

Hillcrest Elementary School

80 North Airlite Ave, Elgin, IL 60123



BUILDING SUMMARY			
Gross SF	52,093	Number of Levels	2
Year Built	1967	Number of Additions	1



ENROLLMENT METRICS

Occupancy**	756
Effective Capacity	431
Total Enrollment	494

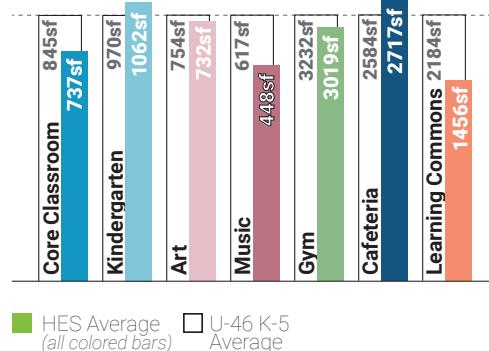
Occupancy: the maximum number of people that can be housed in a space in accordance with the building/ fire code

****NOTE:** Occupancy is NOT the recommended number of students for a space, it is the maximum allowed by code.

Effective Capacity: the amount of students a school can effectively support based on the District's current practices and future vision for teaching and learning. This is calculated based on ISBE's square footage per student guideline. Calculated based on core classrooms, science labs and Special Education spaces.

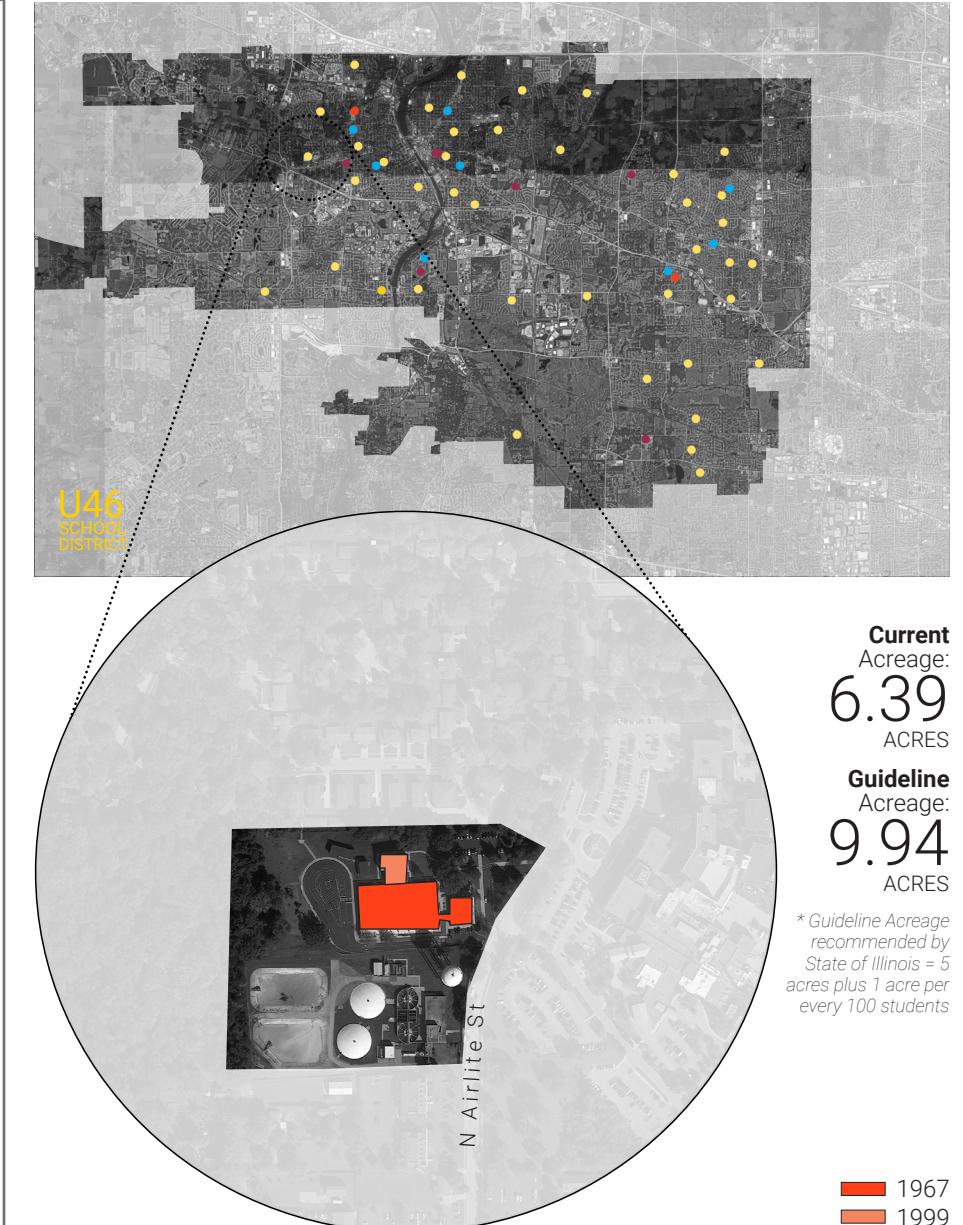
Enrollment: number of students that attended the facility in 2019-2020.

