UF Report

2025-08-20 to 2025-09-09

■ Executive Summary

Robot deployment during 2025-08-20 to 2025-09-09 processed 112.0 total tasks, covering 543,935.0 square feet with 92.1 total running hours.

2

Total Robots

543,935.0

Sq Ft Cleaned vs last: +35530.0 sq ft

83.4%

Coverage vs last: +27.1%

92.1

Total Running Hours vs last: +63.0 hrs 2.7

Avg Daily Hours/Robot vs last: -0.2 hrs/robot

20/21

Days with Tasks vs last: +15.0 days

34.4 kWh

Energy Used vs last: +23.6 kWh

6 Key Achievements

- 112.0 total tasks processed during reporting period
- 543,935.0 square feet cleaned across all locations
- 2.0 robots actively deployed and monitored
- 121.0 charging sessions during the period

Individual Robot Performance

Robot ID	Location	Total Tasks	Completed	Area Cleaned	Avg Coverage	Days with Tasks	Running Hours
811135422060228	Building 43 Marston Science Library	45	31	292,495 sq ft	80.6%	20	51.8 hrs
811135422060216	Building 205 Dental Science	67	52	251,441 sq ft	87.0%	14	40.2 hrs

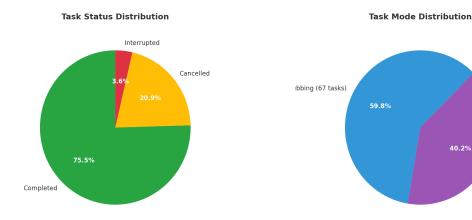
Task & Schedule Performance

Task Management Efficiency

Task tracking across all facilities: 112 total tasks with 50,533 sq ft total coverage and 49.3 minutes average task duration.

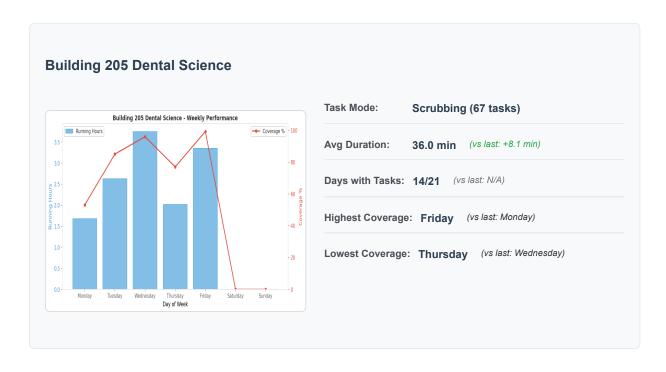
Metric	Total	Completed	In Progress	Average Duration
All Facilities	112	83	0	49.3 min (vs last: +6.7 min)

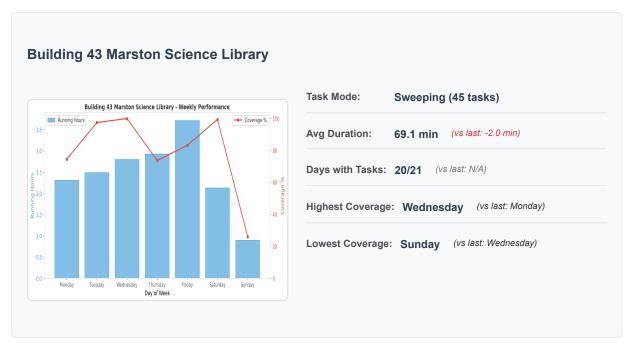
Sweeping (45 1



Task Efficiency by Location

Location-specific performance showing average operational metrics for each facility.





Facility-Specific Performance

Building 205 Dental Science

Performance metrics for Building 205 Dental Science: 67 total tasks, 251,441 sq ft total area cleaned, 87.0% average coverage, 6248.4 sq ft/hour time efficiency, and 1.0 sq ft/fl oz water efficiency.

Building 43 Marston Science Library

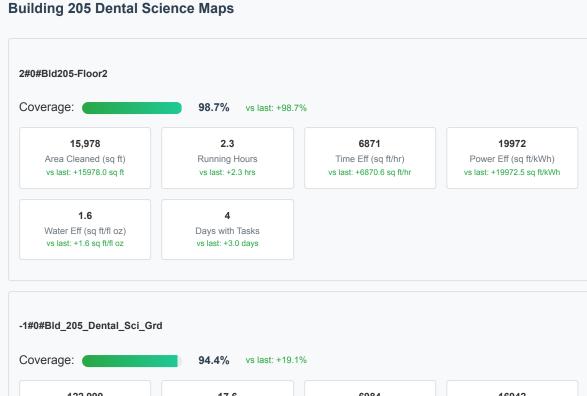
Performance metrics for Building 43 Marston Science Library: 45 total tasks, 292,495 sq ft total area cleaned, 80.6% average coverage, 5642.0 sq ft/hour time efficiency, and 0.0 sq ft/fl oz water efficiency.

