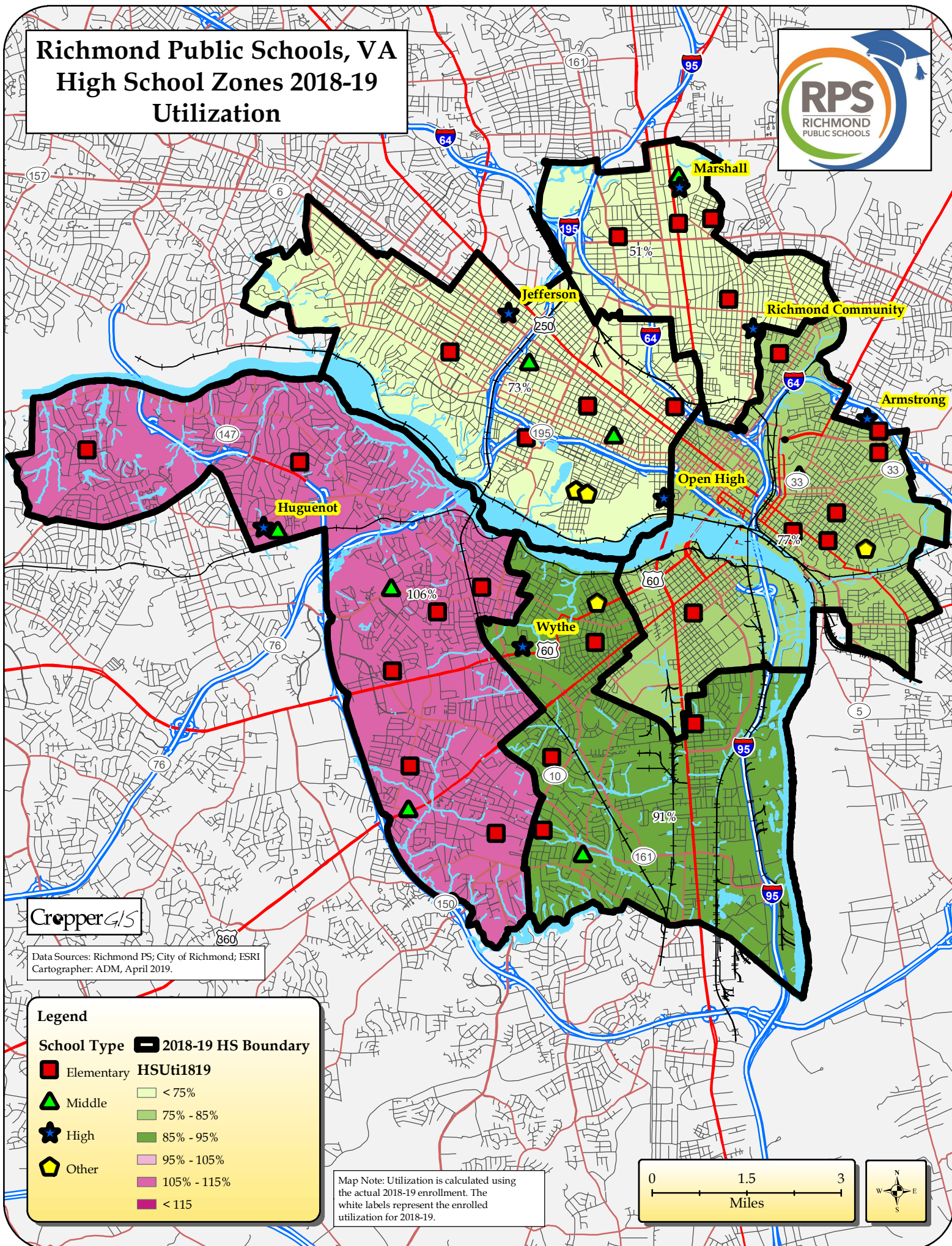
Legend

- | | |
|--------------------|-------------------------------|
| School Type | 2018-19 MS Boundary |
| Elementary | 2028-29 MS Utilization |
| Middle | < 75% |
| High | 75% - 85% |
| Other | 85% - 95% |
| | 95% - 105% |
| | 105% - 115% |
| | < 115% |

Map Note: Utilization is calculated using the forecasted 2028-29 enrollment. The white labels represent the enrolled utilization for 2028-29.