AREA COMPARISON



105 square feet per student • 150 square feet per student
Hillcrest Elementary School 2015 National Low Quartile Number

FACILITY LOCATION



TRAVEL

5-7 MIN Furthest approximate travel time from one location to another for an average **Kindergarten Student**.

4-6 MIN Furthest approximate travel time from one location to another for an average **Fourth Grade Student**.

PLAN KEY

- Administration
- Building Support
- Cafe Support
- Commons / Cafeteria
- Core Classroom
- Elective Classroom
- Gym / Fitness
- Kindergarten / ECC
- Learning Center
- Media Lab
- Performance Venue
- Performing Arts Classroom
- Resources
- Science Lab
- Special Education
- Stem / Hands-On Learning
- Restrooms
- Student Support
- Visual Arts

- Travel Path
- Under-sized space
- Room Capacity based on ISBE Guidelines

- Room Capacity based on ISBE Guidelines (not included in Effective Capacity)

FACILITY GRADES

Spatial Educational Adequacy(25%) C

(Data collected through Staff Survey)

Physical Features	7.5/10
Environment Supports Variety	8.5/10
Visual Stimulation	4.2/10
Future Readiness	6.2/10

Building Allocation(25%) F

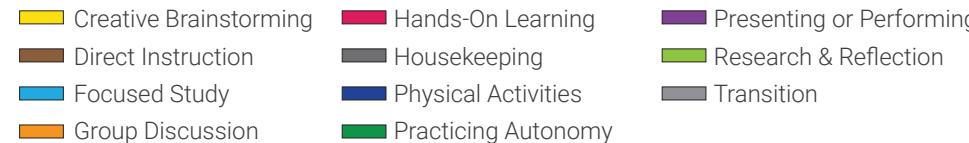
Gross SF/student	105
Site Acreage/Guideline	64%
Mobiles in Use/Basement Used	Yes/No

AGGREGATED FACILITY GRADE C-

Educational Adequacy grades were determined by a survey issued to staff. Square Foot/Student grades were determined by building area and enrollment. Facility grades are determined building assessments. Water grades were determined by comparing utility data to the Commercial Buildings Energy Consumption Survey. Energy grades were determined by comparing utility data to the US Dept of Energy's Building Performance Database. Percent in parenthesis indicates weight of category in aggregate facility grade.

ACTIVITY MAPPING

Observing representative classrooms within the school through a typical day allows the design team to quantify how learning spaces are used. Measurements are averaged from all classrooms visited.



What's a Listening Tour?

