#### Starting New Ventures 64-361.202

## Chap 8. Assessing Financial Strength And Viability Dr. Jack M. Wilson

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#### Klymit –the critical importance of cash flow

- 2006- Nate Alder
- Argon insulated winter garb
- 2007-2008 First or Second in 11 business Plan competitions
- Won \$200,000
- Angel Investor provided \$220,000
- Companies were not prepared to deal with and manufacture this, and recession was underway.
- Off shored production to Asia –some success.
- Got \$2 million in VC money (Led by Level 4)
- Launched sleeping bag
- Continues to be cash flow challenge



#### **Financial Management**

- Raising money and managing a new companies finances
- Even successful companies often have to pay for cost of goods and then wait for purchasers to pay in 30-60 days. It is easy to run out of cash.
- For the new venture founder: "Cash is King"
- Can you fund growth through earnings, borrowing, or investment. All of the above?



#### Financial Management – Key Questions

- How are we doing? Making or losing money?
- How much cash do we have on hand?
- Do we have enough cash to meet our short term obligations?
- How efficiently are we utilizing our assets?
- How do our growth and net profits compare to our industry peers?
- Where will the funds come from for needed capital improvements?
- Can we partner with other firms to share risk and reduce our needs for cash?
- Over-all are we in good shape financially?



### Financial Objectives of any firm

- Profitability
- Liquidity
  - Inventory, accounts receivable, ability to meet short term obligations
- Efficiency
  - How effectively a firm utilizes its assets relative to revenues and profits.
- Stability
  - Earn a profit, remain liquid, keep debt in check
  - Debt to equity ratio (long term debt/shareholder's equity)

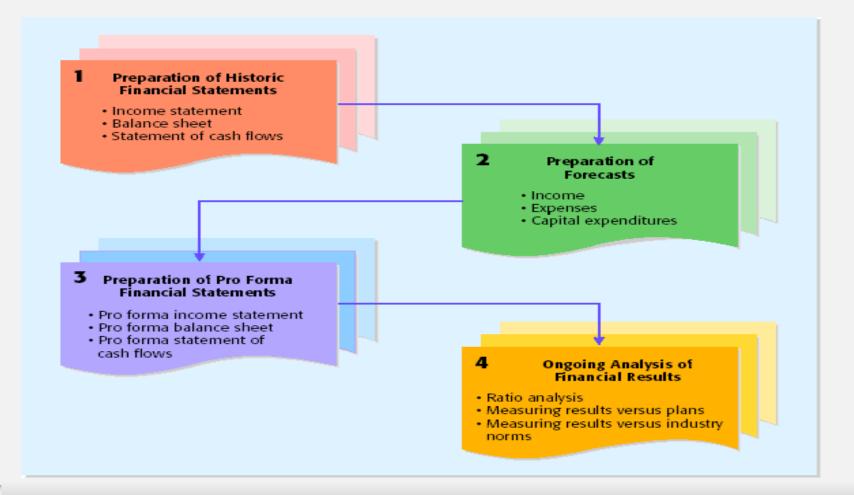


## **Financial Objectives and Ratio Analysis**





## The Process of Financial Management





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## **Using Accounting Records to Track Costs**

- One journal and two boxes
  - Receipts and invoices
- Accounting software
  - Microsoft Small Business Financials
  - QuickBooks
  - Peachtree
- Keep two copies of your records
- Use business checks for business expenses
- Study taxation rules



#### **Financial Objectives and Ratios**

- Efficiency Is how productively a firm utilizes its assets relative to its revenue and its profits.
- Efficiency Ratios
  - <u>Average Inventory Turnover Ratio</u> Tells the average number of times the firm's inventory is "turned over" or sold out during the accounting period.
  - <u>Net Sales to Total Assets Ratio</u> Measures the firm's ability to generate sales given its asset base.



