Essentially, all of these are Revenues minus Costs, but what each includes under Revenues and under Costs differs among them (for example, here I do not include taxes as a cost). Below, I report equations for each measure in terms of the most basic revenues and costs, then a few useful equations of the measures in terms of each other.

## Revenue Sources

Revenues from selling things; could technically include accrual adjustments for non-cash revenues (such as accounts receivable or inventory changes). I use two types for these equations:

- Revenue (not clarifying whether its accrual adjusted)
- Capital Gains (CapGains) from sale of capital assets (think tractors or land).

## Cost or Expenses

Anything that is a cost to the farm, again could be accrual adjusted (shifting prepurchased feeds or fertilizers to correct cropping season), plus it can include non-cash costs, such as depreciation. I use three for these equations:

- Operating Costs (not clarifying whether its accrual adjusted and which non-cash costs it includes such as depreciation): think fertilizer and feed.
- Interest: in some cases, this may be part of Operating Costs, but here, I break it out, since it gets treated differently for some measures.
- Unpaid Labor & Management (UnpaidLabrMngmt): this is the cost of you as farm laborer and manager, how much you "pay yourself", which may not be an explicitly paycheck you write yourself.

## Measures

1) Net Farm Income from Operations (NFIfO)

NFIfO = Revenue – OperatingCosts – Interest

2) Net Farm Income (NFI)

NFI = Revenue – OperatingCosts – Interest – UnpaidLabrMngmt + CapGains

In terms of NFIfO

NFI = NFIfO – UnpaidLabrMngmt + CapGains

3) Return on Assets (ROA)

ROA = Revenue – OperatingCosts – UnpaidLabrMngmt + CapGains

In terms of NFIfO and NFI

ROA = NFIfO + Interest – UnpaidLabrMngmt + CapGains

ROA = NFI + Interest

4) Return on Equity (ROE)

ROE = Revenue - OperatingCosts - Interest - UnpaidLabrMngmt + CapGains

In terms of ROA and NFI

ROE = ROA - Interest

ROE = NFI