Staff surveys (Listening Tours) were sent to each school where faculty gave input about the strengths and weaknesses of the building. The following five comments highlight common themes and concerns.

Listening Tour Comments From Staff

- It would be nice if the library were closed off. The walkway through it is very disruptive.
- It would be helpful to have more control over the lighting in the classrooms.
- Larger kindergarten rooms with bathrooms and storage, as well as natural lighting would be desirable.
- It works well that art, music, and P.E. classrooms are next to each other.
- The main learning space is drafty and is noisy during warm weather.
- Finishes that help absorb sound would improve the learning environment.
- Built-in storage that utilizes vertical space would help the storage situation.

LISTENING TOUR



Facility Condition(35%) C

FCI

.26

Water Usage(5%) C

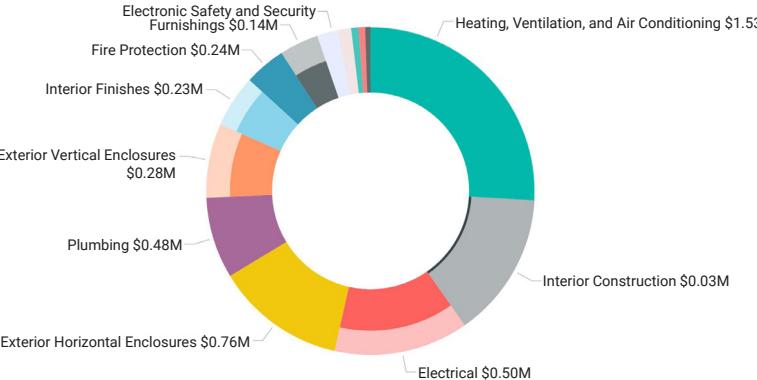
Gallons/SF 10.7

Energy Usage(10%) D

Total EUI 68.5kBTU/SF/yr

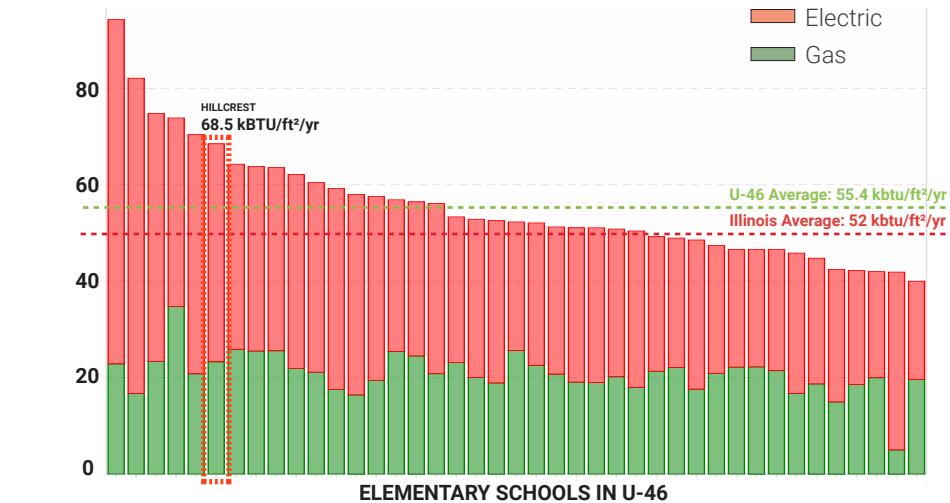
Electric 23.3kBTU/SF/yr
Gas 45.2kBTU/SF/yr

