



Timber Trails Elementary School

1675 McDonough Road, Hoffman Estates, IL 60192

| BUILDING SUMMARY | | | |
|------------------|--------|---------------------|---|
| Gross SF | 57,343 | Number of Levels | 2 |
| Year Built | 2003 | Number of Additions | 0 |



ENROLLMENT METRICS

| | |
|--------------------|-----|
| Occupancy** | 856 |
| Effective Capacity | 487 |
| Total Enrollment | 413 |

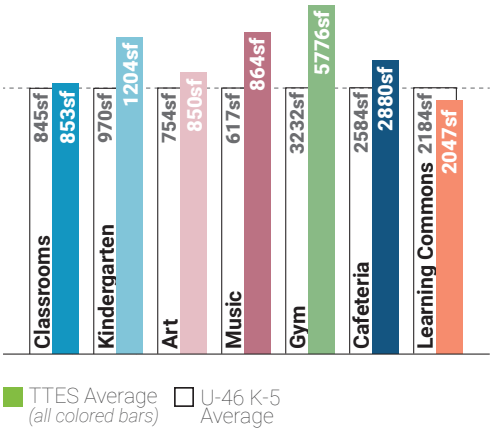
Occupancy: the maximum number of people that can be housed in a space in accordance with the building/fire code

****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.

Enrollment: current number of students attending the facility.

AREA COMPARISON



* This comparison notes the difference between Timber Trails Elementary School area per student in comparison to the current National average as noted in the 2015 School Construction Report. The master planning process will produce outcomes pertinent to the District as a whole. This is just one metric to compare space.

138 square feet per student : **150** square feet per student

Timber Trails 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.

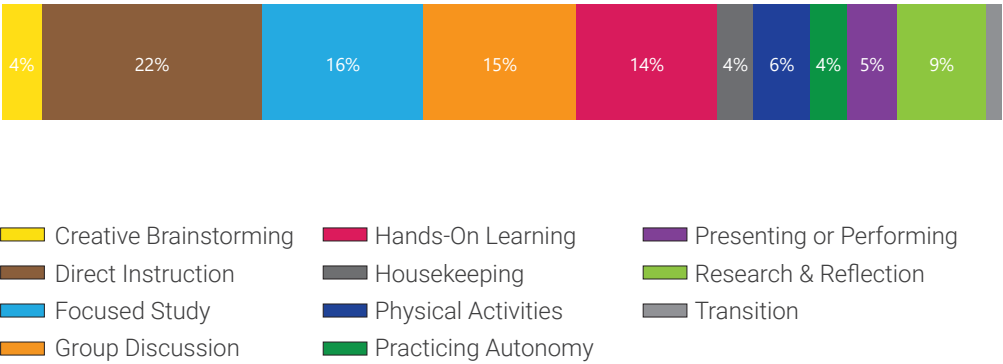
PLAN KEY

- 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)

| | | | |
|--|---------------|--------------------------------|-----------------------|
| Spatial Educational Adequacy(25%) | C | Facility Condition(35%) | C |
| (Data collected through Staff Survey) | 7.2/10 | FCI | .17 |
| Physical Features | 7.6/10 | Water Usage(5%) | A |
| Environment Supports Variety | 7.0/10 | Gallons/SF | 5.6 |
| Visual Stimulation | 7.8/10 | Energy Usage(10%) | C |
| Future Readiness | 6.8/10 | | |
| Building Allocation(25%) | B | Total EUI | 49.0kBTU/SF/yr |
| Gross SF/student | 138 | Electric | 22.2kBTU/SF/yr |
| Site Acreage/Guideline | 109% | Gas | 26.8kBTU/SF/yr |
| Mobiles in Use/Basement Used | No/No | | |
| *School has IGA with Park District | | | |
| AGGREGATED FACILITY GRADE B- | | | |

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 is based on survey data (Week in the Life) collected by teachers throughout the district over the course of one week. The teachers provided the learning activity and amount of time spent in that activity. Data was aggregated for the school and is represented by the average percent of time spent in the activity.

