

## **Distribution Of Polychlorinated Biphenyl Concentrations In Wild-Caught And Farm-Raised Shrimp By Geographic Region**

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### **Abstract**

Over a three month period, we collected samples of uncooked warm-water shrimp from numerous countries in an effort to describe concentrations of various persistent organic compounds in seafood products. In the present study, we re-categorized samples based on the region in which the sample originated to address limitations of our initial analysis due to a small number of samples for certain countries. Shrimp from North America were more commonly wild-caught (70% versus 26% for farm-raised), whereas the shrimp from Asia and South America were predominantly farm-raised (90 and 87%, respectively). Highest median concentrations, as well as highest variability among concentrations, were observed in shrimp from North America. However, no statistical differences in PCB concentrations were observed among the different regions, even after adjusting for sample-type. Despite the lack of differences in measured concentrations, evaluation of congener profiles and homologue fractions by region indicated that sources of PCB loadings (i.e. feed, pollution, etc.) may differ for each region.