

Purpose: This guide cover the calculations of depreciation and provides examples with keys to check your work. This worksheet is a continuation of the depreciation guide, which provides a more complete overview of depreciation. This worksheet also offers mathmatical applications in agriculture (STEM).

Depreciation Formulas:

(1) Annual Depreciation Expense =	(2) Annual Asset Book Value (Ending Yr. 2) =
(Beginning Value – Salvage Value) /	Beginning Value less
Useful Life	- Yr. 1 Depreciation - Yr. 2 Depreciation
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* Year 1, Year 2 depreciation etc...are identified as accumulated depreciation **<u>Example</u>**: A Show Box that is purchased in year 1 of your project for \$800, has a useful life of 10 years and is estimated to be sold at the end of your use for \$600. In the space below, calculate the annual depreciation and show the book value for year 4 ending.

Annual depreciation =	Book Value Endíng <u>Yr. 4</u>
(\$800 - \$600) / 10 = \$20 year (Cost - salvage value) / useful life = depreciation	\$800 - \$20 - \$20 - \$20 - \$20 = \$720 (Beginning value - yr1-yr2-yr3-yr4)

Depreciation exercises:

Situation 1 – Beginning Inventory of a Livestock Trailer for livestock SAEs

The beginning value is \$8,500, a useful life of 20 years and a salvage value \$7,000. Calculate annual depreciation and book value at year 4.

Annual depreciation =	Book Value Endíng <u>Yr. 4</u>

Situation 2 – Purchased Sow used in a swine breeding SAE

Purchased in your second year for \$700, useful life of 5 years and a salvage value of \$550. Calculate annual depreciation and value at the end of year 4.

Annual depreciation =	Book Value Endíng <u>Yr. 4</u>

Situation 3 – Building a horse stall/barn for your Equine SAE

Purchased all materials for \$2,500 in your first year, useful life of 10 years and the ability to sell the barn and panels for \$1,500 at the end of your use. Calculate book value year 3.

Annual depreciation =	Book Value Endíng <u>Yr. 3</u>

Situation 4 – Purchased animal traps for wildlife business SAE

Purchased traps for \$1,200 in your last year, they have a useful life of 10 years and a resale value of \$800. Calculate the annual depreciation expense and book value at the end of year 1.

Annual depreciation =	Book Value Ending <u>Yr. 1</u>

Situation 5 – Beginning Inventory of Bull for Breeding Beef SAE

The beginning value of a bull for \$2,500 with a planned resale back to the breeder for salvage value \$2,400 and carries a useful life of 7 years. Calculate annual depreciation and book value at the end of year 2.

Annual depreciation =	Book Value Ending <u>Yr. 2</u>

Situation 6 – Purchased tractor for livestock and hay SAEs

Purchase a 56HP tractor for \$26,600 in your first year, salvage value of \$15,000 and a useful life of 20 years. Calculate annual depreciation and the book value at end of year 4

Annual depreciation =	Book Value Endíng <u>Yr. 4</u>
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Situation 7 – Purchased animal scales for swine and goat SAEs

Purchased animal scales for \$1,100 with salvage value of \$900 and carries a useful life of 10 years. Calculate annual depreciation and book value at the end of year 4.

Annual depreciation =	Book Value Ending Yr. 4

* Your teacher has a key in their teacher account, so check your work!