FACILITY BY BUILDING SYSTEM



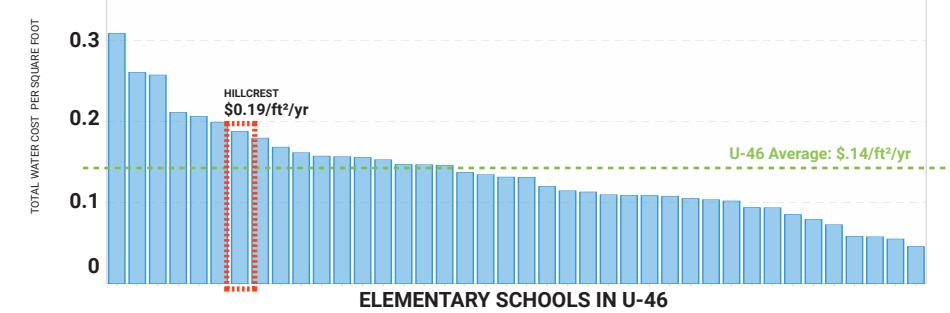
This chart indicates the approximate cost of deferred and anticipated maintenance (in dollars) of items assessed by building system. Highlighted items indicate those items in immediate need, code requirement, poor and fair condition.

ENERGY USAGE (EUI)



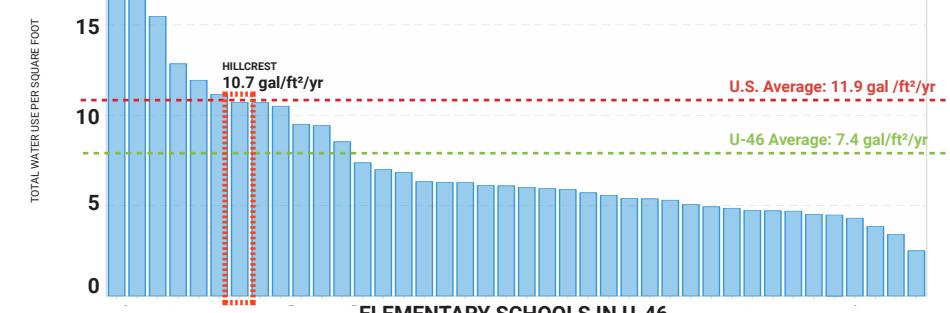
Energy Use Intensity (EUI) is a key metric that expresses a building's energy use as a function of its size. Generally, a low EUI signifies good energy performance

WATER USAGE + WATER COST



Total Water Cost per Square Foot

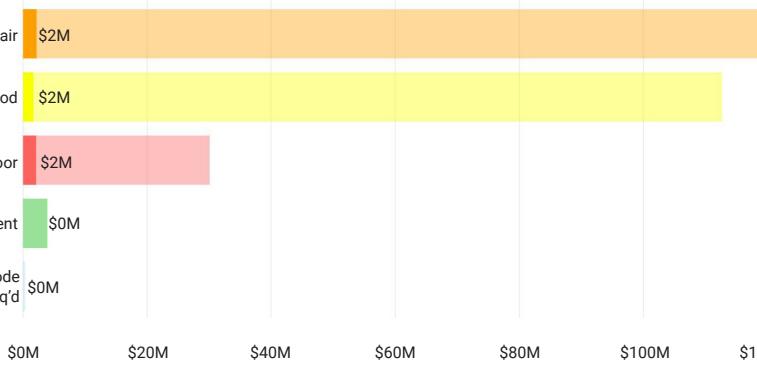
WATER USAGE + WATER COST



Total Water Use per Square Foot

DATA COLLECTION

FACILITY COMPARED TO COHORT



This chart indicates the approximate cost of deferred and anticipated maintenance (in dollars) based on condition of assessed items in relation to the entire cohort of buildings.

How is this information collected?

The goal of the DLR Group integrated design team is to **collect multiple qualitative and quantitative data points** around the same set of items – for example energy use, air quality, or learning behavior – **in order to form a holistic picture**. The team collects these data points through the use of sensors (in the space for 1-7 days), spot measurement equipment, expert walkthroughs, focus groups, surveys, and ethnographic observation techniques. The results are validated by cross-checking data points, such as a survey answer and a spot measurement, that should relate to one another.