



LET'S

Use Operating Cost Study data and ratios

COMPARE

to make informed business decisions.

NUMBERS

AN LM EXCLUSIVE

BY DAN GORDON

How would you like to understand your company's strengths and weaknesses compared to others in the landscape industry? And how about gaining insight into efficiency and your financial position to potentially attract financing or outside capital?

With goals like these in mind, we created this report to help you make more informed decisions to grow and prosper.

Measuring performance using key performance indicators (KPIs) and ratios from the immediate past history provides great insight into the current health of individual companies and the collective industry.

Let's get into the numbers.

RATIO ANALYSIS

Financial ratios are used widely to evaluate business performance and to identify possible trouble areas that could result in reduced profits or even business failure.

Industry indicators of financial performance are useful to those lending money or to those thinking about investment

because they allow comparison of the firm under consideration with the industry in general.

Managers and owners also use industry data to evaluate their own situations and to develop internal plans in which they might compare current and past performance.

For example, is cash flow getting tight? Are accounts receivable taking longer to collect? Is additional debt being incurred? People have a tendency to improve what is being measured. Call it competition; call it business acumen or whatever you'd like, but most people want to be part of a winning team. So, looking at proper metrics with an eye on improvement is helpful to winning the game of business.

Ratio analysis helps to quickly analyze the business.

In the Operating Cost Study, we used ratio analysis in the following areas: profitability; financial position; liquidity; activity; leverage; and other important ratios. Liquidity, leverage and other important ratios are not included in this excerpt but are available in the full report.

Editor's Note/ Methodology

This article is an excerpt from the "Operating Cost Study for the Landscape Industry," conducted and prepared by Dan Gordon, a certified public accountant and managing member of Turfbooks. It's brought to you by LM and the National Association of Landscape Professionals (NALP). Information for the preliminary results included in this article were collected in May, June and July from members of the landscape industry. It was submitted in Excel or a hard copy format. The incentive to participate is a free digital copy of the final report, due out later this year.

Data collection for the complete report is ongoing. Those interested in participating should visit bit.ly/nalpbookstore. The survey is presented as a consolidation of the group of participants and individual data will not be disclosed to any other party or used for any other purpose.

Participant profile

The study contains data from 60 firms reporting in 32 states. The median employee count, revenue per employee, revenue per customer and mix of services were tabulated from the data reported:

Service	Total reported revenue - all firms	Mix from reported*	Median revenue per firm	Breakdown of median
Design/Build (%)	\$45,114,161.29	17%	\$2,549,930.86	19%
Bid/Build or Landscape Construction (%)	\$23,849,488.57	9%	\$2,186,203.12	16%
Commercial Maintenance (%)	\$131,204,948.59	50%	\$5,466,872.86	41%
Residential Maintenance (%)	\$13,865,542.33	5%	\$602,849.67	4%
Lawn Care (Fertilization/Chemical Application)	\$23,917,193.59	9%	\$1,195,859.68	9%
Irrigation (%)	\$3,734,874.74	1%	\$233,429.67	2%
Snow Removal (%)	\$8,765,982.25	3%	\$486,999.01	4%
Other (%)	\$9,699,603.30	4%	\$692,828.81	5%
Total	\$260,151,794.66	100%	\$13,414,973.68	100%

*"Mix from reported" column does not equal 100% due to rounding.

General Information	Design/Build	Bid/Build	Comm. Maint.	Residential Maint.	Lawn Care	Irrigation	Snow	Other
Total # of active customers	326	280	479	529	2,640	726	421	548
Annual revenue 2015 (\$)	\$2,549,930.86	\$2,186,203.12	\$5,466,872.86	\$602,849.67	\$1,195,859.68	\$233,429.67	\$486,999.01	\$692,828.81
Annual revenue per customer	\$7,821.88	\$7,807.87	\$11,413.10	\$1,139.61	\$452.99	\$321.53	\$1,156.77	\$1,264.29
Number of production employees (FTEs)	25.0	21.0	65.0	8.0	8.0	2.0	5.0	5.0
Number of sales employees (FTEs)	1.5	1.0	3.0	0.5	1.0	0.0	0.0	1.0
Number of office staff (FTEs)	3.0	3.2	8.7	2.0	2.0	1.0	0.0	1.0
Number of managers (FTEs)	2.0	2.0	7.0	1.0	1.0	0.0	1.0	1.0
Total FTEs	31.5	27.2	83.7	11.5	12.0	3.0	6.0	8.0
Revenue per employee	\$80,950.19	\$80,375.11	\$65,315.09	\$52,421.71	\$99,654.98	\$77,809.89	\$81,166.51	\$86,603.61

*FTE = Full Time Equivalents. An FTE equates to the hours worked by one employee on a full-time basis. The concept is used to convert the hours worked by several part-time employees into the hours worked by full-time employees. On an annual basis, a FTE is considered to be 2,080 hours, which is calculated as: 8 hours per day x 5 work days per week x 52 weeks.



