# **ELIMINAE** machine



#### **Mechanical sanitation**

- Fall = unpredictable leaf fall
- Focus on eliminating winter prunings

# European showcase: leaf litter removal



#### Remove residues?

- Volume:
  - Time spent emptying bin
- Organic matter
  - « lost » = nonsense
  - Return after composting?



#### Simple flail?



Disadvantages
Limited efficacy
Can create muddy conditions
Reach leaf litter on row

#### **Advantages**

Low cost...

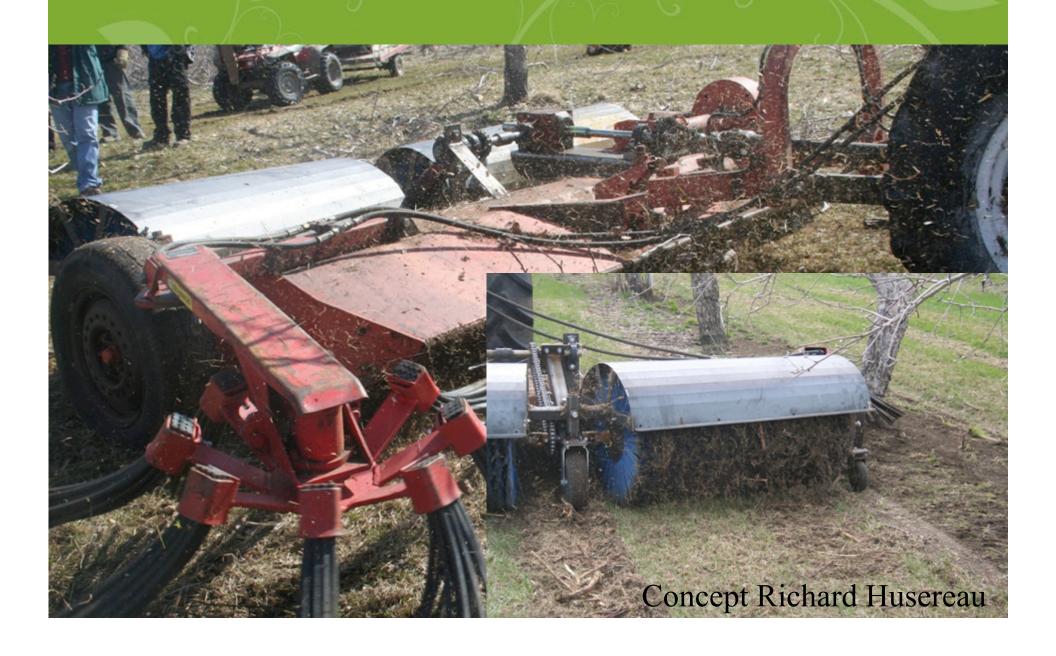


Bill MacHardy

# Eliminae (version 1.0 en 2009)



# Eliminae (version 2.0 en 2010)



### **Spring 2010 & 2011**

- Leaf litter density
  - Eliminae vs flail
  - With or without Spring applied urea
  - Impact on scab
    - Spore ejection
    - Scab on potted trees in plots
    - Scab in large plots



## Leaf litter density

- 4 sites x Replications
- 25 plots
- 8 transects @ 25cm
- GLMM model random effects
  - Sites, equipment, obs
- Control > Flail > Eliminae



#### **Proposed sanitation**

Every year?

YES!

- Insurance policy
- Do you wash your hands?
- Flail...
- Eliminae
- Eliminae + urea

# **Eliminae**<sup>TM</sup>

Canadian trademark

