VALUATION: Transforming Information into a Model Format
Source materials: Textbook, instructor materials - esp. notes on ROIC and FCFF models.

1) Select a publicly traded manufacturing company of your own choice and use the ROIC / FCFF approach to:

Calculate normalized earnings or cash flow as if these numbers are achieved instantaneously (i.e., realized at this very moment in time);

ROIC $=4 \%<--=\left(\$ B \$ 15^{*}(1-\$ B \$ 19)\right) / \$ B \$ 4<--=$ EBIT (1- tax rate) / Total Assets
FCFE = \$769.19 (in millions) <-- = Net Income - (Cap Ex. - Depreciation) * (1 - Debt Ratio)
2) List the factors or assumptions associated with the normalized earnings or cash flow;

While there is a more comprehensive line item by line item breakdown in the ="ROIC Approach'! worksheet, below is the write up of assumptions associated with the normalized earnings or cash flow:

John Deere (DE) reported a per share of $\$ 4.81$ in 2016, the lowest amount in the last 5 years. The company had assets with a book value of $\$ 57.9$ billion, and spent $\$ 2.9$ billion on capital expenditures in 2016, with a depreciation of $\$ 1.5$ billion. The firm had $\$ 36.2$ billion in debt outstanding, on which it paid interest expenses of $\$ 763.7$ million, the debt ratio being $47 \%$. The stock has a beta of 0.77 , and a tax rate of $31 \%$.
3) Using the normalized earnings or cash flow as a mid-range number, estimate what you believe are high-end (optimistic) and low-end (pessimistic) earnings or cash flow numbers, and estimate the likelihood or probability of those outcomes in relation to the normalized results.

Using the normalized cash flow of $\$ 769.19$ as a mid-range number, I take into account the $5 \%$ growth rate in free cash flow for year 2015, and thus use it to project optimistically into the future; earnings of $\$ 807.65$ are thereby realized. Similarly, taking into account the $-11 \%$ decrease in cash flow for the last fiscal year of 2016, a pessimistic cash flow of $\$ 684.58$ is produced. Further refining this procedure, a standard deviation of sample size $s$ (where $s=5$ ) is produced. On the pessimistic side, the standard deviation of this sample size yields a value of 65.54, which yields a mean of $\$ 617.58$ and a normal distribution of $.14 \%$. On the optimistic side, the probability based on the normal distribution is $.28 \%$. There is a higher likelihood of short-term growth on the optimistic side, but it is ultimately offset by the net pessimistic reality that free cash flow has been on a steady decline.
4) Based on the probability associated with these 3 scenarios, what is the expected value of earnings and/or cash flow?

|  | 2016 |  | 2017 |  | 2018 |  | 2019 |  | 2020 |  | Average |  | Standard Deviation | Normal Distribution |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $t=1$ |  | t=2 |  | $\mathrm{t}=3$ |  | t=4 |  | $\mathrm{t}=5$ |  |  |  |  |  |  |
| Optimistic (short term (2015) FCF growth 5\%) | \$ | 769.19 | \$ | 807.65 | \$ | 848.03 | \$ | 890.43 | \$ | 934.96 | \$ | 850.05 | 65.5361529 |  | 0.28\% |
|  |  |  |  |  |  |  |  |  |  |  |  | 769.19 |  |  |  |
| Pessimistic (low end - 2016) @ -11\%) | \$ | 769.19 | \$ | 684.58 | \$ | 609.28 | \$ | 542.26 | \$ | 482.61 | \$ | 617.58 | 113.396403 |  | 0.14\% |

5) Use of normalized financial results implies a reliance on historical data to predict future outcomes. Under what circumstances would you contemplate departing from historic averages and making your own estimates on the factors that influence valuation of future outcomes? Explain your reasoning.

First and foremost, SEC rule 156 (using mutual funds as an example) requires the statement that "past performance is not indicative of future results." Similarly, in this fashion, I would shy away from heavily relying on historical data. However, if I were to rely on historical data, I would then use a broader range (going back at least 10 years and maybe more) in order to get a better trend. I would use actual free cash flow numbers from the cash flow statement (not taking depreciation and capital expenditures into account, in a similar fashion to what is provided in the Wall Street Journal). I would then take the last 5 years and run a linear regression to get an $R^{\wedge} 2$ value. If the $R^{\wedge} 2$ is closer to 1 , I would use this data as a good estimate of the general trend.

Yet, departing from historical data may be necessary to get a better "feel" for the market dynamics, as there are many factors involved in influencing pricing, revenues, and expenses. For instance, a large variability in capital expenditures will offset any predictions based on historical data. In addition, if the free cash flows do not align with profitability within a reasonable forecast period with which I am comfortable with, I would depart from heavily relying on historical data.

In conclusion, there are a number of different ways to derive free cash flow on a historical basis (whether one is looking at FCFE (free cash flow to equity) or FCFF (free cash flow to the firm)). Taking historical free cash flow to forecast future results is done under the assumption that the growth rate is constant and aligned with the historical relationships with free cash flow. As such, making this ceteris paribus assumption for a cyclical firm can reduce the value of the forecasting excercise.

