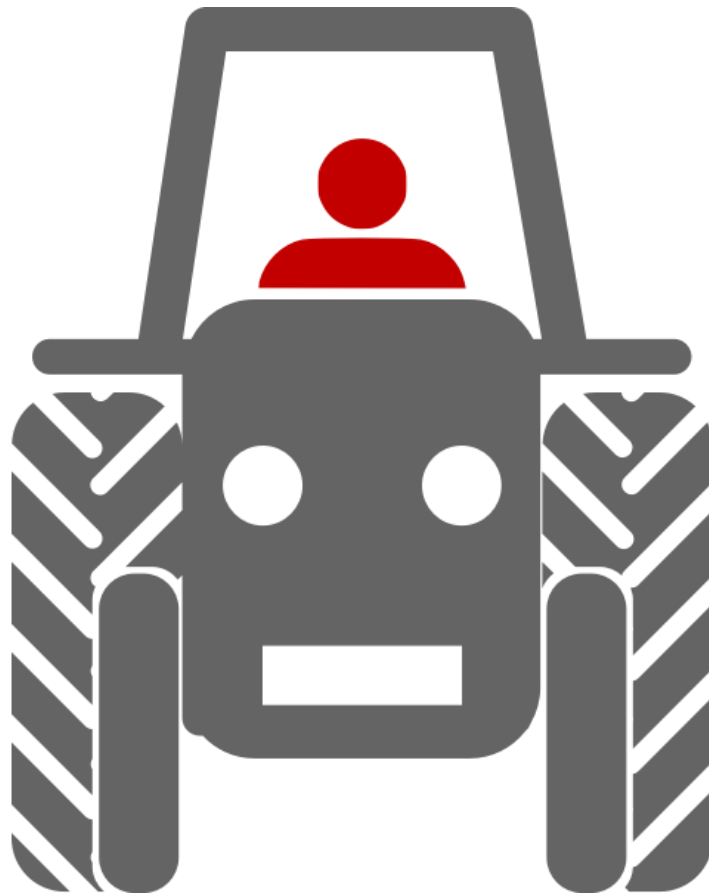


# Machinery Management Program

Dial in your true cost  
and better manage your equipment

*Equipment is often the first or second-largest line-item expense, and usually the most misunderstood and mis-managed. Use this resource to improve long-term strategy, sustainability, and accurate cost per acre for your farming or equipment operation.*



# Key Objectives

## 1. Understanding Your Current Position

- a. Appraisal
- b. Net Equity
- c. Expenses

## 2. Make the Unknowns, Known

- a. Inflation and Appreciation
- b. True Depreciation
- c. Hour Tracking

## 3. Develop a Plan

- a. 3-5 Year Equipment Outlook
- b. Margin Enhancement
- c. Knowing **Your** Numbers
  - i. University Numbers vs. Reality
  - ii. Calculating Your Rates
  - iii. Cost Per Bushel

## 4. Future Decision-Making

- a. Return on Assets
- b. Trends Analysis
- c. Hour and Time Tracking

## 5. Communication and Collaboration

- a. Meetings
- b. Roles and Responsibilities
  - i. Decision Rights
- c. Accountability Chart
- d. Annual Review

# Understanding Your Current Position

Most farms and businesses make trades for three reasons:

1. Something is worn out
2. The dealer approached them with a ‘good deal’
3. Tax Management

The goal with the enclosed information is to better understand your current equipment standing, and build a plan for what it needs to look like in the future. This requires better communication, more tracking, and a different perspective on how you’ve managed equipment in the past.

I’ll mention right now- if you’re not willing to do a little more work, or change the way you manage equipment, just put this information down and walk away. This is not the business plan for you. Proper Equipment Management requires discipline, extra work, and an affinity to change. The operators that understand how to best manage equipment expenses, know their costs, and communicate effectively with their team and equipment dealer resources in the next five to ten years, are the operators that will have survived and continue to thrive in twenty to thirty years.

A saying we use often when working with farm operations is “You can be happy or you can be *informed*.” The issue of equipment management does not inherently lie in the cost or factors out of our control. It lies in how we manage our numbers, accept accountability of the decisions we make, and develop plans in time of abundance and shortage.

Our goal here is to map out where we’re at, look at the direction we want to steer the business, and then build a bridge to get there.

Questions you should be able to answer after utilizing and implementing the resources in this handout:

- What is your Equipment Cost/Acre?
- What is your Equipment Cost/Bushel?
- What is the market value of all of your equipment?
- What Capital Expenditures are you making in the next 3-5 years?
- How many hours does it take to put the crop in and take the crop out, or complete a project?
- What is your Return on Asset in your farm or business?
- Who handles key equipment decisions?
- How do you effectively communicate and manage “wants, needs, wishes”?
- What data points do you use to evaluate equipment efficiency and management?

# Equipment Appraisal

## Equipment Appraisal Proven Process

**Purpose:** Develop an accurate equipment valuation and understand net equity position by assessing true market values of equipment. This will help dial in Cost of Production on Machinery and Equipment to a per acre and per pass basis. It also helps to develop better relationships with dealers.