Description	Design/Build	Bid/Build	Commercial Maintenance	Residential Maintenance	Lawn Care	Irrigation	Snow Removal	Other
Total Direct Costs	62.02%	61.12%	66.69%	65.96%	52.94%	56.60%	66.16%	52.97%
Gross Profit	37.98%	38.88%	33.31%	34.04%	47.06%	43.40%	33.84%	47.03%

Specific direct cost category breakdowns (labor, fuel, vehicle, materials, workers' comp, liability and other costs) are available in the full report.

Description	Design/Build	Bid/Build	Commercial Maintenance	Residential Maintenance	Lawn Care	Irrigation	Snow Removal	Other
Total Sales & Marketing	5.31%	4.37%	4.13%	4.94%	11.03%	8.61%	3.94%	8.80%

Description	Design/Build	Bid/Build	Commercial Maintenance	Residential Maintenance	Lawn Care	Irrigation	Snow Removal	Other
Total General & Admin	24.89%	28.80%	25.27%	25.64%	25.31%	24.06%	20.77%	25.11%
Operating Profit	7.77%	5.71%	3.91%	3.46%	10.72%	10.73%	9.13%	13.12%
Profit before Taxes	7.42%	5.36%	3.56%	3.11%	10.32%	10.33%	8.80%	12.74%

Specific G&A category breakdowns (owner/management/office labor, payroll taxes, health insurance, etc.) are available in the full report.

PROFITABILITY

The income statement is one of the major financial statements used by accountants, financial institutions and business owners to determine entity profitability.

The income statement is sometimes referred to as the profit and loss statement (P&L), statement of operations or statement of income. It's important because it shows the profitability of a company during the time interval specified in its heading.

In the tables above, the medians of each market segment were taken and converted into percentages for presentation. Of the 60 companies that reported, there were none that reported working only in one segment. Each participant provided two or more services with 82 percent of the respondents reporting at least four of the services.

While the financial performance varied from company to company, the tables above depict the median company results for each category. These results are in line with the percentages we see for the various service lines among the clients in our accounting practice.

FINANCIAL POSITION OR BALANCE SHEET

The balance sheet report summarizes all of an entity's assets, liabilities and equity as of a given point in time. It's typically used by lenders, investors and creditors to estimate the liquidity of a business.

Typical line items included in the balance sheet by general category are:

- **Assets:** cash, accounts receivable, inventory; property, plant and equipment; and other assets.
- **Liabilities:** accounts payable, short-term debt and long-term debt; and
- **Shareholders' equity:** stock and retained earnings.

At right is the raw data with regard to financial position that was collected for the study, expressed as percentages.

An important distinction: A balance sheet is not a statement of net worth, as assets are recorded at historic costs and may have appreciated or depreciated since being recorded. In addition, intangibles such as the value of customer relationships—which can be significant—for the most part will not be on the balance sheet.

For this study, every respondent provided services in multiple service

lines, but balance sheets were reported on an entire entity basis. This means the ratios calculated from balance sheet results should be interpreted on a companywide basis as opposed to a particular service segment.

Continued on page 36

Description	Amount
Cash & Marketable Securities	12.77%
Accounts Receivable	27.51%
Cash+ AR	40.28%
Inventory	4.15%
Other Current Assets	4.96%
Total Current Assets	49.39%
Net Fixed Asset	38.55%
Other Assets	12.06%
Total Assets - Calculated	100.00%
Accounts Payable	15.33%
Other Payables - Due in less than 1 year	12.18%
Customer Deposits (Prepays)	5.44%
Total Current Liability	32.95%
Long Term - Notes Payable	28.88%
Loans to Shareholders	0.53%
Total Liability	62.36%
Owner Equity	37.64%
Total Liabilities & Equity - Calculated	100%



Continued from page 34

ACTIVITY RATIOS

Activity ratios indicate how efficiently a firm uses and manages its resources, including cash, accounts receivable, salaries, inventory and property, plant and equipment. Higher ratios may signify efficient use of those resources, while lower ratios may signify inefficient use of those resources.

