Request for Applications

Canadian Feed Statistics - Livestock Consumption Patterns
Animal Nutrition Association of Canada Student Project

Background
The Animal Nutrition Association of Canada (ANAC) is the national trade association of the livestock and poultry feed industry. Our 165 members include feed and ingredient manufacturers and distributors, as well as suppliers of a wide range of goods and services to the feed industry. Taken together, ANAC’s membership represents 90 percent of commercial feed manufactured in Canada.

The association is often asked for information regarding the size of the industry, in particular feed consumption by region, by species, and the key agricultural crops used for feed. In 2015, ANAC commissioned a project to produce up-to-date Canadian feed production estimates based on total demand - the amount of feed consumed by the number of animals marketed (domestically and for export). The results of this study continue to be the most current feed statistics used by the association.

As an industry association, having reliable and current statistics on total animal feed consumption is a fundamental metric to describe our industry.

Scope of Work
ANAC is seeking an individual to develop a model or process that can be easily updated to produce feed industry statistics on an annual basis. This model or process will be linked with the livestock and agricultural production statistics that Agriculture and Agri-food Canada (AAFC) regularly publishes and will enable us to obtain a current picture of animal feed consumption patterns in Canada.

The data will be broken down by species as follows:

- Total monogastrics complete feed
  - Broiler chickens (including hatching egg feed requirement) based on breeder standards
  - Table egg production (as for broilers)
  - Turkey meat (as for broilers)
  - Pork production, including breeding stock feed intake and 120kg market
- Ruminants (expressed as Dry matter intake (DMI/yr of): Concentrate (i.e., grain, premix, protein) and Total (including forage, silage, etc.))
- Total Beef & Dairy
  - Beef - bulls
  - Beef - cows
  - Beef heifers and steers marketed for meat
  - Calves (dairy and beef)
  - Replacement heifers (beef)
  - Replacement heifers (dairy)
  - Dairy cows
- Total manufactured feed or grain concentrate
There should also be a provincial breakdown of feed consumption by each species.

A breakdown of the usage of key agricultural crops, recorded by AAFC, by species must also be included. In the past, this has included: wheat, oat, barley, other small grains, corn, dry peas, soybean meal, canola meal, distillers’ dried grains (DDGs).

The work will be done as outlined by ANAC, and the draft will be reviewed by ANAC staff before final delivery.

**Deliverables**
The final product should be in the form of an Excel file or other tabular format whereby AAFC animal inventory data can be updated as they are published and the data for a given year including species, feed crop, or province can be inputted. Clear instructions on how to generate or update the data annually should be provided.

**Candidate Requirements**
- Must be enrolled in an undergraduate or graduate program in Animal or Agricultural Science or related field at a Canadian university
- General knowledge of animal feeding for different species
- Excellent background in statistics, preferably agricultural statistics
- Ability to manipulate complex data sets to create clear conclusions
- Proficient in using Excel or other spreadsheets
- Ability to work independently with minimal supervision

**Estimated Timeline**
Beginning in the fall 2020, completed by January 2021

**Estimated Renumeration**
$4,000

**Applications**
All interested applicants are encouraged to apply by **September 18, 2020**. Please email the following documents to Sarah Hopkins (shopkins@anacan.org).
- Cover letter detailing how you meet the candidate requirements
- Resume
- Letter of recommendation from your advisor (optional)