1. **Identify-** Identify two local dealerships to conduct appraisals of your equipment. While you most likely have a dealer you have been working with for a long time, the second opinion is important for two reasons. First, it is a good check on whether you are getting the best value from your current dealer. As machines are regarded as power units and have trade-in or sale value, color of equipment is not all that relevant. Second, equipment prices can be very regional. Checking with a dealer in a different area may provide different insight on significant trade-in differences based on inventory of the dealer, etc.
2. **Compile-** Compile a list of every piece of farm equipment for every operation involved. Whether in Transition, Collaboration, or Profit Management, it is important to account for all equipment to paint the best picture of the operation(s) today. The primary focus is on machines used for primary farming purposes; planting, crop care, and harvesting. However, it is good to have a market value sheet of all equipment assets that contribute to the operations.
3. **Appraise-** Reach out to the identified equipment appraisers at dealerships or otherwise, and explain to them you want an equipment appraisal.
  - a. **The most important part** for them to understand is that you want a true valuation. As in, if you walked in the day, week, or month after they do the appraisal and put the keys on their desk, they would write you a check for the amount on the appraisal This will get their attention- make sure it is very clear. This develops accountability and exposes relationships with dealers.
  - b. The appraisal typically does not cost anything. This should be a service provided by the dealer. Explain it to dealers you traditionally may not have done business with as an evaluation on how a fleet change or equipment lineup adjustment might look on your farm. It could be well worth their time and effort.
4. **Implement-** Average the two appraisal values for a “true” market value. Dialing in the true cost of production, as well as using the information for forward projecting and equipment analysis, is the entire reason for this process. Utilize the information and implement it into your decision-making process.
5. **Frequency-** Equipment appraisals should be conducted on an annual basis, and again when looking to make a change in equipment throughout the year. This helps to maintain dealer relationships, keeps equipment information current, and allows you to have a pulse on true value of machinery. Putting this information into a year over year tracker allows you to evaluate depreciation, forward project equipment lifetime and value, and make cuts or additions as necessary.

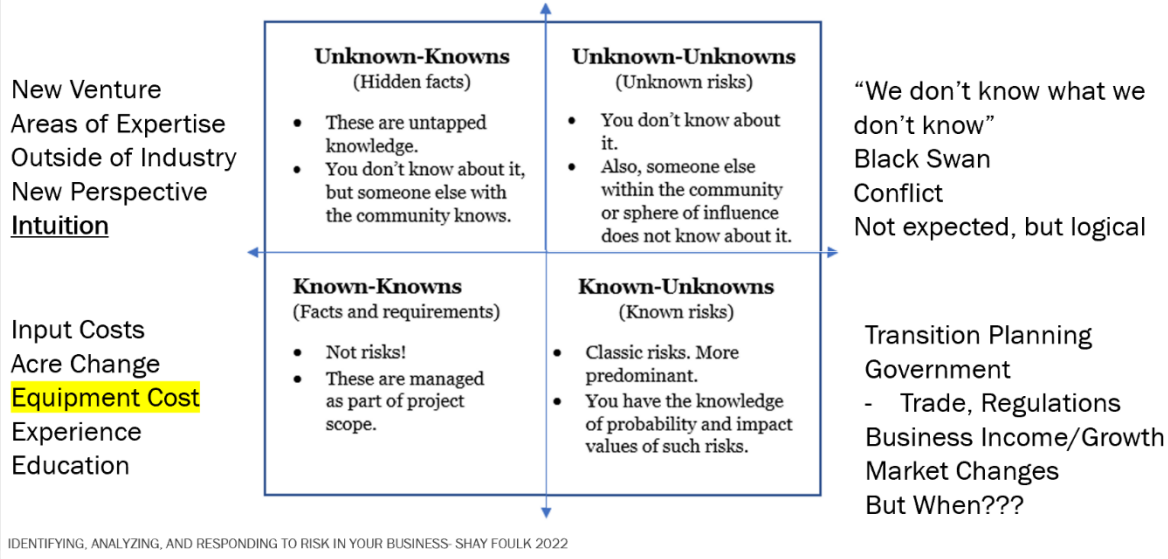
Appraisals should not just be for sales, trade-ins, and estate planning. The appraisal is an important picture of knowing your assets, managing equipment cost, and actively making changes in the operation. It may take a bit of coaching and explaining with your dealership. Focus on the primary units, and explain to them that this will be a key part of your operation as you move forward.





# Make the Unknowns, Known

## MANAGING RISK



With Equipment Management, many of us lie in the Known-Unknowns category. This means that we *know* that we don't know our equipment cost like we should. The information in this packet, and in this section, is to help us move our equipment cost into the Known-Knowns- these are the things we *know we know*. This allows us to better manage risk, and understand how equipment impacts our farm operation more critically. We will start by analyzing **appreciation, inflation, and depreciation- things we don't write a check for every year, but that we will write a check for when we go to replace or trade machinery.**

## Depreciation, Appreciation, and Inflation Calculator

	Depreciation	\$34,000	\$34,000	\$34,000	\$34,000	\$34,000	
	Inflation	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	
	<b>Total Annual</b>	<b>\$44,000</b>	<b>\$44,000</b>	<b>\$44,000</b>	<b>\$44,000</b>	<b>\$44,000</b>	
# of Years							
	5						
Dep.	\$170,000						
Inflation	\$50,000						
Cost/Yr.	\$44,000						
Total Cost	\$220,000						
	<b>Example of a purchase and a trade after 5 years.</b>						
	TIME	Year 1	Year 2	Year 3	Year 4	Year 5	
	Original Equipment Purchase Price	\$300,000				\$350,000	Replacement of same machine.
						\$130,000	Salvage value of original machine.
					5 yr example		
	Inflationary replacement cost increase				\$50,000		
	Market value depreciation				\$170,000		
	<b>Actual Cost of operation to stay current:</b>				<b>\$220,000</b>		
	<b>Chart Example: Produced by Ag View Solutions</b>						

This example indicates a \$300,000 planter decision. That same planter equivalent will be worth \$350,000 in 5 years at 3% inflation, and salvage value will be around \$130,000 at 15% Depreciation and Inflation

(Work in Progress! If you've made it this far, send me an email at [shay@agviewolutions.com](mailto:shay@agviewolutions.com) with the Subject "Finished Machinery Analysis Handout" and I will get it to you by 01 March 2022. Sometimes farm planning just leaves me short on time!)