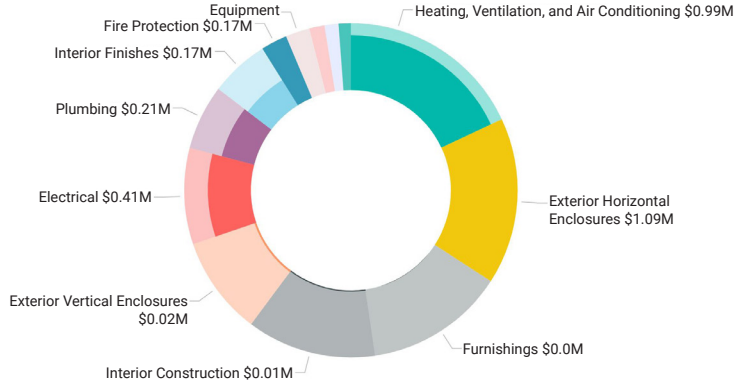


What's a Listening Tour?

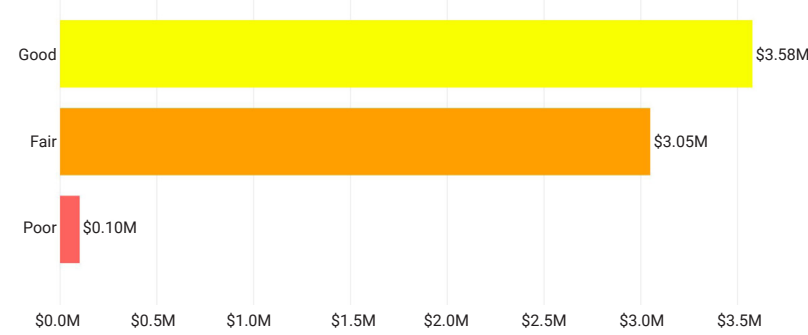
Staff surveys (Listening Tours) were sent to each school where faculty gave input about the strengths and weaknesses of the building. The following comments highlight common themes and concerns.

Listening Tour Comments

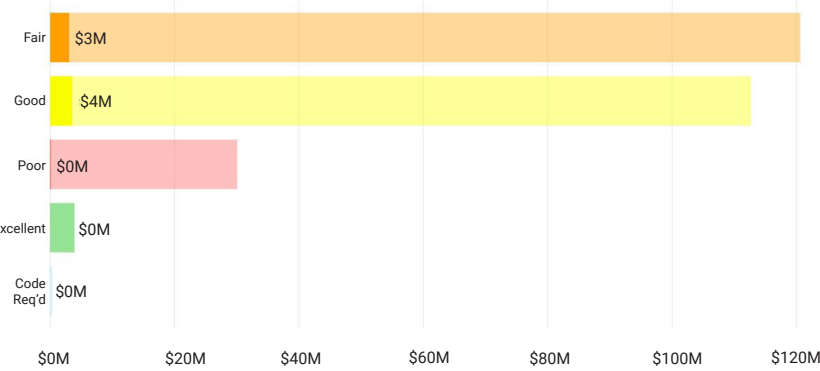
- Heating and cooling is considerably different in different spaces throughout the building.
- The building is fairly new and has a good skeleton.
- Teachers feel their building is above average as compared to other schools in the district.
- Plumbing and thermal aspects are some that were identified as needing the most improvement in the building.
- Teachers like their classroom spaces best in the building, followed by the gym.



