

Name:

Class:

Date:

Activity 12.2A: Aquaculture Feed Efficiency

Instructions

Complete the following worksheet to calculate the feed efficiency of fish. Feed efficiency is the ratio of feed required to the amount of overall gain in fish weight. This ratio is called the feed conversion ratio.

Section One: Calculating Feed Conversion Ratios

1. Determine the weight change in the fish. Take the total ending weight of all fish and subtract the total beginning weight of all fish. This is often done by taking the average weight and multiplying it by the overall number of fish.

Answer:

2. Determine how much feed the fish have been fed. (If needed, convert the feed amount into the same units as the amount of fish weight gain.)

Answer:

3. Calculate the feed conversion ratio. Divide the total pounds of feed by the fish weight gain.

Answer:

Section Two: Sample Problems

1. Fred owns a catfish business and currently has 100 fish. The catfish weighed an average of 1 lb each last month and now weigh an average of 1.25 lb. He fed the catfish 25 lb of feed in the last month. What is the feed conversion ratio?

Answer:

2. Susan owns a trout farm. She bought 1,000 fingerlings weighing an average of 0.2 lb each. She raised the fish until they weighed an average of 0.6 lb each. During that time, she fed the fingerlings a total of 40 lb of feed. What is the feed conversion ratio?

Answer: