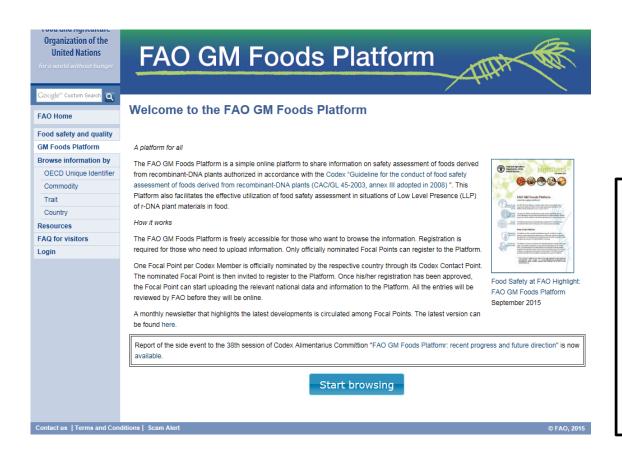
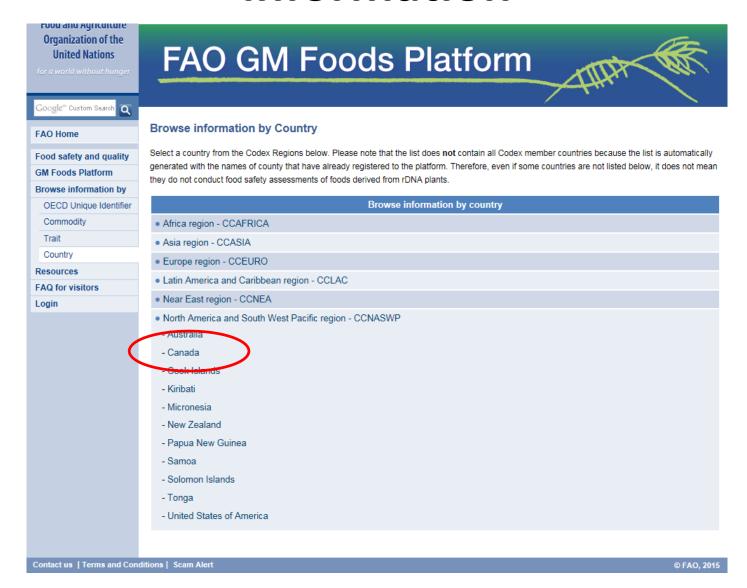
## Effective use of data on the FAO GM Foods Platform: Canada



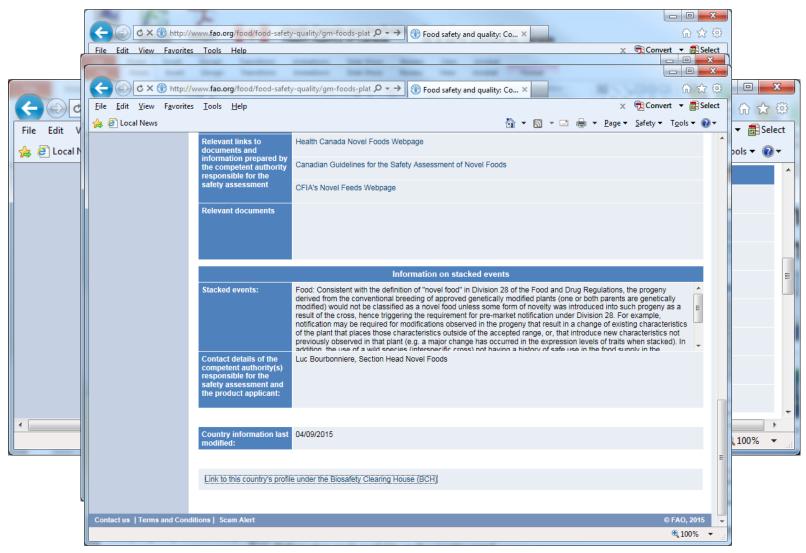


- Luc Bourbonnière
- Section Head
- Health Canada
- Canada

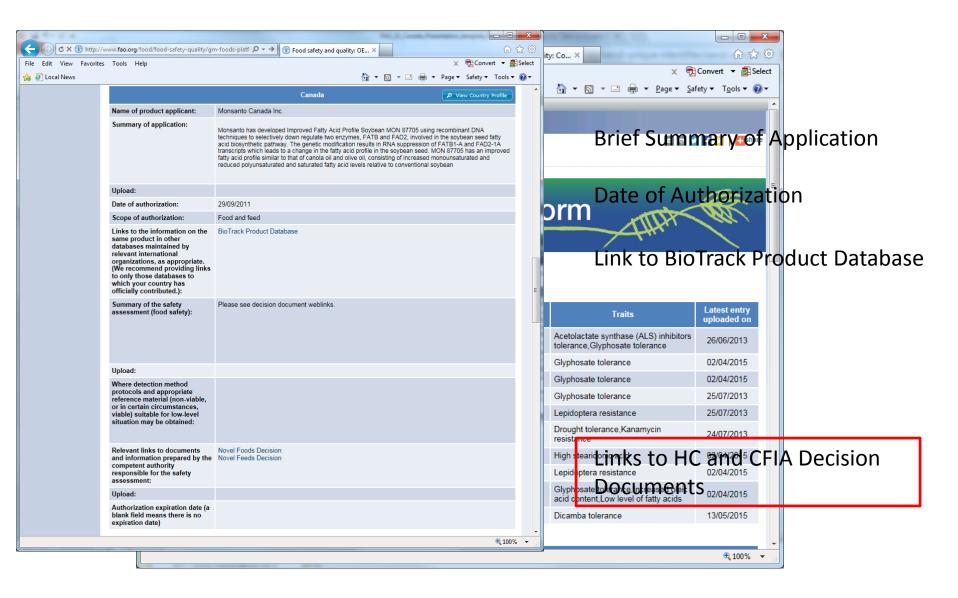
### The way how to find the country information



