

Indiana's Schooling Deserts

*Hoosier Communities Lacking
Highly-Rated or Multi-Sector Options*

DREW CATT

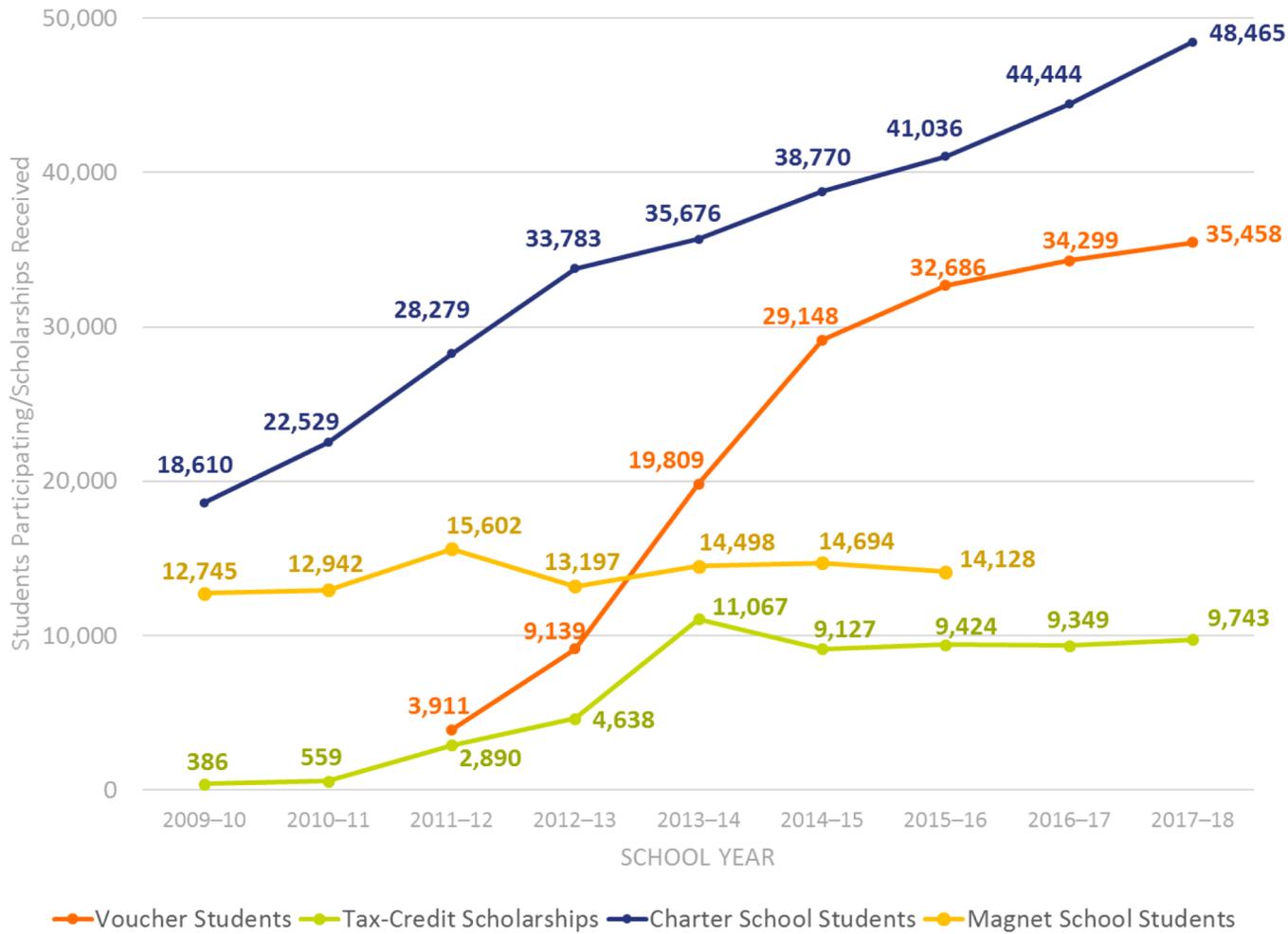
7th Annual International School Choice and Reform Conference
Saturday, January 12, 2019 – Lisbon, Portugal



EDCHOICE.ORG



Indiana School Choice Participation Data



Indiana K–12 Educational Choice Share

~3.6% of Students Utilize ICSP or Tax-Credit Scholarship

Voucher Share	2.9%
Tax-Credit Scholarship Share <i>(estimated)</i>	0.7%
Other Private School Share	5.2%
Public District School Share	85.1%
Public Charter School Share	3.2%
Home School Share <i>(estimated)</i>	2.9%

Research Questions

1. Where are Indiana's A-rated school deserts?
2. Where are Indiana's choice deserts?
3. Where do Indiana students and families who have reasonable access to only their residentially-assigned poorly-rated school live?