Metric	Performance	vs Last Period	
Total Area Cleaned	251,441 sq ft	+171323.0 sq ft	
Average Coverage	87.0%	+33.3%	
Running Hours	40.2 hours	+27.7 hrs	
Time Efficiency	6248.4 sq ft/hr	-139.9 sq ft/hr	
Power Efficiency	18,076 sq ft/kWh	+772.0 sq ft/kWh	
Water Efficiency	1.0 sq ft/fl oz	-0.2 sq ft/fl oz	

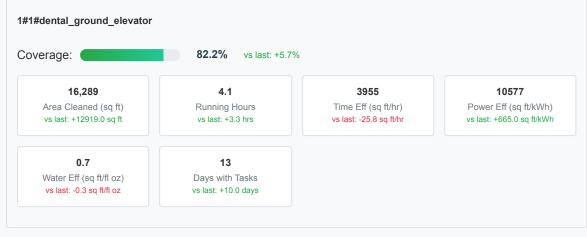
Metric	Performance	vs Last Period	
Total Area Cleaned	292,495 sq ft	+211124.0 sq ft	
Average Coverage	80.6%	+21.4%	
Running Hours	51.8 hours	+35.2 hrs	
Time Efficiency	5642.0 sq ft/hr	+736.8 sq ft/hr	
Power Efficiency	14,303 sq ft/kWh	+1050.0 sq ft/kWh	
Water Efficiency	0.0 sq ft/fl oz	0 sq ft/fl oz	

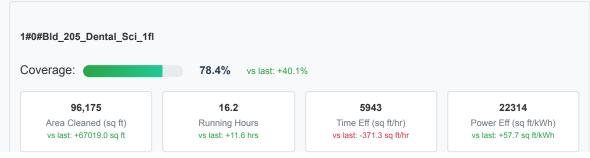
Map-Specific Performance

Coverage calculation: (actual area / planned area) × 100. Other metrics include area cleaned (sq ft), running hours, and efficiency ratios.







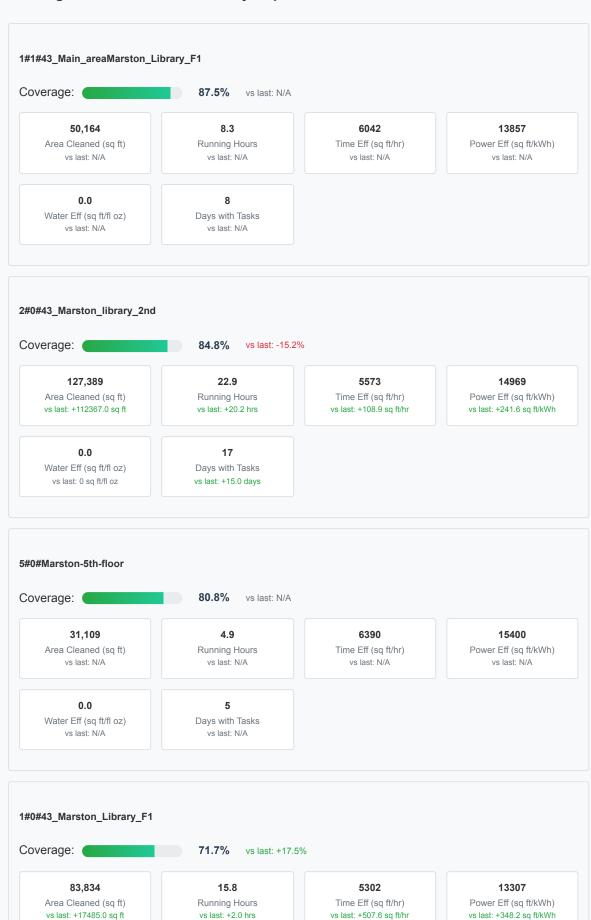


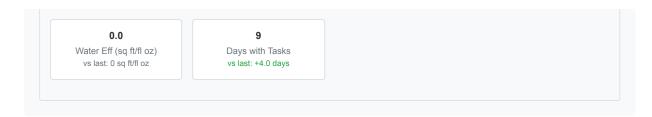
0.9

Water Eff (sq ft/fl oz) vs last: -0.4 sq ft/fl oz 11

Days with Tasks vs last: +7.0 days

Building 43 Marston Science Library Maps



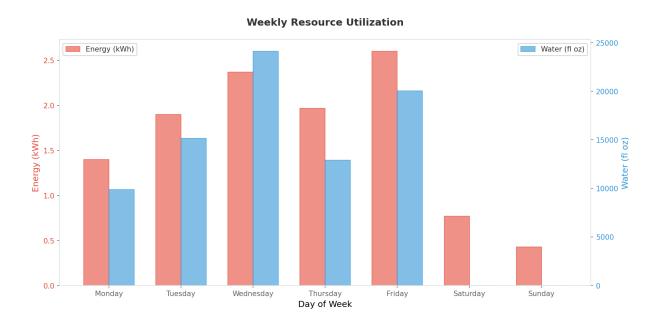


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Resource Utilization & Efficiency

Resource Performance Overview

Resource utilization summary: 34.40 kWh total energy consumption, 246292 fl oz total water usage, 15830 sq ft per kWh energy efficiency, and 283 sq ft per gallon water efficiency.



