

Changing trends in bovine Salmonella in NZ

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Roadmap

- Animal health surveillance programme
- *S. Bovismorbificans*
- *S. Give*
- *S. Brandenburg*
- Summary



Animal Health Surveillance programme

- Important component of NZ's general surveillance programme
- 3 commercial veterinary diagnostic laboratories provide anonymised case data to MPI
- Programme operating 2003-present
- Database holds approx. 380,000 records across all species



To report suspected exotic land,
freshwater and marine pests, or exotic
diseases in plants or animals, call:

0800 80 99 66

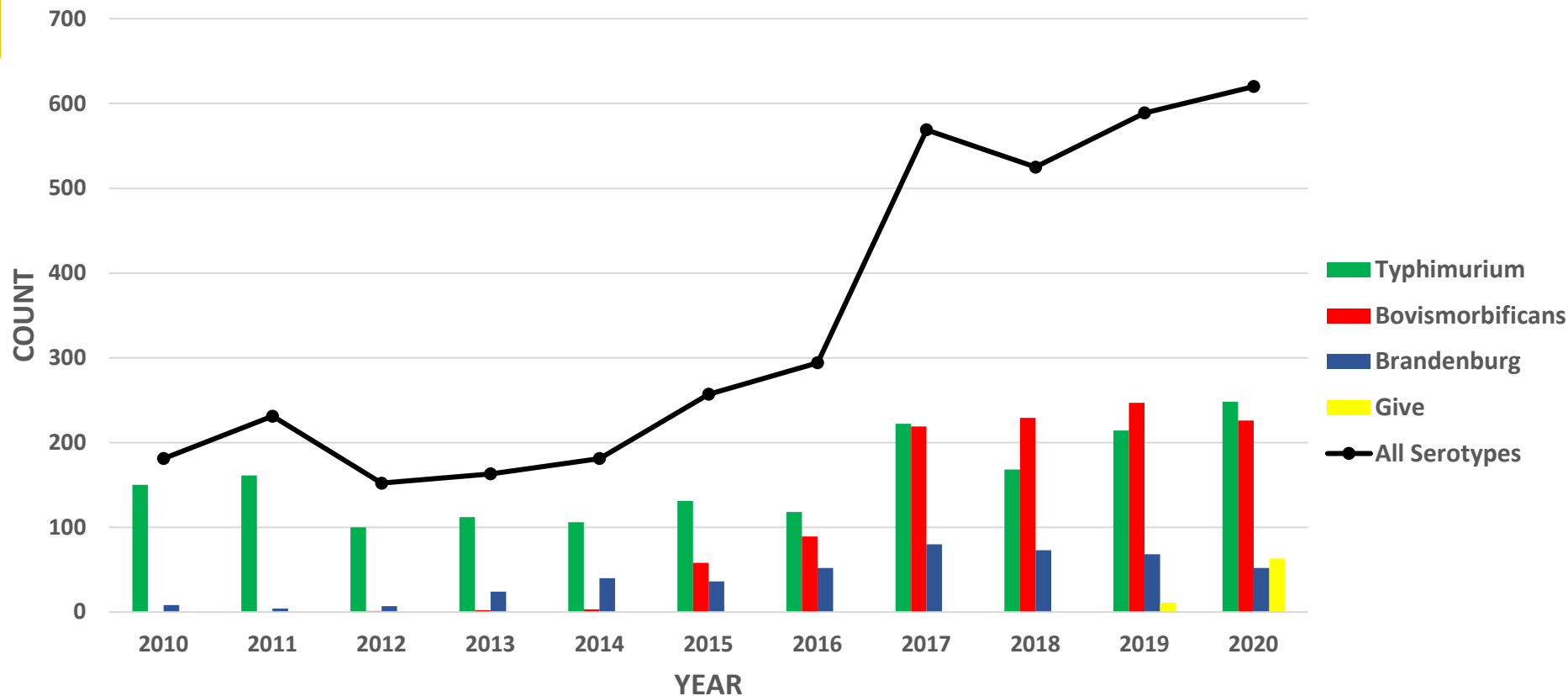


Biosecurity New Zealand

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Salmonella trends 2010-2020



Why is this changing trend important?