## Key Components of the Process of Financial Management

- Financial Statement
  - Income statement
  - Balance sheet
  - Statement of cash flows
- Forecasts: income, expenses, capital expenditures
- Budgets: itemized forecasts
- Preparation of Pro forma Financial Statements
  - Pro forma income
  - Pro forma balance sheet
  - Pro forma statement of cash flows.
- Financial ratios: ROI, ROA, debt to equity, etc
  - need to compare to benchmark industry peers



#### **Financial Statements and Forecasts**

- Historical Financial Statements –actual past performance
  - Publicly traded companies under Securities and Exchange Commission
  - File 10-K
- Pro forma financial statements.
  - Projections for future periods based upon forecasts (~2-3 years)
  - Not usually public



## **Financial Statements**

Financial statement	Purpose
Income Statement	The income statement reflects the results of the operations of a firm over a specified period of time. It records all the revenues and expenses for the given period and shows whether the firm is making a profit or is experiencing a loss.
Balance Sheet	The balance sheet is a snapshot of a company's assets, liabilities, and owners' equity at a specific point in time.
Statement of cash flows	The statement of cash flows summarizes the changes in a firm's cash position for a specified period of time and details why the change occurred. The statement of cash flows is similar to a month-end bank statement.



#### **Income Statement**

- The income statement reflects the results of the operations of a firm over a specified period of time. It records all the revenues and expenses for the given period and shows whether the firm is making a profit or is experiencing a loss.
- The three numbers that receive the most attention when evaluating an income statement are the following:
  - i. Net sales consists of total sales minus allowances for returned goods and discounts.
  - ii. Cost of sales includes all the direct costs associated with producing or delivering a product or service, including the material costs and direct labor.
  - iii. Operating expenses include marketing, administrative costs, and other expenses not directly related to producing a product or service.
- Profit Margin-return on sales = net income/net sales
- P/E –Price-Earnings ratio Price of share/earnings per share –only for public co.



#### **Balance Sheet**

- Unlike the income statement, which covers a specified period of time, a balance sheet is a snapshot of a company's assets, liabilities, and owner's equity at a specified point in time.
  - a. The left-hand side of a balance sheet (or the top, depending on how it is displayed) shows a firm's assets, while the right-hand side (or bottom) shows its liabilities and owner's equity.
  - b. Multiple years are shown so trends can be easily spotted.



# The major categories of assets listed on a balance sheet are the following:

- Current assets include cash plus items that are readily convertible to cash, such as accounts receivable, marketable securities and inventories.
- ii. **Fixed assets** are assets used over a longer time frame, such as real estate, buildings, equipment, and furniture.
- iii. Other assets are miscellaneous assets, including accumulated goodwill.



# The major categories of liabilities listed on a balance sheet are the following:

- i. Current liabilities include obligations that are payable within a year, including accounts payable, accrued expenses, and the current portion of long-term debt.
- ii. Long-term liabilities include notes or loans that are repayable beyond one year, including liabilities associated with purchasing real estate, buildings, and equipment.
- iii. Owner's equity is the equity invested in the business by its owners plus the accumulated earnings retained by the business after paying dividends.



#### **Balance Sheet – Key Ratios**

- Working Capital = Current Assets Current Liabilities
- Current Ratio = Current assets / Current Liabilities
- Debt Ratio = Total Debt(long&short) /Total Assets
- Example of New Venture Fitness Drinks (2011)
  - Current Assets = \$122,600 Current Liabilites = \$40,100
  - Working Capital = 122,600-40,100 = \$82,500
  - Current Ratio = 122.6/40.1 = 3.06
  - Both are good numbers for this small firm.
  - Debt Ratio = 289.65/729.6 = 39.7%



#### **Consolidated Income Statement**

lew Venture Fitness Drinks Consolidated Income Statement					
Dec. 3	31, 2011	Dec. 3	1, 2010	Dec. 3	1, 2009
Net Sales \$	586,600	\$	463,100	\$	368,900
Cost of Sales \$	268,900	\$	225,500	\$	201,500
Gross Profit \$	317,700	\$	237,600	\$	167,400
Operating Expenses					
Selling, General and Administrtive Expenses \$	117,800	\$	104,700	\$	90,200
Depreciation \$	135,000	\$	5,900	\$	5,100
Operating Income \$	186,400	\$	12,700	\$	72,100
Other Income					
Interest Income \$	1,900	\$	800	\$	1,100
Interest Expense \$	(15,000)	\$	(6,900)	\$	(6,400)
Other Income \$	10,900	\$	(1,300)	\$	1,200
Income before Income Taxes \$	184,200	\$	119,600	\$	68,000
Income Tax Expense \$	53,200	\$	36,600	\$	18,000
Net Income \$	131,000	\$	83,000	\$	50,000
Earnings per share	1.	31	0.	83	0.5
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#### **Consolidated Balance Sheets**

