THE ALLTECH GLOBAL FEED SURVEY



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r Pierce Lyons enjoyed speaking to the press and it's an enjoyment that his son Dr Mark Lyons carried forward in late January when he presented the 2019 Alltech Global Feed Survey which he says "is the premier insight into the global feed industry." Dr Mark Lyons was presenting the figures for 2018,

the eighth annual survey carried out by the company, during an online press conference for journalists from around the world.

It was back in the early 1990s when Dr Pierce Lyons "started to talk to us about the amount of feed tonnage around the world," Dr Mark Lyon,s President and CEO of Alltech, remembered.

Speaking to the worldwide press from his company's headquarters in Kentucky, USA, Dr Mark Lyons recalled his father saying that "At some stage in the future there will be a billion tonnes of feed produced and that gave Alltech a sense of what was really possible. "He told us that if we could sell US\$1 into every tonne of feed we would be a billion-dollar company. That change the ambition and direction of our business, and as he always did, made us think bigger and bigger."

Now with the information the company has been able to gather over the past eight years, it has provided different insights. It shows changes in economic growth, changing production levels and changes within industries while identify new trends in the 144 countries surveyed, he says.

Dr Mark Lyons says the survey is now sought after as people



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2019 - Milling and Grain





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"dig a little bit deeper and add and compile their own information to extrapolate new finding.

"So this year, with our 8th annual global survey, we are able to show that we are beyond that one billion, at 1.1 billion tonnes of feed produced in 2018. This represents an estimated three percent increase over the previous year, similar to last year, with about 30,000 feed mills reporting.

"We reach out to our colleagues early in the year and touch base with them throughout the year, to get information from our feedmill customers, in over 144 countries. We are talking to feed associations and governments and what we find is that we have to create this estimate because the information received is calculated in so many different ways.

"And so, through that process, we come up with this

estimate that allows us to really think about the data in deeper ways."

Asia leads but faces challenges

Two years ago, the feed industry crossed the threshold of one billion tonnes and is expected to maintain an upward trajectory as the world's population continues to grow particularly the middle class, which is increasingly showing its interest in protein consumption.

In terms of regional production, Asia continues to lead the way with almost 400 million tonnes of feed. 36 percent of global feed with Europe representing a quarter, North America 18 percent, Latin America 18 percent, Africa four percent and Middle East just two percent.

"If we look for growth it is Africa that offers the greatest opportunity, which reflect the economic growth seen in this continent and in particular in countries such as Kenya and Tanzania and where VAT on feedstuffs has been removed.

"The poultry sector is really dominating what we are seeing in Asia," adds Dr Lyons.

China remains the major feed producer and has done so with 180-190 million tonnes annually for several years and maintained those levels in 2018.

"The major species in China is the pig and we are entering into the Year of the Pig. Forty-two percent of overall feed production in China is going to pigs. There is a lot of discussion around this right now with the outbreak of African Swine Fever. This will be a challenging and interesting year in the Chinese market.

"India, one of the fastest growers in feed production terms this year, is up 13 percent by our estimates, which is also reflected in the eight percent GDP growth that we see. It's a great market that is led by poultry. We also saw something interesting which surprised us. Petfood production in Asia grew 13 percent across a diverse number of countries. This is a new area we should be taking a look at."

A graphic highlights Asia's dominance shows that this region is the largest producer of aqua feeds, layer and poultry feeds and is also experiencing rapid growth in pet feed production, in the order of 13 percent in countries such as Indonesia, Taiwan, Thailand and Sri Lanka.