Animal health and welfare impacts

Anecdotal reports of significant impacts;

- significant morbidity/mortality events in calves and cows,

- abortions



Production costs

- mortality- loss of cows in production or replacement stock
- impacts of morbidity (decreased weight gain, lost milk production etc)
- abortions
- treatment costs; vaccine and antibiotics
- loss of milk



Human health impacts

- risk of raw milk consumption (farmers families and general public)
- risks to farm workers

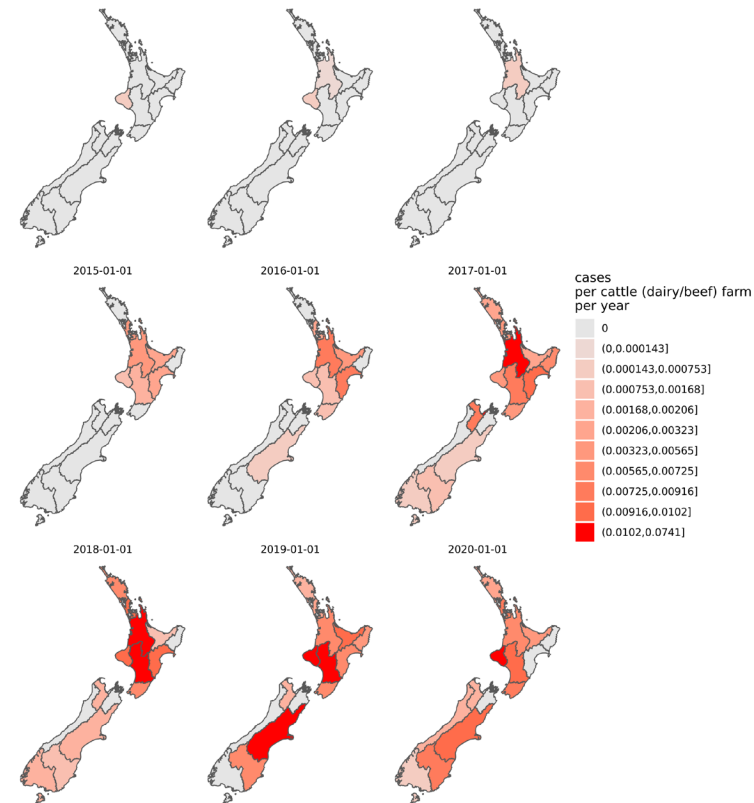
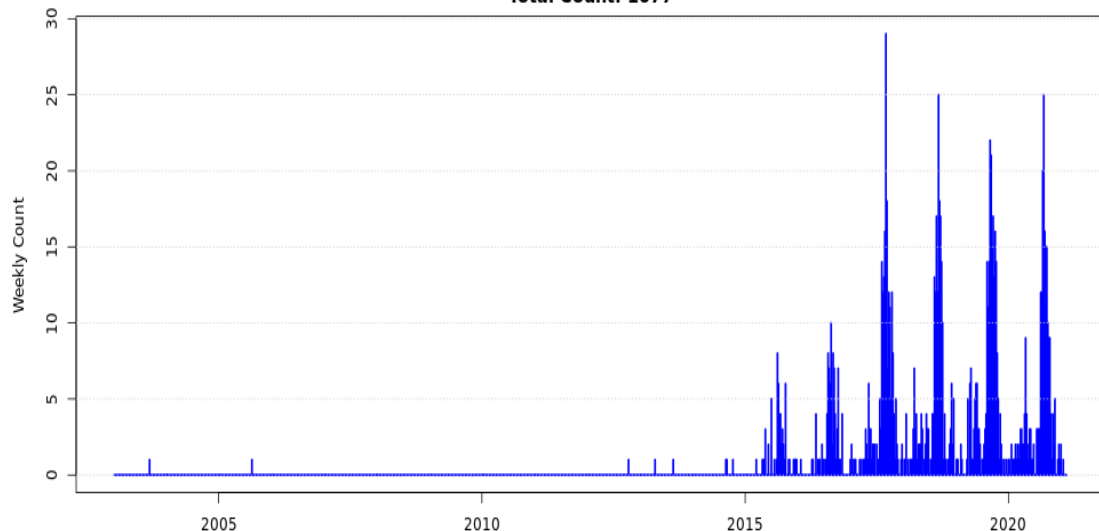