Literature Review

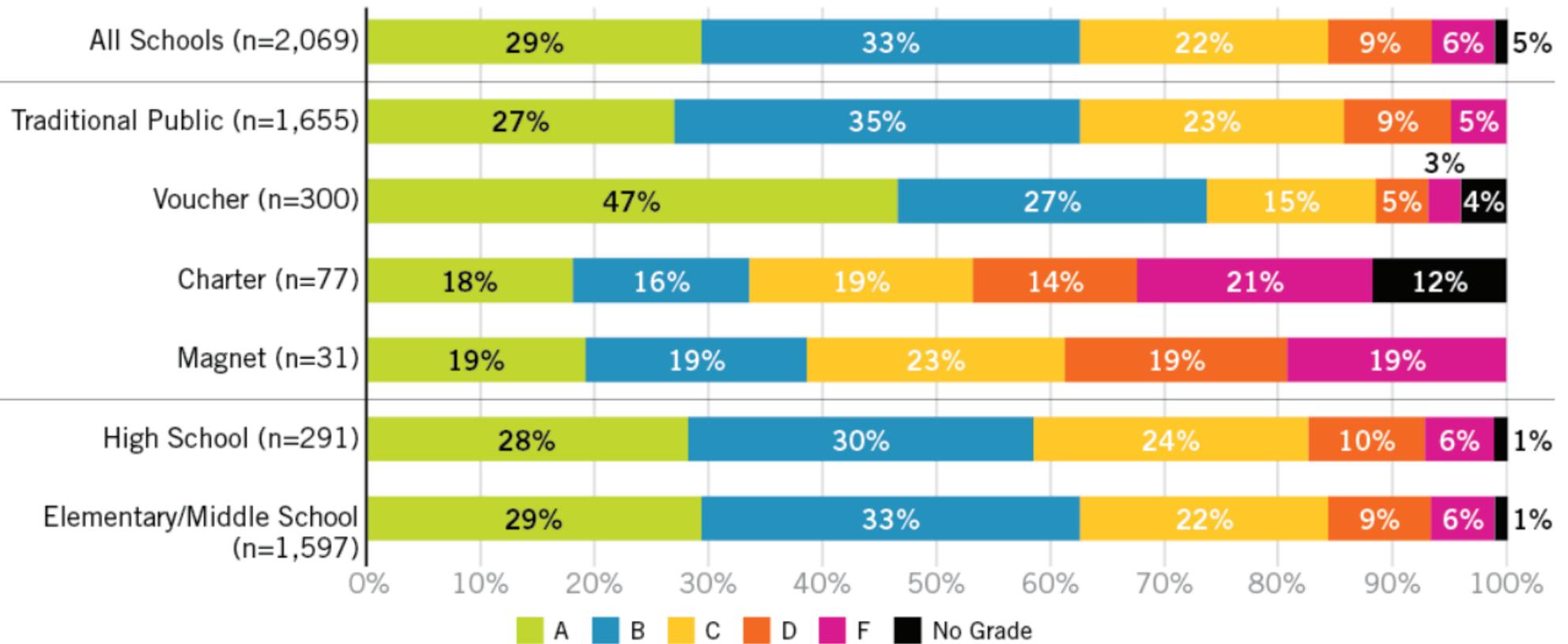
- Community Deserts
 - Early studies of deserts were in urban communities lacking access to food/groceries (Cummins and Macintyre, 1999)
 - Evolved to looking at divides across community type and income (Walker, Keane, and Burke, 2010)
- Lack of Access to Schools
 - Using Census and school location data to map access to intra-district public and private schools finding differences by community type and sector (Blagg and Chingos, 2017)
 - Looking at public transit commute times and access to public school choice (Urban Institute Student Transportation Working Group – Blagg et al., 2018)
 - Visually inspecting low-income Census tracts and identifying those without charter schools found political boundaries of cities and urban districts limit charter access for low-income residents (Saultz, Mensa-Bonsu, Yaluma, and Hodges, 2018)

Data Sources

- Indiana Department of Education (2016-17; 2017-18)
- U.S. Census Bureau – TIGER/Line® Shapefiles (2018)
- 2017 American Community Survey 5-Year Estimates (Block Group Level)
- HERE Traffic Analytics (2017)
- NCES – School Attendance Boundary Shapefiles (2013-14)

Schools by Sector and Grade Assigned (A–F)

Nearly half of the voucher-participating schools received an “A” rating in 2016–17



Previously Used Mapping Methodology

Euclidean Distance and Tract-Based Visual Inspection

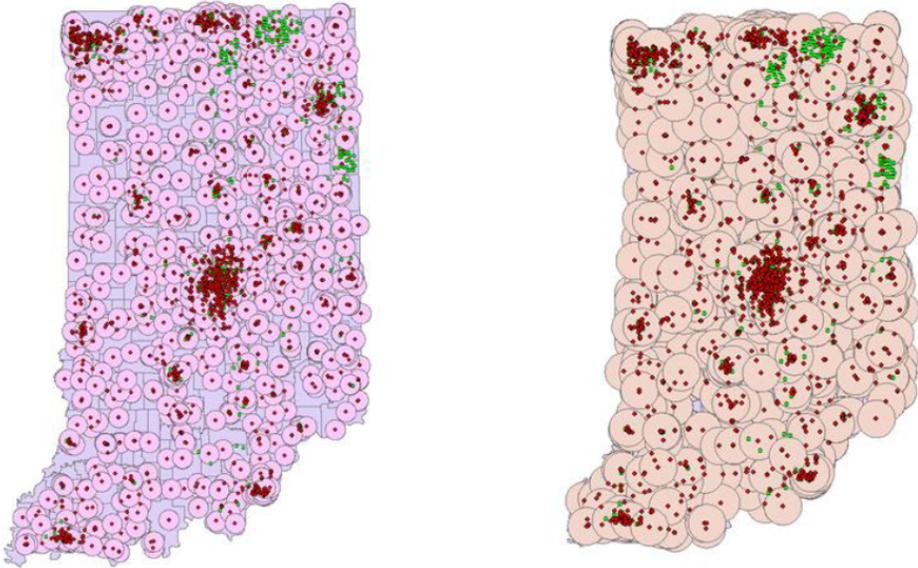
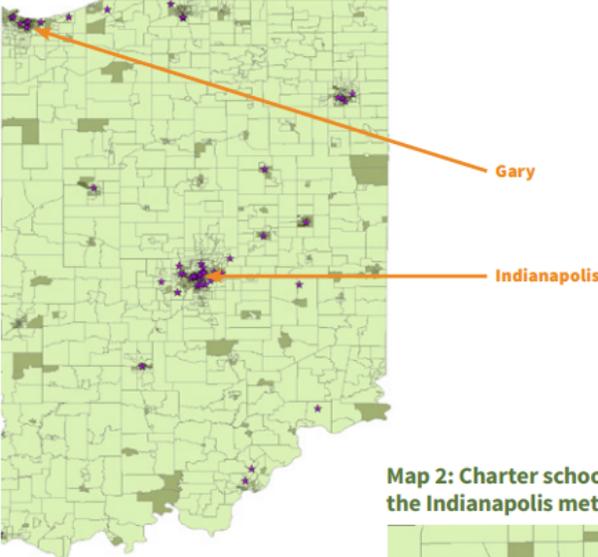
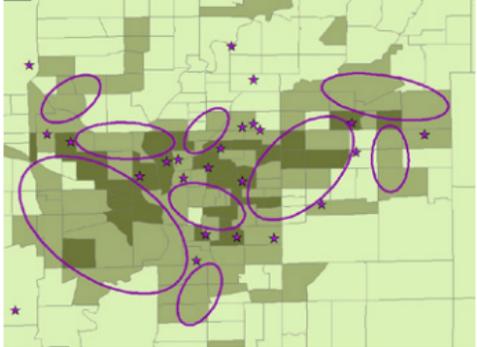


Figure 3. Five and Ten Mile Radii Around Every Indiana Public School. Public schools shaded red; Private schools shaded green.

