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Strengthening and Promoting the Linen, Uniform
and Facility Services Industry

2018

Sustainability Report
(2018 Data)



Introduction

The 2018 TRSA Sustainability Report provides results on a variety of topics relating to the environment; including water and energy usage, production volume, and energy conservation of textile rental operators. Results profiled in this report are based on sustainability data provided by 24 operators totaling 132 plant facilities. The tables and graphs contained in this report are designed to provide comprehensive, yet straightforward guidelines for analyzing sustainable practices among textile rental operators.

Every business must continue to improve sustainability. Maintaining competitiveness requires steady enhancing your price/quality proposition by increasing efficiencies across your organization. This report will guide your efforts to improve economies by benchmarking sustainability functions.

The report provides important information that helps in deterring new regulatory threats and in supporting the textile rental industry's marketing claims that the industry truly is environmentally preferable. The report data also has economic payoffs beyond the environmental realm: for example, the report data can be used to justify higher water evaporative loss credits from local utilities and provides key input in TRSA's annual strategic analysis of the industry.

Report Format

The report is organized into a three specific areas of separation, each designed to assist management in a specific area of inquiry:

TRSA Operator Norm — This section of the report profiles performance for all participants, the standard (mean) textile rental operator.

Line of Business Analysis— These three columns profiles results by business specialization: Food & Beverage Linen Rental (F & B), Industrial Sector, and Healthcare Sector (Retail Medical & Hospital/Nursing Homes).

Mixed Rental Analysis— This column represents textile rental operators with a mixed line of business concentration. Operators in this group reported less than 40 percent on their revenue in any one line of business category.

Explanation of Statistics

The figures provided in this report are means or averages.

Please note that throughout the report, "N/A" designates numbers that are not available due to limited sample size.

