Comments on
Public Consultation on the Draft Agriculture, Forest and Seafood Climate Change Sectoral Adaptation Plan.

We have assessed the impacts of climate change in some priority thematic areas of cattle farming in Ireland. The first stage of our economic model suggest the following numerical results on the supply side of the market.

![Supply curve (number of cattle/year)]

We applied many parameters and assumptions, results are subject to these model variables. Even though there are many indirect impacts, our model studies the primary impacts in this phase.

The base case of the supply curve is indicated on the graph. Following comments are results of changes from the curve.

Source: numericalmodels.eu

NB: Price reflects the production of meat, milk and other products.

Lifestock

Climate conditions may cause an increased rate of lifestock mortality. A change of +1% in the mortality rate generates -1.3% change in production, assuming a flat rate of weighted average cost of capital. Obviously the least efficient producers will have to reduce their production, or reduce their level of WACC.

Machinery, equipment and buildings

Climate conditions may damage or may raise the depreciation rate of buildings and equipment. A 10% raise of depreciation and amortisation of machinery, equipment and buildings reduces production by 0.3%.

Price change

A 5% price reduction in cattle farming based wholesale products generate a -0.6% change in the volume of production on supply side. This result excludes the impact of change in consumption habits, which is subject of a separate study.

We hope that these comments support achieving the objectives of this consultation. If you are interested, please do not hesitate to contact us.

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