The learning goals from this assignment are:
Further refinement in Valuation and utilization of Accounting data while observing "rules of thumb / normalization."



## FCFF Approach

## 2016

## (In millions of dollars except per share amounts)

| Revenues | \$ | 26,644.00 | <- | ='Cons. Inc Smt, Blnce Sheet., CF'!B9 |
| :---: | :---: | :---: | :---: | :---: |
| Net Income | \$ | 1,521.50 | < | ='Cons. Inc Smt, Blnce Sheet., CF'!B33 |
| EBIT | \$ | 2,987.70 | <- | ='Cons. Inc Smt, Blnce Sheet., CF'!B22 |
| Debt Outstanding | \$ | 36,261.90 | <- | ='Cons. Inc Smt, Blnce Sheet., CF'!B180 |
| Shares outstanding | \$ | 316.60 | <- | ='Cons. Inc Smt, Blnce Sheet., CF'!B44 |
| Per Share | \$ | 4.81 | <- | ='Cons. Inc Smt, Blnce Sheet., CF'!B39 |
| Beta |  | 0.77 | So | urce: Yahoo Finance |
| Tax Rate |  | 31\% |  | ='Cons. Inc Smt, Blnce Sheet., CF'!B28 |
| Treasury Bond Rate |  | 2.39\% | <- | ='US Treasury Bond Rate'!J453*0.01 |


|  |  | Equity |  | Debt |  | Total |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Market Value Weight | \$ | 1,522.85 |  | 36,261.90 | \$ | 37,784.75 |  |  |  |  |  |  |
| Market Value Weight (as \%) |  | 4.03\% |  | 95.97\% |  | 100.00\% |  |  |  |  |  |  |
| Cost of component (as \%) |  | 7.01\% |  | 2.11\% |  | 9.12\% |  |  |  |  |  |  |
| Cost of Capital |  | 2.30\% |  | =(B18*B1 | )+ | (C18*C17) |  |  |  |  |  |  |
| Year |  | 2012 |  | 2013 |  | 2014 |  | 2015 |  | 2016 |  | 2017 |
|  |  | t=1 |  | t=2 |  | t=3 |  | t=4 |  | t=5 |  | t=6 |
| EBIT | \$ | 5,517.20 |  | 6,224.70 | \$ | 5,461.40 | \$ | 3,460.10 | \$ | 2,987.70 |  |  |
| EBIT (1-t) | \$ | 3,815.21 | \$ | 4,304.45 | \$ | 3,776.62 | \$ | 2,392.70 | \$ | 2,066.03 |  |  |
| Capital Expenditures | \$ | $(2,121.00)$ |  | $(2,375.30)$ | \$ | $(2,659.30)$ | \$ | $(2,826.10)$ | \$ | $(2,955.10)$ |  |  |
| Depreciation | \$ | 894.20 |  | 1,026.30 | \$ | 1,189.50 | \$ | 1,269.40 | \$ | 1,544.80 |  |  |
| Change in Working Capital | \$ | $(2,697.50)$ |  | $(1,463.30)$ | \$ | (885.60) | \$ | 280.10 | \$ | 152.20 |  |  |
| FCFF | \$ | (109.09) | \$ | 1,492.15 | \$ | 1,421.22 | \$ | 555.90 | \$ | 503.53 |  |  |
| Expected Earnings Growth Rate |  |  |  | -1467.80\% |  | -4.75\% |  | -60.89\% |  | -9.42\% |  |  |
| Pessimistic |  |  |  |  |  |  |  |  |  | -9.42\% |  |  |
| Optimistic |  |  |  |  |  | -4.75\% |  |  |  |  |  |  |
| Present Value | \$ | 3,729.43 | \$ | 4,113.08 | \$ | 3,527.58 | \$ | 2,184.67 | \$ | 1,843.99 | \$ | 15,398.74 |
| Terminal Value $=2066.03 / \mathbf{( 0 . 0 2 3 0}-(-0.04)$ ) |  |  |  |  |  |  |  |  |  |  | \$ | 32,794.13 |
| Value of Equity (based on debt outstanding) |  |  |  |  |  |  |  |  |  |  |  | $(20,863.16)$ |
| Value of Equity Per Share |  |  |  |  |  |  |  |  |  |  | \$ | (65.90) |