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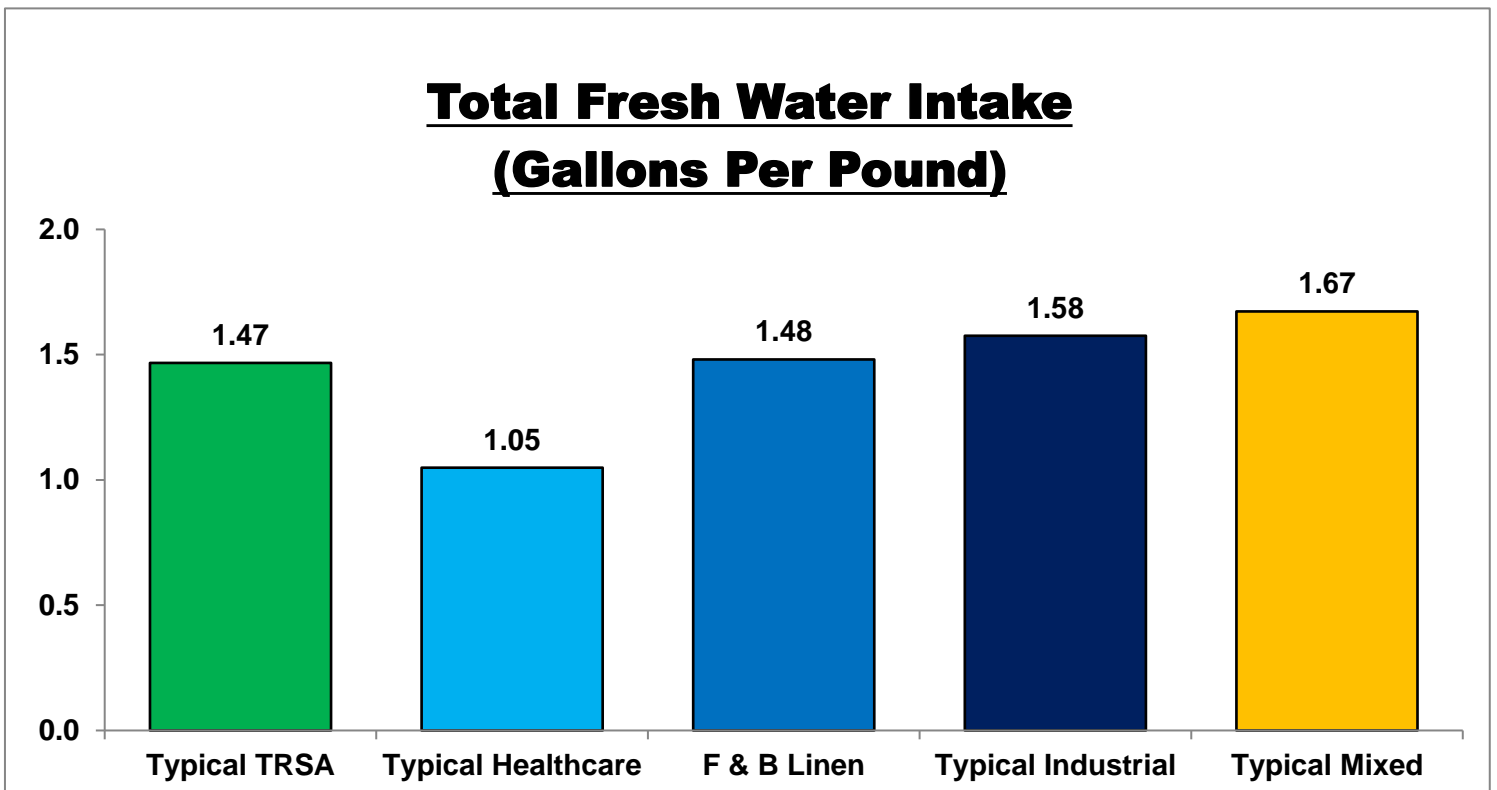