Salmonella Bovismorbificans

Incidence rates of laboratory submissions with *Salmonella bovis*morbificans in cattle (dairy/beef)

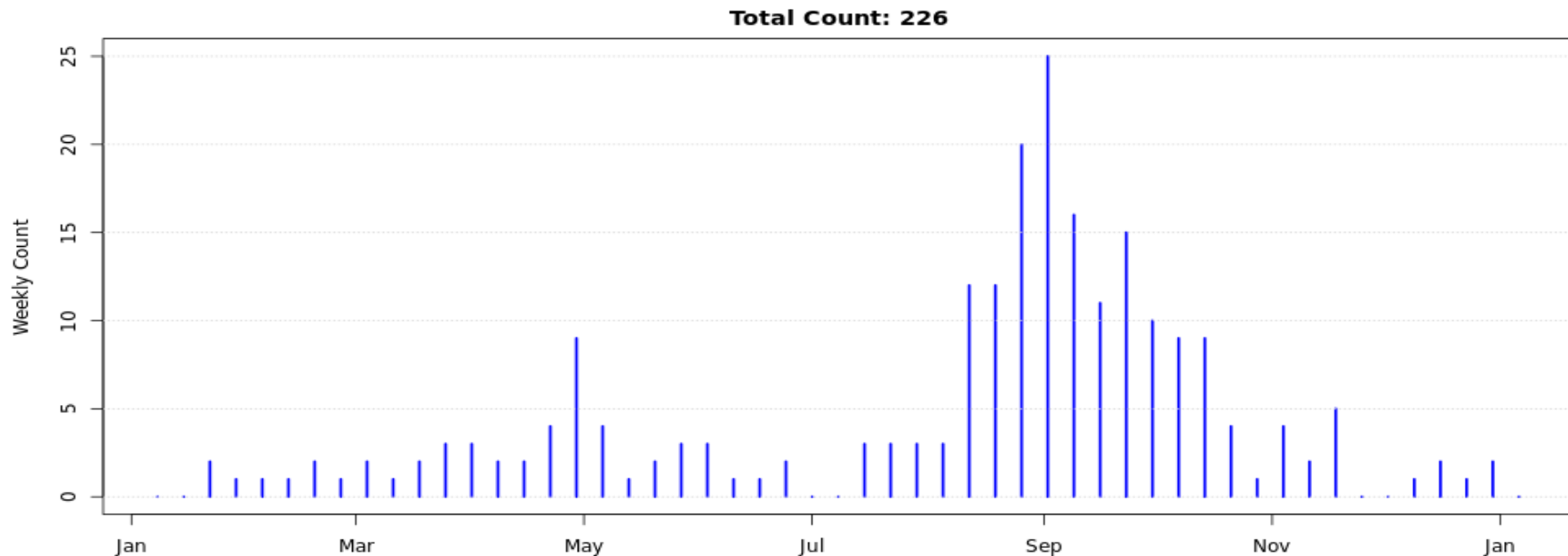
Species: Bovine
Aetiological Diagnosis: *Salmonella bovis*morbificans
Date Range: 01/01/2003 - 31/01/2021

Total Count: 1077



Salmonella Bovismorbificans

Species: Bovine
Aetiological Diagnosis: Salmonella bovis
Date Range: 01/01/2020 - 31/12/2020