## Statement of Consolidated Income

## For the Years Ended October 31, 2016, 2015 and 2014

(In millions of dollars)

|  |  | 2016 |  | 2015 |  | 2014 |  | 2013 |  | 2012 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net Sales and Revenues |  |  |  |  |  |  |  |  |  |  |
| Net sales | \$ | 23,387.3 | \$ | 25,775.2 | \$ | 32,960.6 | \$ | 34,997.9 | \$ | 33,500.9 |
| Finance and interest income | \$ | 2,511.2 | \$ | 2,381.1 | \$ | 2,282.1 | \$ | 2,115.1 | \$ | 1,981.3 |
| Other income | \$ | 745.5 | \$ | 706.5 | \$ | 824.2 | \$ | 682.4 | \$ | 674.9 |
| Total | \$ | 26,644.0 | \$ | 28,862.8 | \$ | 36,066.9 | \$ | 37,795.4 | \$ | 36,157.1 |
| Revenue Growth Rate (\%)(2012-2016) |  | -8\% |  | -20\% |  | -5\% |  | 5\% |  | - |
| Revenue Growth (\%) 2009-2016 |  | -8\% |  | -20\% |  | -5\% |  | 5\% |  | - |
| Total Revenue Growth (\%) 2009-2016 |  | 8\% |  |  |  |  |  |  |  |  |

## Costs and Expenses

| Cost of sales | \$ | 18,248.9 | \$ | 20,143.2 | \$ | 24,775.8 | \$ | 25,667.3 | \$ | 25,007.8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Research and development expenses | \$ | 1,389.1 | \$ | 1,425.1 | \$ | 1,452.0 | \$ | 1,477.3 | \$ | 1,433.6 |
| Selling, administrative and general expenses | \$ | 2,763.7 | \$ | 2,873.3 | \$ | 3,284.4 | \$ | 3,605.5 | \$ | 3,417.0 |
| Interest expense | \$ | 763.7 | \$ | 680.0 | \$ | 664.0 | \$ | 741.3 | \$ | 782.8 |
| Other operating expenses | \$ | 1,254.6 | \$ | 961.1 | \$ | 1,093.3 | \$ | 820.6 | \$ | 781.5 |
| Total | \$ | 24,420.0 | \$ | 26,082.7 | \$ | 31,269.5 | \$ | 32,312.0 | \$ | 31,422.7 |
| Earnings Before Interest and Taxes (EBIT) | \$ | 2,987.7 | \$ | 3,460.1 | \$ | 5,461.4 | \$ | 6,224.7 | \$ | 5,517.2 |
| Income of Consolidated Group before Income Taxes | \$ | 2,224.0 | \$ | 2,780.1 | \$ | 4,797.4 | \$ | 5,483.4 | \$ | 4,734.4 |
| Provision for income taxes | \$ | 700.1 | \$ | 840.1 | \$ | 1,626.5 | \$ | 1,945.9 | \$ | 1,659.4 |
| Tax Rate |  | 31.48\% |  | 30.22\% |  | 33.90\% |  | 35.49\% |  | 35.05\% |
| Average Tax Rate (last 2 years) |  | 30.85\% |  |  |  |  |  |  |  |  |
| Income of Consolidated Group | \$ | 1,523.9 | \$ | 1,940.0 | \$ | 3,170.9 | \$ | 3,537.5 | \$ | 3,075.0 |
| Equity in income (loss) of unconsolidated affiliates | \$ | (2.4) | \$ | 0.9 | \$ | (7.6) | \$ | 0.1 | \$ | (3.4) |


| Net Income | \$ | 1,521.5 | \$ | 1,940.9 | \$ | 3,163.3 | \$ | 3,537.6 | \$ | 3,071.6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Less: Net income (loss) attributable to noncontrolling interests | \$ | (2.4) | \$ | 0.9 | \$ | 1.6 | \$ | 0.3 | \$ | 6.9 |
| Net Income Atrributable to Deere \& Company | \$ | 1,523.9 | \$ | 1,940.0 | \$ | 3,161.7 | \$ | 3,537.3 | \$ | 3,064.7 |
| Per Share Data (EPS) |  |  |  |  |  |  |  |  |  |  |
| Basic | \$ | 4.83 | \$ | 5.81 | \$ | 8.71 | \$ | 9.18 | \$ | 7.72 |
| Diluted | \$ | 4.81 | \$ | 5.77 | \$ | 8.63 | \$ | 9.09 | \$ | 7.63 |
| Dividends declared | \$ | 2.40 | \$ | 2.40 | \$ | 2.22 | \$ | 1.99 | \$ | 1.79 |

## Average Shares Outstanding

| Basic | $\$$ | 315.2 | $\$$ | 333.6 | $\$$ | 363.0 | $\$$ | 385.3 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Diluted | $\$$ | 397.1 |  |  |  |  |  |  |
|  | 316.6 | $\$$ | 336.0 | $\$$ | 366.1 | $\$$ | 389.2 | $\$$ |

Statement of Consolidated Comprehensive Income
For the Years Ended October 31, 2016, 2015, and 2014

## Net Income <br> Other Comprehensive Income (Loss), Net of Income Taxes

Retirement benefits adjustment
Cumulative translation adjustment
Unrealized gain (loss) on derivatives
Unrealized gain (loss) on investments

