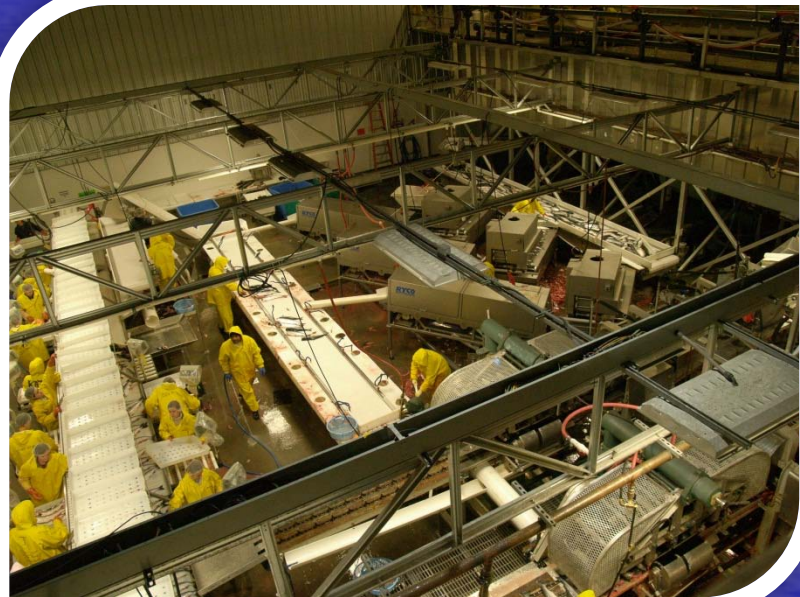


DEVELOPING BY-PRODUCT MARKETS FOR PINK AND CHUM SALMON



BY: Richard Riggs, Silver Bay Seafoods, LLC

**TRANSITION FROM THE
CONVERSION OF
“SEAFOOD WASTE”
TO
“SEAFOOD BY-PRODUCTS”**



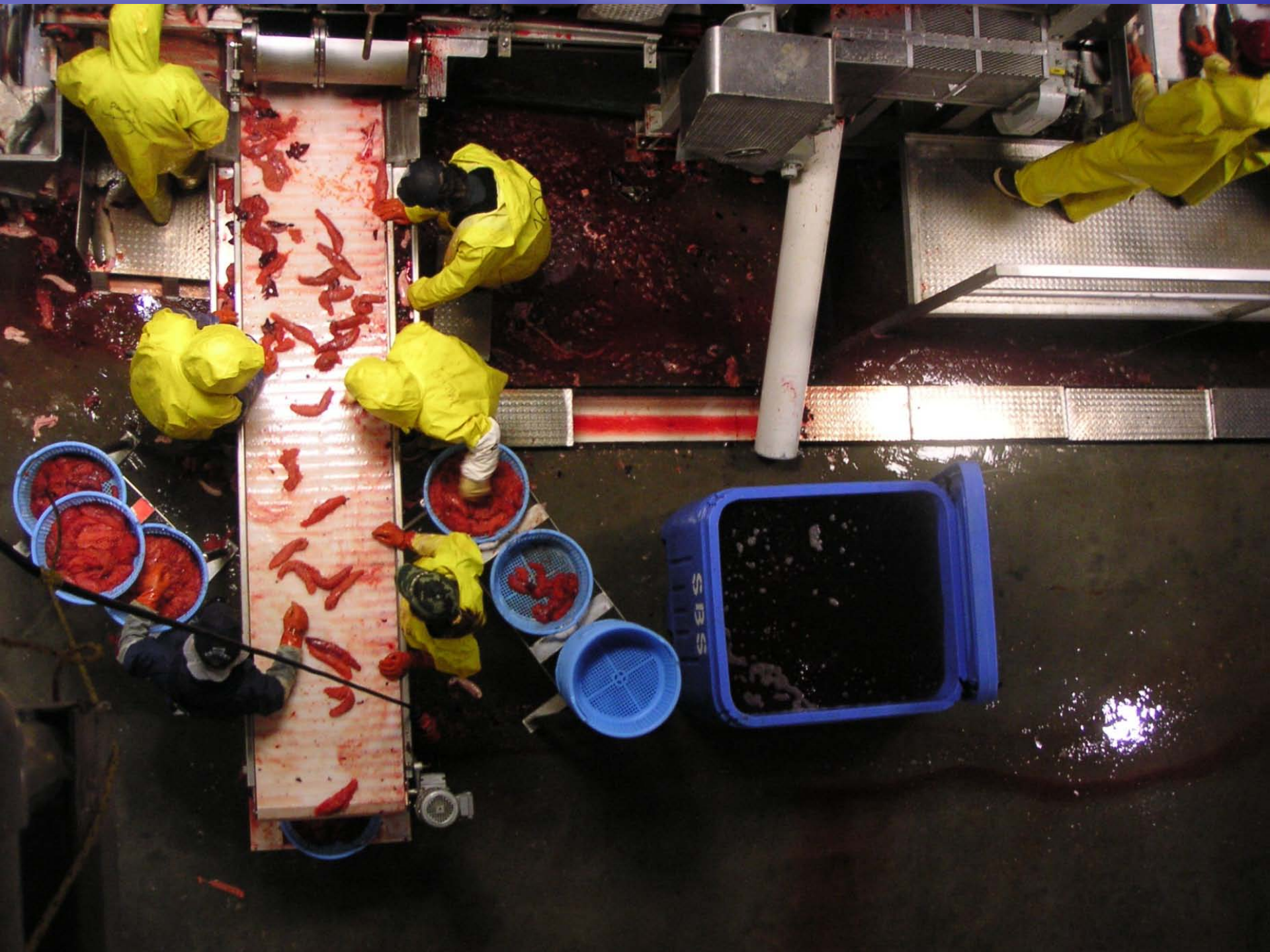








Fillet Scott
1.75 2.25







“ALASKA SEAFOOD BY-PRODUCTS: POTENTIAL PRODUCTS, MARKETS, AND COMPETING PRODUCTS – REVISED 2008”