Map 1: Overview of charter school deserts in Indiana



Map 2: Charter school deserts in the Indianapolis metro area



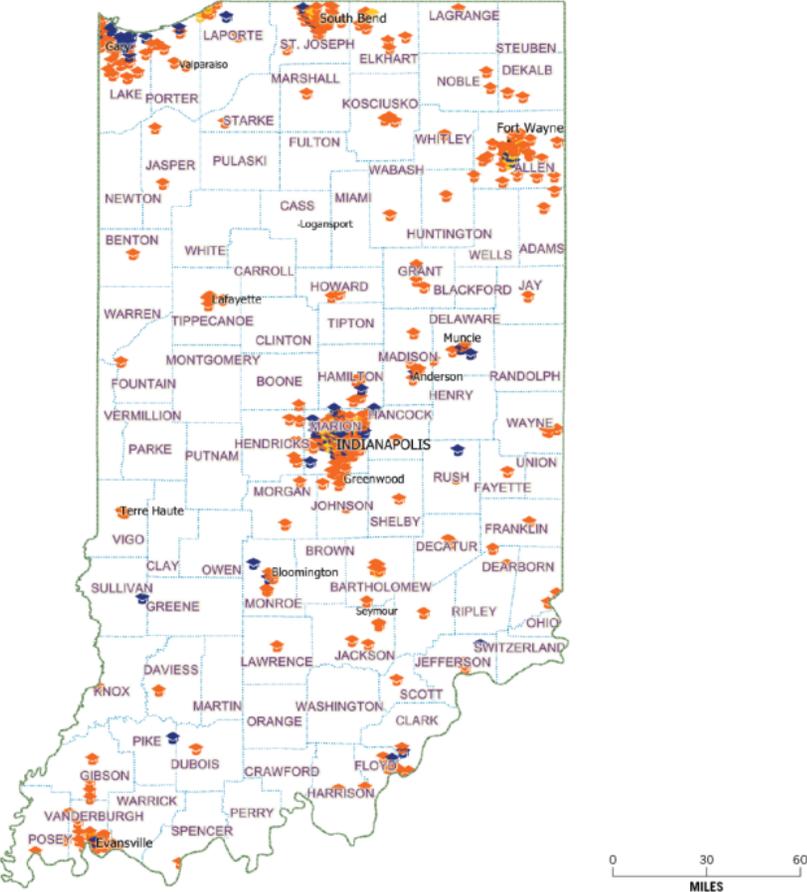
MAP LEGEND

Poverty Status*

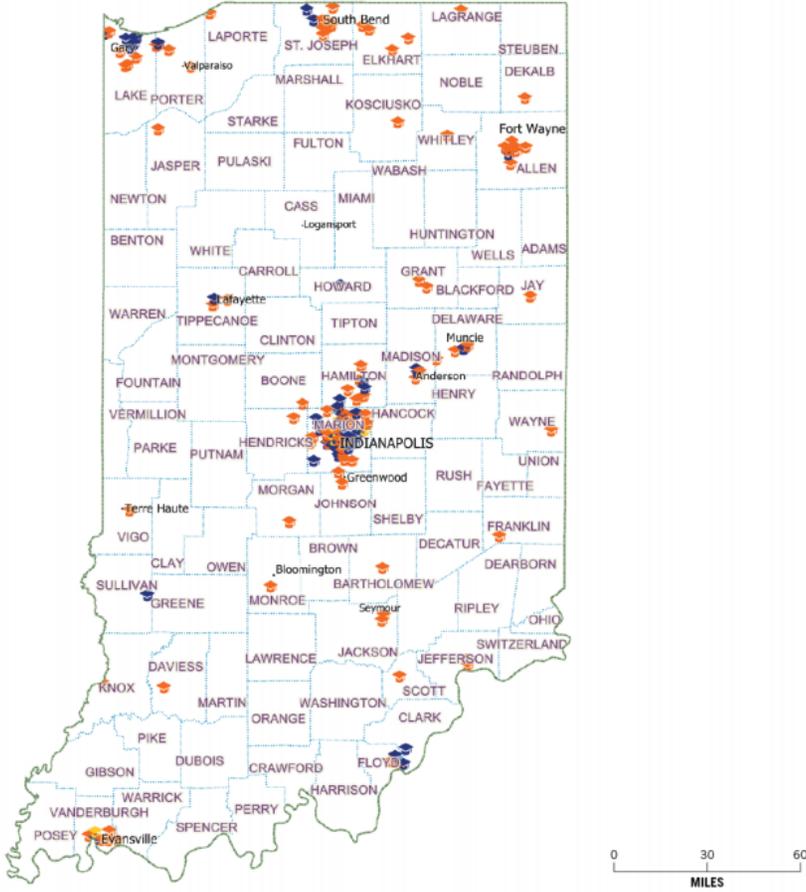
- 0-20%
- 21-40%
- 41-100%
- ★ = Charter School
- = Charter School Desert

*Percentage of the population within each tract that lives at or below the poverty line.

