

Tameus
Project meeting
Friday October 21, 2011, 10:00 - 17:00
Minutes

Participants: Böhlen, Bracher, Cafagna, Taliun

Agenda

- 10:00 - 12:15 Meeting of Böhlen, Bracher, Cafagna and Taliun.
- 12:15 - 13:15 Lunch at "Not Guilty".
- 13:15 - 14:15 Meeting on Data Import. Bracher, Cafagna and Taliun.
- 14:15 - 15:15 Meeting on Student Projects. Participants: Bracher, Cafagna and Taliun.
- 15:15 - 16:30 Meeting on Data Quality. Participants: Bracher, Cafagna and Taliun.

Development of the Temporal Feed Database

- Import of the Lims data that is without the geographical information:
 - most of the import is done;
 - the list of nutrients become very long (690) that makes it hard to select nutrients while querying;
 - it is hard for the user to find out which nutrients are present in the data with spatial information.
- Import the data from the non-temporal database:
 - tables 'Species', 'CompProfiles' and 'ComponentGroups' that contain extended nutrient list, nutrients groups and animal species are imported;
 - import of tables 'FeedComponents' (pre-aggregated nutrient measurements) and 'FeedGroup' (different groups of animal feeds) will be finished in one week.

Development of the Temporal Feed Database

- Two on-line applications to maintenance the data are implemented:
 - data import from the Lims files;
 - update, insert and deletion of individual samples, feeds, measurements, quality parameters and specie.
 - It is also possible to update data by tuples using the PgAdmin.
- New issues:
 - possibility to modify the schema of the database . For example, Annelies would like to add new attributes to existing dimensions.
 - we currently run out of the disk space. In a worst case, that will be fixed in a couple of months.

Student Projects

- We have 6 new student projects from which 3 are already assigned:
 - Visualization of the Spatial Feed Data with Color Plots;
 - Queries on local feed quality;
 - Embedding of customized information as background to Google maps – case study with animal density information;
 - students: Christian Bosshard and Michael Enz;
 - Clustering of Amino Acids Profiles.
 - students: Samuele Zoppi;
 - Online calculation of the energy and nutritive value of feedstuffs for pigs;
 - Advance search on the spatial information.
 - students: Andras Heé and Basil Philipp.

Student Projects

- Current setup:
 - students access the database from-read only accounts;
 - instructions on how to connect to the database from various environments and confidentiality agreement are online;
- Missing setup:
 - description of the database schema;
 - description of the web application and its source code;
 - instruction on how to compile and run web-application;

Master Project on Data Quality

- The list of criteria prepared by Annelies mentions crucial points which fall into one of the two classes:
 - statistical properties of the data:
 - percentage of missing values at various aggregation levels;
 - entropy.
 - how good the data model describes the real world:
 - accurate feed categories;
 - declaration of chemical-analyses methods;
 - declaration of calculations and formulas;
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- The Goal: come up with a project description that defines the target criteria and gives the idea for students how to integrate it into the database.

Other Issues

- External feedback: which are impression of employers of Agroscope?
- Permission to make web application on spatial data public;

Plan for Meetings

- FR 18.11 10-17, ifi uzh
- FR 16.12 10-17, ifi uzh
- FR 20.1 10-17, ifi uzh, 1st Tameus workshop
- FR 17.2, 10-17, ALP Posieux