

SHOW POWER Platinum Feed

HELPFUL FORMULAS



Successful Market Livestock Projects are built on knowing how much weight is gained, how much feed is consumed, and how efficiently feed is used.

1. Average Daily Gain (ADG)

$$\left(\frac{\text{Weight gained (lbs)}}{\# \text{ of days fed (days)}} \right) = \text{Pounds gained per day (lbs/day)}$$

Ex.: A calf weighed 90 lb when purchased and it weighs 290 lbs after feeding it for 100 days.

Weight gained (lbs) = 290 lbs - 90 lbs = 200 lbs
ADG = 200 lbs / 100 days = **2 lbs per day**

CALCULATE YOUR ADG:

$$\left(\frac{\text{(lbs)}}{\text{(days)}} \right) = \text{(lbs/day) gained}$$

3. Feed Conversion (FC)

$$\left(\frac{\text{Total feed (lbs)}}{\text{Weight gained (lbs)}} \right) = \text{Pounds eaten per pound gained (lbs/lb)}$$

Ex.: A goat ate 150 lbs of feed (hay, supplements, goat feed, concentrates, milk solids, etc.) during a period of 100 days. It weighed 30 lbs when purchased and it weighed 80 lbs after 100 days.

Weight gained (lbs) = 80 lbs - 30 lbs = 50 lbs
FC = 150 lbs / 50 lbs = **3 lbs of feed eaten per pound gained**

CALCULATE YOUR FC:

$$\left(\frac{\text{(lbs)}}{\text{(lbs)}} \right) = \text{(lbs/lb) eaten per pound}$$

2. Avg. Daily Feed Intake (ADFI)

$$\left(\frac{\text{Total feed (lbs)}}{\# \text{ of days (days)}} \right) = \text{Pounds eaten per day (lbs/day)}$$

Ex.: A pig ate 550 lbs of feed (including pig feed, supplements, concentrates, milk solids, etc.) in a period of 100 days.

ADFI = 550 lbs / 100 days = **5.5 lbs of feed eaten per day**

* the amount of feed required for each pound of an animals gains can be calculated from weight and feed records.

CALCULATE YOUR ADFI:

$$\left(\frac{\text{(lbs)}}{\text{(days)}} \right) = \text{(lbs/day) eaten}$$

4. Feed Cost Per Pound (FCPP)

$$\left(\frac{\text{Feed cost (\$)}}{\text{Pounds gained (lbs)}} \right) = \text{Cost per Pound (\$/lb)}$$

Ex.: A turkey ate 2 bags of turkey feed, which cost \$40.00 (\$20 per bag). It weighed 1/4 lb when obtained and it weighed 20 1/4 lb at the end of the project.

Weight gained (lbs) = 20.25 lbs - .25 lbs = 20 lbs
FCPP = \$40.00 / 20 lbs = **\$2.00 per pound**

CALCULATE YOUR FCPP:

$$\left(\frac{\text{(\$)}}{\text{(lbs)}} \right) = \text{(\$/lb) cost per pound}$$