Some quick facts from the survey

- 1. The top eight countries produce 55 percent of the world's feed production
- 2. Vietnam saw an increase of nearly one million metric tons of aquaculture feed, contributing to the estimated six percent growth of the Asia-Pacific region's aquaculture feed production in 2018
- 3. Morocco saw the largest growth of any country in Africa thanks to the addition of two new feedmills as well as an extension to an existing feedmill late last year
- 4. Although not typically known for its pig production, India took a big leap in pig feed production in 2018. Why? The industry is trending toward more organised farming in areas like Kerala and Punjab, with new feed millers contributing to this growth
- 5. Where's the beef? Feed production for beef was stagnant this year. Not only that, but the third-largest producing region, Asia-Pacific, dropped enough to let Latin America step up and take the bronze
- 6. Southeast Asia's feed production represents over

Latin America

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Middle

East



Top 3 in 15	Production	Primary Species	Percent of Primary to Total
Beacil	68.7	Broller	46%
Mexico	34.0	Brailer	29%
Argentina	22.1	Dairy	26%
Celombia	8.2	Brailer .	31%
Peru	5.1	Broller	315
Chile	4.8	Pig	29%
Ecuador	2,7	Broiler	45%
Halti	2,4	Pip	34%

Feed Production for the Middle East



Asia-Pacific

Largest producer of Aquafeed Broiler · Other poultry

 Pet feed production grew 13%, primarily in Indonesia, Taiwan, Thailand and Sri Lanka

Europe

Largest producer of · Calf feed

The Netherlands

• Turkey feed:
-France
- Germany
- Italy
- Poland

Other ruminants feed Greeo Spain Turkey

Vietnam 13.6

China

Turkey





Top 8 in 18	Production	Primary Species	Percent of Primary to Total
Razosia	39.2	Pig	425
Spain	34.5	ng	48%
Turkey	25.5	Dairy	27%
Germany	23.0	Ng	39%
France	21.4	Pig	23%
UX.	18.4	Rection	31%
maly .	14.3	Pig	25%
Netherlands	13.7	Pig	37%

Africa

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Region with high finisher diet prices

 Morocco saw the gest growth Dairy, beef, laver and broiler all up Less than regio erage feed linisher costs

Regional Average for Finisher Diet Prices





21%



187.9

38.7

24.2

21,1

20.3

19.7

10

Layer

Biolle

Pic.

hig

425

34%

23%

35%

35%

13%

56%

11%



20 percent of the Asia-Pacific region's feed production. Indonesia, Vietnam, The Philippines and Thailand carry most of the weight and contribute to 93 percent of Southeast Asia's feed production.

- 7. Showing seven percent growth last year and 13 percent this year, India is clearly growing its feed production at a rapid clip, not just in one, but in all species! From aquafeed to goat grains, India's feed production increased across all 13 categories assessed
- The European Union (EU) countries contribute to more than 50 percent of all major species feed production in Europe (with the exception of aquafeed)
- 9. Norway is Europe's largest producer of aquafeed, contributing 45 percent of the region's total aquafeed production
- 10. Layer feed grew by four percent globally, indicating a growing need and continued interest in this efficient protein source
- 11. After years battling African Swine Fever, Estonia is back in the game, showing a more than three-fold increase in pig feed





production over last year

- 12. Eighty percent of European turkey feed production occurs in the EU
- 13. Higher costs of corn and soy reduced Brazil's broiler feed production by two percent eating away at the entire region's total and making Latin America the only region to see a decrease in broiler feed production
- 14. Dairy showed growth in all regions, indicating the ongoing affinity for this protein source
- 15. Africa's feed production grew the most of any region at five percent. Expected to have one of the fastest-growing populations, how will this region farm in the future? Will it embrace conventional farming or leapfrog other methods and embrace Agriculture 4.0?
- Turkey feed saw a big leap in Spain with an additional 300,000 tonnes of feed estimated in 2018
- 17. Pet feed reassessed: It turns out Europe is not the primary producer as originally thought! North America leads by about 200,000 tonens of feed, making it a close race. With a renewed focus on value rather than volume in the pet food sector, who will lead in 2019 and beyond?
- 18. Insect protein is working its way into aquaculture feed production
- 19. The North American regions continues its steady course of two percent growth; the biggest contributors to this increase were beef and broiler each at three percent

Alternative protein sources

Perhaps, someday, the advent of alternative proteins — such as lab-grown meats and plant proteins — will change the way we study the feed industry, Alltech says it is post conference press statement.

"These are the concepts that will alter the feed industry in the future, forever changing the way we produce our food. For now, however, the Alltech Global Feed Survey is a snapshot of the industry as it is today."