# **Nitech®** 2020 GLOBAL FEED SURVEY

## **Data Collected in a Two-Part Survey**



#### **Quantitative:** Numerical data collected

### **Qualitative:**

Short answer responses



## Quantitative Data

145 countries represented

13 species, including aqua, pets and equine Primary species represented: pigs, dairy, beef, layer and broiler Analysis evaluates country, regional and global trends





# THE RESULTS

Quantitative Data Analysis

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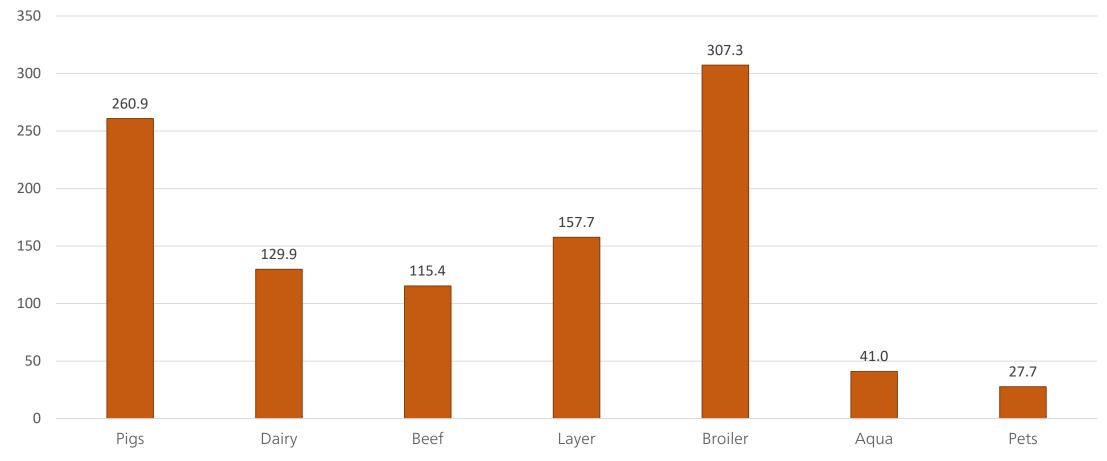
#### Global Feed Production Down 1%

Region	2018	2019	Percent Change
Africa	40.7	43.7	7.5%
Asia-Pacific	384.5	363.2	-5.5%
Europe	278.8	279.2	0.2%
Latin America	164.3	167.9	2.2%
Middle East	27.6	26.0	-5.8%
North America	232.2	236.0	1.6%
Oceania	10.7	10.5	-1.3%
TOTAL	1,138.2	1,126.5	-1.0%

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Numbers are in million metric tons

## **Feed Production by Species**





## Top 9 Countries of 2019

Country	Feed Production	Primary Species
USA	214.4	Beef, pig, broiler
China	167.9	Broiler, pig, layer
Brazil	70.4	Broiler, pig
Russia	40.5	Pig, broiler
India	39.0	Layer, broiler, dairy
Mexico	36.2	Broiler, layer, pig, dairy
Spain	34.8	Pigs, beef, dairy
Japan	25.3	Layer, pigs, beef
Germany	25.0	Pigs, beef



# SPECIES BY REGION





## **Pig Feed Production**

Region	2018 Pigs	2019 Pigs	Growth
Africa	1.1	1.4	29%
Asia-Pacific	125.4	93.3	-26%
Europe	80.1	79.5	-1%
Latin America	31.5	32.2	2%
Middle East	0.0	0.0	0%
North America	52.7	53.1	1%
Oceania	1.5	1.3	-7%

### Swine Feed Down 26% in Asia-Pacific

Country	2018 Pigs	2019 Pigs	Percent Decline
China	79.600	51.740	-35%
Vietnam	11.037	8.720	-21%
The Philippines	7.990	7.350	-8%
Japan	5.585	5.552	-1%
Thailand	6.640	5.549	-16%
Taiwan	3.080	3.017	-2%
Cambodia	0.900	0.700	-22%
Malaysia	0.700	0.680	-3%
Mongolia	0.028	0.027	-4%
Sri Lanka	0.008	0.005	-38%



