

## Current Market Status at January 2019

### Canada

Legally approved for use in Salmonid and poultry feed in 2016.

### USA

Legislative bodies at state and national levels are changing legislation quickly in favour of insect meal and substrate use. Low government funding but high government attention to put enabling legislation in place (FDA approval for insects in salmonid feed in 2016; recommendation for inclusion in poultry feed in 2018).

### France

Aims to become leading world supplier of protein by 2030 with an agreement signed between government and industry in 2016. Protein France industry consortium boosting investment into research, innovation and scale up on animal and vegetable and 'future' proteins such as microalgae and insects. French supermarket Auchan launched insect-fed trout in 52 of its supermarkets in northern France (December 2018).

### Netherlands

- Government & Venik (Dutch Association of Insect Producers) signed Green Deal B92, a joint effort in lobbying and designing a framework for market approval for insect production at scale for feed & food applications.
- Permitted niche products such as insect lipid for piglet feed, proteins for hypoallergenic pet food and live larvae for egg producing chickens.

### South Africa

Insect based poultry and aquaculture feed approved.

### UK and Europe

- Regulation No 2017/893, May 2017 authorised the use of insect proteins (processed animal proteins [PAP]) originating from seven insect species (including BSF) in feed for aquaculture animals. Only feedstuffs currently approved for animal feed are permitted for insect rearing i.e. pre-consumer agri-food residues known as 'former food products' including out of specification food, potato chips or breakfast cereals; leftover dough and liquid chocolate, surplus bread collected from retailers and bakeries.
- Insect derived oil/fats can legally be used in any livestock feed, but retailers restrict the use of tallow, fat and lard. There is a lack of legislation and regulatory alignment.
- Bio-fertilisers derived from insect rearing; with AVLA approval would fall within the existing framework permitting land spreading of compost, AD and sewage sludge.

### Europe

In 2013 the European Commission funded a €3 million project evaluating insects as a novel source of protein for animal feed - PROteINSECT.