Salmonella Bovismorbificans

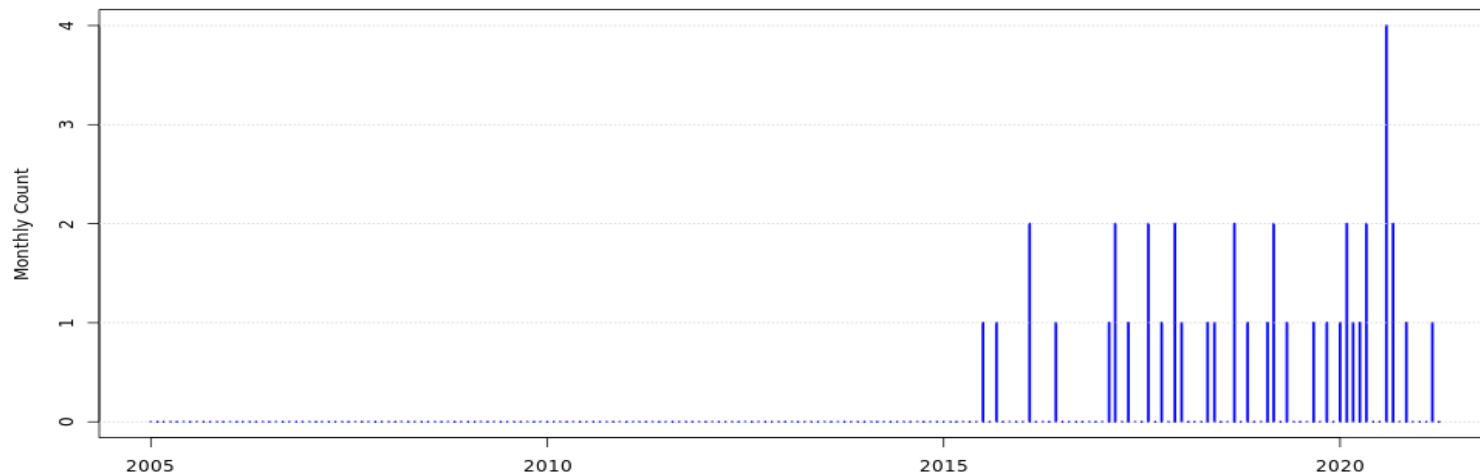
Salmonella Bovismorbificans companion animal submissions

