

Country: SE + ES + IE

Schools: Globala gymnasiet, St Vincent's Castleknock College and José Saramago instituto de Ensenanza Secundaria

Software: GeoGebra

Subject: Biology/Chemistry

Topic: Pesticides

Participating teachers:

Sweden: Cecilia Dudas cecilia.dudas@stockholm.se
Lars Mårdsjö lars.mardsjo@stockholm.se

Spain: Antonio García Palacios concanus@gmail.com
Sonsoles de la Vina Ferrer sonsolesdelavina@gmail.com

Ireland: James O'Loughlin james.oloughlin@gmail.com

Participating students:

Spain: 6 girls

Urgel Granados, Andrea
Jiménez Gómez, Pilar
Nieto Galende, Judit
De Castro Nuere, Naiara
Suarez Santamaría, Paula
Céspedes Izquierdo, Violeta

2 Boys:

Franco Pérez, Alejandro
Ruiz-Tapiador Bartolomé, Juan

Sweden: 5 girls

Pierrou, Clara
Regnell, Aline
Gagner, Isabella
Ringqvist, Anna
Lindfors, Kajsa

Ireland: 5 Boys

Bilal Munir
Adam Neville
Albert Samulski
Matthew Tallon
Luke Newcombe

Cooperation duration: 18.11 - 2013 – 5.3. - 2014

Theory: Linear regression, data analysis, pesticides. Data analysed with GeoGebra or Excel and graphs presented.

Examples: Presence of pesticides in food, progress in the last 10 years. A comparison between the 3 countries.

Results: Presence of pesticides in vegetables.

Sweden: Pesticides in potatoes over a 10 year period

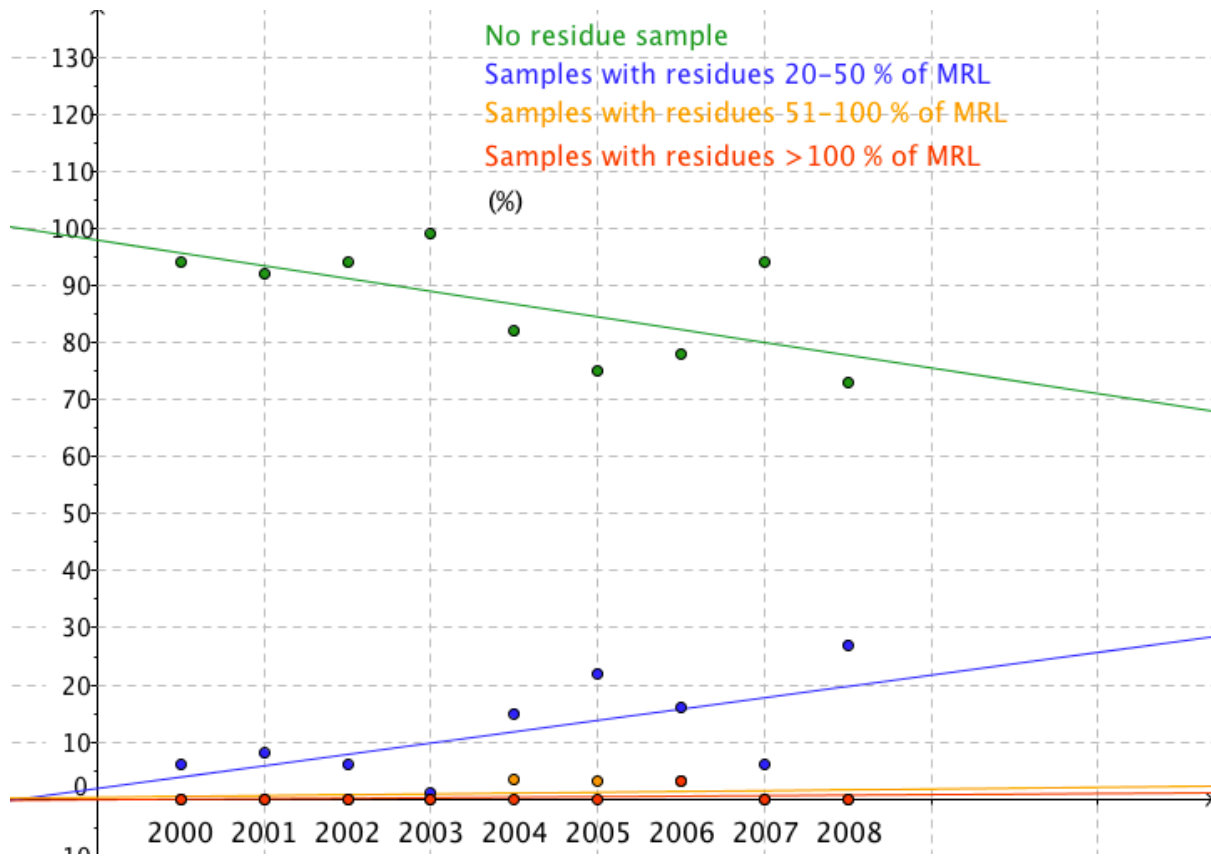


Fig. 1 Number of samples with residues of pesticides, in potatoes grown in Sweden, over a 10 year period.