Activity ratios provide an indication of how efficiently a firm runs its operations. For example, all other factors being equal, a firm that keeps a very modest amount of inventory is usually in better shape than a firm that has to keep (store, manage, warehouse, insure and so forth) a large quantity of inventory.

Some activity ratios are operational as opposed to financial. One such activity ratio would be revenue per employee.

Activity	Formula
Revenue per Employee	Revenue / FTEs
Revenue per Customer	Revenue / # of Active Customers
Profit per Employee	Net Income / FTE
Collection Period / Days	A/R / (Annual Sales / 365)
Asset Turnover	Net Sales / Average Assets
Inventory Ratio	Revenue / Inventory
Payable Period / Days	COGS / Average A/P

COGS = Cost of Goods Sold or direct costs; A/R = Accounts Receivable; A/P = Accounts Payable

Here's a look at key activity ratios:

Revenue per employee (FTE): The more revenue we
Continued on page 40

Description	Design/Build	Bid / Build	Commercial Maintenance	Residential Maintenance	Lawn Care	Irrigation	Snow Removal	Other
Revenue per Employee	\$80,950.19	\$80,375.11	\$65,315.09	\$52,421.71	\$99,654.98	\$77,809.89	\$81,166.51	\$86,603.61
Revenue Per Customer	\$7,821.88	\$7,807.87	\$11,413.10	\$1,139.61	\$452.98	\$321.53	\$1,156.77	\$1,264.29
Profit Per Employee	\$6,476.01	\$4,822.51	\$2,612.60	\$1,572.65	\$10,962.05	\$8,559.09	\$7,304.99	\$11,258.47

Jerry Likes It!

"It's the software we trust to run our business."



Visit: www.youraspire.com
 Contact: Kevin Kehoe
kevin.kehoe@youraspire.com



Jerry Schill
 President,
 Schill Grounds Management

YOU DECIDE
IF THIS IS THE BEST
OF BOTH WORLDS



5000 Series Up & Accent Fixtures with Factory-Installed Vista MR-16 LED Lamps:

- Performance: 4.5 watt or 5.5 watt lamps optimize light output, maximize energy savings and minimize maintenance
- Convenience: Fixtures are shipped with lamps installed; no hand assembly is required, saving you time and labor
- Water-tightness: A patent-pending silicone diaphragm gasket allows the fixture to breathe during thermal cycling to prevent moisture from being drawn into the lamp and socket
- Options: A wide selection of standard colors is available, along with a choice of accessories, including lenses and louvers

EXPERIENCE THE VISTA DIFFERENCE.

Consult with your sales representative or visit vistapro.com for product details.



LANDSCAPE
LIGHTING



800-766-8478
www.vistapro.com



Terms to know

Use the following definitions to understand the data presented in this report.

RATIO: A ratio is the relationship of two quantities expressed as the quotient of one divided by the other. For example, if there are 10 people, six who have blue shirts and four who have red shirts, the ratio of blue shirts to the population would be six-tenths or 60 percent. The ratio of red shirts to the entire population would be four-tenths or 40 percent. Most of the KPIs in this report are expressed as ratios.

MEDIAN: The value of a set of data that falls at the midpoint of the data, assuming the data is ordered lowest to highest. The median does not give value to the values themselves but rather to their ordering.

MEAN: The mean is the mathematical average calculated by adding up all data points and dividing by the number of data points.

This report uses medians for the majority of reported results to limit the impact of data from outliers that can skew the data.

CURRENT ASSETS: Current assets are all assets on a balance sheet that can be converted into cash quickly (usually one year or less). Examples include cash, accounts receivable, inventory and marketable securities.

CURRENT LIABILITIES: Current liabilities are the company's debts or obligations that are due in the short term (usually one year or less). Examples include accounts payable, credit cards payable, payroll taxes payable and credit lines payable.

EBITDA: This term is short for earnings before interest, taxes, depreciation and amortization (earnings while adding back noncash charges, so the number gets closer to cash provided by operations).

FIXED ASSET: Also known as property, plant and equipment (PP&E). These are assets that cannot easily be turned into cash. Some examples include vehicles, equipment and real estate.

