

National FFA Poultry Judging Team Activity

2014

Feed Conversion Ratio (FCR)

- ▶ The pounds of feed required to produce 1 lb. of gain.
- ▶ Dependent on quality of feed provided
 - Protein level
- ▶ **Lower** FCR means more efficient growth
 - Broiler 2.0 FCR
 - Swine 5.0 FCR
 - Cattle 10.0 FCR

Feed Conversion Ratio Example:
 $5 \text{ lb of feed} / 1 \text{ lb gain} = 5.0 \text{ FCR}$

Feed Efficiency (FE)

- ▶ The pounds of gain from 1 lb. of feed
 - Value x 1,000
- ▶ Basically, same information as FCR
- ▶ **Higher FE means more efficient growth**
 - Broiler 625 FE
 - Swine 200 FE
 - Cattle 50 FE

Feed Efficiency Example:

1 lb of gain / 5 lb feed * 1000 = 20 FE

Broiler strain (Questions 9 and 10)

- ▶ Several strains, or breeds, of commercial broilers are available for use in broiler production.
- ▶ There can be efficiency and yield differences between strains

	Strain A	Strain B	Strain C	Strain D
Average Body Weight (lb) ¹	7.19	7.85	7.16	7.52
FCR	2.14	2.07	2.08	2.01
Fillet Yield ²	22.5	23.5	22.2	23.6

¹ Average body weight at processing

² Fillet yield is calculated as:
$$\left[\frac{\text{Pounds of fillets}}{\text{Pounds of live weight}} \right] \times 100$$

Question 15

Brooding Heater

