

Sustainability Update

Salmones Camanchaca S.A.

January 2019

❖ Review and Definition of Salmones Camanchaca's Sustainability Strategy

The second week of January 2019, Salmones Camanchaca assigned the sustainability consulting company Kodama & Mex (<http://www.kodamaymex.com/>) the task of reviewing and defining Salmones Camanchaca's sustainability strategy. For several years now, Salmones Camanchaca has been addressing and working on relevant environmental and social matters. Kodama & Mex has been given the task to review our efforts and frame them within the broader national and global context. The consultancy will identify and address gaps, propose KPIs and, overall, trace a line into the future for Salmones Camanchaca to follow in terms of sustainability. We expect the work to be finished by late April – early May 2019.

Kodama & Mex are a very respected Chilean sustainability consulting firm based in Santiago. Among their clients are key players in the food, mining, energy, services and financial industries.

❖ 2018 Highlights

During 2018 **Salmones Camanchaca became the first Chilean salmon farming company to measure its carbon footprint**. This undertaking was recognized by the Chilean Ministry of Environment. During the process, energy hotspots were identified that will allow the company to reduce its carbon footprint by an estimated 30% by 2030.



salmones camanchaca+carbon footprint

6 feb. 2018 - **Salmones Camanchaca S.A.** ("Salmones" or the "Company", and those open facilities, carbon footprint insofar as airfreight are used, ...

Salmones Camanchaca is the First Salmon Company to Register with ...
news.cision.com/salmones-camanchaca/.../salmones-camanchaca-i... ▼ Traducir esta página
28 nov. 2018 - **Salmones Camanchaca** became on Monday 26 November the first salmon ... to begin systematically measuring its carbon footprint, adding that

Salmon farmer joins Chile's bid to cut emissions - FishFarmingExpert ...
<https://www.fishfarmingexpert.com/.../salmon-farmer-joins-chiles...> ▼ Traducir esta página
28 nov. 2018 - Chilean company **Salmones Camanchaca** has become the first salmon farmer to ... "Our first carbon footprint measurement coincides with the ...

Salmones Camanchaca becomes first salmon farmer in Chile to ...
<https://salmonbusiness.com/salmones-camanchaca-becomes-first-s...> ▼ Traducir esta página
27 nov. 2018 - The salmon farmer started to measure its carbon footprint in 2017. Huella Chile, a national program for the management of greenhouse gas ...

Camanchaca becomes the first salmon company to enter carbon ...
<https://www.fis.com/fis/.../worldnews.asp?l=e&id...ndb...> ▼ Traducir esta página
27 nov. 2018 - **Salmones Camanchaca** feels confident it can reduce gas emission from the greenhouse effect of its operations in the next years. **Camanchaca** ...

Camanchaca becomes the first salmon company to enter carbon ...
<https://fis.com/fis/worldnews/worldnews.asp?l=e&id...ndb...> ▼ Traducir esta página
Salmones Camanchaca feels confident it can reduce gas emission from the greenhouse effect of its operations in the next years. **Camanchaca** becomes the first ...

❖ 2018 Highlights

During 2018 **Salmones Camanchaca made the commitment to undergo the Aquaculture Stewardship Council (ASC) certification process in all of its operating sites** (sea sites, freshwater sites and processing plants)

Due to a couple of critical indicators related to disease control, the company knows beforehand with a relevant amount of certainty that some sites will not be certified. However, maintaining our commitment of going through the third-party certification audit ensures that – to the maximum possible extent – our operations are in line with the **8 principles outlined by the ASC (next slide)**. Therefore, as a company we are using the ASC standard as a tool to achieve the highest measurable standards of sustainable aquaculture production.

