

### **Example Problems on Feed Conversion and Consumption:**

1. How many pounds of feed are consumed by 1,000 fish weighing 750 pounds?
2. Approximately how many pounds can you expect 1,000 fish weighing 2,000 pounds to gain from 5,000 pounds of feed?
3. What is the cost of feed in cents/lb if the feed conversion ratio is 2.2 and the price of feed is 11.25 cents/lb?

## **Feed Conversion and Cost:**

Complete the set of problems below using Table 3 as a reference. Show your work in the space provided below each question.

<b>Fish size (lbs./1000 fish)</b>	<b>Feed consumption (% body weight)</b>	<b>Feed conversion ratio</b>
60	4.0 - 4.5	1.1 - 1.2
100	3.5 - 4.0	1.3 - 1.4
300	2.5 - 3.0	1.4 - 1.6
600	2.0 - 2.5	1.6 - 1.8
750	1.5 - 2.0	1.8 - 1.9
1,000	1.3 - 1.5	1.9 - 2.0
2,000	1.1 - 1.2	2.0 - 2.2
3,000	1.0 - 1.1	2.2 - 2.4

1. How many pounds of feed are consumed by 1000 fish weighing 300 pounds?
  
  
  
  
  
  
  
  
  
  
2. Approximately how many pounds can you expect 1000 fish weighing 600 pounds to gain from 1,000 pounds of feed?
  
  
  
  
  
  
  
  
  
  
3. What is the cost of feed in cents/lb if the feed conversion ratio is 1.6:1 and the price of feed is 10 cents per pound?
  
  
  
  
  
  
  
  
  
  
4. How much can you expect the feed cost to be in dollars/lb for 300 pounds of gain at a feed conversion ratio of 1.5:1 and the price of feed at 15 cents/lb?

*Short Answer: Answer the following questions on the material from the presentation in class.*

5. Why is it important to observe the feeding behavior of the fish?
  
  
  
  
  
  
  
  
  
  
6. What is meant by the “least-cost” method that catfish feed manufacturers typically use?
  
  
  
  
  
  
  
  
  
  
7. What three factors determine the size and form of feed that should be used?
  
  
  
  
  
  
  
  
  
  
8. What are three factors to consider when choosing a catfish feed?
  
  
  
  
  
  
  
  
  
  
9. True or False. Catfish can only be seen when they are coming up to feed.
  
  
  
  
  
  
  
  
  
  
10. True or False. On-farm catfish feed milling and preparation is a very common practice.