Consolidated Balance Sheets for New Venture Fitness Products						
Assets Current Assets	Dec. 31	1, 2011	Dec. 3	1, 2010	Dec. 3	31, 2009
Current Assets						
Cash and Cash Equivalents	\$	63,800	\$	54,600	\$	56,500
Accounts Receivable less allowances for doubtful accts.	\$	39,600	\$	48,900	\$	50,200
Inventories	\$	19,200	\$	20,400	\$	21,400
Total current Assets	\$	122,600	\$	123,900	\$	128,100
Property Plant and Equipment						
Land	\$	260,000	\$	160,000	\$	160,000
Buildings and Equipment	\$	412,000	\$	261,500	\$	149,000
Total Property Plant and Equipment	\$	672,000	\$	421,500	\$	309,000
Less Accumulated Depreciation	\$	65,000	\$	51,500	\$	45,600
Net Property, Plant, and Equipment	\$	607,000	\$	370,000	\$	263,400
Total Assets	\$	729,600	\$	493,900	\$	391,500
Liabilites and shareholder's Equity						
Accounts Payable	\$	30,200	\$	46,900	\$	50,400
Accrued Expenses	\$	9,900	\$	8,000	\$	4,100
Total Current Liabilities	\$	40,100	\$	54,900	\$	54,500
Long-term Liabilities						
Long-term debt	\$	249,500	\$	130,000	\$	111,000
Long-term liabilities	\$	249,500	\$	130,000	\$	111,000
Total liabilities	\$	289,600	\$	184,900	\$	165,500
Shareholders Equity						
Common stock (100,000 shares)	\$	10,000	\$	10,000	\$	10,000
Retained Earnings	\$	430,000	\$	299,000	\$	216,000
Total Shareholder's Equity	\$	440,000	\$	309,000	\$	226,000
Total Liabilities and Shareholder's Equity	\$	729,600	\$	493,900	\$	391,500



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#### Ratios

Return on Assets-ROA=net income/ave total assets	21.4%	18.7%		
Return on Equity-ROE=netincome/ave shareholders				
equity	35.0%	31.0%		
Profit margin =net inc./net sales	22.3%	17.9%	13.6%	
Liquidity Ratios				
Current= Current assets/current liabilities	3.06	2.26	2.35	
				QuickAssets =Current assets-
Quick=quick assets/current liabilities	2.58	1.89	1.96	Inventories
Debt ratio= total liabilities/total assets	39.7%	37.4%	42.3%	
Debt ratio- total habilities/ total assets	59.7%	57.4%	42.5%	
Debt to Equity= total liabilities/owners equity	65.8%	59.8%	73.2%	



#### Statement of Cash Flows.

- The statement of cash flows summarizes the changes in a firm's cash position for a specified period of time and details why the changes occurred. It is similar to a month-end bank statement. It reveals how much cash is on hand at the end of the month as well as how the cash was acquired and spent during the month.
- It also answers the question of whether a company generating enough cash for various purposes: dividends, paying down debt, or investing in the company.
- a. The statement of cash flows is divided into three separate activities: operating activities, investing activities, and financing activities.
- b. These activities, which are explained in the following list, are the activities from which a firm obtains and uses cash:
  - i. Operating activities include net income (or loss), depreciation, and changes in current assets and current liabilities other than cash and short-term debt. A firm's net income, taken from the income statement, is the first line on the corresponding period's cash flow statement.
  - ii. Investing activities include the purchase, sale, or investment in fixed assets, such as real estate, equipment, and buildings.
  - iii. Financing activities include cash raised during the period by borrowing money or selling stock and/or cash used during the period by paying dividends, buying back outstanding debt, or buying back outstanding bonds.