Species: Canine; Feline

Aetiological Diagnosis: Salmonella bovismoribificans

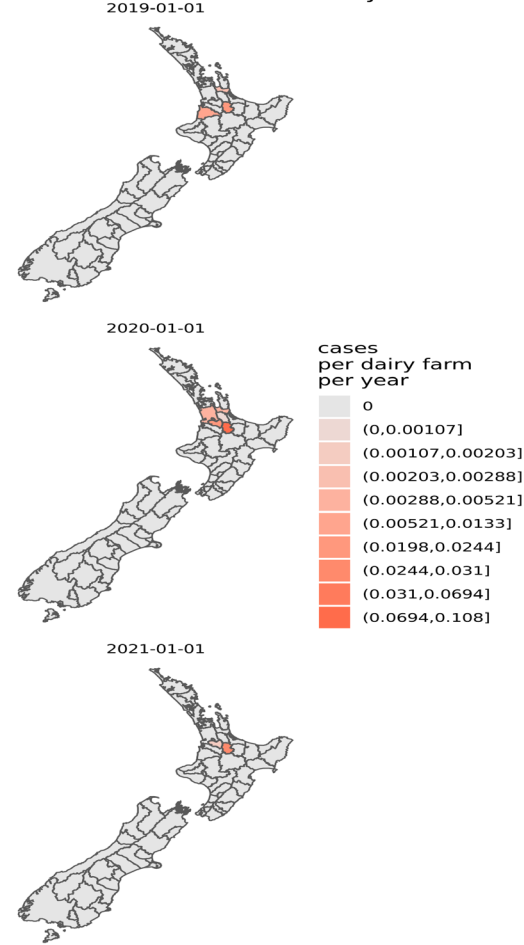
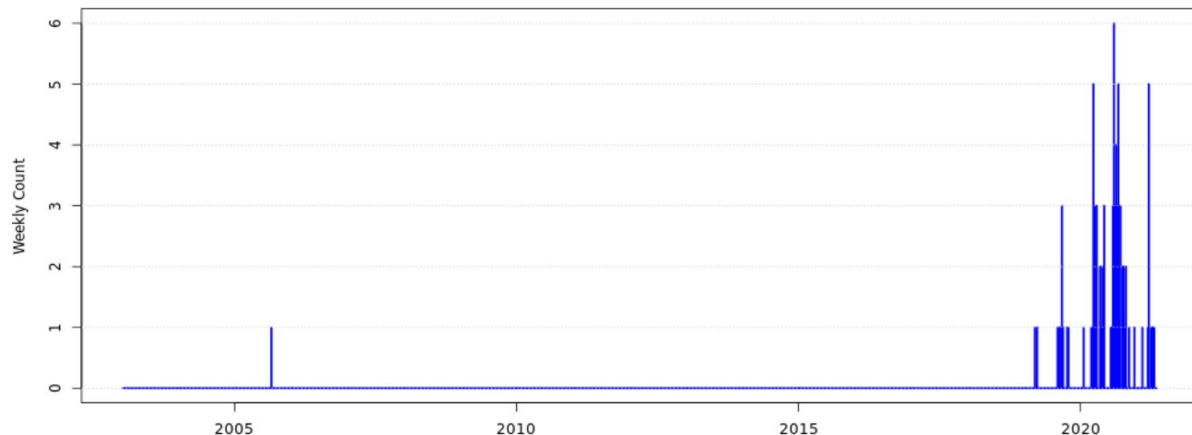
Date Range: 01/01/2005 - 30/04/2021

Total Count: 41



Salmonella Give

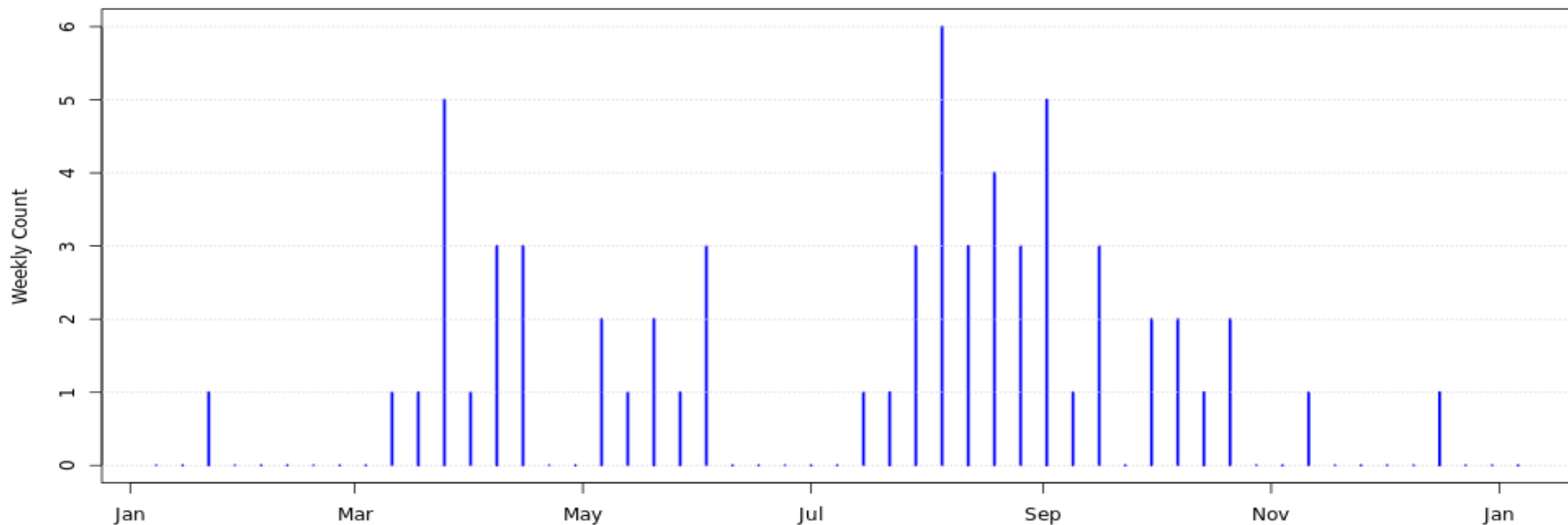
Salmonella Give
Species: Bovine
Aetiological Diagnosis: Salmonella Give
Region: Multiple
Date Range: 01/01/2003 - 30/04/2021
Total Count: 86