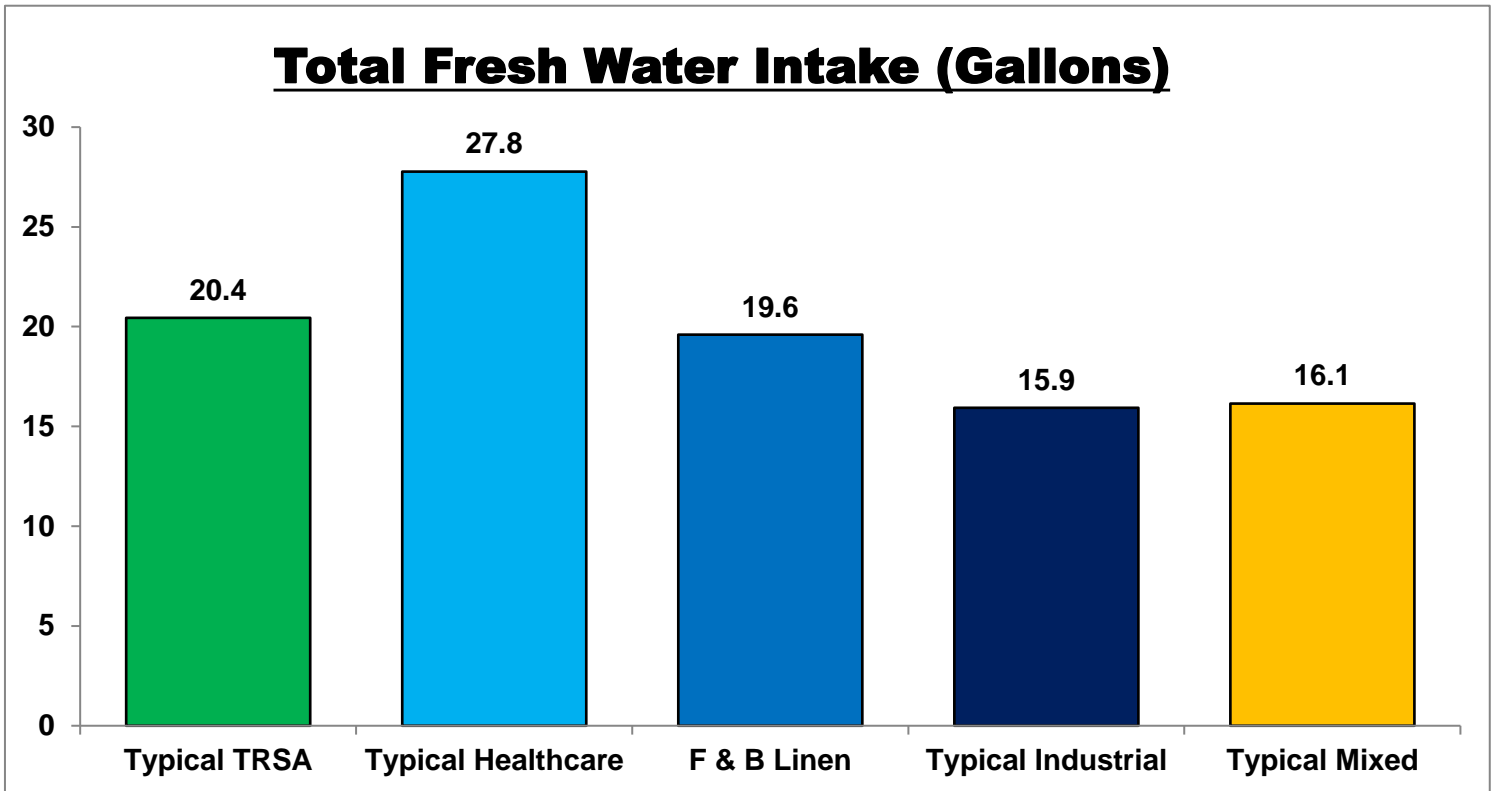
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Sustainability Data