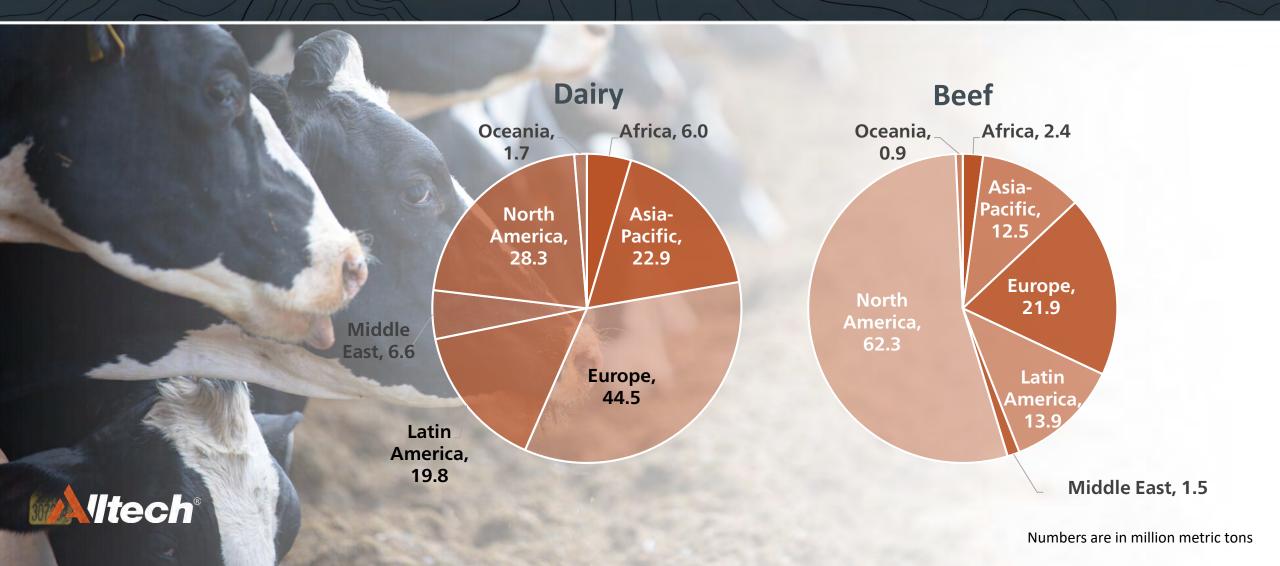


### **Poultry Feed Production**

Region	Layer	Broiler	Turkey	Other Poultry
Africa	5.7	10.0	0.6	0.2
Asia-Pacific	73.1	115.2	0.01	9.5
Europe	33.5	56.3	7.9	4.4
Latin America	24.0	61.8	0.3	0.1
Middle East	4.9	8.4	0.1	0.1
North America	15.5	51.8	9.8	0.2
Oceania	0.9	3.8	0.1	0.1

Numbers are in million metric tons

#### **Ruminant Feed Production**

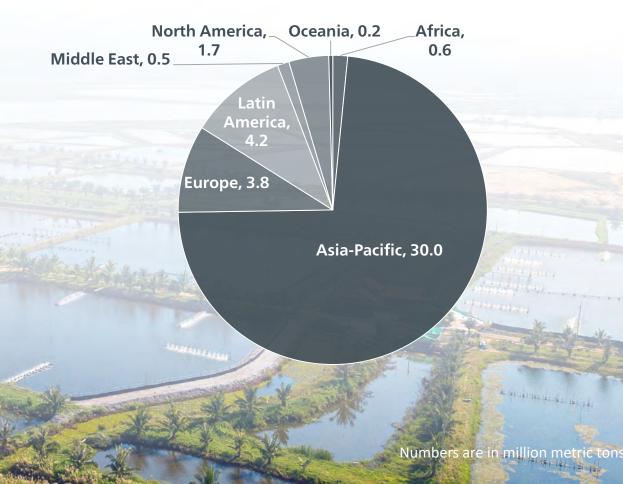


#### **Aquaculture Feed Production**

Per ton, Asia-Pacific grew the most with an additional 1.5 MMT. The primary contributors to this growth were China, Vietnam and Bangladesh.

Europe's decrease is in large part due to a decline in feed production in Russia, which is primarily due to an increase in imports.

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#### Pet Feed Production Up 4% Globally

The largest tonnage increases were seen in Asia-Pacific, Europe and Latin America.

