

GLOBAL AQUACULTURE DEPENDS ON SOY FOR AQUAFEEDS




Since 1995, global aquaculture production has grown at an average annual rate of 10-11% and is projected to double in the next 30 years to help meet growing demand. With wild-caught fishmeal and fish oil sources already at capacity, soy has become a dominant protein ingredient in aquafeeds. And with U.S. SOY now making up nearly 40% of the soy used, the U.S. is a dominant player.

IN 2015

13,500,000 MT
TOTAL SOY PRODUCTS
USED IN AQUACULTURE FEEDS
620 MILLION BUSHELS SOYBEANS

5,000,000 MT
— OF THIS TOTAL WAS
U.S. SOY
230 MILLION BUSHELS SOYBEANS

AQUAFEED SOY INCLUSION RATE BY TOP FARMED SPECIES

	GLOBAL PRODUCTION	MAX SOY INCLUSION	FOOD CONVERSION RATIO	TOTAL VOLUME OF SOY PRODUCTS (MMT/BUSHELS)
FRESHWATER FISH				
CARP	25 MMT	Up to 50%	1.7:1 (1.7 lbs food to make 1 lb fish)	21.25 MMT 578,389 Bu
<ul style="list-style-type: none"> China produces 59% of the world's farmed fish. 74% of China's freshwater aquaculture production is from just 7 species of carp and 1 species of tilapia. 50% of China's freshwater production is from 5 species of carp that can consume 50% soy diets. 				
TILAPIA	4.8 MMT	Up to 50%	1.5	3.6 MMT 97,986 Bu
<ul style="list-style-type: none"> Tilapia is the second most farmed fish globally, and is farmed in more countries than any other species. Egypt is the second largest tilapia producing country after China. 				
CATFISH	4.2 MMT	Up to 26%	2:1	2.2 MMT 80,828,000 Bu
<ul style="list-style-type: none"> Asian catfish species include pangasius and basa. 				
MARINE FISH				
<ul style="list-style-type: none"> Marine aquaculture offers the greatest potential for growth, as land and fresh water resources become severely limited. As global marine aquaculture expands, it is critical to scale up production of SPC to meet the demand for alternative proteins in aquafeeds. 				
SHRIMP	4.7 MMT	Up to 26%	1.6:1	1.96 MMT 53,217 Bu
<ul style="list-style-type: none"> Checkoff-funded research is exploring shrimp genetics and selective breeding for enhanced soy tolerance. 				
SALMONIDS (Salmon and Trout*)	3.1 MMT	Up to 13%	1.5:1	604,500 lbs 30,225 Bu
MILKFISH	1.04 MMT	Up to 40%	1.9:1	790,400 MT 36,300,000 Bu
SEA BREAM	1.025 MMT	Up to 25%	—	—
SEA BASS	636,138 MT	Up to 25%	—	—

*Most trout are freshwater fish but are categorized with salmon