

III. Asian Carp Composition, Nutrition, and Contaminant Values:

A. Nutritional value

Asian Carp sampled in from Illinois waterways during 2010-2011 were high in protein (56-61%) and healthy fat (10-18%). Fat was comprised of beneficial unsaturated fatty acids (i.e., 20-25% polyunsaturated fatty acids) and long-chain polyunsaturated fatty acids (LC-PUFA) including heart-healthy 'omega 3s'. Baseline estimates of fillet condition suggested that quality improves with catch at colder temperatures.

1. Bighead Carp:

- a. Moisture - 77.5%
- b. Protein - 65.2%
- c. Lipid - 9.8%
- d. Ash - 21.4%
- e. Polyunsaturated fatty acids (PUFA) - 27.7%
- f. Long-chain polyunsaturated fatty acids (LC-PUFA) - 18.2%

2. Silver Carp:

- a. Moisture - 71.5%
- b. Protein - 55.0%
- c. Lipid - 20.4%
- d. Ash - 20.3%
- e. Polyunsaturated fatty acids (PUFA) - 28.8%
- f. Long-chain polyunsaturated fatty acids (LC-PUFA) - 14.9%

B. Contaminant concentrations

Contaminant concentrations varied among individual Asian Carp and were generally low. Heavy metals such as mercury were generally low in these fish, although a few individuals (about 10%) had concentrations that mandated limited consumption by sensitive people (e.g., pregnant women). Metal concentrations were low relative to most commercially important fish species. Organochlorine pesticides (e.g., chlordane) were present in some fish at low concentrations with the highest occurrence in northern river reaches. Concentrations of PCBs were below the FDA action level for fish and were generally low compared to most commercially available fishes. Other contaminant concentrations were low as well

Licensing and Certification for Handlers

Sorce Enterprises (Transportation/Storage)

3201 North Main Street, East Peoria, 61611

- USDA Fresh and Frozen Wholesaler License #20070269
- IDNR Wholesale Aquatic Life Dealer License Cust. #262725153 – Trans. # 021927025

Matlick Fisheries (Harvesting)

3536 S. 1st Street, Quincy IL 62305

- IDNR Wholesale Aquatic Life Dealer License Cust. #169515996
- HACCP 4051-012406-22501

Sturgeon Bay Cold Storage/Dan's Fish Inc. (Processing/Packaging)

152 Jib Street, Sturgeon Bay, WI 54235

- Wi. Dept. of Ag. Food Processing Plant License #251062
- Wi. Dept. of Ag. Feed License #31-024665-020764
- Wi. DNR Wholesale Fish Dealer License #WH-0385
- FDA # aka FEI #3003427318

Kencor (Processing/Packaging)

2 Enterprise Drive, Canton, IL 61520

309-326-2106

- USDA M45847
- FDA 12656353566
- HACCP 4048-060804-106163
- DNR 021762772 & 021762763