Composts, organic fertilisers and biosecurity
John Gibney District Veterinary Officer Warrnambool
Farm Biosecurity

“a set of measures designed to protect a property from the entry and spread of pests, weeds and diseases”
Compost and organic fertilisers

- Risk of both *entry* and *spread* of pests, weeds and diseases
Effective composting

• Need sufficient temperature (60+ degrees for at least 3 days) to pasteurise pathogens and weed seeds
• For this to occur need correct C/N ratio, moisture, aeration and management
Compost risks

Effective composting kills **most** pathogens

Exceptions:

- Bacterial spores (e.g. Anthrax, Blackleg, Tetanus, Botulism)
- Prions – TSEs (eg Mad Cow Disease)
Anthrax disposal in Northern VIC
Compost risks

Exceptions (cont)

- Other contaminants such as heavy metals (e.g. cadmium, mercury, lead) and other chemicals (eg OCs) which could constitute animal health and food safety risk and jeopardise international markets.
Compost risks – on site composting

Vermin, birds, wind and vehicles can transport waste, weeds, pathogens off site

E.g. Salmonella can be transmitted by birds and rodents
Compost risks

- Is entire windrow composting effectively – e.g. ground/compost interface – if not pathogens may survive composting
- Has the entire volume reached sufficient temperature?
Compost and Organic Fertiliser Risk

- Cattle and sheep must never have access to “stored, stockpiled or spilt” poultry manure as it may contain restricted animal material (RAM)
Mortality composting

• Composting can be used to dispose of dead cattle carcasses
• Why did animal die? Best to investigate if unsure!
• Unexplained disease outbreak? Private vets can access subsidised testing to undertake a Significant Disease Investigation
Unusual disease syndromes
Ask your vet
District vet or animal health officer
Emergency Animal Disease Hotline 1800 675 888
Manure - risks

Biosecurity risk will be greater with direct application e.g.

- Salmonella (any manure)
- Johne’s disease (feedlot manure)
- Leptospirosis (pig slurry)
- Drench resistant parasites (feedlot manure)
- Weeds (green manures)
- Chemicals (eg Cu, Zn in poultry and pig manure)
- Antibiotics (pig, poultry manures)
Summary

• Need to identify and manage potential risks associated with composts and organic fertiliser
• Risks may be associated both with introduction of material onto farms, and spread of material around farm