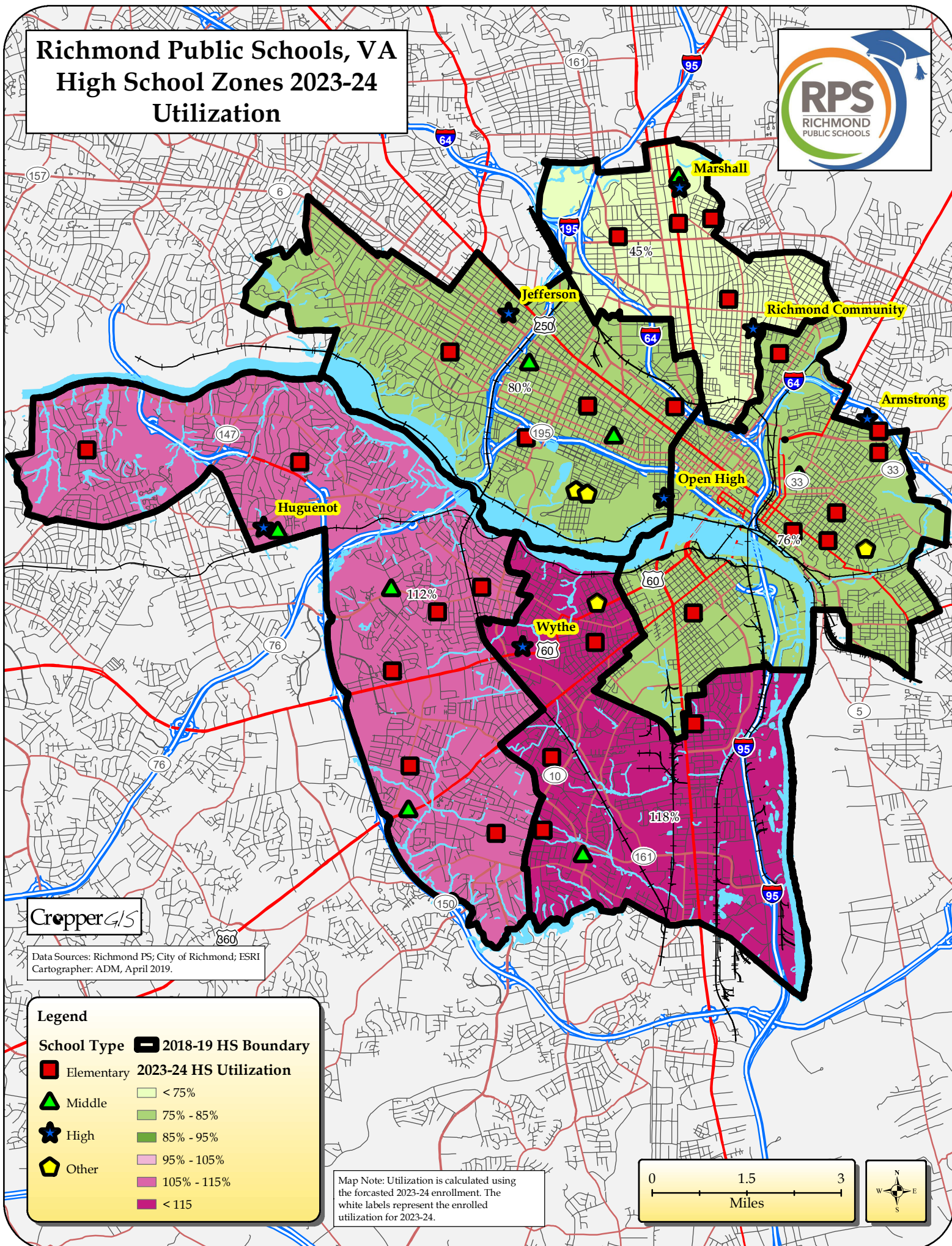
Richmond Public Schools, VA High School Zones 2018-19 Utilization



CropperGIS

Data Sources: Richmond PS; City of Richmond; ESRI
Cartographer: ADM, April 2019.