❖ 2018 Highlights

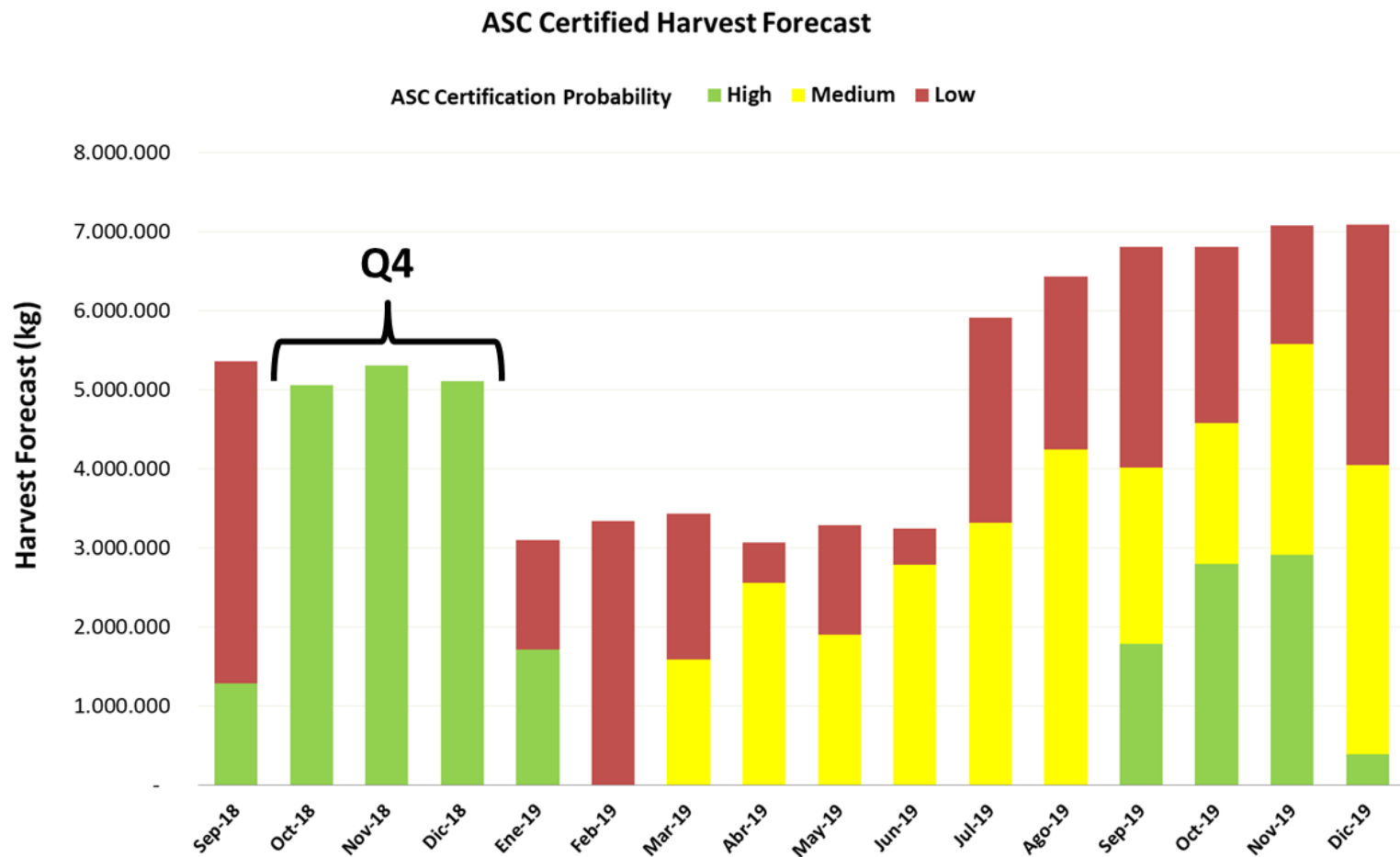


8 Principles of ASC

1. *Compliance with all applicable local and national legal requirements and regulations*
2. *Conserve natural habitat, local biodiversity and ecosystem function*
3. *Protect the health and genetic integrity of wild populations*
4. *Use resources in an environmentally efficient and responsible manner*
5. *Manage disease and parasites in an environmentally responsible manner*
6. *Develop and operate farms in a socially responsible manner*
7. *Be a good neighbor and conscientious citizen*
8. *Requirements for suppliers of smolt (all of the above)*