Swedish students analysed the data with GeoGebra. One of the conclusions from the swedish team is that less than 5 percent of the potatoes have high amounts (over 100 % of MRL) of pesticides.

Spain: Pesticides in all vegetables and fruits grown in Spain over a 10 year period.

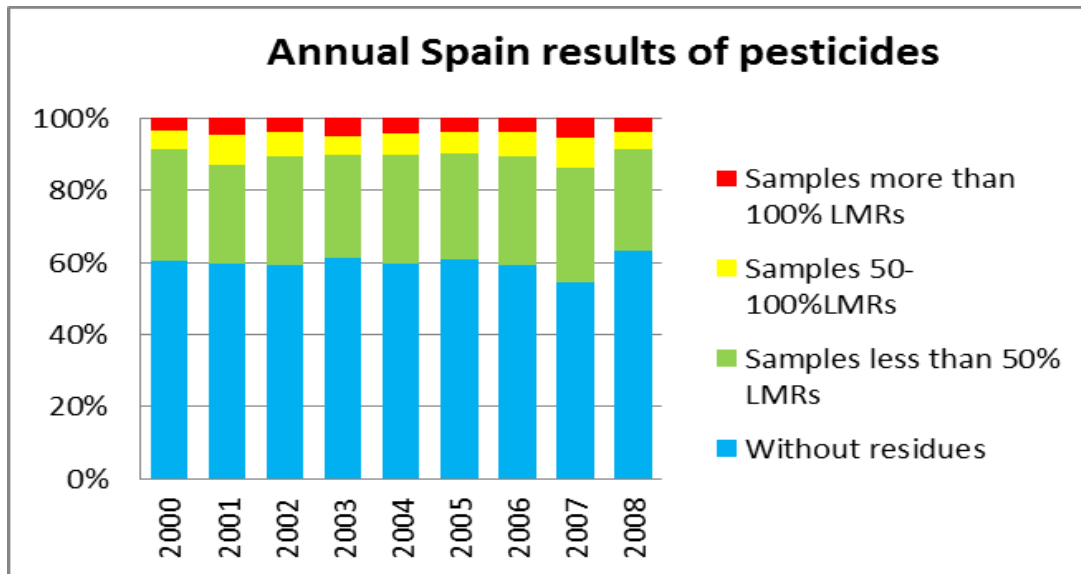


Figure 2 : Spain's Annual results on pesticides. (Total Samples, Excel)

Ireland: Pesticides in Potatoes over a 10 year period

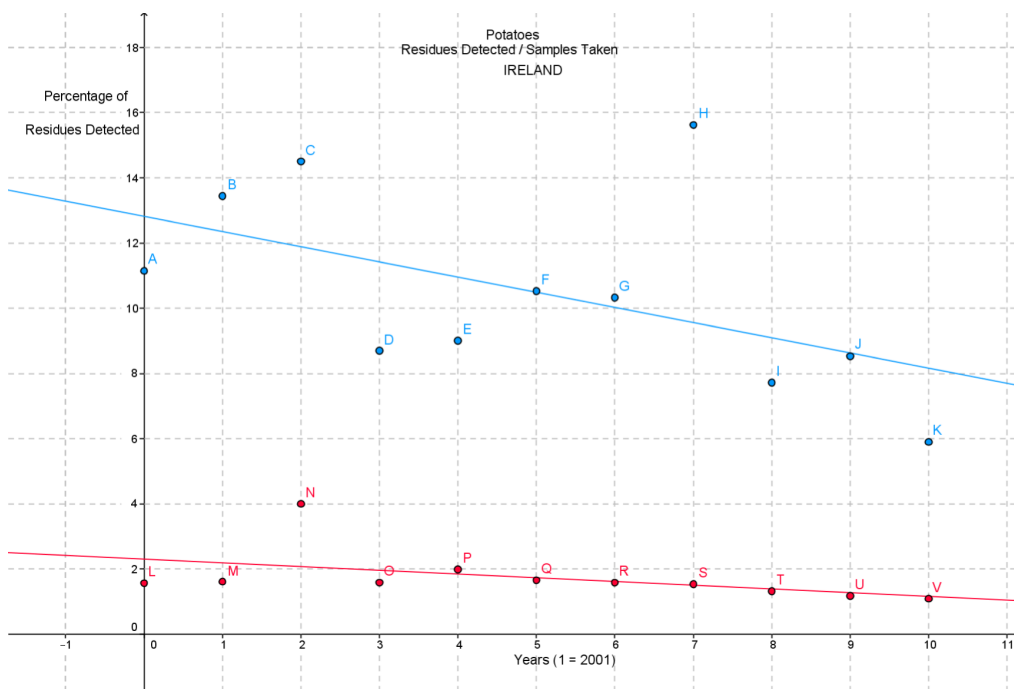


Fig. 3 Number of samples with residues of pesticides, in potatoes grown in Ireland, over a 10 year period.

The Irish students analysed the data using Geogebra. Data was sourced from websites and from the Department of Agriculture.