

The Role of the DAFM in the Regulation of GMOs in Ireland

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An Roinn
**Talmhaíochta,
Bia agus Mara**

Agriculture in Ireland

- Land Area: 6.9m ha
- 63% in Agriculture + 10% in Forestry
- Area Farmed = 4.5m ha
- Number of Holdings = 140,000
- Average Farm Size = 32 ha
- Mainly Pasture – 80% of feed is derived from pasture/conserved grass/maize

Livestock and Crops

- In 2012

- Number of Cattle = 6.2 Million
- Number of Sheep = 3.6 Million
- Number of Pigs = 1.4 Million
- Number of Horses/Ponies = 106,000
- Poultry 11 Million (2.2m laying hens)
- Area Under Crops 365,000 ha (9%)

The Role of the DAFM in the Regulation of GMOs in Ireland

1. Control of commercial cultivation of authorised GM crops, including seed
2. Coexistence of GM and Non-GM crops
3. Control of Imports of GM Feed

Marketing of GMOs

- Only EU-authorised events may be cultivated and marketed
- Authorised under Regulation 1829/2003
- Subject to Risk Assessment for Food and Feed Safety and Environmental Impact
- Threshold of 0.9% adventitious presence applies to Non-GM Food and Feed
- Zero tolerance for unauthorised events except under Reg 619/2011 – 0.1% (Organic)



Coexistence of GM and Non-GM Crops

Inter-Agency Working Group Report 2005

Main recommendations

- Pre-approval from DAFM to plant GM crop
- Mandatory separation distances + Rotation
- Organic + 50%
- Compliance inspection process by DAFM

Coexistence of GM and Non-GM Crops

Main recommendations (contd)

- Register showing crop, area, location
- Grower records
- GM-Free zone for certain crops if necessary
- Compensation/Appeals mechanism
- National legislation + regular revision

Authorisation for Food and Feed

(a) Food and food ingredients containing, consisting of, or produced from 'GM-XXX'

(b) Feed containing, consisting of, or produced from 'GM-XXX'

(c) 'GM-XXX' in products containing it, or consisting of it, for any other use than (a) and (b) with the exception of cultivation

Controls on Imports

- Ireland's island status facilitates strict controls
- Importer must give 5 day pre-import notice of feed to DAFM
- All imports are subject to inspection at the ports/airports – documentary, identity or physical checks (Customs and DAFM)
- Close co-operation with NI Authorities



GMO Controls in Feed

- Importer must declare GM status of consignment – 5 day pre-import notification to DAFM / Labelled as GM
- > 95% of SB, Maize, Rapeseed meal from N & S America are declared as GM
- 'At risk' commodities declared as Non-GM are sampled and tested in Accredited Laboratory before release to market

GMO Controls in Feed

- 'At-risk' feed materials: – Maize, Soyabean, OSR, Beet Pulp, Cotton
- All 'At-risk' consignments labelled as non-GM are tested + others under Reg 669/2011
- Tests under Regulation 619/2011 (0.1% LLP) may be from GM or non-GM lots
- Feed materials from EU or non-GM 3rd countries are not considered as 'at-risk'

Animal Feed

Total Feed 4.3m tonnes annually

Of which:

- Imports = 2.8m tonnes (65%)
- Home Grown = 1.5m tonnes (35%)
- 2.2m tonnes of home-grown cereals/annum
- 600,000t Used on-farm (900,000t for CF)
- 3.7m tonnes of compound feed

Compound Feed Use in Ireland

Of the 3.7m tonnes of CF marketed:

- Ruminant – 66%;
- Pig – 16%
- Poultry – 12%
- Others – 6%
- 65% Imported. (UK 37%; Fr 27%; De 26%)
- EU is 35% deficient in protein feed



Maize Imports in 2012

| | EU | USA | Canada |
|---------------------------------------|------|-----|--------|
| Maize Grain 384,286t | 100% | | |
| MGF 95,921t | 38% | 62% | |
| DDGs 158,102t | 72% | 23% | 5% |



Soyabean Imports 2012 (%)

| | EU | Argentina | Canada | USA |
|---------------------------------------|-----------|-----------|-----------|-----------|
| Soyabean 15,426t | 18 | 21 | 32 | 28 |
| SB Hulls 377,157t | 6 | 84 | 0 | 10 |
| SB Meal 77,720t | 4 | 87 | 0 | 9 |
| SB Meal DeH 205,133t | 0 | 85 | 0 | 15 |

OSR Imports 2012

| | EU (+ Russia) | Argentina | Canada |
|---|-------------------------------|----------------------------|------------------------------|
| Rapeseed Ext (Meal) 260,930t | 82% 214,135t | 2% 5,492t | 16% 41,303t |
| Rapeseed 10,350t | 100% | 0 | 0 |



Commodity Imports 2010 (t)

- Maize: 778,624 (DDG, MGF, M Grain)
- Soybean: 561,668 (Whole/meal)
- Wheat: 334,776
- Citrus Pulp: 288,856
- Rapeseed: 263,049
- Barley: 220,783
- Sugar Cane: 130,930 (molasses)
- Beet Pulp: 74,057 (+ molasses)
- Sunflower: 74,235 (seed extracted)
- Palm Kernel: 73,000 (expeller) (Indon/Malay)



Feed Imports

- ❖ Total Imports 2.8m tonnes
 - Non-EU (3rd country): 1.5m tonnes (54%)
 - USA; Arg; Bra; Can; Ukr; Asia (1.4m t)
 - Soybean, DDGs, MGF, Citrus Pulp, OSR, PKE
 - EU-28: 1.3m tonnes (46%)
 - France; UK; NI; De: 1m tonnes
 - - Wheat, Barley, Maize, OSR

Imports from 3rd Countries

Imports from Third Countries as a % of total imports

| | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 |
|-------------|------|------|------|------|------|------|------|
| DDGs | 28 | 84 | 80 | 74 | 98 | 100 | 99 |
| Maize Grain | 23 | 53 | 22 | 0 | 42 | 59 | 0 |
| MGF | 79 | 100 | 98 | 87 | 96 | 96 | 98 |
| Rapeseed | 20 | 32 | 19 | 2 | 7 | 10 | 0 |
| Soyabean | 90 | 100 | 100 | 100 | 98 | 99 | 98 |

Commodity Origin

- USA: DDG; MGF; SB; CP; SCM; BP
- Argentina: Soyabean; Citrus Pulp
- Brazil: Citrus Pulp; Soyabean; Maize
- Canada: Canola (Ex); MGF; DDG
- France: Maize; RSE; Sunflower SE; DDG
- UK: Wheat; Barley; DDG; Beet Pulp
- NL: Wheat; Rapeseed Extracted
- Germany: RSE; Wheat
- Asia: Palm Kernel Extracted

Thank You