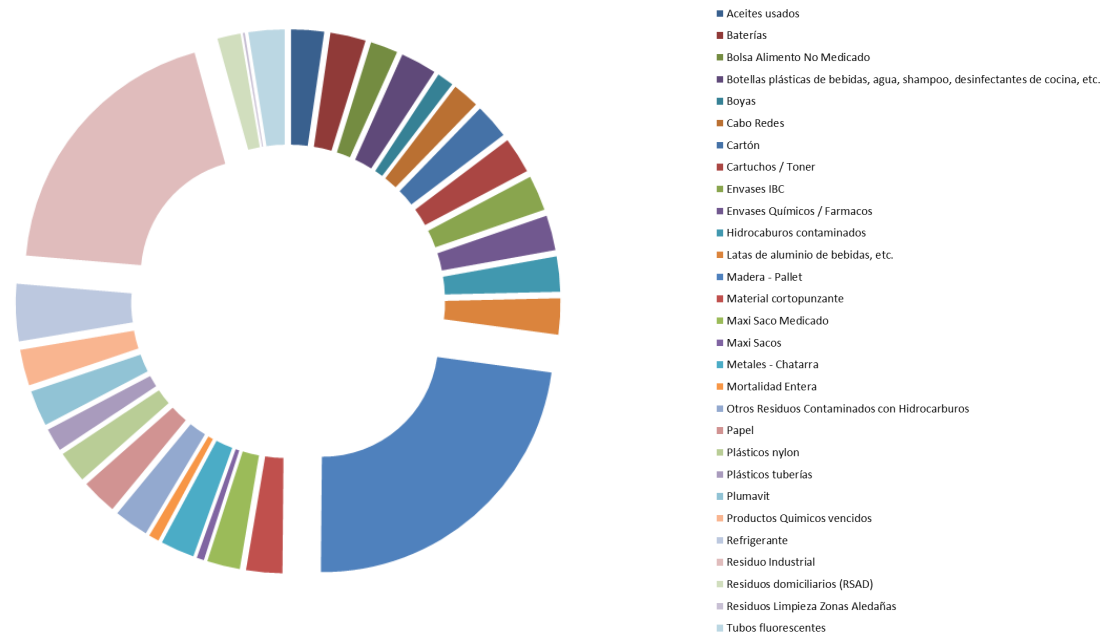
❖ 2018 Highlights

100% of 2018 Q4 harvests were ASC certified.



❖ 2018 Highlights

During 2018 **Salmones Camanchaca implemented an online waste characterization platform** to begin quantifying – in detail – the wastes it generates in its operations. The objective is to generate a baseline of information on wastes that may allow the implementation of recycling programs and innovations related to the circular economy. Since May 2018 we have quantified the generation of 41 different types of wastes, ranging from batteries to used cooking oil.

