BACKWESTON Laboratory Complex NRL Functions

Salmonella
Campylobacter
Verotoxigenic E. coli
Antimicrobial Resistance
Parasites
Listeria (DSL)







STER BUSIES

Photo: Peter Barrow,28th November 2005, Tel:0872-559638

and the the





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Rapid communications

INCREASE IN VTEC CASES IN THE SOUTH OF IRELAND: LINK TO PRIVATE WELLS?

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AGRICULTURE & FOOD AN ROINN TALMHAÍOCHTA AGUS BIA

High levels of verotoxigenic *Escherichia coli* (VTEC) have been recorded to date in 2008 in the Republic of Ireland. One hundred and forty-eight VTEC cases were notified up to the end of August 2008 (Figure 1), compared to 70-90 confirmed cases reported in the equivalent time period in 2006 and 2007. Thirty three percent of cases notified in Ireland in 2008 indicated that their usual drinking water supply was a private well.

Figure 1. VTEC notifications in Ireland, January – August 2008, by Health Executive Service (HSE) area (n=148) THE DEPARTMENT OF



PREVALENCE AND EPIDEMIOLOGY OF EMERGENT STRAINS OF VEROCYTOTOXIGENIC E. COLI IN IRISH FOOD ANIMALS







Department of Agriculture, Fisheries and Food An Roinn Talmhaíochta, Iascaigh agus Bia







PREVALENCE AND EPIDEMIOLOGY OF EMERGENT STRAINS OF VEROCYTOTOXIGENIC E. COLI IN IRISH FOOD ANIMALS

Centre for Food Safety (UCD)

Ashtown Food Research Centre (Teagasc)

Moorepark Food Research Centre (Teagasc)

Veterinary Department, Cork County Council

Biosystems Engineering (UCD)

Funding agency: DAFF (FIRM)













Cork County Council comhairle contae chorcaí

VTEC Study – Objectives I

Establish prevalence of emergent strains in Irish food animals
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- Cattle survey (n = 400)
 - Faeces, hides, dressed carcases, lairage
 - enumeration of levels in positive samples
 - feed information into existing Risk Assessment model
- Sheep survey (n = 500)
 - •Faeces, fleece, dressed carcases, lairage
 - enumeration of levels in positive samples
 - Sheep survey (n = 500)
- Dairy herds (n = 60)
 - faeces
 - milk socks
 - Bulk tank milk



NRL Survey of O157 in Cattle / Sheep at Slaughter

- One year study, started May 07
- From largest slaughterhouses
- Cattle and Sheep
 - 20 beef
 - 5 sheep





Samples

- 400 sampling events
- Pool of 5 animals from same herd/flock
 - -Rectal swabs
 - -Carcas swabs pre-chilling
- Mince meat



Methodology

- Detection of O157 based on ISO16654:2001 (confirmation by latex agglutination and indole reaction)
- Followed up by genotypic characterisation by PCR





