

Grocery Store Survey of Seafood Items Extension Questions & Activities

The following are examples of questions and activities that can accompany the grocery store survey of seafood items:

Students can compare and contrast:

- individual/group results to class results
- results from current year/semester to previous years/semester, particularly if collected during different seasons
- results from different regions of the country, if possible (maybe students can collect data when home during spring break)

List the countries of origin for all of the farm-raised seafood items in the class summary table. For each of these countries, locate and color in the country on a world map. Use the FAO interactive map (<http://www.fao.org/fishery/naso-maps/naso-maps/en/>) to determine the quantity produced in aquaculture by each country per year.

Pick one of the seafood items listed on your table (or the class results) to investigate further using the fact sheets on individual species available online at SeafoodWatch website. For the species/group that you have chosen discuss: whether the item is wild-caught or farm-raised, what are the ratings for this species/group, discuss methods of capture or farming, discuss the environmental impacts of capture or farming, and discuss potential human health impacts from consuming this species/group.

General questions on relevance of aquaculture and world capture fisheries:

- Discuss the growing importance of aquaculture as a source of

Use the FAO 2012 Report on *The State of World Fisheries and Aquaculture*

(<http://www.fao.org/docrep/016/i2727e/i2727e.pdf>) to answer the following questions:

1. What percentage of the total world fisheries production is represented by aquaculture (marine and inland combined)? (Table 1: 3)
2. Describe the global trend in the total marine aquaculture production from 2006-2011 (Table 1: 3; Fig. 1: 4). Compare this to the trend in human consumption of seafood. Based on these trends, would you expect aquaculture products to make up a larger proportion of the total world fisheries in the future?
3. Which countries lead in aquaculture production? List the top ten producers. (Table ?, p. ?)
4. Which region (Africa, Asia, Europe, Oceania) produces the largest quantity (million tons) and highest percentage of aquaculture products in the world? Give the statistics for both. (Table 5: 27).
5. List top diadromous fishes produced in aquaculture for 2010 (Fig. 10: 38).
6. List the top marine fishes produced in aquaculture for 2010 (Fig. 10: 38).
7. List the top crustaceans produced in aquaculture for 2010 (Fig. 10: 39).
8. List the top molluscs produced in aquaculture for 2010 (Fig. 10: 39).
9. Of the top "other aquatic animals" produced in aquaculture for 2010 (Fig. 10: 39), which are marine species?
10. Estimate the 2010 global production of macroalgae produced in mariculture in million tons for the following groups: Japanese kelp, *Kappaphycus alvarezii* and *Euचेuma* spp., Wakame, *Gracilaria* seaweeds, and Nori/laver (Fig. 1: 40).