The following provides an in-depth review of sustainability performance of textile rental operators for 2018.

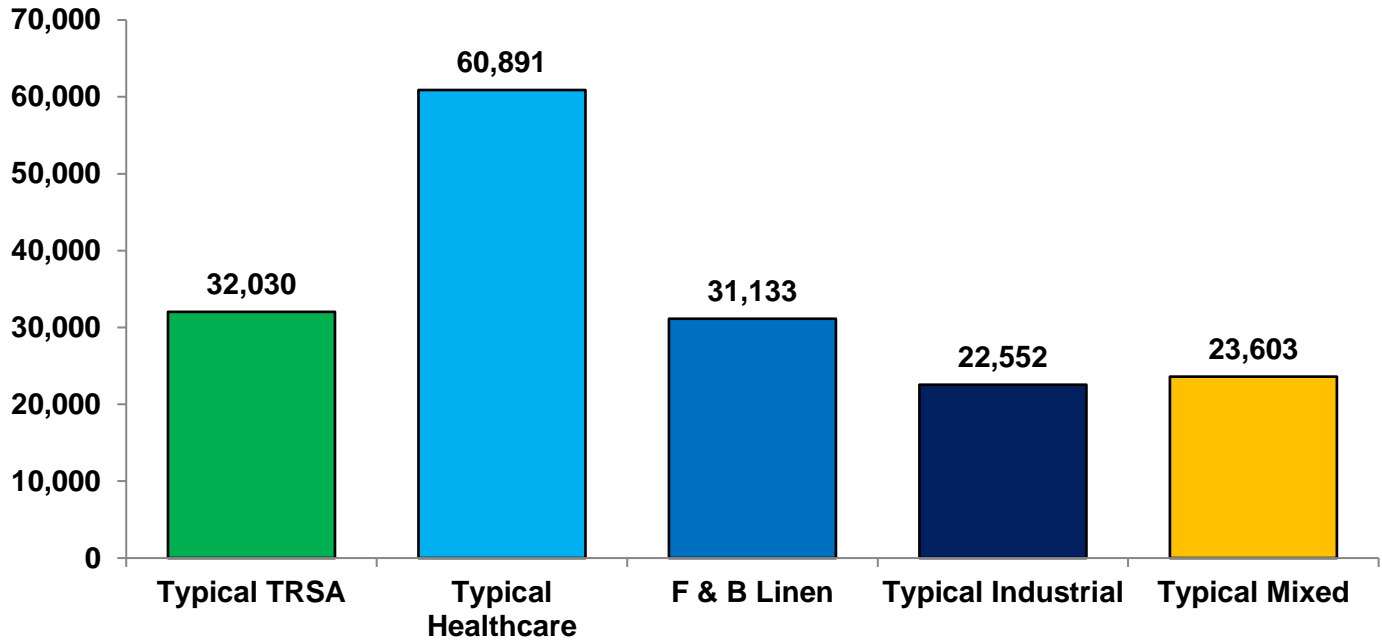
	<u>TRSA Operator Norm</u>	<u>Healthcare Sector</u>	<u>F & B Linen</u>	<u>Industrial Sector</u>	<u>Mixed Rental Operator</u>
Number Of Plants	132	28	18	64	22
<u>Pounds by Business Sector</u>					
Healthcare—Retail Medical	13.7%	46.4%	19.5%	1.5%	2.5%
Healthcare—Hospitals/Nursing Homes	11.6	52.4	3.3	0.1	0.0
Food & Beverage	20.8	0.4	54.9	17.7	27.9
Hotel/Lodging	1.2	0.7	7.6	0.1	0.0
Industrial	24.9	0.0	4.0	38.7	33.5
Dust	<u>27.8</u>	<u>0.0</u>	<u>10.7</u>	<u>41.9</u>	<u>36.1</u>
Total Pounds Processed	100.0%	100.0%	100.0%	100.0%	100.0%
Pounds Processed Per Plant (Soiled/Millions)	13.9	26.5	13.2	10.1	9.7
<u>Water Usage</u>					
Total fresh water intake (Gallons/Millions)	20.4	27.8	19.6	15.9	16.1
Total fresh water intake (Gallons Per Pound)	1.47	1.05	1.48	1.58	1.67
<u>Energy Usage</u>					
In-plant Energy Consumption (MMBtu)	32,030	60,891	31,133	22,552	23,603
*MMBtu = 1 Million Btus					
CO2 Emissions (CO2 Pounds)	5,421,746	11,276,794	4,891,627	3,589,719	3,733,133
Energy use per pound of production (Btu per pound)	2,422	2,540	2,630	2,294	2,475
<u>Greenhouse gas emissions (GHG) per pound of production</u>					
Pounds of CO ₂ per pound of textiles laundered	0.413	0.528	0.423	0.366	0.366
Percentage of total facility water use obtained through reuse or recycling	31.4%	30.9%	32.8%	32.1%	N/A
Facilities that receive an evaporative loss credit on its water bill from its POTW or water authority	56.5%	67.9%	88.9%	47.6%	40.9%
Loss credit percentage if given	12.9%	14.8%	13.5%	10.6%	16.7%
<u>Evaporative loss credit justified</u>					
Engineering calculations	21.3%	47.4%	25.0%	9.7%	0.0%
Water & waste water meter readings	74.7	47.4	68.8	87.1	100.0
Other	4.0	5.3	6.3	3.2	0.0
<u>Sustainable Business Practices</u>					
Perform an energy audit (every 3 years)	32%	46%	83%	22%	0%
Energy efficient lighting and/or skylights	68%	100%	94%	56%	41%
Boiler heat recovery or direct-fired hot water heater	36%	93%	78%	11%	0%
Wastewater heat recovery	98%	96%	100%	98%	100%
Wastewater pre-treatment (mechanical)	94%	79%	89%	100%	100%
Wastewater pre-treatment (advanced)	61%	7%	50%	78%	86%
Use fleet vehicle route optimization	91%	74%	89%	95%	100%
Have a <i>Qualified</i> Recycling Program	95%	79%	94%	100%	100%
Use Low temperature detergents	30%	71%	28%	22%	0%
Use Nonylphenol Ethoxylate (NPE) Free Detergent	98%	93%	94%	100%	100%
Perform preventative maintenance on boiler	98%	96%	100%	98%	100%
Perform preventative maintenance on water heater	88%	71%	100%	88%	100%

