

Llywodraeth Cymru Welsh Government

www.cymru.gov.uk

Sheep Scab Fiend... Foe... Where arts thou?

Arjen.Brouwer@wales.gsi.gov.uk



History

- Eradicated from the UK in 1952
- Accidentally reintroduced in 1973
- Compulsory double dipping regime
- 1989 reduced to single dipping c 40 outbreaks
- 1991 still not eradicated c 120 outbreaks
 Perceived lack of cooperation from industry
 impacts on the environment
- 1992 Sheep Scab Order Compulsory dipping of national flock stopped but controls for affected flocks

History

- 1997 GB sheep scab order
- criminal offence if owners or keepers of sheep:
 - fail to treat sheep visibly affected with sheep scab and all other sheep in the flock;





History

- 1997 GB sheep scab order
- criminal offence if owners or keepers of sheep:
 - fail to treat sheep visibly affected with sheep scab and all other sheep in the flock;
 - move sheep visibly affected with sheep scab (except to enable animals to be treated or for immediate slaughter).
- LAs can require sheep to be treated

Economic cost...

 In 2005, sheep scab was thought to cost the British sheep industry in the

region of £8 million per annum (Nieuwhof and Bishop, 2005).

- In Wales cost of scab to the Welsh industry estimated at £2.3 million per year (HCC, 2008).
- The cost of the disease to the Welsh sheep industry was estimated at £5.86m per annum Bangor 2010.

Surveys

NSA members - Bristol 2003/4
Wales farmers & vets - HCC 2006
NSA members - Bristol 2009
Wales farmers at agricultural shows - Bangor 2010



2003/04 - Survey of NSA Members

GB scab 9%GB Lice 10.7%



2006 Wales (HCC/MPW)



- surveys to Welsh sheep farmers
 - 2070 useable surveys were returned (16.6%)
- Surveys were sent to all Welsh veterinary practices (98)
 - 30 surveys returned representing all large animal practices in Wales

Producer survey – farm type



Producer survey - % of flocks reporting ectoparasites



•11.6% of useable returns (238 respondents) reported sheep scab



Stratification & scab?



What factors make farms more likely to have scab?



Vet practice surveys

1-10% of clients - scab and ticks

• 11-20% of clients - lice

(These results mirror the results from the producer survey)



Vet farm visits

40 visits between Dec 06 and Mar 07 Survey covered 23,900 sheep

Vets were confident that producers

- could identify scab and lice
- knew the routes of infection



Result of lab tests from farm visits



Bio-security

- 68.5% of farmers said they quarantine bought-in or returning sheep
- vets believe that less than 10% of their clients quarantine bought-in or returning sheep...



Organic sheep producers

- 8.4% of the respondents classed themselves as organic
- 4% of all Welsh sheep producers were organic

Very good representation.



Organic respondents versus complete dataset



2007/08 NSA repeat survey

- 8.6% (+/-1.98)
- Key is a risk map for GB





Hotspots

- Open hill common land
- Organic farms
- Poor veterinary influence
- Lowland farms store lambs
- Markets??
- Bio security deficient haulier
- Hobby farmers
- Has been farmers!

Sample size

 Bangor 2010
 survey respondent numbers and median flock size (in brackets)



Demographics

- 588 questionnaires
- Organic farm owners accounted for approximately 10% of the sample (organic farm=56; conventional=532).
- Flocks ranged in size from 1 to 5500 breeding ewes and the median flock size for the survey was 350.
- Approximately 19% of farmers graze their sheep on common land at some point during the year.

Treatment

'Do you routinely treat your sheep to prevent scab?' (Negative responses reported)



Treatment

'Do all of your neighbours routinely treat against scab?' (Negative responses reported)



Prevalence

Have you had scab in your flock in the last five years?' (Positive responses reported)



Treatment

'If you detect scab in your flock do you always treat for it? (Negative responses reported)



Scab and markets

'Would you ever send your sheep to market knowing they have scab?' (Positive responses reported)



Implications

- marked and significant difference in the levels of scab in flocks in counties in the North and East of the country
- increased likelihood of scab in flocks grazing on the Commons

Figure 6.4 Percentage of respondents who treat to prevent/control for specific ectoparasites



Figure 6.5 Percentage of respondents who treated to prevent/control ectoparasites either singly or in combination



Summary

2002	Scrapie survey	GB	8.7% over 12 months
2003/2004	NSA Members (Bristol)	GB	GB - 9% Scab; 10.7% lice over 12 months
2006	HCC	Wales	11.6% Scab over 12 months
2006	SEERAD (ADAS)	Scotland	14.7% over 5 years something odd here
2007/2008	NSA Members (Bristol)		8.6% for GB but regional variation N England 36.4% Wales 24.2% SW England 15.2% Scotland 12.1%
2010	Bangor	Wales	36.5% BUT over 5 Years!!!