Salmonella Give

Salmonella Give
Species: Bovine
Aetiological Diagnosis: Salmonella Give
Date Range: 01/01/2020 - 31/12/2020

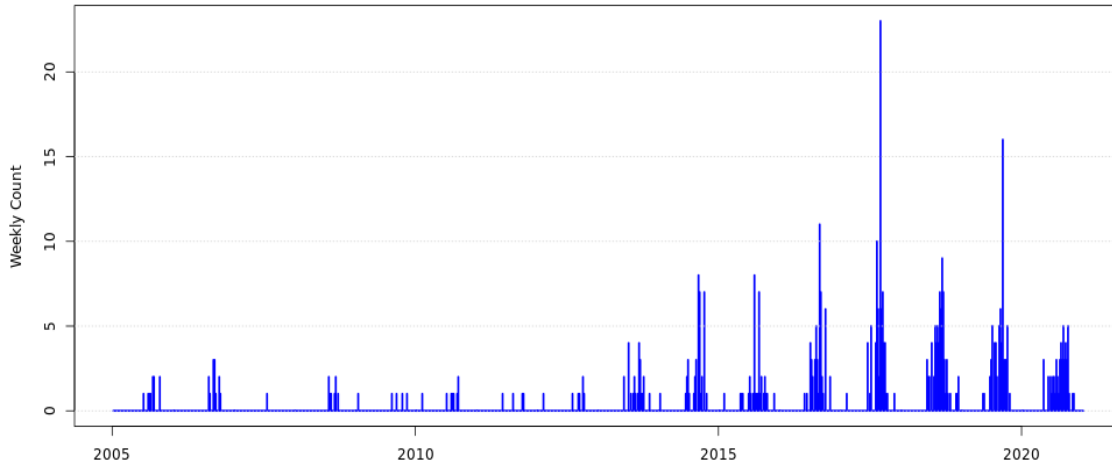
Total Count: 63



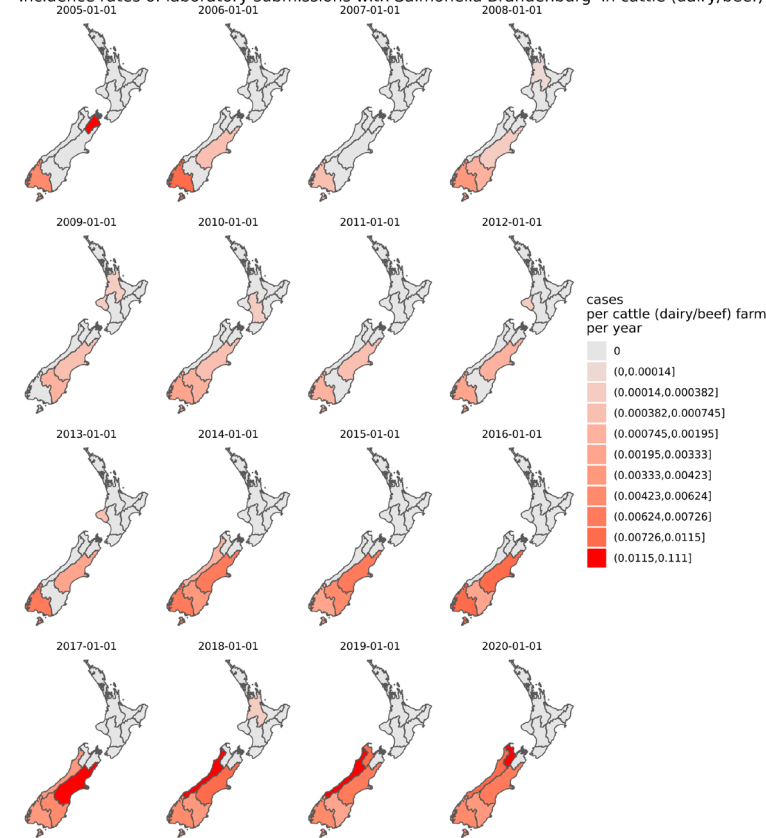
Salmonella Brandenburg

Species: Bovine
Aetiological Diagnosis: Salmonella Brandenburg
Date Range: 01/01/2005 - 31/12/2020