Where Non-Traditional Schools Are in Indiana

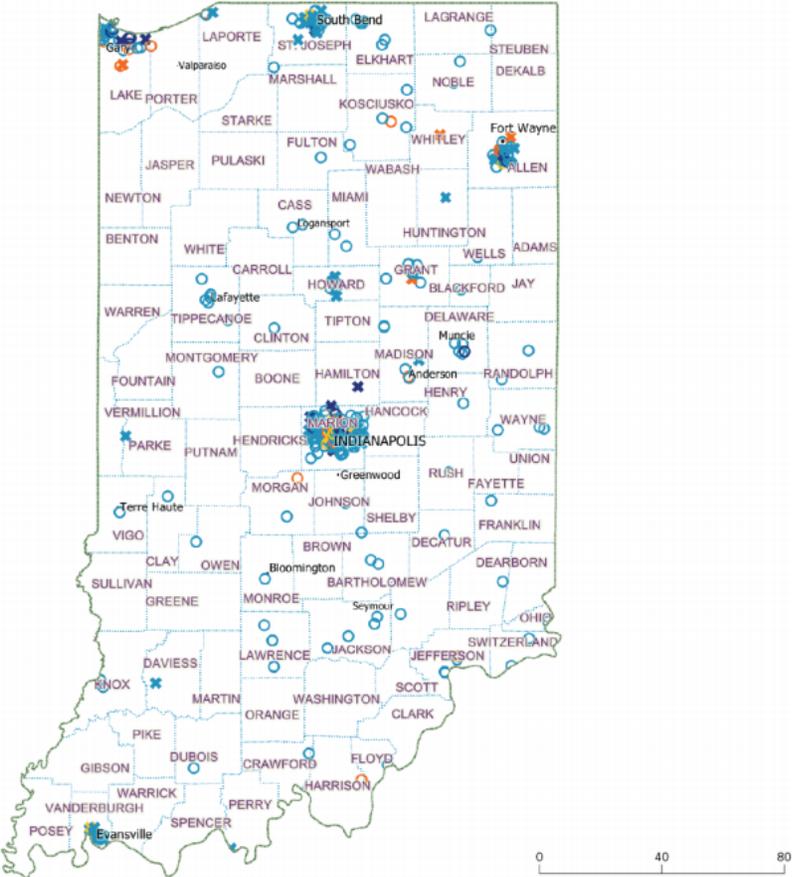


SCHOOLS RATED IN 2016-17
 ■ K-8 Charter (n=75) ■ K-8 Magnet (n=28) ■ K-8 Voucher (n=292)



SCHOOLS RATED IN 2016-17
 ■ 9-12 Charter (n=57) ■ 9-12 Magnet (n=5) ■ 9-12 Voucher (n=93)

Where D- and F-Rated Schools Are in Indiana



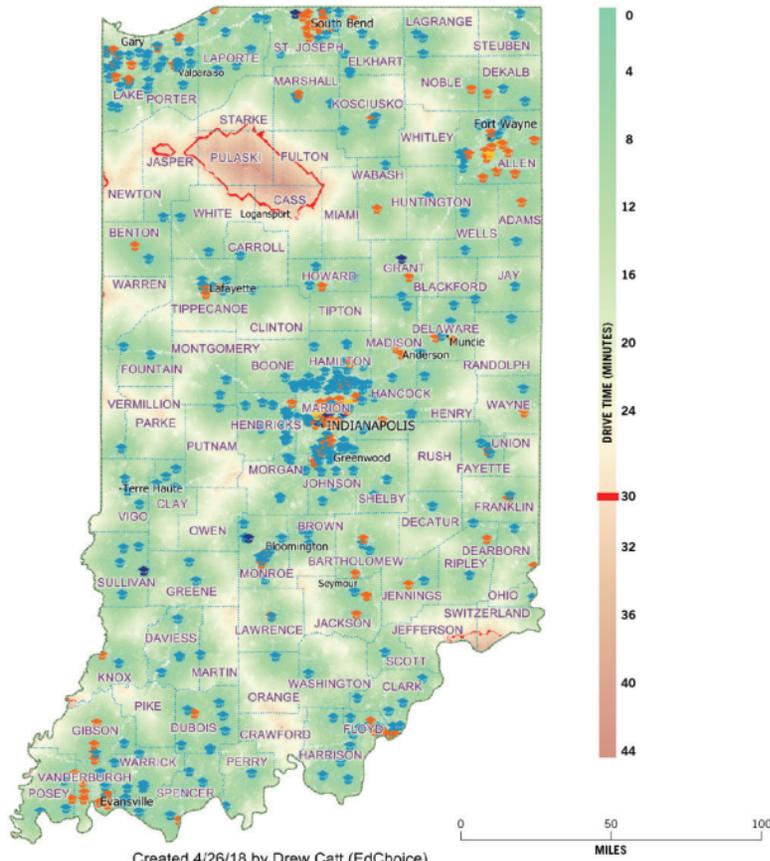
- SCHOOLS "D" OR "F" RATED IN 2016-17**
- K-8 "D" Traditional Public (n=154)
 - K-8 "D" Charter (n=11)
 - K-8 "D" Magnet (n=5)
 - K-8 "D" Voucher (n=14)
 - ✕ K-8 "F" Traditional Public (n=77)
 - ✕ K-8 "F" Charter (n=12)
 - ✕ K-8 "F" Magnet (n=5)
 - ✕ K-8 "F" Voucher (n=8)



- SCHOOLS "D" OR "F" RATED IN 2016-17**
- 9-12 "D" Traditional Public (n=5)
 - 9-12 "D" Charter (n=6)
 - 9-12 "D" Magnet (n=1)
 - 9-12 "D" Voucher (n=6)
 - ✕ 9-12 "F" Traditional Public (n=4)
 - ✕ 9-12 "F" Charter (n=10)
 - ✕ 9-12 "F" Magnet (n=2)
 - ✕ 9-12 "F" Voucher (n=6)