Energy Usage by Facility

- Building 205 Dental Science: 13.9 kWh (vs last: +9.3 kWh)
- Building 43 Marston Science Library: 20.5 kWh (vs last: +14.4 kWh)

Water Usage by Facility

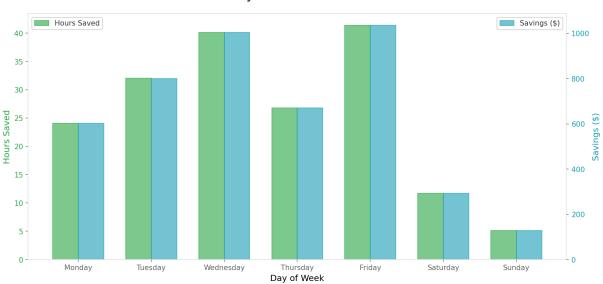
- Building 205 Dental Science: 246292 fl oz (vs last: +178433.0 fl oz)
- Building 43 Marston Science Library: 0 fl oz (vs last: 0 fl oz)

§ Financial Performance

Financial analysis based on actual resource usage: \$0.00/sq ft average cost per square foot, \$0.00 total operational cost, 68.0 hours saved compared to manual cleaning, and \$1,699.80 in realized savings.

Metric	Value	vs Previous Period	Notes
Cost per Sq Ft	\$0.00/sq ft	0	Water + energy cost per area cleaned
Total Cost	\$0.00	0	Robot operational cost this period
Savings	\$1,699.80	+1195.2	Savings vs manual cleaning (\$25/hr)
Hours Saved vs Manual	68.0 hrs	+47.8 hrs	Time saved compared to manual cleaning
Annual Projected Savings	\$20,397.56	+14341.7	Projected annual savings
ROI Impact	N/A	N/A	Requires investment data





Financial Impact Summary \$1,699.80 \$1,699.80 \$0.00 Total operational cost Equivalent manual cost Savings realized vs last: 0 vs last: +1195.2 vs last: +1195.2 \$20,397.56 68.0 hrs Annual projected savings Hours saved vs manual vs last: +14341.7 vs last: +47.8 hrs Cost calculated using \$25/hr wage, 8000.0 sq ft/hr human speed

Charging Sessions Performance

Charging patterns and battery management during the reporting period: 121 total sessions, 350.7 minutes average duration, and 22.5% average power gain per session.

121

Total Charging Sessions vs last: +106.0 sessions

350.7 min

Avg Charging Duration vs last: +303.5 min

141.0 min

Median Charging Duration vs last: +130.0 min

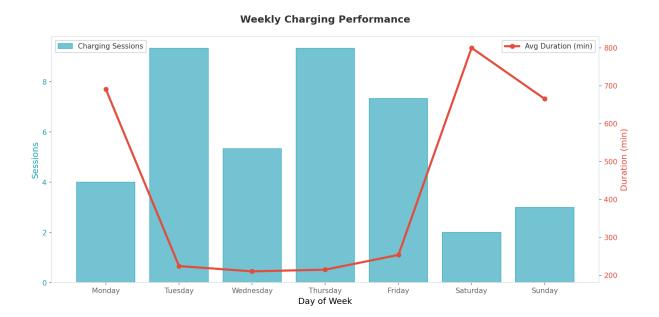
+22.5%

Avg Power Gain per Session vs last: +9.0% +15.0%

Median Power Gain per Session vs last: +10.0%

Charging Performance Summary

Weekly average charging performance shows consistent battery management across all locations with typical session duration of 141.0 minutes and median power gain of 15.0% per session.



Charging Patterns by Location

Location	Sessions	Avg Duration	Median Duration	Avg Power Gain	Median Power Gain
Building 205 Dental Science	70 vs last: +60.0 sessions	266.7 min vs last: +233.9 min	74.0 min vs last: +63.0 min	+17.0% vs last: +10.1%	+2.0% vs last: -1.5%
Building 43 Marston Science Library	51 vs last: +46.0 sessions	453.5 min vs last: +377.3 min	260.0 min vs last: +196.0 min	+29.9% vs last: +3.1%	+32.0% vs last: +27.0%



2025-08-20 To 2025-09-09 performance summary: 74.1% task completion rate across 2.0 robot(s), 112.0 tasks completed, 543,935.0 sq ft cleaned, 121.0 charging sessions, 34.4 kWh energy consumption, and 246292 fl oz water usage.

UF Report

Period: 2025-08-20 to 2025-09-09 Robots Included: 2

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