## Other Comprehensive Income (Loss), Net of Income Taxes

## Comprehensive Income of Consolidated Group

Less: Comprehensive income (loss) attributable to noncontrolling interests
Comprehensive Income Attributable to Deere \& Company

| 2016 |  | 2015 |  | 2014 |  | 2013 |  | 2012 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \$ | 1,521.5 | \$ | 1,940.9 | \$ | 3,163.3 | \$ | 3,537.6 | \$ | 3,071.6 |
| \$ | (907.6) | \$ | (7.7) | \$ | (684.4) | \$ | 1,950.0 | \$ | (623.6) |
| \$ | 9.0 | \$ | (935.1) | \$ | (415.5) | \$ | (70.9) | \$ | (270.0) |
| \$ | 2.9 | \$ | (2.5) | \$ | 2.8 | \$ | 10.7 | \$ | (5.1) |
| \$ | (0.9) | \$ | (1.5) | \$ | 6.9 | \$ | (11.3) | \$ | 4.9 |
| \$ | (896.6) | \$ | (946.8) | \$ | (1,090.2) | \$ | 1,878.5 | \$ | (893.8) |

## Consolidated Balance Sheet

## As of October 31, 2016 and 2015

(In millions of dollars except per share amounts)

## Assets

Cash and cash equivalents
Marketable securities
Receivables from unconsolidated affiliates
Trade accounts and notes receivable - net
Financing receivables - net
Financing receivables securitized - net
Other receivables
Equipment on operating leases - net
Inventories
Property and equipment - net
Investments in unconsolidated affiliates

| $\$$ | 624.9 | $\$$ | 994.1 | $\$$ | $2,073.1$ | $\$$ | $5,416.1$ | $\$$ | $2,177.8$ |
| :--- | ---: | :--- | ---: | :--- | ---: | :--- | ---: | ---: | ---: |
| $\$$ | $(2.4)$ | $\$$ | 0.5 | $\$$ | 1.3 | $\$$ | 0.4 | $\$$ | 6.6 |
| $\$$ | 627.3 | $\mathbf{\$}$ | 993.6 | $\mathbf{\$}$ | $\mathbf{2 , 0 7 1 . 8}$ | $\mathbf{\$}$ | $\mathbf{5 , 4 1 5 . 7}$ | $\mathbf{\$}$ | $\mathbf{2 , 1 7 1 . 2}$ |


| $\mathbf{2 0 1 6}$ |  | $\mathbf{2 0 1 5}$ |  | $\mathbf{2 0 1 4}$ |  | $\mathbf{2 0 1 3}$ |  |  | $\mathbf{2 0 1 2}$ |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\$$ | $4,335.8$ | $\$$ | $4,162.2$ | $\$$ | $3,787.0$ | $\$$ | $3,504.0$ | $\$$ | $4,652.2$ |
| $\$$ | 453.5 | $\$$ | 437.4 | $\$$ | $1,215.1$ | $\$$ | $1,624.8$ | $\$$ | $1,470.4$ |
| $\$$ | 16.5 | $\$$ | 33.3 | $\$$ | 30.2 | $\$$ | 31.2 | $\$$ | 59.7 |
| $\$$ | $3,011.3$ | $\$$ | $3,051.1$ | $\$$ | $3,277.6$ | $\$$ | $3,758.2$ | $\$$ | $3,799.1$ |
| $\$$ | $23,702.3$ | $\$$ | $24,809.0$ | $\$$ | $27,422.2$ | $\$$ | $25,632.7$ | $\$$ | $22,159.1$ |
| $\$$ | $5,126.5$ | $\$$ | $4,834.6$ | $\$$ | $4,602.3$ | $\$$ | $4,153.1$ | $\$$ | $3,617.6$ |
| $\$$ | $1,018.5$ | $\$$ | 991.2 | $\$$ | $1,500.3$ | $\$$ | $1,464.0$ | $\$$ | $1,790.9$ |
| $\$$ | $5,901.5$ | $\$$ | $4,970.4$ | $\$$ | $4,015.5$ | $\$$ | $3,152.2$ | $\$$ | $2,527.8$ |
| $\$$ | $3,340.5$ | $\$$ | $3,817.0$ | $\$$ | $4,209.7$ | $\$$ | $4,934.7$ | $\$$ | $5,170.0$ |
| $\$$ | $5,170.6$ | $\$$ | $5,181.5$ | $\$$ | $5,577.8$ | $\$$ | $5,466.9$ | $\$$ | $5,011.9$ |
| $\$$ | 232.6 | $\$$ | 303.5 | $\$$ | 303.2 | $\$$ | 221.4 | $\$$ | 215.0 |
| $\$$ | 815.7 | $\$$ | 726.0 | $\$$ | 791.2 | $\$$ | 844.8 | $\$$ | 921.2 |
| $\$$ | 104.1 | $\$$ | 63.6 | $\$$ | 68.8 | $\$$ | 77.1 | $\$$ | 105.0 |


| Retirement benefits | \$ | 93.6 | \$ | 215.6 | \$ | 262.0 | \$ | 551.1 | \$ | 20.2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Deferred income taxes | \$ | 2,964.4 | \$ | 2,767.3 | \$ | 2,776.6 | \$ | 2,325.4 | \$ | 3,280.4 |
| Other assets | \$ | 1,694.0 | \$ | 1,583.9 |  | 1496.9 | \$ | 1,274.7 | \$ | 1,465.3 |
| Assets held for sale | \$ | - | \$ | - | \$ | - | \$ | 505.0 |  |  |
| Total Assets | \$ | 57,981.4 | \$ | 57,947.6 | \$ | 61,336.4 | \$ | 59,521.3 | \$ | 56,265.8 |