A-Rated Deserts (K–8) and Distribution of K–8 Students

~3,699 primary students live without reasonable access to A-rated K–8 schools



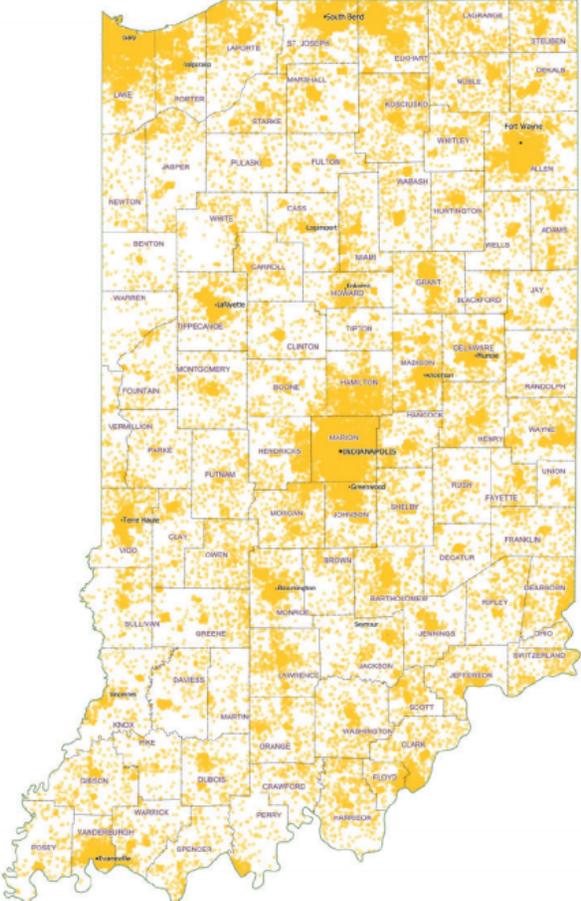
SCHOOLS SERVING AT LEAST ONE GRADE K-8 "A" RATED IN 2016-17

- K-8 Traditional Public (n=352)
- K-8 Voucher (n=121)
- K-8 Charter (n=9)
- K-8 Magnet (n=6)

INDIANA BLOCK GROUPS 2018 DOT-DENSITY THEME

- = 10 K-8 Students (Age 5 to 14)

Distribution of 50% and 90% Voucher-Eligible Families

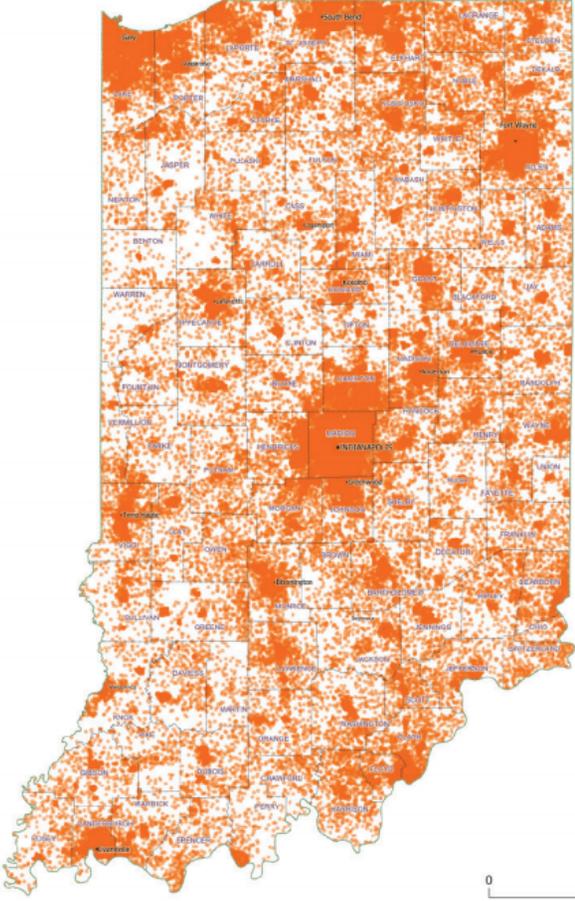


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INDIANA BLOCK GROUPS 2018 DOT-DENSITY THEME

● = Five FRL-eligible Families (Income < \$35,000)



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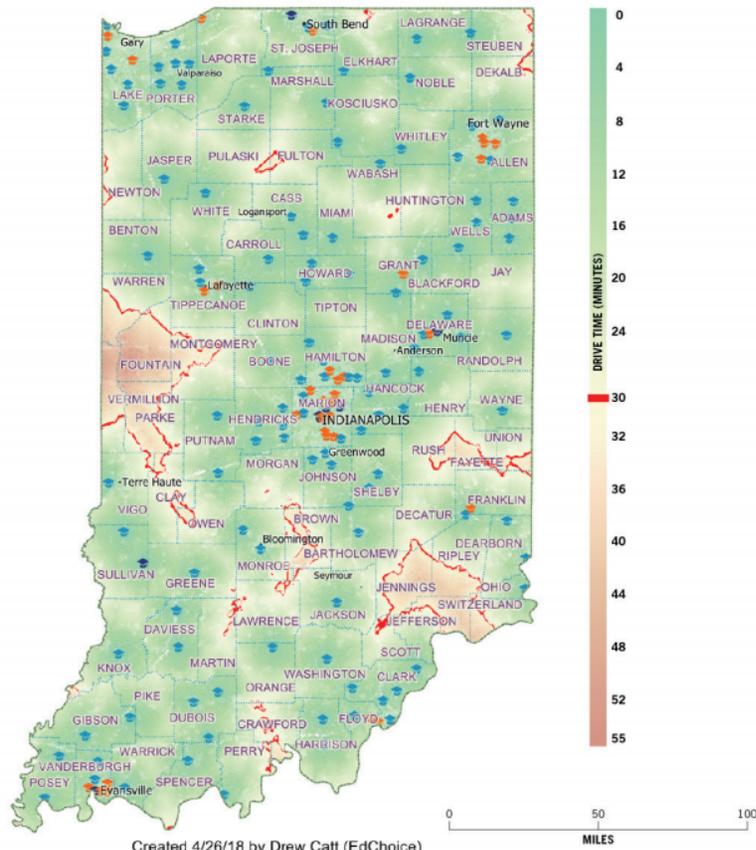
INDIANA BLOCK GROUPS 2018 DOT-DENSITY THEME

● = Five Families Income-Eligible for a 50% Voucher through Indiana's Choice Scholarship Program (Income < \$50,000)