- **REPORT PREPARED FOR ALASKA
FISHERIES DEVELOPMENT FOUNDATION**
- **REPORT PREPARED BY ANTHONY P. BIMBO**

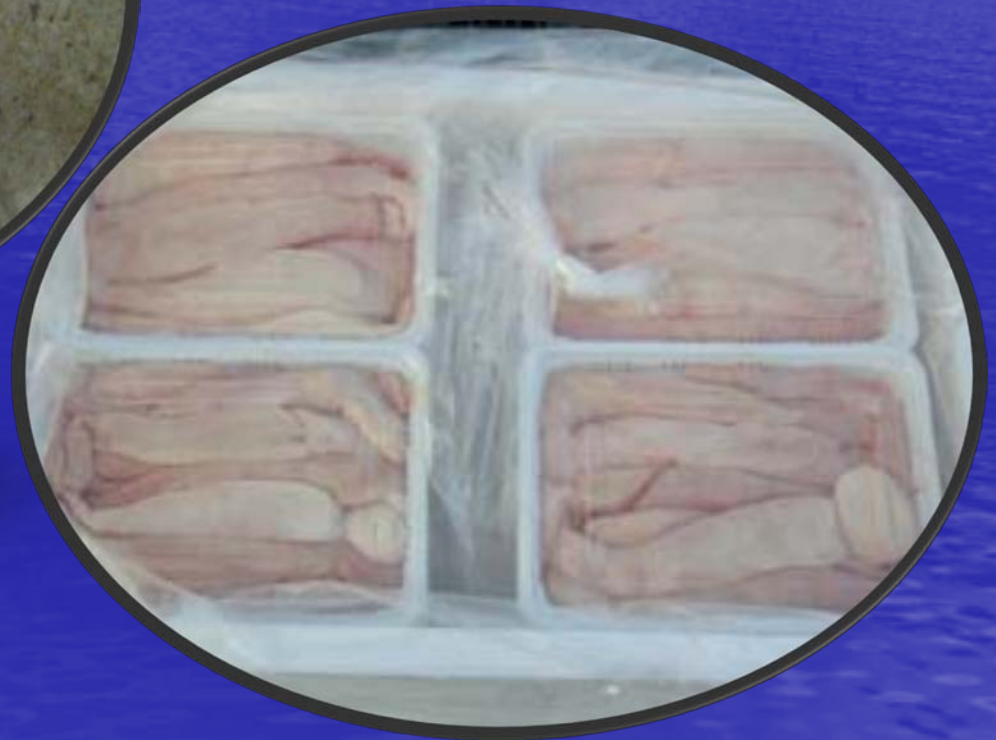
PINK / CHUM HEADS



PINK / CHUM FRAMES

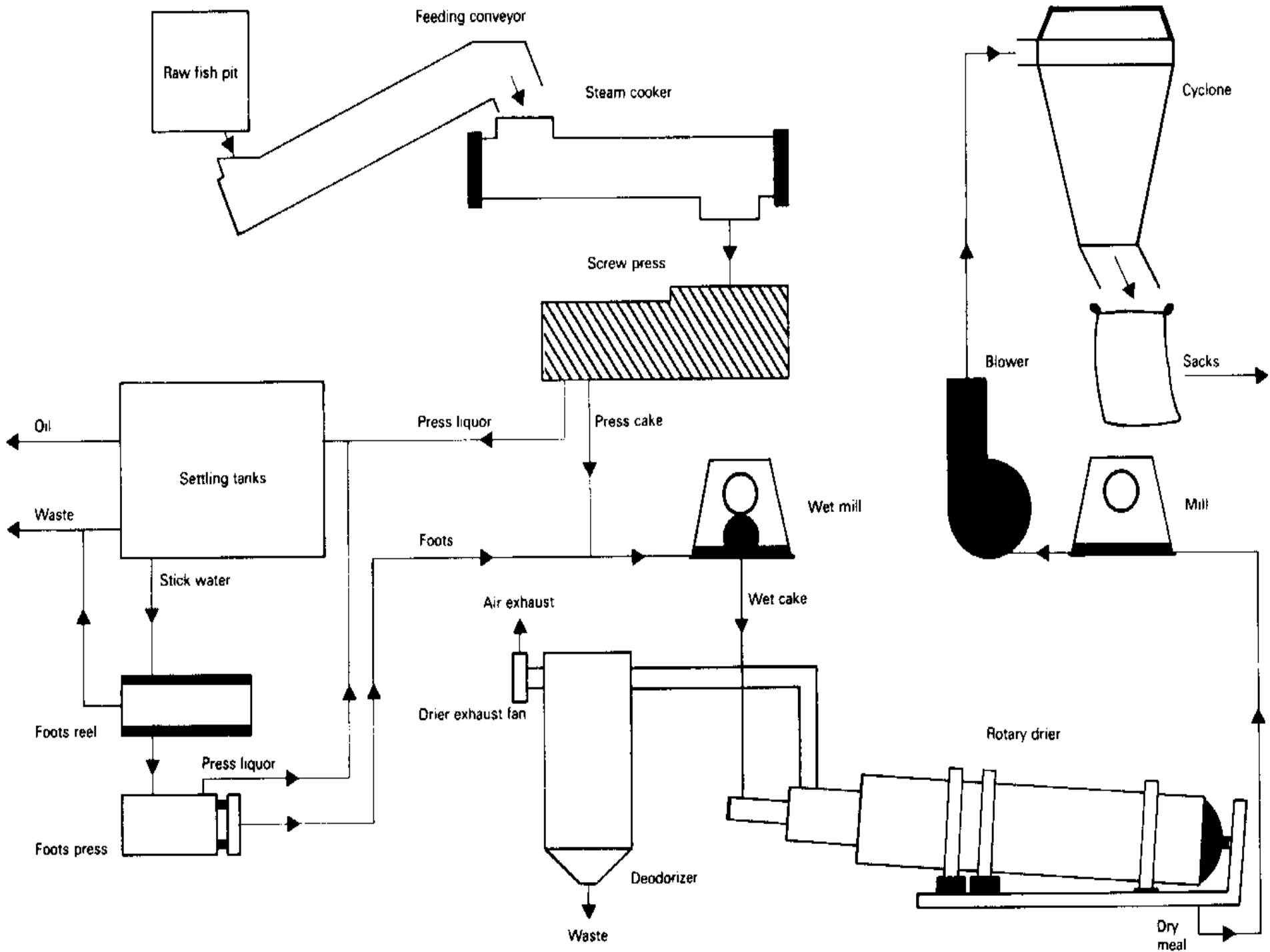


PINK / CHUM MILT



FISHMEAL

- **EQUIPMENT SCHEMATIC – EQUIPMENT / TECHNOLOGY HAS EVOLVED OVER LAST 20 YEARS.**
- **THREE MAJOR COMPONENTS OF SALMON BY-PRODUCTS RAW MATERIAL**
 - **SOLIDS**
 - **OIL**
 - **WATER**
- **PROCESS – HEATING, PRESSING, DRYING**