Total Count: 481



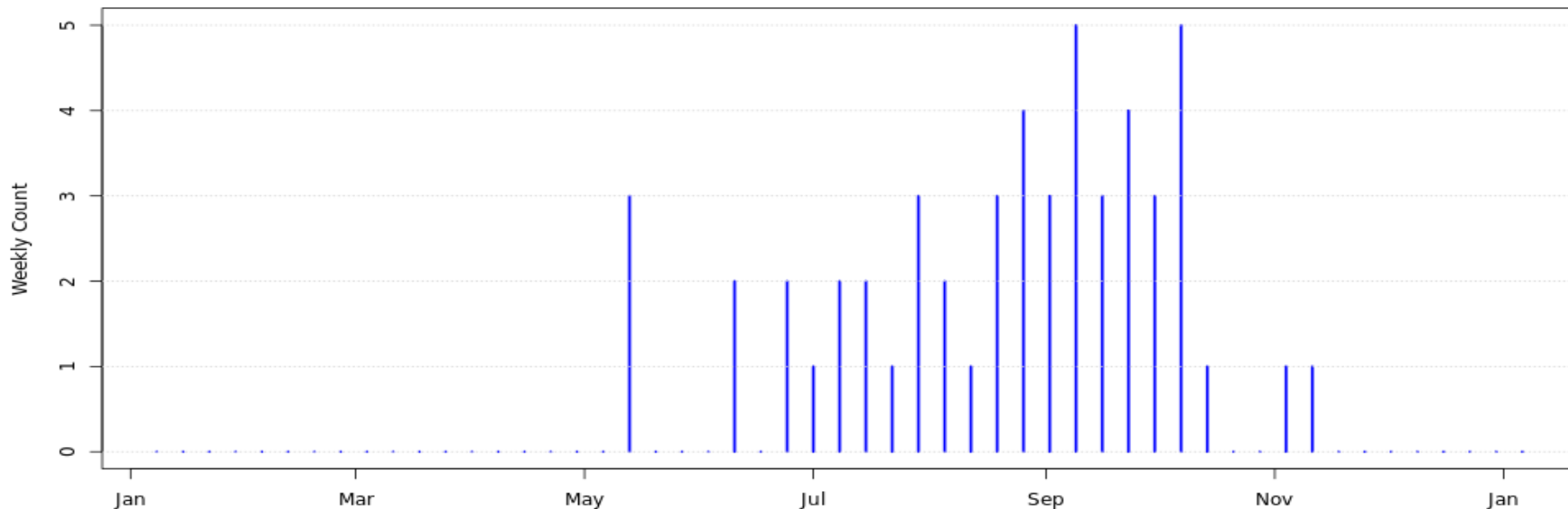
Incidence rates of laboratory submissions with Salmonella Brandenburg in cattle (dairy/beef)



Salmonella Brandenburg

Species: Bovine
Aetiological Diagnosis: Salmonella Brandenburg
Date Range: 01/01/2020 - 31/12/2020

Total Count: 52



Summary

Salmonella trends 2010-2020