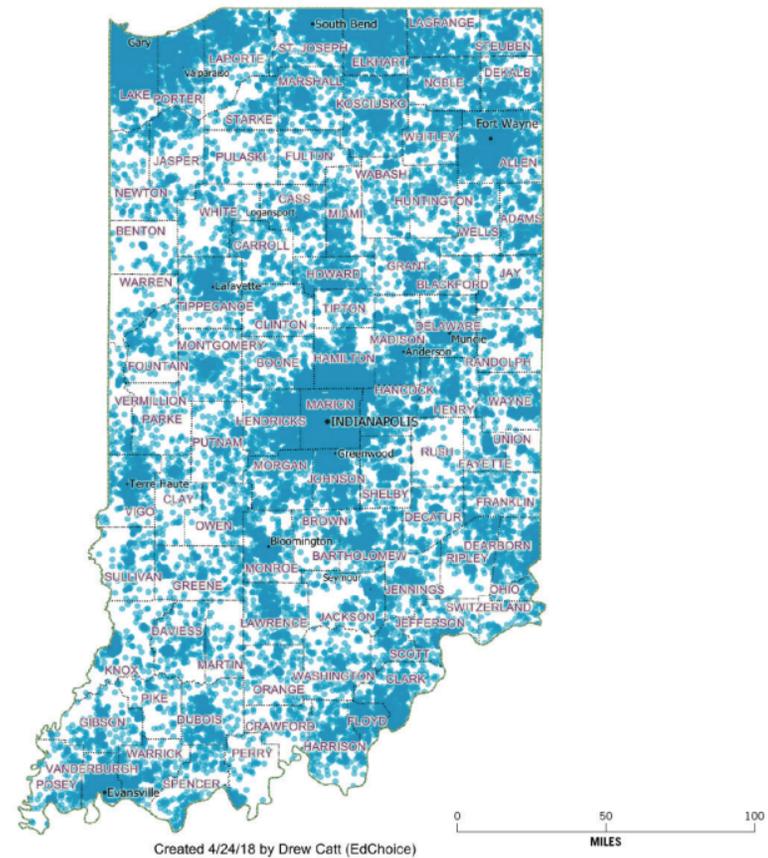


A-Rated Deserts (9–12) and Distribution of High Schoolers

~6,668 secondary students live without reasonable access to A-rated high schools



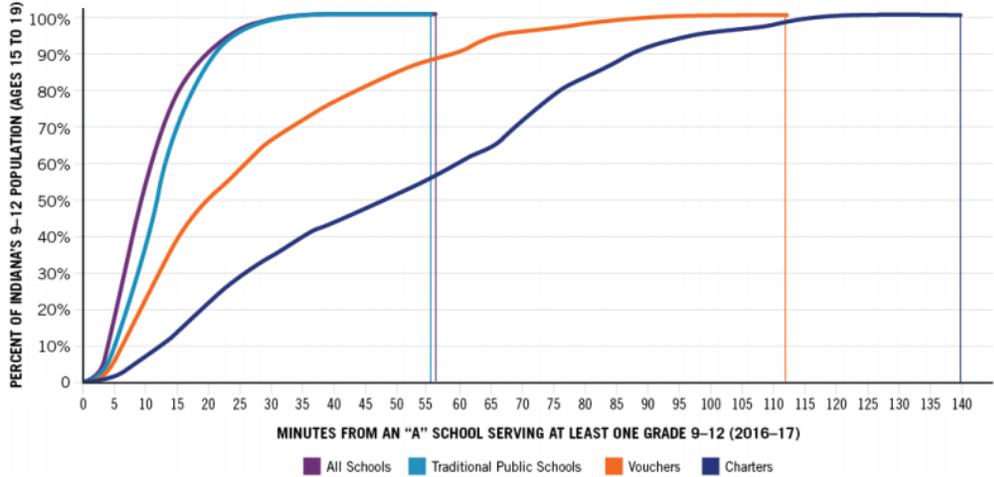
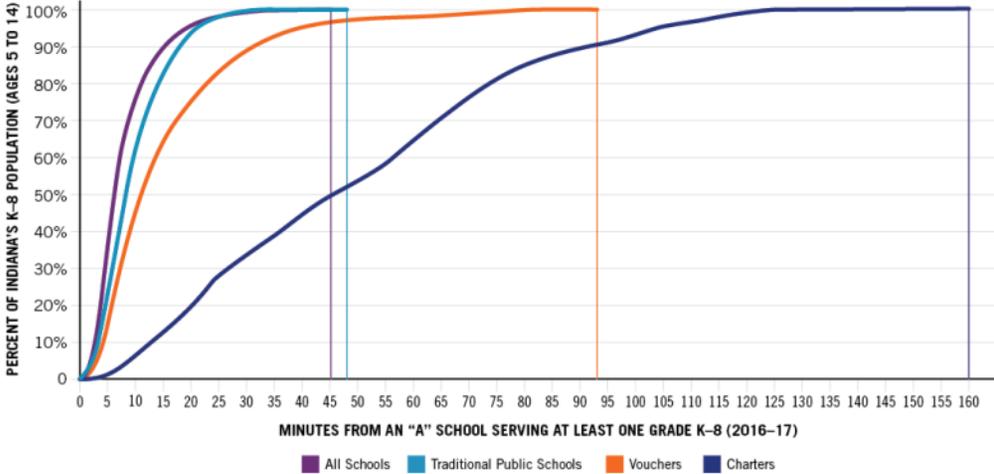
SCHOOLS SERVING AT LEAST ONE GRADE 9–12 "A" RATED IN 2016–17
 ● 9–12 Traditional Public (n=119) ● 9–12 Voucher (n=32) ● 9–12 Charter (n=7)



INDIANA BLOCK GROUPS 2018 DOT-DENSITY THEME
 ● = 10 High Schoolers (Age 15 to 19)

