

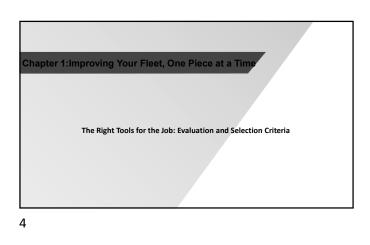
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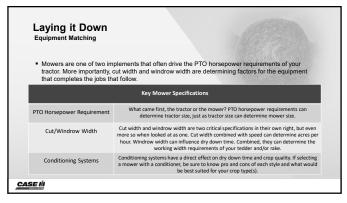
- Chapter 1: Improving Your Fleet, One Piece at a Time
- The Right Tools for the Job: Evaluation and Selection Criteria Chapter 2: To Manage, You Must Measure
- Chapter 2: Io Manage, four Must Measure
   Interpretation: Matching Equipment Specifications and Outputs
   Understanding Variables by Applying Numbers: The "What ifs" of Hay Production
   Technology: It's Place in the Hay Field
   Chapter 3: Wrapping it Up

- Summary: How Your Decisions on the First Day can Affect Your Value on the Last
- References

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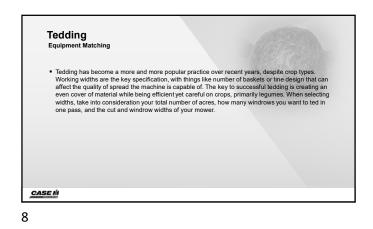
Starting with 1 Equipment Matching	
	ne, the most expensive part of your fleet is the tractor. It is also considered to it usually being asked to perform multiple tasks.
	Key Tractor Specifications
Engine Horsepower	Generally, if you have enough PTO HP then you will have sufficient engine HP. However, terrain may be a factor that could require more power than the implement spec calls for.
PTO Horsepower	Always pay attention to PTO HP requirements of implements. Under powered tractors can result in not being able to run a machine, excessive wear, and reduced capability.
Weight	Often times, implements such as balers can be very heavy. It is important, especially on hills, to ensure that your tractor is heavy enough to handle it.
Hydraulics	Number of remotes and hydraulic flow has the potential to influence every implement you own. How many remotes do you need to operate each function on the machine? Could increased hydraulic flow decrease my taligate cycle time, ultimately improving efficiency?



## A Fork in the Field Equipment Matching • After mowing your hay, there are various routes you can take before you get to your baler depending on what you are trying to make. Baling wet hay? Often times this can be accomplished short window? Maybe adding a tedder to your fleet could prevent profit loss due to mold or you as hort window? Maybe adding a tedder to your fleet could prevent profit loss due to mold or you appear. Need to turn your windrows? Could combining windrows increase your baling time? A rake can be a crucial asset to any operation, with any crop type, wet or dy. Determining the intentions of your operation will determine the units you need, but don't forget that it may pay to have that extra piece in your wheel house when you need it.

CASE I

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 Expression

 Equipment Matching

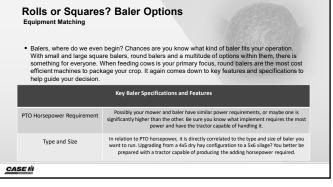
 • With multiple types and sizes, how do you know what rake fits your operation? Rakes can offen be the imiting factor of your fleet because the requirements are affected by both the capacities of the implements used before and after.

 • Matching

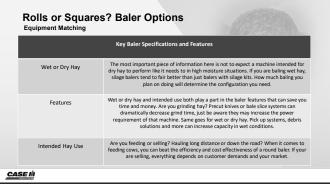
 • Kype
 How you know whether you want a rotary, wheel, or basket rake? These decisions are often based on price, perference and what you're pulling it with. Terrain and field sizes can also be determining factors.

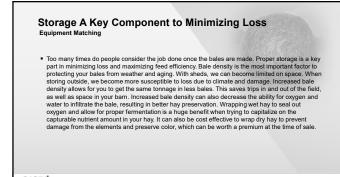
 • Working Width
 Working widths and capabilities on rakes becomes very crucial. With a lot of options, it can be difficult to decide what machine can optimize your capabilities. Do you want to turn one, two, three or more rows at time? These are alt things you used to know before selecting the rake that is best for you.

