



Practical Biosecurity Programs
Standard Biosecurity Protocol (SBP)
SBP 9

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Handling Manure and Waste

1. **Purpose:** To prevent disease transmission from animal or poultry manure, litter or other waste
2. **Responsibility:** Farm Staff
3. **Frequency:** At Clean-out
4. **Biosecurity Protocols for Poultry Barns, Mink Sheds or Other Livestock Facilities that Depopulate Entire Pens, Sheds or Barns.**
 - 4.1 When the growing or production cycle has finished, animals are sold or shipped for processing leaving behind manure, litter (Picture 9.1) and waste (Picture 9.2) that has accumulated over the time the livestock have been living there. This material is a source of pathogens left behind by the livestock.



Picture 9.1, Vaillancourt, 2003



Picture 9.2, Vaillancourt, 2003

- 4.2 Once the animals are gone all the organic material will need to be cleaned out of the barn. The organic material will contain mostly fecal material, dust, feathers, fur, hair, feed, moisture from water line leaks and flushing, soil, paper, waste hay/silage and litter material like shavings, sawdust and/or straw (Pictures 9.1 & 9.2)
- 4.3 The dust and organic material on pipes, ledges, old feed in feeders, etc. are swept, blown or scraped onto the manure/litter/bedding, water lines are flushed and then

the manure/litter/bedding material is mechanically removed from the barn (Picture 9.3).



Picture 9.3, Tablante & Malone, 2005



Picture 9.4, Vaillancourt, 2003

- 4.4** In poultry cage systems, the manure belt (Picture 9.4) is run on a regular basis throughout the life of the flock and the manure is deposited into a manure storage shed or directly into a manure wagon
- 4.5** Short term storage facilities are used for poultry manure. Manure sheds can be used for cage barn systems and a manure pad for floor type systems.
- 4.6** The manure /litter at clean-out may also be loaded directly onto the manure wagon or truck for immediate removal from the farm site to long term storage, composting or direct land applications (Pictures 9.5 and 9.6)



Picture 9.5, Oderkirk, 2012



9.6, Vaillancourt, 2003

- 4.7** For dairy and other livestock facilities manure and waste are removed from the barn and composted or placed in storage in a heap, a lagoon or a tank. This stored manure can be land applied on farm as a source of fertilizer in the spring or used for composting purposes.
- 4.8** Washing the barn and any anterooms will remove the organic material left behind after the mechanical removal process. This material can be moved along down the barn floor by the washing process or out through drains strategically placed along the barn interior wall (Pictures 9.7 and 9.8).
- 4.9** This material is then collected and sent off with the other organic material.
- 4.10** Once the organic material is outside the barn, it should be removed off site for spreading, storage or composting (Picture 9.9 & 9.10).
- 4.11** Manure spread on fields should be covered by harrowing or plowing to reduce potential runoff and pathogen spread (Picture 9.11)



Picture 9.7, Vaillancourt, 2003



Picture 9.8, Vaillancourt, 2003



Picture 9.9, Oderkirk, 2009



Picture 9.10, Tablante & Malone, 2005



Picture 9.11



Picture 9.12

Tablante & Malone, 2005

- 4.12 Stored manure should be covered to prevent runoff and access to pests like flies (Picture 9.12)
- 4.13 Other waste like paper or cardboard, etc. can be incinerated (if allowed) or bagged and sent with Municipal waste to the landfill
- 4.14 To eliminate pathogens left behind after the clean-out, a disinfectant solution is applied to the barn surfaces and equipment
- 4.15 Clean-out equipment and tools are also washed and disinfected at the farm sanitation station after being used
- 4.16 The barn should be inspected for cleanliness prior to new animals being housed
- 4.17 Record the barn clean-out and preparation on a **SBF 2: Biosecurity Clean-out & Inspection Chart**

5. Biosecurity Deviation Protocols

5.1 If the barn has not been cleaned properly, the cleaning and washing process is to be repeated until it is deemed satisfactorily cleaned upon inspection

6. Biosecurity Records

SBF 2. Biosecurity Clean-out & Inspection Chart