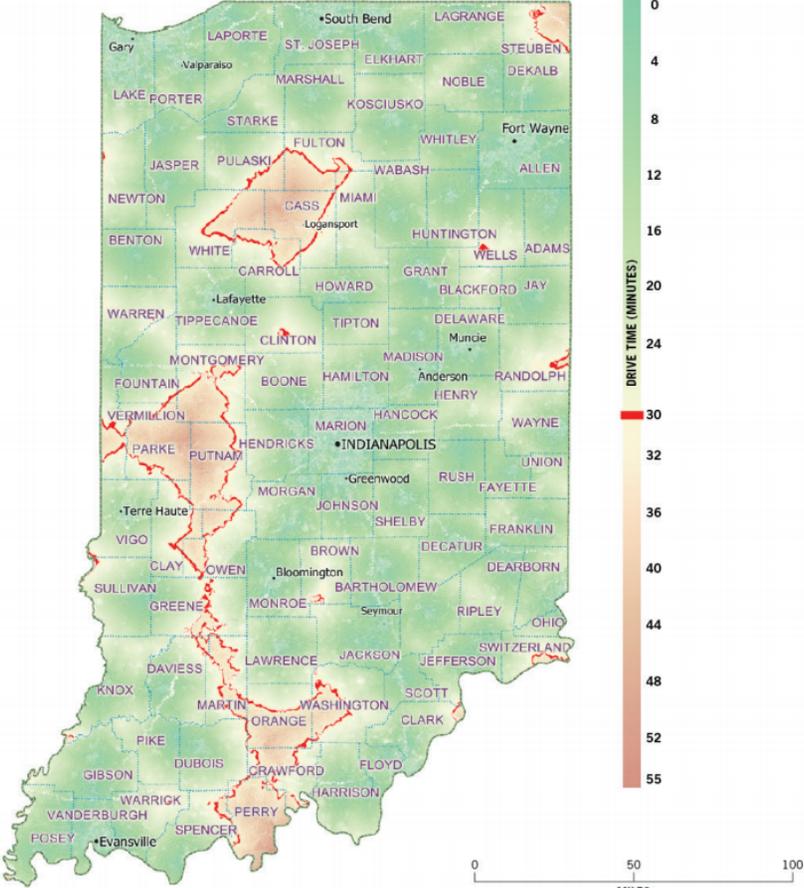
A-Rated Drive Times by Sector

Nine of out 10 students live within 15 min. of an A-rated K–8 school; 21 min. for high school



Choice Deserts (K–8)

~24,810 primary students (2.8%) live without reasonable access to a K–8 school of choice

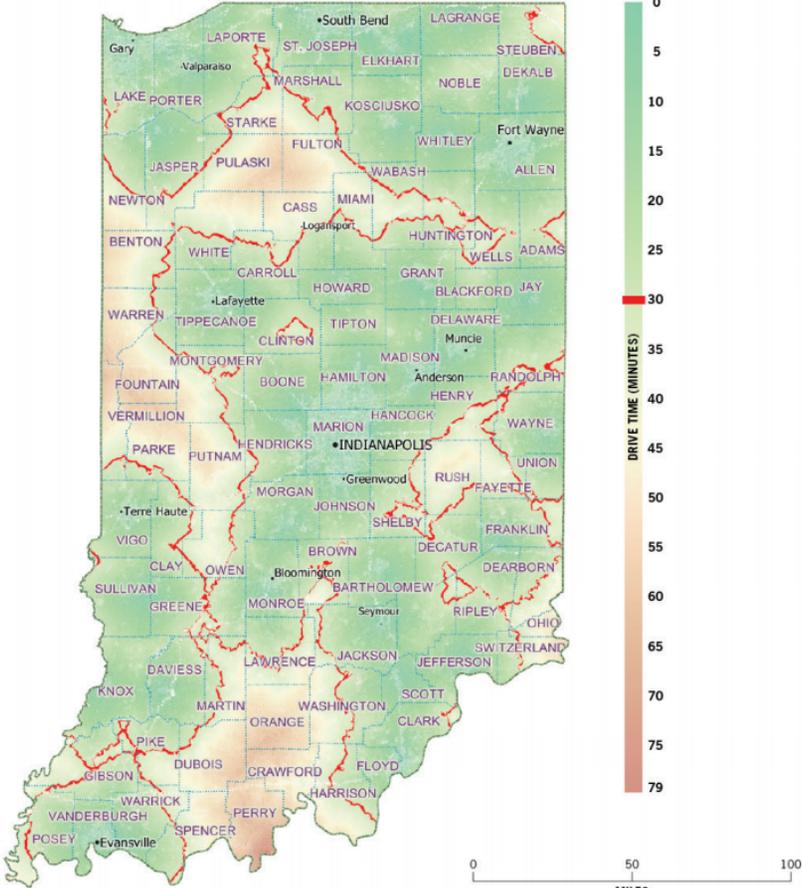


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Choice Deserts (9–12)

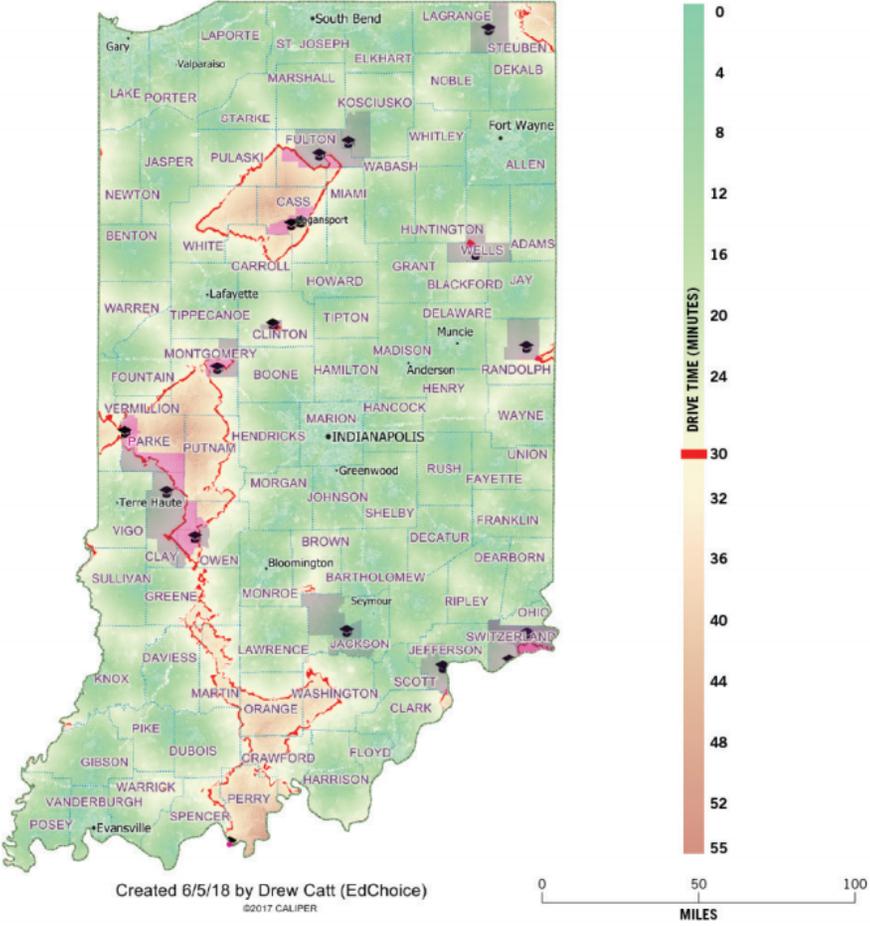
~45,072 secondary students (9.8%) live without reasonable access to a high school of choice