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#### **Cash Flow Management**

- Income to Cash Flow
  - Take your net profit and add back depreciation
  - Subtract increases or add decreases in accounts receivable
  - Subtract increases or add decreases in inventory
  - Add increased or subtract decreases in accounts payable
- Improve the flow
  - Minimize accounts receivable
  - Reduce the raw material and finished products inventory
  - Control your spending
  - Delay your accounts payable



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#### Forecasts

- For new firm start with the business plan
- Make an assumptions sheet.
- Sales forecast
  - Regression analysis helps once there is some actual history to use.
- Cost of sales forecast –common way is percent of sales
  - Constant ratio method
- Break even point = total revenue meets total costs



## Forecast of Costs of Sales

- the percentage-of-sales method
  - A method for expressing each expense item as a percentage of sales.
  - If a firm determines that it can use the percent-of-sales method and its follows the procedures described in the textbook, then the net result is that each expense item on its income statement will grow at the same rate as sales (with the exception of items that can be individually forecast, such as depreciation).





#### **Estimate Demand**

- Use historical analogy or substitute products
- Talk to customers
- Interview prospective end-users and intermediaries
- Use the entrepreneur's knowledge and experience
- Go into limited production





## Sales Forecast

- A sales forecast for **a new firm** is based on a good-faith estimate of sales and on industry averages or the experiences of similar start-ups.
- A sales forecast for **an existing firm** is based on
  - its record of past sales
  - its current production capacity and product demand,
  - factors that will affect its future product capacity and product demand, such as
    - Growth rate in the market
    - Technology innovations that make the products more attractive or produced at a lower cost.



#### Summary of key ratios

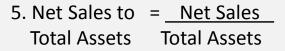
- ROA-Return on assets = net income/ave. total assets
  - Ave.-average of beginning and ending (assets or equity)
- ROE-Return on equity = net income/ave. shareholder's equity.
- Profit margin = net income/net sales
- Current ratio= current assets/current liabilities
- Quick ratio = quick assets/current liabilities
  - Quick cash & accts. receivable
- Debt ratio = total debt(liabilities)/total assets
- Debt to equity = total liabilities/ owners' equity



#### **Ex. Calculating the following ratios**

1. Current Ratio = <u>Current Assets</u> Current Liabilities

- 2. Quick Ratio = <u>Quick Assets(TA-Inv.)</u> Current Liabilities
- 3. Debt Ratio = <u>Total Debt(Liabilities)</u> Total Assets
- 4. Average Inventory = <u>Cost of Goods Sold</u> Turnover Ratio Average Inventory\*
- \*Average Inventory = <u>Beginning Inventory + Ending Inventory</u>
  - 2



- 6. Net Profit on = <u>Net Income</u> Sales Net Sales
- 7. Net Profit to = <u>Net Income</u> Equity Owner's Equity

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# **Financial Analysis**

- Financial Analysis
  - How much money do you need?
    - Capital requirements
    - Break Even Analysis
    - Overall attractiveness of the investment
  - Where to get the money?
  - Financial Objectives and Ratio Analysis



Ch. 8 -Financial Strength and  $\overset{3-29}{Viability}$ 

#### Forecasts

- For new firm start with the business plan
- Make an assumptions sheet.
- Sales forecast
  - Regression analysis helps once there is some actual history to use.
- Cost of sales forecast –common way is percent of sales
  - Constant ratio method
- Break even point = total revenue meets total costs



#### **Break-Even Point**

- The point where the amount of sales that you need to achieve to cover your total costs.
- Break-even analysis steps:
  - Determine the sales price (per unit) of your product or service
  - Estimate the variable cost (per unit) of your product or service
  - Subtract the variable cost per unit from the sales price to calculate your contribution margin (per unit)
  - Estimate your business' fixed costs
  - Divide the fixed costs by the contribution margin percentage to calculate the breakeven point





#### Pro-forma financial statements

- Beginning from the forecasts:
- Pro forma income statement
- Pro forma balance sheet
  - Meet short term liabilities
- Pro forma statement of cash flows
  - Sufficient cash to meet needs?