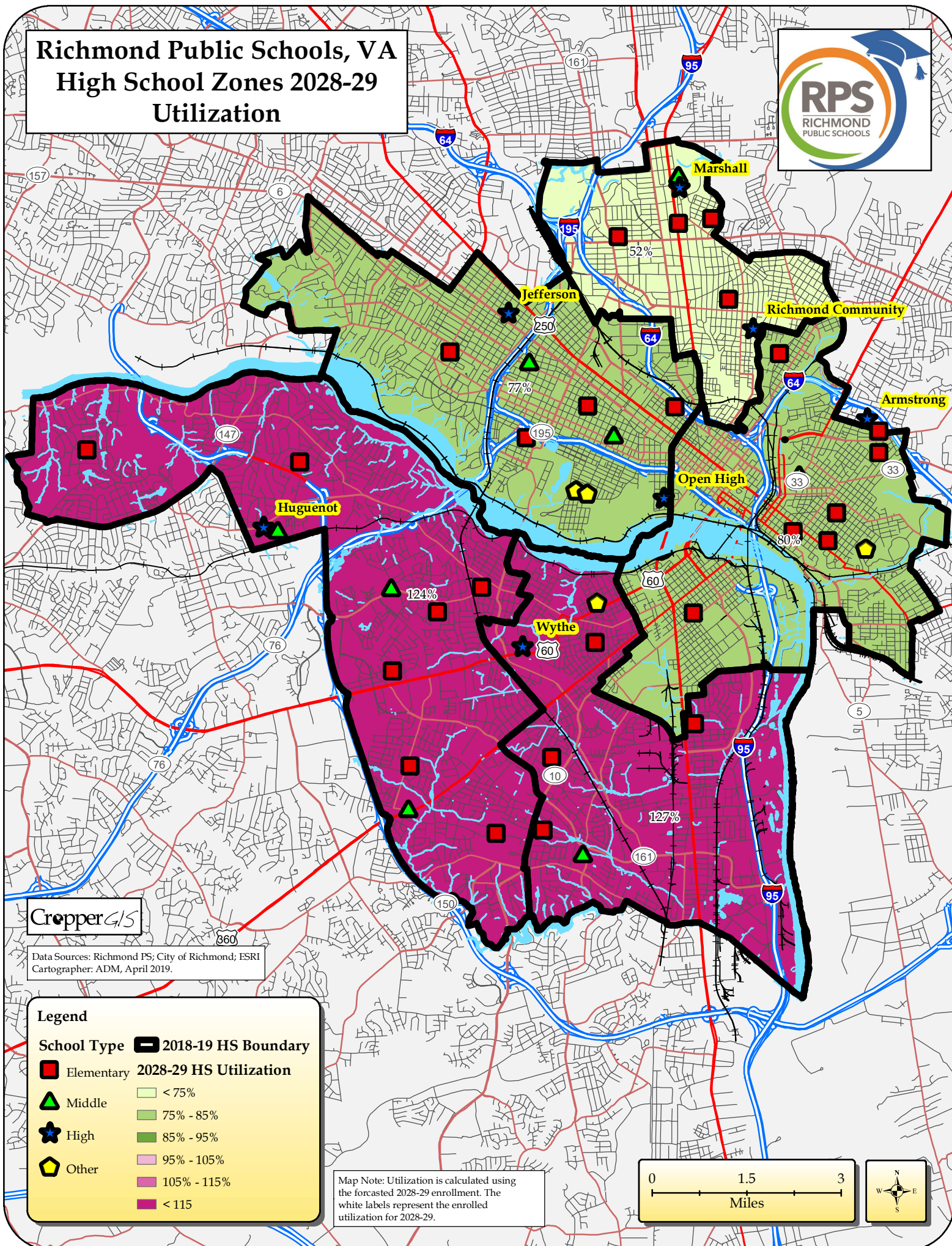
Richmond Public Schools, VA High School Zones 2023-24 Utilization



CropperGIS

Data Sources: Richmond PS; City of Richmond; ESRI
Cartographer: ADM, April 2019.

Richmond Public Schools, VA High School Zones 2028-29 Utilization



CropperGIS

Data Sources: Richmond PS; City of Richmond; ESRI
Cartographer: ADM, April 2019.