## Liabilities and Stockholders' Equity

## Liabilities

Short-term borrowings
Short-term securitization borrowings
Accounts payable and accrued expenses
Deferred income taxes
Long-term borrowings
Retirement benefits and other liabilities
Liabilities held for sale
Total liabilities

| $\$$ | $6,912.2$ | $\$$ | $8,426.6$ | $\$$ | $8,019.2$ | $\$$ | $8,788.9$ | $\$$ | $6,392.5$ |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\$$ | $5,002.5$ | $\$$ | $4,590.0$ | $\$$ | $4,558.5$ | $\$$ | $4,109.1$ | $\$$ | $3,574.8$ |
| $\$$ | 81.6 | $\$$ | 80.6 | $\$$ | 101.0 | $\$$ | 106.9 | $\$$ | 135.2 |
| $\$$ | $7,240.1$ | $\$$ | $7,311.5$ | $\$$ | $8,554.1$ | $\$$ | $8,973.6$ | $\$$ | $8,988.9$ |
| $\$$ | 166.0 | $\$$ | 160.8 | $\$$ | 160.9 | $\$$ | 160.3 | $\$$ | 164.4 |
| $\$$ | $23,759.7$ | $\$$ | $23,832.8$ | $\$$ | $24,380.7$ | $\$$ | $21,577.7$ | $\$$ | $22,453.1$ |
| $\$$ | $8,274.5$ | $\$$ | $6,787.7$ | $\$$ | $6,496.5$ | $\$$ | $5,416.7$ | $\$$ | $7,694.9$ |
| $\$$ | - | $\$$ | - | $\$$ | - | $\$$ | 120.4 |  |  |
| $\mathbf{5 1 , 4 3 6 . 6}$ | $\mathbf{\$ 1 , 1 9 0 . 0}$ | $\mathbf{\$ 1}$ | $\mathbf{5 2 , 2 7 0 . 9}$ | $\mathbf{\$}$ | $\mathbf{4 9 , 2 5 3 . 6}$ | $\mathbf{\$}$ | $\mathbf{4 9 , 4 0 3 . 8}$ |  |  |

Commitments and contingencies (Note 22)
Redeemable noncontroli

## Stockholders' Equity

Common stock, $\$ 1$ par value (authorized - 1,200,000,000 shares;
issued - 536,431,204 shares in 2013 and 2012), at paid-in amount. $\quad \$ \quad-\quad \$ \quad-\quad \$ 3,675.4$ \$ $3,524.2 \$ 3,352.2$
Common stock, $\$ 1$ par value (authorized -1,200,000,000 shares;
issued - 536,431,204 shares in 2016 and 2015), at paid-in amount
\$ 3,911.8 \$ 3,825.6

Common stock in treasury, 162,628,440 shares in 2013 and 148,625,875 shares in 2012, at cost

Common stock in treasury, 190,926,805 shares in 2014 and 162,628,440 shares in 2013, at cost
$\$ \quad-\quad \$(12,834.2)$
\$ $(15,677.1)$ \$ $(15,497.6)$ -
\$ 23,911.3 \$ 23,144.8 \$ 22,004.4 \$ 19,645.6 \$ 16,875.2

| $\$$ | $(5,626.0)$ | $\$$ | $(4,729.4)$ | $\$$ | $(3,783.0)$ | $\$$ | $(2,693.1)$ | $\$$ | $(4,571.5)$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\$$ | $6,520.0$ | $\$$ | $6,743.4$ | $\$$ | $9,062.6$ | $\$$ | $10,265.8$ | $\$$ | $6,842.1$ |


| $\$$ | 10.8 | $\$$ | 14.2 | $\$$ | 2.9 | $\$$ | 1.9 | $\$$ | 19.9 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\$$ | $6,530.8$ | $\$$ | $6,757.6$ | $\$$ | $9,065.5$ | $\$$ | $10,267.7$ | $\$$ | $6,862.0$ |
| $\$$ | $57,981.4$ | $\$$ | $57,947.6$ | $\$$ | $61,336.4$ | $\$$ | $59,521.3$ | $\$$ | $56,265.8$ |