REVENUE: The amount of money earned in a given period.

COST OF GOODS SOLD (COGS): Generally accepted accounting principles don't provide a detailed description of COGS, as they can be made up of many items. In our context, think of them as all direct costs or those costs that happen away from the office and rise and fall with the volume of business completed. Examples include technician labor, vehicle costs, materials, etc.

EQUITY: The difference between assets and liabilities on a balance sheet. In this case assets are recorded at historic costs. Therefore, true equity would not be measured from the balance sheet as assets appreciate and intangibles, such as customer lists, grow. These items can be significant and are excluded, as a balance sheet is historic but should be considered in any analytic exercise.

GROSS PROFIT: The difference between a firm's revenue and its direct costs. Gross profit is the most important KPI when running a business. Gross profit is key to finding out a firm's breakeven point using breakeven analysis.

OPERATING EXPENSES: Operating expenses are those used to run the business that are not associated directly with production of service. Some examples include office rent, utilities, marketing and sales, office staff, etc. Many refer to operating expenses as fixed costs because many of these must be paid at any volume of business and can be seen as fixed over a range of business activity.



Continued from page 36

produce per employee, the more efficient we're using the resources (in this case people resources) we have.

Revenue per customer: Obviously, you need to have a consistent definition of what a customer is (not just a name in your database but rather someone you continue to do business with). I love this ratio because you can review the number with your sales team and create very specific future goals.

For example, say your average lawn care customer yields \$500 per year. Let's increase that figure by 10 percent to \$550 per customer. It's very easily measured.

Collection period / days: This ratio tells us how efficient we are at collecting our money or holding our customers to our credit terms.

For example, a company producing \$365,000 in sales (which translates to \$1,000 per day) that grants its customers 30-day terms should have \$30,000 in A/R.

Be careful when using this ratio: Make sure all prepaids/customer deposits are backed out of your accounts receivable number so that it's a true A/R number.

Asset turnover: Generally, the higher the asset turnover ratio, the better the company is performing, since higher ratios imply the company is generating more revenue per dollar of asset. This ratio can vary widely from one industry to the next. While this is a widely used KPI in the finance world, it works best in industries where there is a heavy investment in assets. With the exception of landscape construction, most firms in our industry use labor to a much higher degree than fixed assets; therefore, I don't put as much emphasis on this ratio as I do some of the others. Again, this is just another tool in the financial tool chest.

Inventory ratio: Inventory turnover is a ratio showing how many times a company's inventory is sold and replaced over a period. The days in the period can then be divided by the inventory turnover formula to calculate the days it takes to sell the inventory on hand or

Balance Sheet Ratio	
Collection Period / Days	21.6 days
Asset Turnover	27.2
Inventory Ratio	15.6
Payable Period / Days	37 days

Go iLAWN
Measure. Bid. Win.

1-800-270-6782
www.goilawn.com

Know the job.
Show the client.
Guide the crew.

Quote With Confidence:
Use Go iLawn

With Go iLawn, you'll really know your jobsites, so you'll have the confidence to quote your work aggressively. Your customers can see exactly what you're quoting them, and they'll have the confidence to choose you.

Try Go iLawn for Free today: | Visit www.GoiLawn.com/promo and use the code LM169

- Bid with facts, not guesses
- Sell better using images
- Execute faster using maps
- Market yourself to the neighborhood
- See the whole job
- Visit more jobs in less time



“inventory turnover days.” A low inventory ratio is usually a bad sign. Inventory may be over ordered or sales may not be as robust.

Here’s a big caveat: Many times at year-end—for both tax reasons and the fact that many distributors give great year-end incentives—many firms purchase large amounts of inventory, which will drive up the inventory account in a big way. Carefully consider this abnormality when making comparisons.

Profit per employee: Again, this is not straight off the financials (as the financials don’t note FTEs). However, this is an especially useful ratio. Often in the heat of battle we start adding employees without a proper plan or the real-time information to determine if it’s a good idea. This ratio helps to determine if you’re making an acceptable profit for each employee. If you benchmark profit per employee, you can make decisions about human resources and determine if you can afford an increased head count.