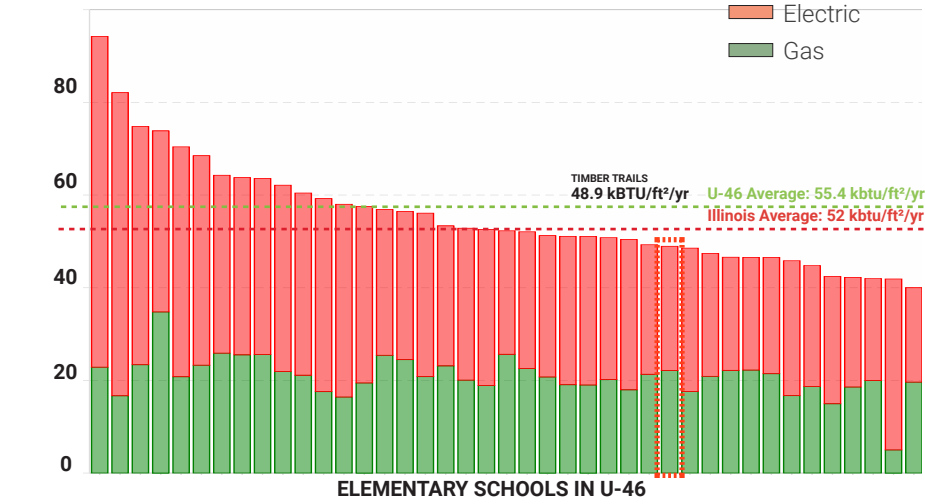
This chart indicates the approximate cost of deferred and anticipated maintenance (in dollars) of items assessed by building system. Highlighted items indicate those items in immediate need, code requirement, poor and fair condition.



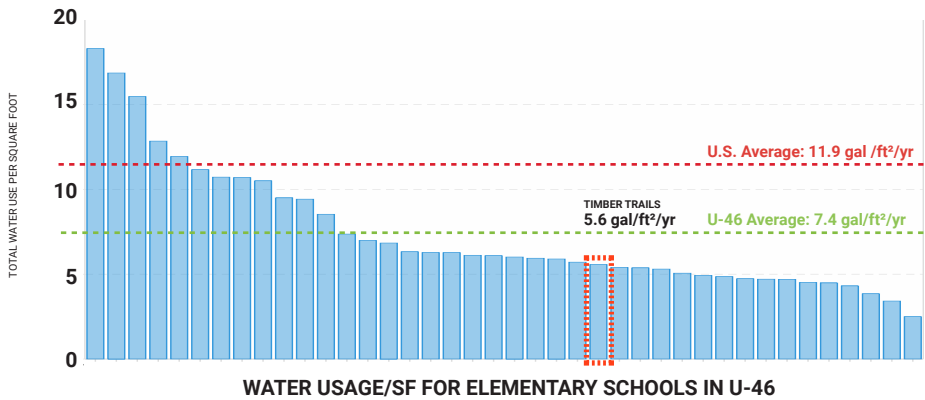
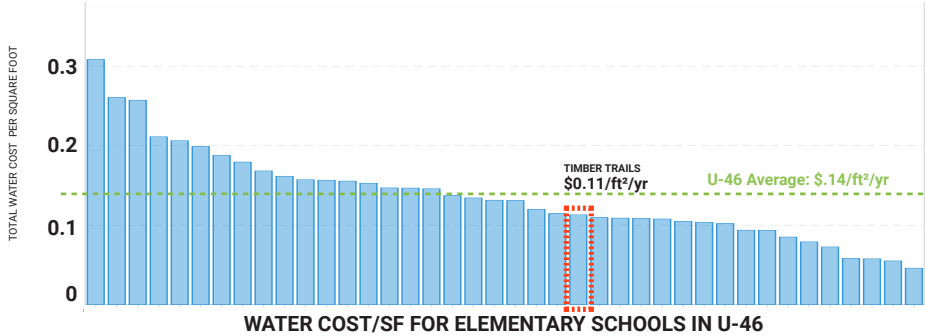
This chart indicates the approximate cost of deferred and anticipated maintenance (in dollars) based on condition of assessed items.



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.



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 is a key metric that expresses a school's water use and total cost of water in comparison to the other middle schools in the district.

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.