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Educational Opportunity Zones (K-8)

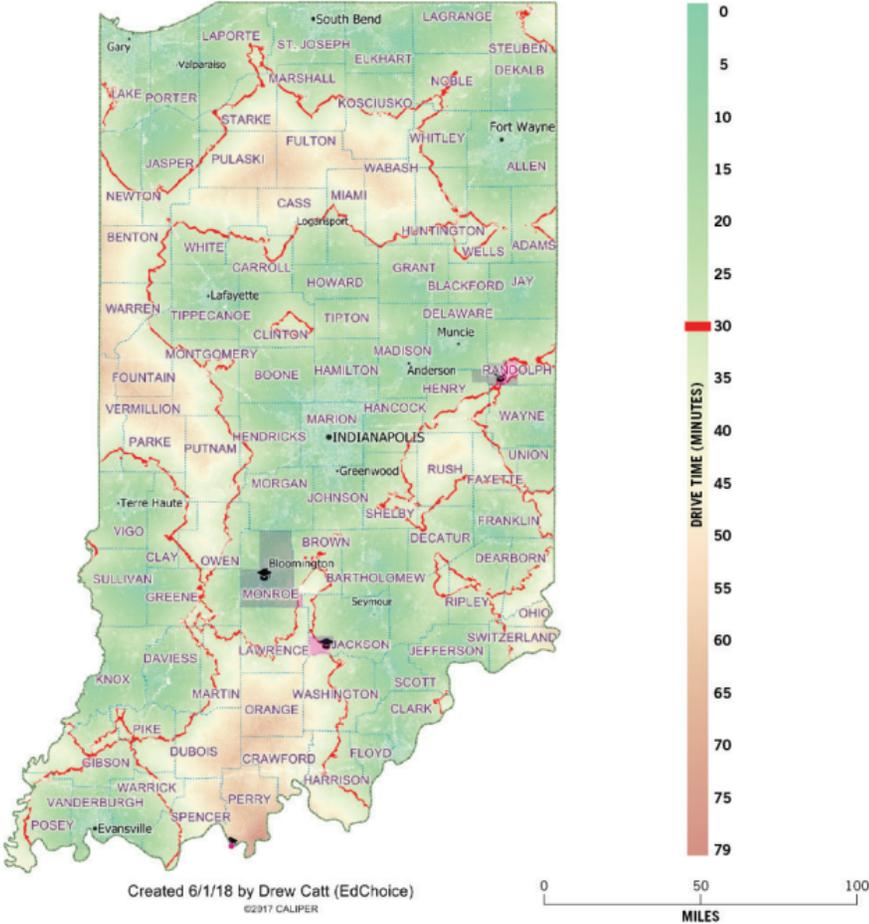


SCHOOLS "D" OR "F" RATED IN 2016-17
 🎓 K-8 with Attendance Boundary in "Non-Failing" Choice Desert (n=18)

TRADITIONAL PUBLIC SCHOOL ATTENDANCE BOUNDARIES 2013-14

Boundaries for Above Schools
 Opportunity Zone

Educational Opportunity Zones (9–12)



SCHOOLS "D" OR "F" RATED IN 2016-17

🏠 9-12 with Attendance Boundary in "Non-Failing" Choice Desert (n=4)

TRADITIONAL PUBLIC SCHOOL ATTENDANCE BOUNDARIES 2013-14

- Boundaries for Above Schools
- Opportunity Zone

How Information Was Disseminated to Parents (Hopefully)

Indiana's School Options – School Finder Tool

THIS INTERACTIVE MAP ALLOWS FAMILIES, POLICYMAKERS AND EDUCATIONAL ENTREPRENEURS TO IDENTIFY HIGHLY AND POORLY RATED SCHOOLS OF ALL TYPES.

Filter to find schools in your area and click the drops for more information about each school. Want to know whether you are in a schooling desert? Use the overlay filters in the blue section to see how far your driving distance would be from highly rated schools and/or schools of choice, such as charter, magnet and voucher-participating private schools. To download the full *Indiana's Schooling Deserts* report that inspired this map, [click here](#).

Search by Address

Address or ZIP

Radius

SUBMIT

School Type

Voucher Magnet Traditional Public

Charter State-Run

Overall Grade

A B C D F No Grade No Yet Rated

Grades Served

Prekindergarten Kindergarten 1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th

Are you in a schooling desert?

If you fall outside the shaded overlays, you are in a schooling desert.

School Options

A-Rated K-8 A-Rated 9-12 Choice K-8 Choice 9-12

Distance

30 Minutes 20 Minutes 10 Minutes

A-Rated includes A-rated schools of all types, and *Choice* includes charter, magnet and voucher-accepting private schools only.

Map Satellite

Marquette Catholic High School

306 W 10th St
Michigan City, IN 46360-4098

School Type: Voucher
Overall Grade: A
Grades Served: 9 - 12

Schooling deserts generated in Mapptitude Geographic Information System (GIS) software © Caliper Corporation

Key Takeaways/Final Thoughts

- Indiana elementary and middle school students have more options than those in high school – including “A” schools and non-traditional schools
- There are many areas of the state where students seemingly only have reasonable access to a D- or F-rated traditional public school
- How much do families care about school letter grades?
- How reasonable is a 30-minute drive-time for *all* families?
- What improvements to the identified Educational Opportunity Zones are legislatively and/or administratively possible?

ALL students deserve to have reasonable access to a school that gives them the opportunity to confidently step forward into the next chapter of their life.

Questions?

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