
SECTION HEADING

AGRI 2214: Machinery Principles and Management

Description

Machinery Principles and Management will cover the utilization of farm equipment from the purchasing of equipment and managing the costs to the operation and maintenance of agricultural equipment.

Credits

3

Prerequisite

None

Corequisite

None

Topics to be Covered

1. Machine Performance
2. Power Performance
3. Machine Costs
4. Grain Harvesters
5. Forage Harvesters
6. Tillage Operations
7. Seedbed Preparations
8. Chemical Applications
9. Grain Dryers
10. Material Handling

Learning Outcomes

1. Calculate machine capacities
2. Calculate horse power performance of tractors
3. Calculate fuel efficiency of tractors.
4. Identify the parts and explain the functions of grain harvesters.
5. Complete the settings on a combine.
6. Calculate field loss
7. Explain the functions of forage harvesters.
8. Compare tillage operations and advantages/disadvantages
9. Describe the different types of chemical/fertilizer applicators.
10. Calculate chemical applications
11. Calculate drying efficiency
12. Calculate auger efficiency

Credit Details

Lecture: 3

Lab: 0

OJT: 0

MnTC Goal Area(s): None