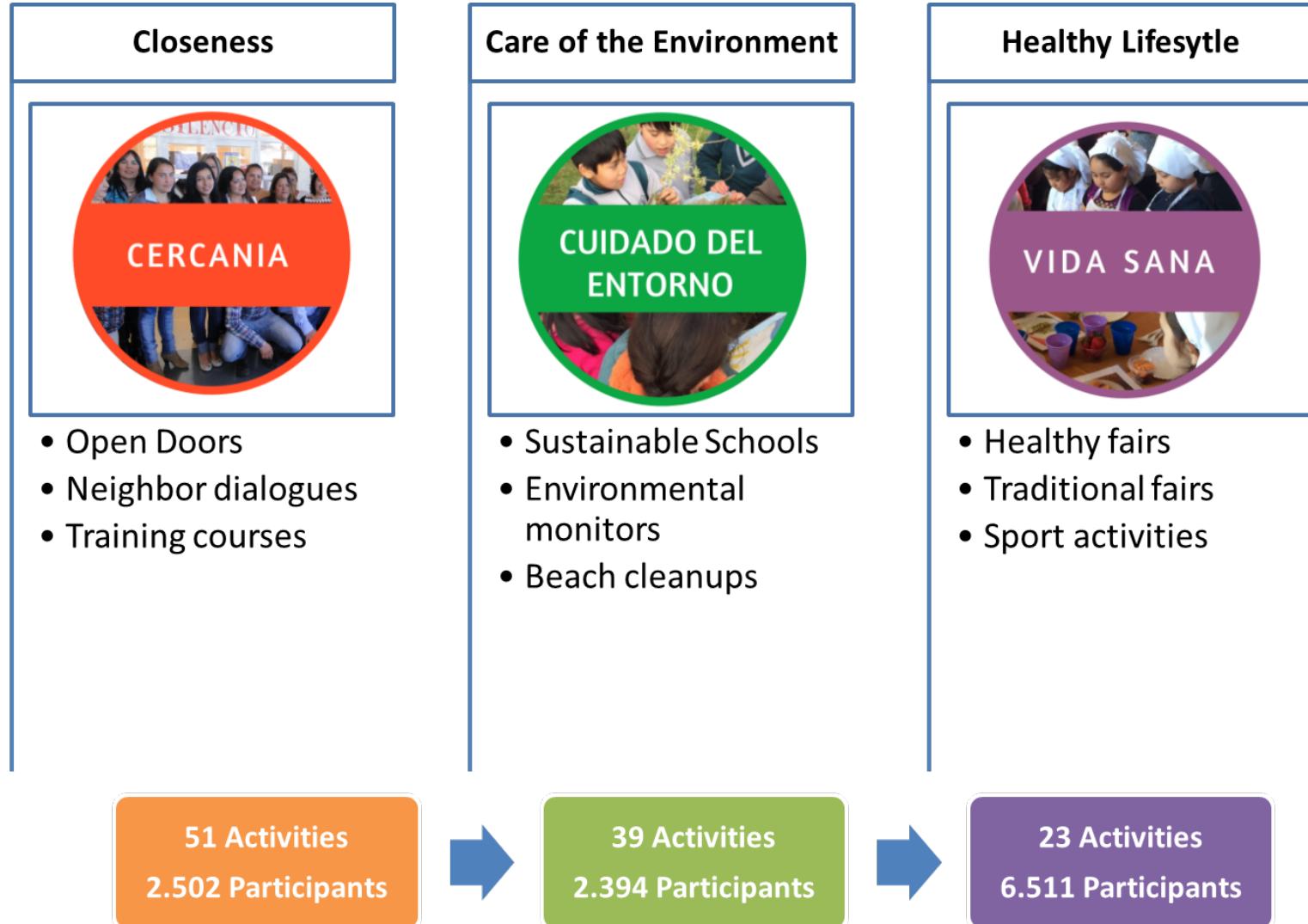


❖ 2018 Highlights

Camanchaca Amiga (i.e., Friendly Camanchaca) is Salmones Camanchaca's **community outreach program**, which was implemented in 2012 with the objective of building a bridge towards transparent, collaborative and sustained relationship with local communities in the areas the company operates. Throughout 2018, the program coordinated more than 100 activities in each of its 3 strategic pillars. "Closeness"; "Care of the Environment"; Healthy Lifestyle.