By country, primary increases were seen in China, Indonesia, Portugal, Hungary, Ecuador and Argentina.

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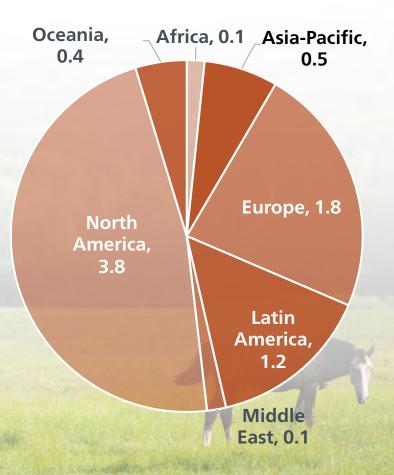
**Feed Production** Region Growth Africa 0.4 13% Asia-Pacific 3.1 10% 8.8 Europe 3% 6.0 7% Latin America Middle East 0.1 0% North America 8.8 0% Oceania 0.5 0%

#### **Equine Feed Production**

Globally, feed production estimations for the equine sector will remain relatively flat.

North America continues to produce almost half of all horse feed (47.5%).

Europe produces about 23%, with the other regions making up the remaining 28%.





# THE TRENDS

Insight Gained from the Qualitative Survey





### The Story Behind the Data

African swine fever

Changing consumer demands

**Geopolitical tensions** 

Government regulation

**Environment and sustainability** 

New technologies



### African Swine Fever



The Asia-Pacific region was significantly impacted

- Pig feed production down 26%
- Protein alternatives up: Layer (7%) and broiler (6%)
- Most affected countries: China, Cambodia, Vietnam, Thailand, the Philippines and Mongolia

Europe was also affected, primarily Estonia, Latvia, Lithuania, Romania, Ukraine, Bulgaria

• Pig prices up 20% in



### **Changing Consumer Demands**

#### Europe

Animal welfare and climate change concerns



Increase in vegetarianism and veganism

#### Latin America

Concern about GMOs Desire for antibioticfree



Interest in food procurement



#### **Geopolitical Tensions**

The U.S. lost much of its previous export routes to China; time will tell how much ground it can regain.

U.S.

The tiffs created positive opportunities for Latin America and Europe by reopening markets specifically for beef, poultry and swine.

China

### **Government Regulation**

#### **Asia-Pacific:**

China policies to support pig industry; heavy metal concerns in Malaysia, Bangladesh, Brunei, Indonesia and Singapore

#### **Europe:**

The Netherlands, Poland and Greece to reduce number of livestock

#### North America:

Canada has imposed carbon tax and the U.S. reduction in antibiotic growth promoters

#### Oceania:

New Zealand government issued new targets for emissions



### Environment and Sustainability

Drought spanning several regions:

 Australia, Chile, Ireland, the Netherlands, Romania, U.K., Morocco, South Africa, U.S., Canada and many others

Discussion around climate change has left many countries uncertain about potential impact or government regulation.



#### **New Technologies**

#### **EMERGING TRENDS:**

Monitoring and tracking programs

Drones and GPS to check pasture animals

Digital platforms/cow management

Robotic milking

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Big data and cloud computing

#### **ON THE HORIZON:**

Tech to increase biosecurity measures

Blockchain is expected to have significant impacts in the near future

Tech to reduce greenhouse gas emissions and enteric methane in cattle



#### Panel Recording, Slide and Data Map

Available at <u>alltechfeedsurvey.com</u>

Media Requests Please contact press@alltech.com

#### **Further Questions**

Please contact Alexa Potocki (apotocki@Alltech.com)



### THE **Altech**<sup>®</sup> IDEAS CONFERENCE MAY 17-19, 2020 | LEXINGTON, KY, USA

## Changes in 2019 evaluations

- As part of our continuous effort to improve the precision of our data, we made a change to this year's analysis that impacts previous results:
- The Oceania region was separated from Asia-Pacific to reflect a more widely accepted regional analysis.
- Calculations for U.S. poultry and ruminant were adjusted to reflect the required feed production more accurately. Estimations from 2018 were adjusted using the same calculation for consistency and accurate comparison.
- Any questions regarding the data may be directed to Alexa Potocki at <u>apotocki@alltech.com</u>