## Statement of Consolidated Cash Flows

For the Years Ended October 31, 2016, 2015 and 2014
(In millions of dollars)

|  | 2016 |  | 2015 |  | 2014 |  | 2013 |  | 2012 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cash Flows from Operating Activities |  |  |  |  |  |  |  |  |  |  |
| Net income | \$ | 1,521.5 | \$ | 1,940.9 | \$ | 3,163.3 | \$ | 3,537.6 | \$ | 3,071.6 |
| Adjustments to reconcile net income to net cash provided by operating activities: |  |  |  |  |  |  |  |  |  |  |
| Provision for credit losses | \$ | 94.3 | \$ | 55.4 | \$ | 38.1 | \$ | 20.5 | \$ | 5.1 |
| Provision for depreciation and amortization | \$ | 1,559.8 | \$ | 1,382.4 | \$ | 1,306.5 | \$ | 1,140.3 | \$ | 1,004.2 |
| Amortization of Intangible Assets | \$ | 15.0 | \$ | 113.0 | \$ | 117.0 | \$ | 114.0 | \$ | 110.0 |
| Depreciation and Depletion | \$ | 1,544.8 | \$ | 1,269.4 | \$ | 1,189.5 | \$ | 1,026.3 | \$ | 894.2 |
| Impairment charges | \$ | 85.1 | \$ | 34.8 | \$ | 95.9 | \$ | 102.0 | \$ | 33.4 |
| Share-based compensation expense | \$ | 70.6 | \$ | 66.1 | \$ | 78.5 | \$ | 80.7 | \$ | 74.5 |
| Undistributed earnings of unconsolidated affiliates | \$ | (1.9) | \$ | (1.0) | \$ | 9.3 | \$ | 9.1 | \$ | 1.8 |
| Provision (credit) for deferred income taxes | \$ | 282.7 | \$ | (18.4) | \$ | (280.1) | \$ | (172.6) | \$ | (91.8) |
| Changes in assets and liabilities: |  |  |  |  |  |  |  |  |  |  |
| Trade, notes and financing receivables related to sales | \$ | 335.2 | \$ | 811.6 | \$ | (749.0) | \$ | $(1,510.2)$ | \$ | $(1,901.6)$ |
| Insurance receivables |  |  | \$ | 333.4 | \$ | (149.9) | \$ | 263.4 | \$ | (338.5) |
| Inventories | \$ | (106.1) | \$ | (691.4) | \$ | (297.9) | \$ | (728.4) | \$ | $(1,510.2)$ |
| Accounts payable and accrued expenses | \$ | (155.2) | \$ | (503.6) | \$ | (137.1) | \$ | 217.1 | \$ | 1,061.8 |
| Accrued income taxes payable/receivable | \$ | 1.6 | \$ | (137.6) | \$ | 342.6 | \$ | 80.4 | \$ | (72.3) |
| Retirement benefits | \$ | 238.6 | \$ | 427.5 | \$ | 336.9 | \$ | 262.0 | \$ | 63.3 |
| Other | \$ | (161.9) | \$ | 40.2 | \$ | (231.2) | \$ | (47.6) | \$ | (233.6) |
| Changes in Working Capital | \$ | 152.2 | \$ | 280.1 | \$ | (885.6) | \$ | $(1,463.3)$ | \$ | $(2,697.5)$ |
| Net cash provided by operating activities | \$ | 3,764.3 | \$ | 3,740.3 | \$ | 3,525.9 | \$ | 3,254.3 | \$ | 1,167.7 |

## Cash Flows from Investing Activities

Collections of receivables (excluding receivables related to sales)
Proceeds from maturities and sales of marketable securities
Proceeds from sales of equipment on operating leases
Proceeds from sales of businesses and unconsolidated affiliates, net of cash sold
Cost of receivables acquired (excluding receivables related to sales)
Purchases of marketable securities
Purchases of property and equipment
Cost of equipment on operating leases acquired
Subtotal Capital Expenditures
Acquisitions of businesses, net of cash acquired
Other
Net cash used for investing activities

| $\$$ | $14,611.4$ | $\$$ | $14,919.7$ | $\$$ | $15,319.1$ | $\$$ | $14,088.0$ | $\$$ | $13,064.9$ |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\$$ | 169.4 | $\$$ | 860.7 | $\$$ | $1,022.5$ | $\$$ | 843.9 | $\$$ | 240.3 |
| $\$$ | $1,256.2$ | $\$$ | $1,049.4$ | $\$$ | $1,091.5$ | $\$$ | 936.7 | $\$$ | 799.5 |
| $\$$ | 81.1 | $\$$ | 149.2 | $\$$ | 345.8 | $\$$ | 22.0 | $\$$ | 30.2 |
| $\$$ | $(13,954.5)$ | $\$(14,996.5)$ | $\$$ | $(17,240.4)$ | $\$(17,011.7)$ | $\$(15,139.0)$ |  |  |  |
| $\$$ | $(171.2)$ | $\$$ | $(154.9)$ | $\$$ | $(614.6)$ | $\$$ | $(1,026.3)$ | $\$$ | $(922.2)$ |
| $\$$ | $(644.4)$ | $\$$ | $(694.0)$ | $\$$ | $(1,048.3)$ | $\$$ | $(1,158.4)$ | $\$$ | $(1,319.2)$ |
| $\$$ | $(2,310.7)$ | $\$$ | $(2,132.1)$ | $\$$ | $(1,611.0)$ | $\$$ | $(1,216.9)$ | $\$$ | $(801.8)$ |
| $\$$ | $(2,955.1)$ | $\$$ | $(2,826.1)$ | $\$$ | $(2,659.3)$ | $\$$ | $(2,375.3)$ | $\$$ | $(2,121.0)$ |
| $\$$ | $(198.5)$ |  |  |  |  | $\$$ | $(83.5)$ |  |  |
| $\$$ | $(16.0)$ | $\$$ | $(60.2)$ | $\$$ | $(145.6)$ | $\$$ | $(214.5)$ | $\$$ | 43.2 |
| $\$(1,177.20)$ | $\$(1,058.70)$ | $\$(2,881.00)$ | $\$(4,820.70)$ | $\$(4,004.10)$ |  |  |  |  |  |