#### Ratio analysis –Historic and Pro Forma

## TABLE 8.9RATIO ANALYSIS OF HISTORICAL AND PRO FORMA FINANCIALSTATEMENTS FOR NEW VENTURE FITNESS DRINKS, INC.

		Historical	Projected		
Ratio	2009	2010	2011	2012	2013
Profitability ratios					
Return on assets	14.7%	18.7%	21.4%	19.0%	18.9%
Return on equity	24.9%	31.0%	35.0%	28.9%	27.2%
Profit margin	13.6%	17.9%	22.3%	18.1%	18.1%
Liquidity ratios					
Current	2.35	2.26	3.05	2.07	2.24
Quick	1.96	1.89	2.58	1.60	1.78
Overall financial stability ratios					
Debt	42.3%	37.4%	39.7%	29.3%	31.8%
Debt to equity	73.2%	59.8%	65.8%	41.5%	46.6%



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#### New Venture Fitness Drinks –Income Statement

1	Dece	ember 31, 2011	December 31, 2010	December 31, 2009
Net sales		\$586,600	\$463,100	\$368,900
Cost of sales		268,900	225,500	201,500
Gross profit	and the second	317,700	237,600	167,400
Operating expenses				
Selling, general, and administrative expenses		117,800	104,700	90,200
Depreciation		13,500	5,900	5,100
Operating income		186,400	127,000	72,100
Other income				
Interest income		1,900	800	1,100
Interest expense		(15,000)	(6,900)	(6,400)
Other income (expense), net		10,900	(1,300)	1,200
Income before income taxes		184,200	119,600	68,000
Income tax expense		53,200	36,600	18,000
Net income		131,000	83,000	50,000
Earnings per share		1.31	0.83	0.50





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#### New Venture Fitness Drinks – Balance sheet

TABLE 8.2 CONSOLIDATED BALANCE SHEETS FOR NEW VENTURE FITNESS DRINKS, INC.