Payable period days: Similar to days of sales in A/R, this data point measures a firm’s payment history as a number of days, letting you know if you’re meeting your obligations in a timely manner. If your vendors give 30-day

terms and you’re paying in 25, you’re able to meet your obligations within terms. If you pay in 35 days, then you’re not meeting your obligations in a timely manner. If you have the ability to consistently pay your vendors quickly, many vendors may offer a discount. Terms such as “2/10 net 30” can save you a significant amount of cash. These terms would be to take a 2 percent discount if you pay within 10 days or else pay in full by 30 days.

PROFITABILITY RATIOS

Profitability ratios reflect the overall effect of a firm’s managerial efficiency. These ratios are indicators of a firm’s breakeven point and the amount of money that’s made once breakeven is achieved given a certain level of sales. They reflect the results of decisions that management

**PEOPLE
HAVE A
TENDENCY
TO IMPROVE
WHAT’S
BEING
MEASURED.**

new Humic PLUS Activated Humic Acid with Solu-Cal
Humic Acid. Actively Better.

New HUMIC Plus from Solu-Cal combines the power of Activated Humic/Fulvic Acid with Solu-Cal Soluble Calcium in a dust-free pellet for active plant nutrition. The wet chemistry alkaline extraction behind HUMIC Plus is the preferred method for refining the natural benefits of organic plant matter humus into an effective Humic Acid treatment. Without this process, raw Humic Acid material is inactive and could take years to produce results in the soil.

- 6% Activated Humic/Fulvic Acid • 30% Solu-Cal Soluble Calcium • 9% Plant Based Organic Acid
- Economical delivery of Activated Humic/Fulvic Acid
- Essential Carbon source to stimulate and improve soil microbiology
- Promotes super aggressive seedling turf

Course Grade 210 5GN • 50lb bag covers 11,000 sq.ft.

www.Solu-Cal.com • 774.671.0288

Lawn & Landscape • Golf • Hydro Seed • Food Plots



Description	Build / Design	Bid / Build	Commercial Maintenance	Residential Maintenance	Lawn Care	Irrigation	Snow Removal	Other
Gross Profit %	38%	39%	33%	34%	47%	43%	34%	47%
Operating Expense %	30%	33%	29%	31%	36%	33%	25%	34%
Profit Margin	8%	6%	4%	3%	11%	11%	9%	13%
EBITDA	11%	9%	7%	7%	15%	16%	11%	17%

Profitability	Formula
Gross profit %	GP / Revenue
Operating expense %	Operating Expenses / Revenue
Profit margin	Net Income / Revenue
EBITDA	Earnings before Interest, Taxes, Depreciation and Amortization
Return on assets	Net Income / Total Assets
Return on equity	Net Income / Total Equity

Profitability (Balance Sheet Items)	Mean	Median
Return on Assets	21%	20%
Return on Equity	51.50%	47.20%

has made in order to maximize profitability. They are also a class of financial metrics that are used to assess a company's ability to generate earnings compared to its expenses and other relevant costs incurred during a specific period of time.

Gross profit %: This ratio shows us how efficient a firm is at providing services before paying sales, marketing and fixed costs. In my opinion gross profit is the single most important financial ratio.

Operating expense %: If operating expenses exceed gross margin you will operate at a loss. If they are truly fixed, the fixed cost percentage will fall as a firm grows.

Profit margin: This is what you work for—net income.

EBITDA: Earnings before interest, taxes, depreciation and amortization. This is cash flow!

Return on assets: This is one that for comparison purposes may work for companies that employ a high value of assets. From my prospective this ratio is better suited to looking at your portfolio of investments as opposed to fixed assets. My reasoning is that our biggest asset in the service business is our people. With the exception of construction, most firms don't employ high values of assets, but rather they use a high value of direct labor.

Return on equity: This ratio answers the question, "What is the return on that piece of the balance sheet called equity?" Again, it's great to do comparisons with other firms, but equity is such a loose concept in small, privately held businesses. ☺

EarthWay
EV-N-SPRED
FLEX-SELECT

The F80S Adaptable Broadcast Spreader System with interchangeable application trays.

You have never seen anything like it!
Seed, Fertilize, Topdress
All with one spreader!

OPTIONAL TRAYS INCLUDE:
HIGH-OUTPUT: Blue for top dressing, rock salt
LOW-OUTPUT: Black for grass seed, chemicals

MADE IN THE USA

For information call 1-800-294-0671
or visit www.earthway.com patents pending

Gordon, a CPA, is managing partner of Turfbooks. Reach him at dan@turfbooks.com.