## Cash Flows from Financing Activities

Increase (decrease) in total short-term borrowings
Proceeds from long-term borrowings
Payments of long-term borrowings
Proceeds from issuance of common stock
Repurchases of common stock
Dividends paid
Excess tax benefits from share-based compensation

## Other

Net cash used for financing activities
Effect of Exchange Rate Changes on Cash and Cash Equivalents
Net Increase in Cash and Cash Equivalents
Cash and Cash Equivalents at Beginning of Year

## Cash and Cash Equivalents at End of Year

Net Free Cash Flow (NFCF)
FCF
FCF growth rate

| $\$$ | $(1,213.6)$ | $\$$ | 501.6 | $\$$ | 89.2 | $\$$ | $2,749.4$ | $\$$ | 894.9 |
| :--- | :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\$$ | $5,070.7$ | $\$$ | $5,711.0$ | $\$$ | $8,232.0$ | $\$$ | $4,734.0$ | $\$$ | $10,642.0$ |
| $\$$ | $(5,267.6)$ | $\$$ | $(4,863.2)$ | $\$$ | $(5,209.1)$ | $\$$ | $(4,958.5)$ | $\$$ | $(5,396.0)$ |
| $\$$ | 36.0 | $\$$ | 172.1 | $\$$ | 149.5 | $\$$ | 174.5 | $\$$ | 61.0 |
| $\$$ | $(205.4)$ | $\$$ | $(2,770.7)$ | $\$$ | $(2,731.1)$ | $\$$ | $(1,531.4)$ | $\$$ | $(1,587.7)$ |
| $\$$ | $(761.3)$ | $\$$ | $(816.3)$ | $\$$ | $(786.0)$ | $\$$ | $(752.9)$ | $\$$ | $(697.9)$ |
| $\$$ | 5.4 | $\$$ | 18.5 | $\$$ | 30.8 | $\$$ | 50.7 | $\$$ | 30.1 |
| $\$$ | $(64.7)$ | $\$$ | $(72.1)$ | $\$$ | $(63.6)$ | $\$$ | $(59.3)$ | $\$$ | $(66.2)$ |
| $\$$ | $(2,400.5)$ | $\$$ | $(2,119.1)$ | $\$$ | $(288.3)$ | $\$$ | 406.5 | $\$$ | $3,880.2$ |
| $\$$ | $(13.0)$ |  |  |  |  | $\$$ | 11.7 | $\$$ | $(38.8)$ |
| $\$$ | 173.6 | $\$$ | 375.2 | $\$$ | 283.0 | $\$$ | $(1,148.2)$ | $\$$ | $1,005.0$ |
| $\$$ | $4,162.2$ | $\$$ | $3,787.0$ | $\$$ | $3,504.0$ | $\$$ | $4,652.2$ | $\$$ | $3,647.2$ |
| $\$$ | $4,335.8$ | $\$$ | $4,162.2$ | $\$$ | $3,787.0$ | $\$$ | $3,504.0$ | $\$$ | $4,652.2$ |
| $\$$ | 186.6 | $\$$ | 562.5 | $\$$ | 356.6 | $\$$ | $(1,159.9)$ | $\$$ | $1,043.8$ |
| $\$$ | 809.2 | $\$$ | 914.2 | $\$$ | 866.6 | $\$$ | 879.0 | $\$$ | $(953.3)$ |
|  | $-11 \%$ | $5 \%$ | $-1 \%$ |  | $-192 \%$ |  |  |  |  |

## Supplemental Cash Flow Information

Current portion of long term debt
Long-Term Debt \& Capital Lease Obligation
Total debt

| $\$$ | $11,914.7$ | $\$$ | $13,016.6$ | $\$$ | $12,557.7$ | $\$$ | $12,898.0$ | $\$$ | $9,967.3$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | ---: |
| $\$$ | $23,759.7$ | $\$$ | $23,832.8$ | $\$$ | $24,380.7$ | $\$$ | $21,577.7$ | $\$$ | $22,453.1$ |
| $\$$ | $35,674.4$ | $\$$ | $36,849.4$ | $\$$ | $36,938.4$ | $\$$ | $34,475.7$ | $\$$ | $32,420.4$ |
| $\$$ | $36,261.9$ |  |  |  |  |  |  |  |  |