 • Exercise

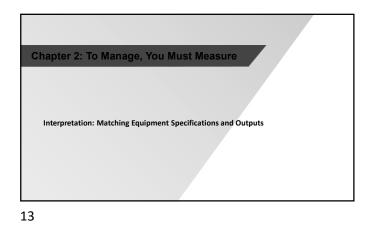




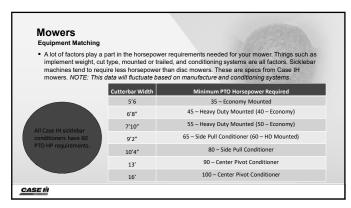


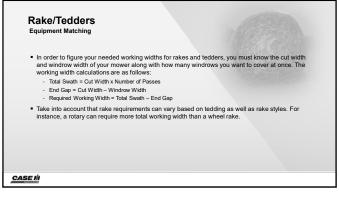


## CASE I

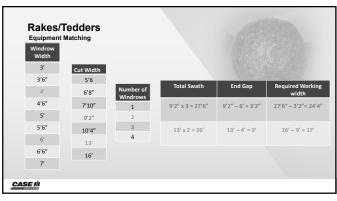


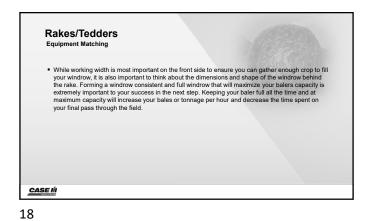
Power Units Equipment Matching			
<ul> <li>Rule of thumb, PTO horsepower is equivalent to 86% of total engine horsepower. For the following calculations, we will use this rule.</li> </ul>			
Engine Horsepower	PTO Horsepower		
50	43		
75	64		
100	86		
125	107		
150	129		
175	150		

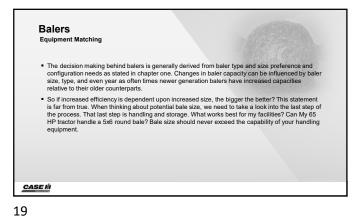


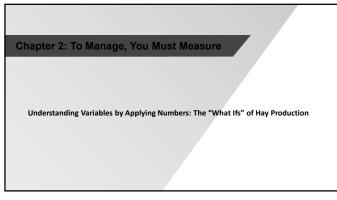


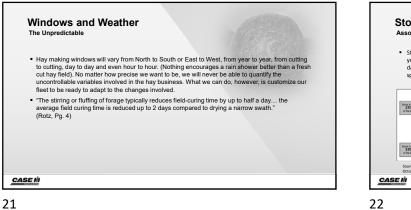


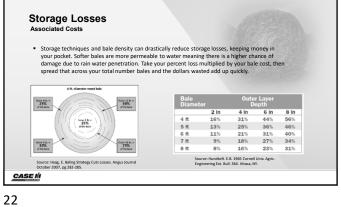








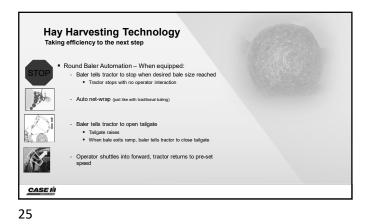


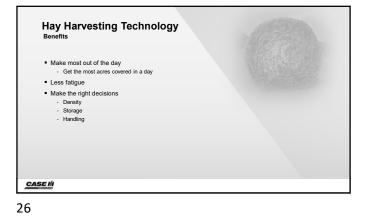


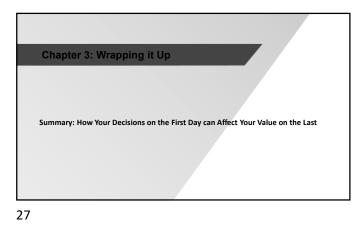














- Haying equipment needs to be properly sized for your operation, including number of acres, acres
  per field, and transport considerations
- Properly matched equipment in your hay making system can increase your productivity.
- Agricultural equipment technology for hay growers can increase production efficiencies and lesse operator fatigue.

CASE I