Cash and cash         \$63,800         \$54,600         \$56,500           Accounts receivable, less allowance for doubtful accounts         39,600         48,900         50,200           Inventories         19,200         20,400         21,400           Total current assets         19,200         123,900         128,100           Property, plant, and equipment         260,000         160,000         160,000           Buildings and equipment         412,000         261,500         149,000           Total property, plant, and equipment         672,000         421,500         309,000           Less: accumulated depreciation         65,000         51,500         45,600           Net property, plant, and equipment         607,000         370,000         263,400           Total assets         729,600         433,900         391,500           Liabilities and shareholders' equity         249,600         50,400         46,900           Accounts payable         30,200         46,900         54,500           Long-term liabilities         40,100         54,900         54,500           Long-term liabilities         249,500         130,000         111,000           Long-term debt         249,500         130,000         111,000	Assets	December 31, 2011	December 31, 2010	December 31, 2009
Accounts receivable, less allowance for doubtful accounts         39,600         48,900         50,200           Inventories         19,200         20,400         21,400           Total current assets         122,600         123,900         128,100           Property, plant, and equipment         260,000         160,000         160,000           Buildings and equipment         412,000         261,500         149,000           Total property, plant, and equipment         672,000         421,500         309,000           Less: accumulated depreciation         65,000         51,500         45,600           Net property, plant, and equipment         607,000         370,000         263,400           Total assets         729,600         493,900         391,500           Liabilities and shareholders' equity         30,200         46,900         50,400           Accrued expenses         9,900         8,000         4,100           Total current liabilities         40,100         54,900         50,400           Accrued expenses         9,900         8,000         4,100           Long-term liabilities         249,500         130,000         111,000           Long-term liabilities         289,600         184,900         165,500	Current assets			
Inventories         19,200         20,400         21,400           Total current assets         122,600         123,900         128,100           Property, plant, and equipment         260,000         160,000         160,000           Buildings and equipment         412,000         261,500         149,000           Total property, plant, and equipment         672,000         421,500         309,000           Less: accumulated depreciation         65,000         51,500         45,600           Net property, plant, and equipment         607,000         370,000         263,400           Total assets         729,600         493,900         391,500           Liabilities and shareholders' equity         729,600         46,900         50,400           Accounts payable         30,200         46,900         50,400           Accured expenses         9,900         8,000         4,100           Long-term liabilities         40,100         54,900         54,500           Long-term liabilities         249,500         130,000         111,000           Long-term liabilities         249,500         130,000         111,000           Long-term liabilities         249,500         130,000         111,000           Common stock (1	Cash and cash equivalents	\$63,800	\$54,600	\$56,500
Total current assets         12,800         20,400         21,400           Total current assets         122,600         123,900         128,100           Property, plant, and equipment         260,000         160,000         160,000           Buildings and equipment         412,000         261,500         149,000           Total property, plant, and equipment         672,000         421,500         309,000           Less: accumulated depreciation         65,000         51,500         45,600           Net property, plant, and equipment         607,000         370,000         263,400           Total assets         729,600         493,900         391,500           Liabilities and shareholders' equity         30,200         46,900         50,400           Accounts payable         30,200         46,900         50,400           Accrued expenses         9,900         8,000         4,100           Total current liabilities         40,100         54,900         54,500           Long-term liabilities         249,500         130,000         111,000           Long-term liabilities         249,500         130,000         111,000           Long-term liabilities         249,500         130,000         111,000           Lon	Accounts receivable, less allowance for doubtful accounts	39,600	48,900	50,200
Property, plant, and equipment         123,000         123,000         123,000         123,000         123,000         123,000         123,000         123,000         123,000         123,000         123,000         123,000         123,000         123,000         123,000         123,000         123,000         123,000         123,000         160,000	Inventories	19,200	20,400	21,400
Land         260,000         160,000         160,000           Buildings and equipment         412,000         261,500         149,000           Total property, plant, and equipment         672,000         421,500         309,000           Less: accumulated depreciation         65,000         51,500         45,600           Net property, plant, and equipment         607,000         370,000         263,400           Total assets         729,600         493,900         391,500           Liabilities and shareholders' equity         200         46,900         50,400           Accounts payable         30,200         46,900         50,400           Accrued expenses         9,900         8,000         4,100           Total current liabilities         40,100         54,900         54,500           Long-term liabilities         249,500         130,000         111,000           Long-term liabilities         289,600         184,900         165,500           Shareholders' equity         10,000         10,000         10,000           Total liabilities         289,600         184,900         165,500           Shareholders' equity         10,000         10,000         10,000           Total liabilities         289,	Total current assets	122,600	123,900	128,100
200,000         100,000         100,000           Buildings and equipment         412,000         261,500         149,000           Total property, plant, and equipment         672,000         421,500         309,000           Less: accumulated depreciation         65,000         51,500         45,600           Net property, plant, and equipment         607,000         370,000         263,400           Total assets         729,600         493,900         391,500           Liabilities and shareholders' equity         200         46,900         50,400           Accounts payable         30,200         46,900         50,400           Accrued expenses         9,900         8,000         4,100           Total current liabilities         40,100         54,900         54,500           Long-term debt         249,500         130,000         111,000           Long-term liabilities         289,600         184,900         165,500           Shareholders' equity         10,000         10,000         10,000           Total liabilities         289,600         184,900         165,500           Common stock (100,000 shares)         10,000         10,000         216,000           Retained earnings         430,000 <t< td=""><td>Property, plant, and equipment</td><td></td><td></td><td></td></t<>	Property, plant, and equipment			
Buildings and equipment         412,000         261,500         149,000           Total property, plant, and equipment         672,000         421,500         309,000           Less: accumulated depreciation         65,000         51,500         45,600           Net property, plant, and equipment         607,000         370,000         263,400           Total assets         729,600         493,900         391,500           Liabilities and shareholders' equity         200         46,900         50,400           Current liabilities         9,900         8,000         4,100           Accounts payable         30,200         46,900         50,400           Accrued expenses         9,900         8,000         4,100           Total current liabilities         40,100         54,900         54,500           Long-term liabilities         249,500         130,000         111,000           Long-term liabilities         289,600         184,900         165,500           Shareholders' equity         10,000         10,000         10,000           Total liabilities         289,600         184,900         165,500           Shareholders' equity         430,000         299,000         216,000           Common stock (100,000 share	Land	260,000	160,000	160,000