## Statement of Changes in Consolidated Stocholders' Equity

For the Years Ended October 31, 2012, 2013, 2014, 2015 and 2016
(In millions of dollars)

|  | Stockholders' Equity |  | Common <br> Stock |  | Treasury <br> Stock |  | Retained Accumulated Other <br> Comprehensive <br> Earnings <br> Income (Loss)  |  |  |  | Noncontrolling Interests |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Balance October 31, 2011 | \$ | 6,814.9 | \$ | 3,251.7 | \$ | $(7,292.8)$ | \$ | 14,519.4 | \$ | $(3,678.0)$ | \$ | 14.6 |
| Net income | \$ | 3,071.6 |  |  |  |  | \$ | 3,064.7 |  |  | \$ | 6.9 |
| Other comprehensive loss | \$ | (893.8) |  |  |  |  |  |  | \$ | (893.5) | \$ | (0.3) |
| Repurchases of common stock | \$ | $(1,587.7)$ |  |  |  | (1,587.7) |  |  |  |  |  |  |
| Treasury shares reissued | \$ | 66.7 |  |  |  | 66.7 |  |  |  |  |  |  |
| Dividends declared | \$ | (709.2) |  |  |  |  | \$ | (708.9) |  |  | \$ | (0.3) |
| Stock options and other | \$ | 99.5 | \$ | 100.5 |  |  |  |  |  |  | \$ | (1.0) |
| Balance October 31, 2012 | \$ | 6,862.0 | \$ | 3,352.2 |  | $(8,813.8)$ | \$ | 16,875.2 | \$ | $(4,571.5)$ | \$ | 19.9 |
| Balance October 31, 2013 | \$ | 10,267.70 | \$ | 3,524.20 |  | ( $10,210.90$ ) | \$ | 19,645.60 | \$ | $(2,693.10)$ | \$ | 1.9 |
| Net income | \$ | 3,163.30 |  |  |  |  | \$ | 3,161.70 |  |  | \$ | 1.6 |
| Other comprehensive loss | \$ | $(1,090.20)$ |  |  |  |  |  |  | \$ | $(1,089.90)$ | \$ | (0.3) |
| Repurchases of common stock | \$ | $(2,731.10)$ |  |  |  | \$ $(2,731.10)$ |  |  |  |  |  |  |
| Treasury shares reissued | \$ | 107.80 |  |  |  | \$ 107.80 |  |  |  |  |  |  |
| Dividends declared | \$ | (803.70) |  |  |  |  | \$ | (803.40) |  |  | \$ | (0.3) |
| Stock options and other | \$ | 151.70 | \$ | 151.20 |  |  | \$ | 0.50 |  |  |  |  |
| Balance October 31, 2014 | \$ | 9,065.50 | \$ | 3,675.40 |  | ( $12,834.20$ ) | \$ | 22,004.40 | \$ | $(3,783.00)$ | \$ | 2.9 |
| Net income | \$ | 1,940.9 |  |  |  |  | \$ | 1,940.0 |  |  | \$ | 0.9 |
| Other comprehensive loss | \$ | (946.8) |  |  |  |  |  |  | \$ | (946.4) | \$ | (0.4) |
| Repurchases of common stock | \$ | $(2,770.7)$ |  |  |  | \$ $(2,770.7)$ |  |  |  |  |  |  |
| Treasury shares reissued | \$ | 107.3 |  |  |  | \$ 107.3 |  |  |  |  |  |  |
| Dividends declared | \$ | (800.8) |  |  |  |  | \$ | (799.5) |  |  | \$ | (1.3) |
| Stock options and other | \$ | 162.2 | \$ | 150.2 |  |  | \$ | (0.1) |  |  | \$ | 12.1 |
| Balance October 31, 2015 | \$ | 6,757.60 | \$ | 3,825.60 |  | (15,497.60) | \$ | 23,144.80 | \$ | (4,729.40) | \$ | 14.2 |
| Net income (loss) | \$ | 1,521.50 |  |  |  |  | \$ | 1,523.90 |  |  | \$ | (2.4) |
| Other comprehensive loss | \$ | (896.60) |  |  |  |  |  |  |  |  |  |  |
| Repurchases of common stock | \$ | (205.40) |  |  |  | \$ (205.40) |  |  | \$ | (896.60) |  |  |
| Treasury shares reissued | \$ | 25.90 |  |  |  | \$ 25.90 |  |  |  |  |  |  |
| Dividends declared | \$ | (758.00) |  |  |  |  | \$ | (757.10) |  |  | \$ | (0.9) |
| Acquisition (Note 4) |  |  |  |  |  |  |  |  |  |  |  |  |
| Stock options and other | \$ | 85.80 | \$ | 86.20 |  |  | \$ | (0.30) |  |  | \$ | (0.1) |
| Balance October 31, 2016 | \$ | 6,530.80 | \$ | 3,911.80 |  | (15,677.10) | \$ | 23,911.30 | \$ | $(5,626.00)$ | \$ | 10.8 |

