AET Fall Office Hours

Creating impactful EFFICIENCY FACTORS to show SAE Progress ***12/4/2024***

FEATURES:	FUNCTION:	RESOURCE or BENEFIT:

Efficiency Factors/Learning Outcomes

* Identify target areas of measure
* Used in records and awards
* Compare and contrast skills/tasks

- Used to measure annual SAE performance
- Factors can pull into Efficiencies in awards
- Levels of impact allow evaluation of measure

AET Videos

Breeding SAE Efficiency Factor Video
Market Animal SAE Efficiency Factor Video
Agribusiness SAE Efficiency Factor Video

Efficiency Factors and Learning Outcomes

Green Question Marks

Hover the ? to gain help and insight

? These may connect to your learning outcomes you described each year in the plan, but develop measurable outcomes of your SAE and define a value to show your outcomes.

? As you develop items for each year, re-use them in the next year or add new areas as you can develop important SAE outcomes.

Factor	Level	Description (how this helps in your SAE)
? Describe an "efficiency gained" or "learning outcome" gained in the SAE and in the a particular year. This is best if you are able measure and quantify a value	? This is a measurable value that aligns with your factor listed.	? Describe how this factor impacted the management decision or performance of the SAE to improve decision making or manage outcomes.

* Use industry related measures
* Be creative in the outcome/efficiency
* Not always positive measures
* Negative occurrences are a bridge to learning and making change

Use a unit: $/unit, %, level of ability, lbs., $

LEVEL: Advanced, Intermediate, Novice etc

*identify what constitutes the level

Ex: Novice = ability to operate only a weed eater

** There is character space for explanation

Reveal how the value is utilized to drive SAE decisions for improvement

NOTE: Students should always include the Beginning Year Value and use the BEST or LAST Year level value

Example Factors - PRODUCTION

Cost per lb of Gain	Total Feed Costs/Total Lbs. of Gain Produced
Cost per Acre of Production	Total Production Costs/Total of Acres in Production
Cost per Unit of Production	Total Costs/Total Number of Units Produced
Average Daily Gain	Total Lbs. of Gain Produced/Number of days between Weighings
Average Yield per Acre	Total Bushels (lbs, cwt, hd) Harvested/Total Acres Harvested
Average Selling Price per Bushel (lb, cwt, hd)	Total Gross Sales/Total Bushels (lbs, cwt, hd) Sold
Return on Investment	
ROI on Operational Expense	Net Profit From the Investment-Cost of the Investment/Cost of the Investment x 100
Feed Efficiency (lbs feed per 1 lb gain)	Total lbs of Feed Fed/Total lbs Gain Produced
Lambing, Calving, Kidding %	Number of Offspring Born/Number of Pregnant Females x 100
Number Born Alive Ratio	Total Number Born Alive/Total Number Born
Weaning Percent	Total Number Weaned /Total Number Born x 100
% Death Loss	Number of Deaths/Total Number of Animals x 100
Days on Feed	Number of Days from Start to Finish
Units Produced per Hour	Total Units Produced/Total Hours Worked

Example Factors - PLACEMENT

Average Net Earnings per Hour	Average Net Earnings = Total Net Earnings/Total Hours Worked
Average Gross Earnings per Hour	Average Gross Earnings = Total Net Earnings/Total Hours Worked
Attendance Rate	Attendance Rate = (Number of Days Present / Total Working Days) x 100
Product Identification % (Level)	Identification Achievement = (Number of Products Identified / Total Products) x 100
Productivity Rate	Productivity Rate = (Total Output / Total Input) x 100
Quality of Work	Quality of Work = (Number of Errors / Total Output) x 100
Punctuality	Punctuality = (Number of Days Arriving on Time / Total Working Days) x 100
Customer Satisfaction Score	Customer Satisfaction Score = (Sum of All Scores / Number of Respondents)
Turnaround Time	Turnaround Time = (Sum of Completion Times /Number of Tasks or Projects)
Employment Engagement Index	Employee Engagement Index = (Number of Engaged Employees / Total Employees) x 100

Example Factors - RESEARCH

Days of Research	Total days Grant to Publication
Measure outputs for all inputs	Do research inputs lead to outputs, outcomes and impact?
Measure ratio of OUTPUT/INPUT	How well do research inputs lead to research outputs?
Skill development (number and benchmarks)	How well are the skills learned and performed
Meeting Timeline Goals	How successful was the project in meeting project time goals
Meeting Budget Goals	How successful was the project in meeting project budget goals?
Meeting scope/Requirements Goals	How successful was the project in meeting scope and requirements goals?

REPORTS for Efficiency Measures:

1. Analysis of Animal Enterprises	Days on Feed, Weights, Feed Efficiency, Selling Price
2. Monthly Statement of Cash Flow	Inventory Purchased, Inventory Sold, High/Low Cash Months, Marketing Outlooks
3. Detailed Review of Financial Records	Ability to sort by expense category, Select SAE
4. Report of Non- Current Items	Balance Sheet by Year
5. Profit Loss	Profit loss by SAE and by Year