Total property, plant, and equipment         672,000         421,500         309,000           Less: accumulated depreciation         65,000         51,500         45,600           Net property, plant, and equipment         607,000         370,000         263,400           Total assets         729,600         493,900         391,500           Liabilities and shareholders' equity         200         46,900         50,400           Accounts payable         30,200         46,900         50,400           Accrued expenses         9,900         8,000         4,100           Total current liabilities         40,100         54,900         54,500           Long-term liabilities         249,500         130,000         111,000           Long-term liabilities         249,500         130,000         111,000           Long-term liabilities         289,600         184,900         165,500           Shareholders' equity         10,000         10,000         10,000           Stareholders' equity         430,000         299,000         216,000	Buildings and equipment	412,000	261,500	
Less: accumulated depreciation         65,000         51,500         45,600           Net property, plant, and equipment         607,000         370,000         263,400           Total assets         729,600         493,900         391,500           Liabilities and shareholders' equity Current liabilities         30,200         46,900         50,400           Accounts payable         30,200         46,900         50,400           Accounts payable         30,200         46,900         54,500           Accounts payable         40,100         54,900         54,500           Long-term liabilities         249,500         130,000         111,000           Long-term liabilities         249,500         130,000         111,000           Long-term liabilities         289,600         184,900         165,500           Shareholders' equity         10,000         10,000         10,000           Common stock (100,000 shares)         10,000         10,000         216,000           Retained earnings         430,000         299,000         226,000	Total property, plant, and equipment	672,000	421,500	
Net property, plant, and equipment         607,000         370,000         263,400           Total assets         729,600         493,900         391,500           Liabilities and shareholders' equity Current liabilities         30,200         46,900         50,400           Accounts payable         40,100         54,900         4,100           Total current liabilities         40,100         54,900         54,500           Long-term liabilities         249,500         130,000         111,000           Long-term liabilities         249,500         130,000         111,000           Long-term liabilities         249,500         130,000         111,000           Long-term liabilities         289,600         184,900         165,500           Shareholders' equity         10,000         10,000         10,000           Retained earnings         430,000         299,000         216,000           Total liabilities and chareholders' equity         440,000         309,000         226,000	Less: accumulated depreciation	65,000	51,500	
Total assets         729,600         493,900         391,500           Liabilities and shareholders' equity Current liabilities         30,200         46,900         50,400           Accounts payable         30,200         46,900         50,400         4,100           Accrued expenses         9,900         8,000         4,100         54,500         54,500         54,500         54,500         54,500         54,500         54,500         111,000         111,000         111,000         111,000         111,000         111,000         111,000         111,000         10,000         10,000         10,000         10,000         10,000         10,000         10,000         10,000         10,000         226,000 <th< td=""><td>Net property, plant, and equipment</td><td>607,000</td><td>370,000</td><td></td></th<>	Net property, plant, and equipment	607,000	370,000	
Liabilities and shareholders' equity Current liabilities         30,200         46,900         50,400           Accounts payable         30,200         46,900         50,400           Accrued expenses         9,900         8,000         4,100           Total current liabilities         40,100         54,900         54,500           Long-term liabilities         249,500         130,000         111,000           Long-term liabilities         249,500         130,000         111,000           Long-term liabilities         249,500         130,000         111,000           Long-term liabilities         289,600         184,900         165,500           Shareholders' equity         10,000         10,000         10,000           Retained earnings         430,000         299,000         216,000           Total shareholders' equity         440,000         309,000         226,000	Total assets	729,600	493,900	· · · · ·
Accrued expenses         9,900         8,000         4,100           Total current liabilities         40,100         54,900         54,500           Long-term liabilities         249,500         130,000         111,000           Long-term liabilities         249,500         130,000         111,000           Long-term liabilities         249,500         130,000         111,000           Long-term liabilities         289,600         184,900         165,500           Shareholders' equity         10,000         10,000         10,000           Retained earnings         430,000         299,000         216,000           Total shareholders' equity         440,000         309,000         226,000	Liabilities and shareholders' equity Current liabilities			
Total current liabilities         40,100         54,900         54,500           Long-term liabilities         249,500         130,000         111,000           Long-term liabilities         289,600         184,900         165,500           Shareholders' equity         10,000         10,000         10,000           Retained earnings         430,000         299,000         216,000           Total shareholders' equity         440,000         309,000         226,000	Accounts payable	30,200	46,900	50,400
Long-term liabilities       249,500       130,000       111,000         Long-term liabilities       249,500       130,000       111,000         Long-term liabilities       249,500       130,000       111,000         Total liabilities       289,600       184,900       165,500         Shareholders' equity       10,000       10,000       10,000         Retained earnings       430,000       299,000       216,000         Total shareholders' equity       440,000       309,000       226,000	Accrued expenses	9,900	8,000	4,100
Long-term liabilities         249,500         130,000         111,000           Long-term liabilities         249,500         130,000         111,000           Long-term liabilities         249,500         130,000         111,000           Fotal liabilities         289,600         184,900         165,500           Shareholders' equity         10,000         10,000         10,000           Common stock (100,000 shares)         10,000         10,000         216,000           Retained earnings         430,000         309,000         226,000	Total current liabilities	40,100	54,900	
Long-term liabilities       249,500       130,000       111,000         Total liabilities       289,600       184,900       165,500         Shareholders' equity       10,000       10,000       10,000         Common stock (100,000 shares)       10,000       10,000       299,000       216,000         Retained earnings       430,000       309,000       226,000	Long-term liabilities			
Long-term liabilities         249,500         130,000         111,000           Total liabilities         289,600         184,900         165,500           Shareholders' equity         10,000         10,000         10,000           Common stock (100,000 shares)         10,000         10,000         299,000         216,000           Retained earnings         430,000         309,000         226,000	Long-term debt	249,500	130,000	111.000
Total liabilities         289,600         184,900         165,500           Shareholders' equity         10,000         10,000         10,000         10,000           Common stock (100,000 shares)         10,000         10,000         299,000         216,000           Retained earnings         430,000         309,000         226,000	Long-term liabilities	249,500	130,000	
Shareholders' equity         10,000         10,000         10,000           Common stock (100,000 shares)         10,000         10,000         200,000         216,000           Retained earnings         430,000         299,000         216,000         226,000           Total shareholders' equity         440,000         309,000         226,000	Total liabilities	289,600	184,900	
Retained earnings         430,000         299,000         216,000           Fotal shareholders' equity         440,000         309,000         226,000	Shareholders' equity			
Retained earnings         430,000         299,000         216,000           Fotal shareholders' equity         440,000         309,000         226,000	Common stock (100,000 shares)	10,000	10,000	10.000
Fotal shareholders' equity     440,000     309,000     226,000       Fotal lightlities and shareholders' equity     700,000     309,000     226,000	Retained earnings	430,000		
	Total shareholders' equity	440,000		(C
	Total liabilities and shareholders' equity	729,600	493,900	391,500



