



Dear F3 Friend and Supporter,

Summer is winding down but alternative ingredients are ramping up! Check out the latest updates from the F3 Team below.

F3 Challenge Carnivore Edition 3rd Sales Update - July 2022		
AWARD CATEGORY		
Salmonids	Shrimp	Other Carnivorous Species
TOTAL SALES		
213.97 mt	2,950.95 mt	19.62 mt
CURRENT LEADER		
Sas Milling Co. Scoular	EMPACRAN veramaris	DAINICHI Corporation

F3 Challenge

We are in the final leg of the F3 Challenge - Carnivore Edition and proud to announce that competitors have sold a combined total of over 3,185 metric tons of fish-free feed so far. An estimated 88 million forage fish have been saved from being fish food since contestants began reporting sales, according to our forage fish savings calculator! We hope to see you at the Global Seafood Alliance's [GOAL Conference](#) this October where we will announce our winners!

Check out our [latest news release!](#)

F3 Research

Research on alternative ingredients continues to grow as supply chain disruptions and increasing feed costs necessitate more optionality in feed formulations. The F3 Team has already published several articles this year demonstrating the effectiveness of alternatives in the diets of top aquaculture species. Stay tuned for more!

- Tran, L., Nhut, T.C., Alfrey, K.B., Barrows, F.T., Kuhn, D., McLean, E. (2022). Performance of Pacific whiteleg shrimp fed an open-source marine resource-free diet under commercial conditions. *International Journal of Fisheries and Aquatic Studies*, in press.
- McLean, E., Alfrey, K.B., Gatlin, D.M., Gaylord, T.G., Barrows, F.T. (2022). [Muscle amino acid profiles of eleven species of aquacultured animals and their potential value in feed formulation](#). *Aquaculture and Fisheries*.
 - [Optimizing efficiency and lowering aqua feed costs using the ideal protein concept](#), McLean et al., *Aquafeed Magazine*
- McLean, E., Alfrey, K.B., Gatlin, D.M., Barrows, F.T. (2022). [Responses of largemouth bass \(*Micropterus salmoides*, Lacépède, 1802\) to fishmeal-, and fish oil-free diets](#). *Aquaculture Research*, 53, 3036–3047. [Press release](#)
- Suehs, B.A., Alfrey, K.B., Barrows, F.T., Gatlin, D.M. (2022). [Evaluation of growth performance, condition indices and body composition of juvenile red drum \(*sciaenops ocellatus*\) fed fishmeal- and fish-oil-free diets](#). *Aquaculture*, 551, 737961.



F3 in the News

- [Sea bream 'fish-free' feed innovator maintains lead in sales contest](#), Jane Byrne, *Feed Navigator*
- [F3 aquafeed sales latest](#), *World Fishing and Aquaculture*
- [F3 Challenge - Carnivore Edition reports 88 million forage fish saved thus far by contestants in 3rd quarter sales results](#), *Aquaculture Asia Pacific*
- [F3 Challenge - Carnivore Edition contestants sell over 3.18 million kilograms of fish-free feed](#), *Seafood News*
- [F3 Challenge contestants save 88 million forage fish and counting](#), *Aquafeed*
- [Aquafeed prize saves 88 million fish and counting](#), *The Fish Site*
- [Fish-Free feed for largemouth bass is feasible and update on F3 Challenge Competitors](#), *Aquaculture Asia Pacific*
- [Inflationary global economy presents an opening for alternative aquafeeds](#), Mark Godfrey, *SeafoodSource*
- [F3, IFFO dispute availability, affordability, impact of fish-free feed](#), Mark Godfrey, *SeafoodSource*
- [Panel on synthetic biology: the future is more tailored](#), Emma Penrod, *Feed Strategy*
- [DeepMind's protein-folding AI cracks biology's biggest problem](#), Matthew Sparkes, *New Scientist*
- [Biology's cup runneth over](#), *New Scientist*

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