Fresh Water Intake

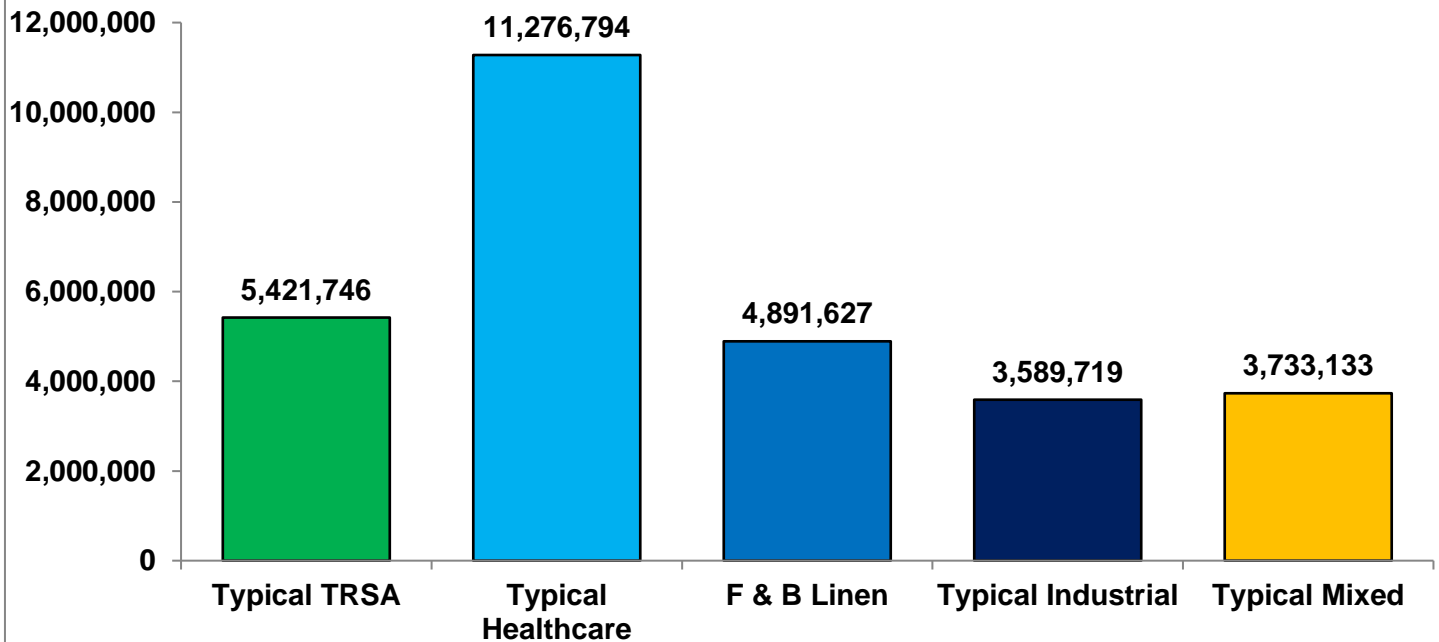


Plant Energy Use

In-plant Energy Consumption (MMBtu)

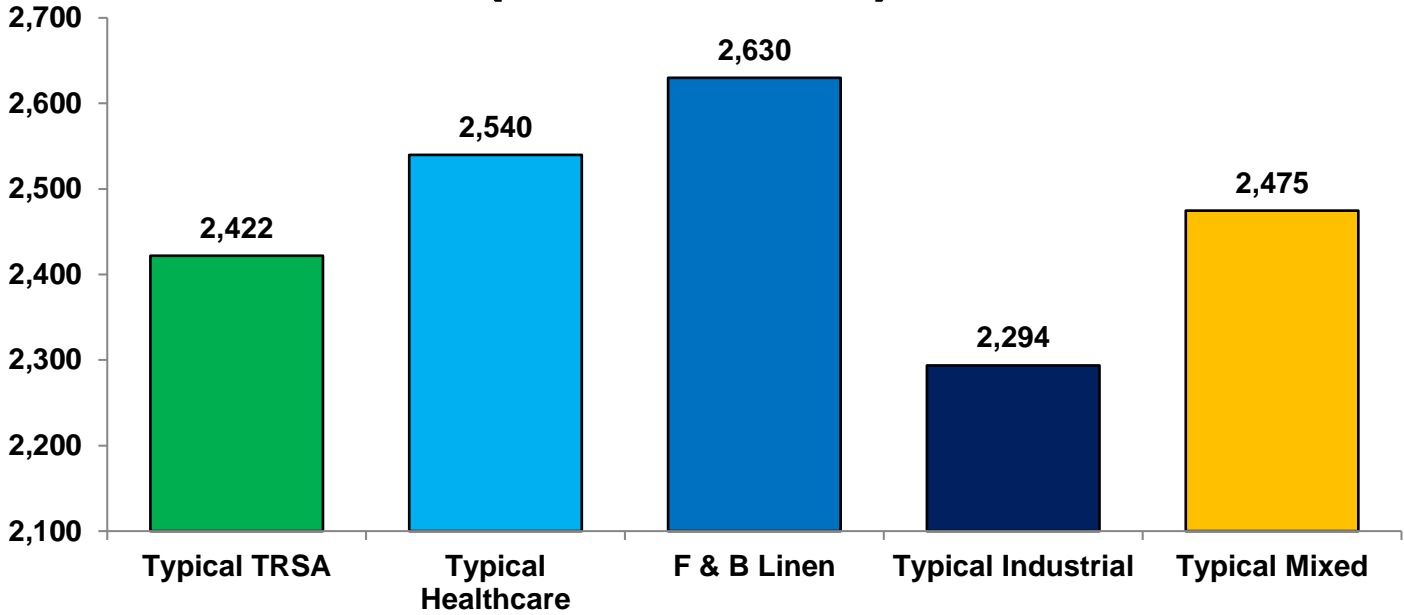


CO2 Emissions (CO2 Pounds)



Plant Energy Use

Energy Use Per Pound of Production (Btu Per Pound)



Pounds Of CO2 Per Pound Of Textiles Laundered