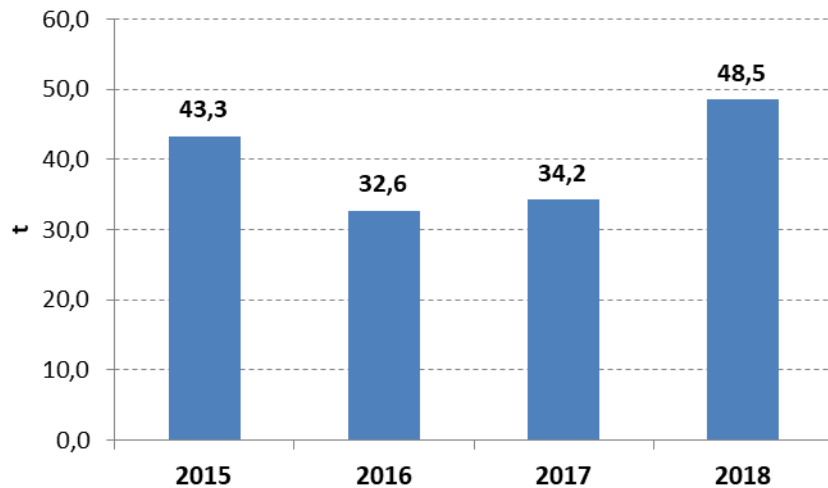


❖ 2018 Highlights

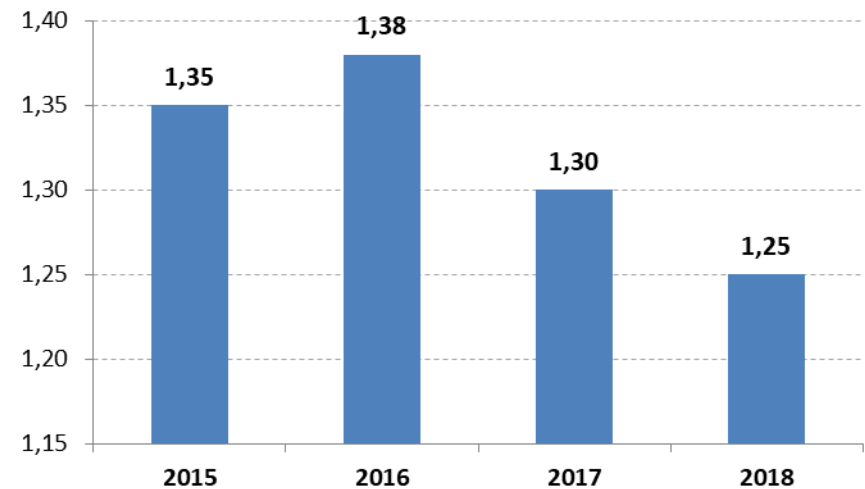


❖ Key Performance Indicators 2018

Atlantic Salmon Harvests

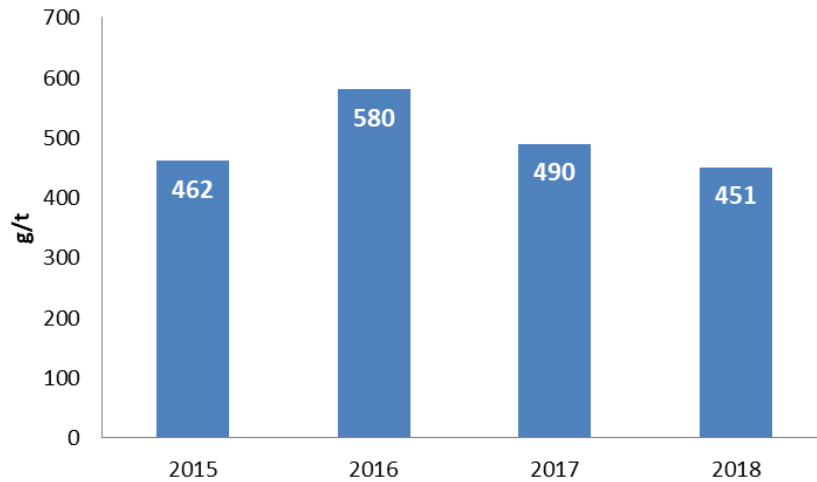


Biological Feed Conversion Ratio (FCRb)

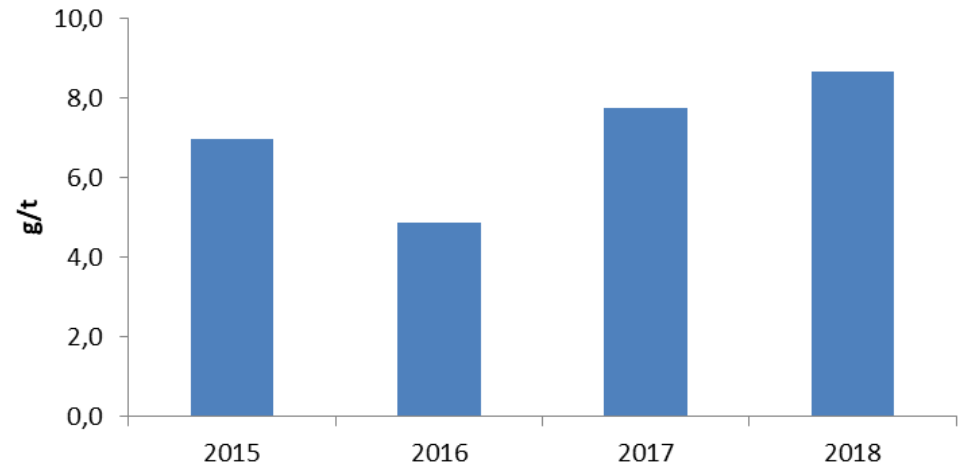


❖ Key Performance Indicators 2018

Use of Antibiotics
(grams per metric ton of biomass produced)

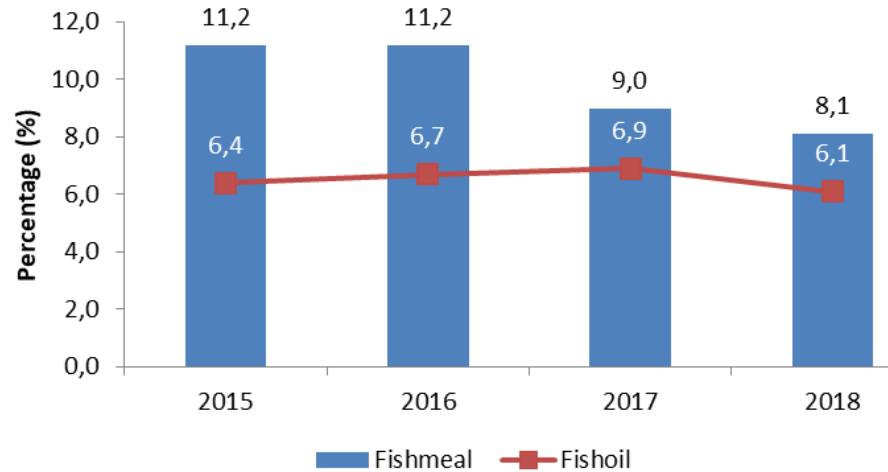


Use of Sealice Treatments
(grams per metric ton of biomass produced)