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#### New Venture Fitness Drinks –Statement of Cash Flows

FITNESS DRINKS, INC.		
	December 31, 2011	December 31, 2010
Cash flows from operating activities		
Net income	\$131,000	\$83,000
Additions (sources of cash)		
Depreciation	13,500	5,900
Decreases in accounts receivable	9,300	1,300
Increase in accrued expenses	1,900	3,900
Decrease in inventory	1,200	1,000
Subtractions (uses of cash)		
Decrease in accounts payable	(16,700)	(3,500)
Total adjustments	9,200	8,600
Net cash provided by operating activities	140,200	91,600
Cash flows from investing activities		
Purchase of building and equipment	(250,500)	(112,500)
Net cash flows provided by investing activities	(250,500)	(112,500)
Cash flows from financing activities		
Proceeds from increase in long-term debt	119,500	19,000
Net cash flows provided by financing activities		19,000
Increase in cash	9,200	(1,900)
Cash and cash equivalents at the beginning of year	54,600	56,500
Cash and cash equivalents at the end of each year	63,800	54,600

**TABLE 8.3** CONSOLIDATED STATEMENT OF CASH FLOWS FOR NEW VENTURE

 FITNESS DRINKS, INC.



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#### **Summary of Ratios**

Ratio	Formula	2011	2010	2009
Profitability ratios: as resources used to ge	sociate the amount of income earned with the nerate it			
Return on assets	ROA = net income/average total assets <sup>a</sup>	21.4%	18.7%	14.7%
Return on equity	ROE = net income/average shareholders' equity <sup>b</sup>	35.0%	31.0%	24.9%
Profit margin	Profit margin = net income/net sales	22.3%	17.9%	13.6%
	sure the extent to which a company can quickly over short-term liabilities			
Current	Current assets/current liabilities	3.06	2.26	2.35
Quick	Quick assets/current liabilities	2.58	1.89	1.96
Overall financial stab	ility ratio: measures the overall financial stability of a firm			
Debt	Total debt/total assets	39.7%	37.4%	42.3%
Debt to equity	Total liabilities/owners' equity	65.8%	59.8%	73.2%



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