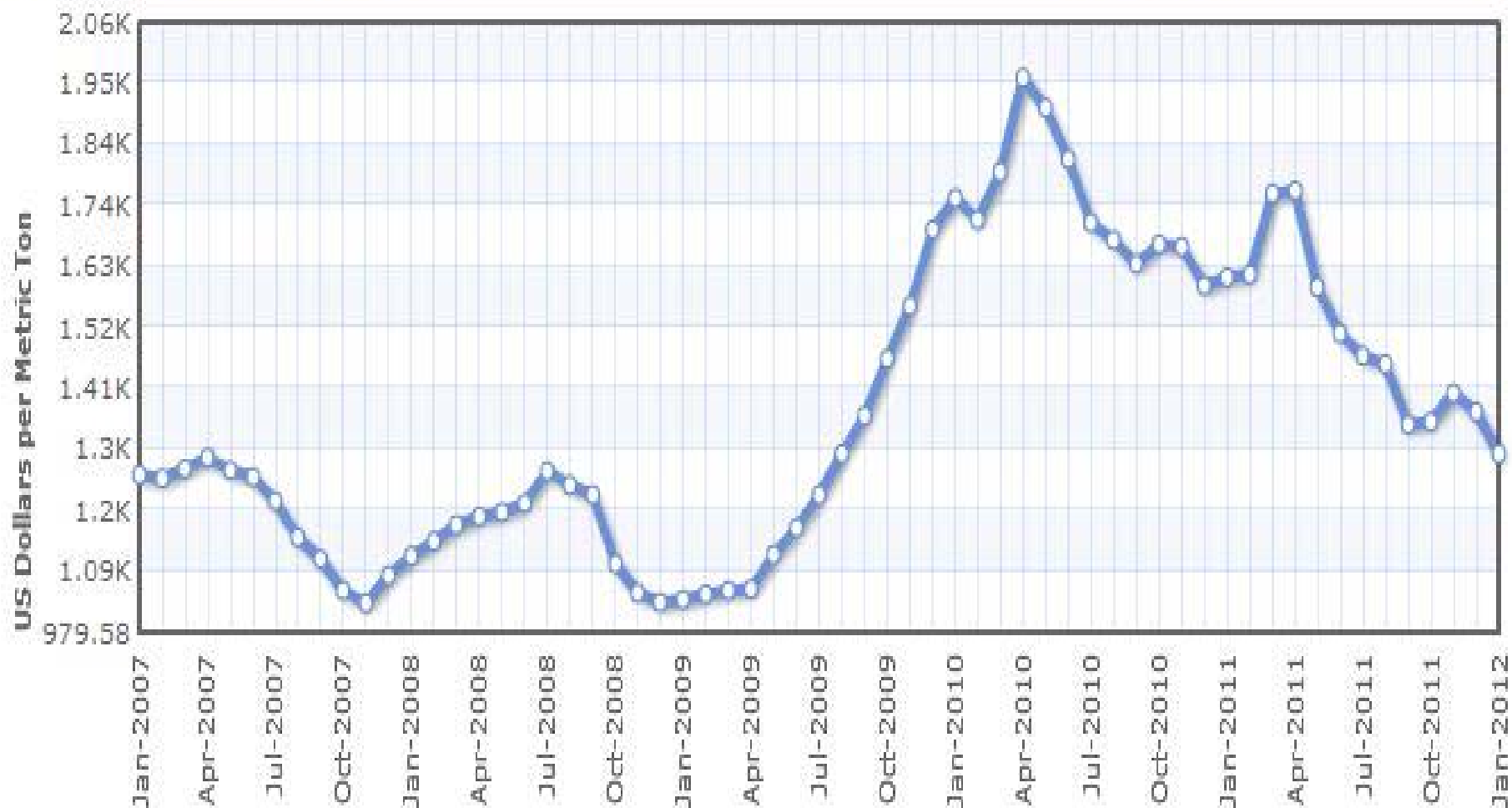
FISHMEAL

- **MARKETS FOR FISHMEAL**
 - **FEEDS IN AGRICULTURE (POULTRY, PIGS AND OTHER FARM ANIMALS)**
 - **AQUACULTURE**
- **COMMODITY MARKET – SUPPLY / DEMAND**

Fishmeal Monthly Price - US Dollars per Metric Ton

Range [6m](#) [1y](#) [5y](#) [10y](#) [15y](#) [20y](#) [25y](#) [30y](#)

Jan 2007 - Jan 2012: 36.320 (2.89 %)



FISH OILS

- **APPLICATIONS**
 - **FOOD**
 - **FEED**
 - **TECHNICAL INDUSTRIES**
- **BIODIESEL**
- **NUTRACEUTICAL / HEALTH FOOD SUPPLEMENT**
 - **OMEGA 3 FATTY ACIDS**
- **COMMODITY MARKET – SUPPLY / DEMAND**

PET FOODS