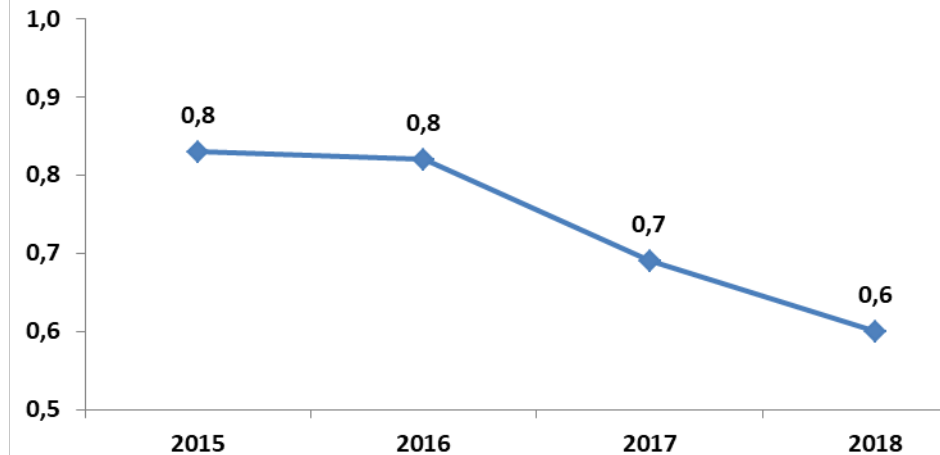


❖ Key Performance Indicators 2018

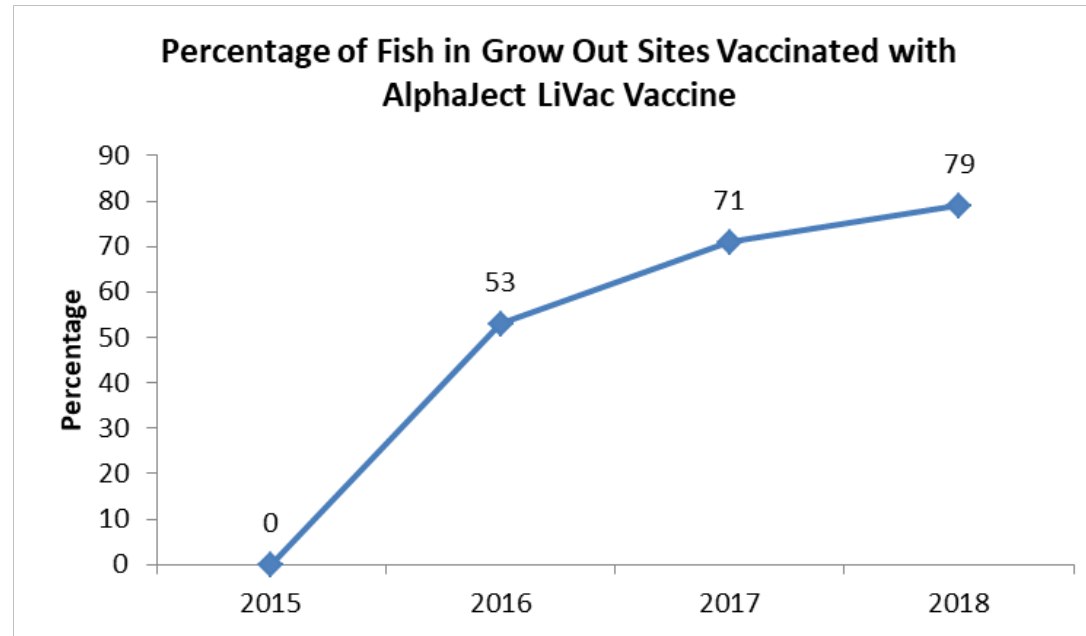
Fish Meal and Fish Oil in Fish Feed



Fish in : Fish Out Ratio



❖ Key Performance Indicators 2018



The **AlphaJect LiVac Vaccine** is a vaccine recently developed by the pharmaceutical company Pharmaq, recently acquired by Zoetis Animal Health. This vaccine – developed to combat SRS – uses a different technology to develop immunity in fish against SRS infection. Salmones Camanchaca is currently vaccinating 100% of its fish and will achieve 100% protection throughout 2019. SRS is the sole cause for the use of antibiotics in Salmones Camanchaca, and AlphaJect LiVac is expected to help further reduce the use of antibiotics.