### Available information/data on Canada's page

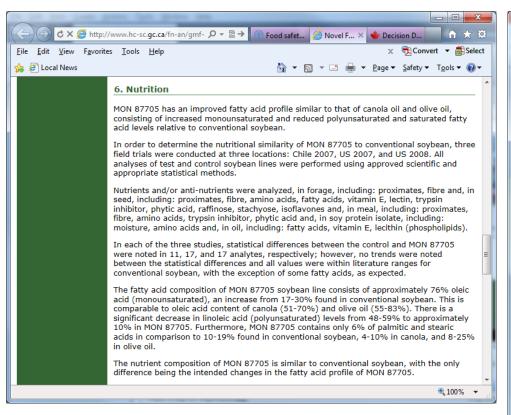


### Example: MON-877Ø5-6



# Novel Food and Novel Feed Decision Documents for MON-877Ø5-6

Novel Food Novel Feed



C × ♦ http://www.inspection.gc.ca/plants/plants- P → 🖺 → 📗 Food safety a... 🤗 Novel Food I... 📤 🎒 Local News ↑ N v □ ♠ v Page v Safety v Tools v 0 1. Potential Impact of Soybean Event MON 87705 on Livestock Nutrition **Nutrient and Anti-nutrient Composition** The nutritional equivalence of soybean event MON 87705 to the unmodified control was determined from data of replicated field sites in Chile and the US during the 2007 and 2008 growing seasons. At each field site soybean event MON 87705, the unmodified control and 20 conventional soybean varieties were planted. Forage and seed samples were collected and analysed for proximate and fibre and seed samples were further analysed for amino acids, fatty acids, vitamin E, isoflavones (diadzein, genistein and glycitein) and anti-nutrients (lectin, phytic acid, trypsin inhibitor, raffinose and stachyose). In separate US trials conducted with soybean event MON 87705, the unmodified control and 12 conventional soybean varieties, seed samples were processed and analysed for proximate and fibre, amino acids, trypsin inhibitor, phytic acids (meal), fatty acids, vitamin E (refined oil) amino acids and moisture (protein isolates) and phophatides (crude lecithin). No statistically significant differences were observed between soybean event MON 87705 and the unmodified control forage for proximates, acid detergent fibre (ADF) and neutral detergent fibre (NDF). In the Chilean trial, ash in forage was significantly higher in soybean event MON 87705 than in the unmodified control, but the means were within the range of the conventional soybean varieties, Protein (US), fat, arginine lysine, aspartic acid, cystine, leucine, proline, serine methionine and threonine values in seed (US or Chile) were significantly different in soybean event MON 87705 compared to the unmodified control; however all means were within the range of the conventional sovbean varieties and literature values. Soybean event MON 87705 was developed to have lower levels of saturated fatty acids (16:0 palmitic acid and 18:0 stearic acid) and higher levels of 18:1 oleic acid, with an associated decrease in 18:2 linoleic acid). As intended, soybean event MON 87705 seed had significantly lower palmitic (2.3% vs 10.8%) and stearic acid levels (3.3% vs 4.5%), higher oleic acid levels (76% vs 23%) and lower linoleic acid levels (10% vs 53%) compared to the control. Differences in these four fatty acids were consistently observed at each of the individual sites in both trials. Stearic acid in sovbean event MON 87705 seed, however, was with the range of conventional soybean varieties, while the other three fatty acids, were outside the range of the conventional soybean varieties. As expected, 18:0 linolenic acid was significantly lower in soybean event MON 87705 compared to the unmodified control seed, but the mean was within the range of the conventional soybean varieties. Arachidic and behenic acids were significantly lower in soybean event MON 87705 compared to the unmodified control while eicosenoic acid was higher in soybean event MON 87705 than in the unmodified control seed; however all mean values were within the range of conventional soybean varieties and/or literature values. No statistically significant differences were found between soybean event MON 87705 and the unmodified control for vitamin E, glycitein, diadzein genistein, lectin (Chile), phytic acid, raffinose, stachyose and trypsin inhibitor. With regards to co-products, statistically significant differences were observed between soybean event MON 87705 and the unmodified control soybean meal for NDF, alanine, glycine, isoleucine, lysine and valine but the means were within the range of the conventional soybean varieties and/or literature values. In soybean event MON 87705 oil, the levels of palmitic, stearic, oleic and linoleic acids were comparable to the levels and the trend observed in the seed. No statistically significant differences were observed between soybean event MON 87705 and the unmodified control for the amino acids in the protein isolate fraction. All phosphatides in crude lecithin were similar for soybean event MON 87705 and the unmodified control. ₫ 100% ▼

#### Effective use of the data in Canada

 In the event of a Low Level Presence (LLP) issue in Canada, the Platform could serve as a potential resource to review safety assessments conducted by other countries (including origin of LLP source)

 The platform is a source of intelligence for GM events that may not have approval in Canada (Events for Canada to observe)

### Insights/tips on the effective use of the data on the database for people outside

 For countries facing a Low Level Presence (LLP) issue, the Platform serves as a resource to review safety assessments conducted by other countries (including origin of LLP source)

 Database provides countries a venue to place their regulatory decisions online, facilitating easier comparison of decisions/approvals between countries