



Dead-out Hive Autopsy Checklist

Hive Name: *Beeyounce*

Date Found Dead: *12/31/20*

Autopsy Date: *12/31/20*

General hive history

Was hive wrapped/insulated? Yes No *Wrapped w/ blanket after OA treatment on 12/21.*

How was the hive ventilated? *Nothing extra; inner cover and 1/3 entrance*

Was there supplemental food provided? No Yes: *Fondant patties on top of frames.*

What was the weather in the days/weeks before the dead-out? *Hive temp monitor sitting above cluster*

Last mite check and results? *10/08/20, 2.5%* *got down to 17°F the night before I found them dead. Lows in 20's otherwise.*

Last mite treatment and date? *OA Dribble, 12/21/20*

Queen history (age, source): *Supersedure queen from Sept 2020*

Observations from Hive Exterior:

- Hive open or tipped over
- Footprints (animal, human)
- Excessive dead bees on ground
 - Tongues out?
- Shaking bees in front of hive
- Brown/yellow goop or stains

Observations from Opening the Hive:

- Moisture
- Mold
- Bad Smell

Frame & Brood Chamber Contents:

- Pollen/Bee Bread (# frames: *1*)
 - Capped Honey (# frames: *3*)
 - Empty Brood Comb (# frames: *2*)
 - Lots of varroa feces
 - Active Brood Comb (# frames: *)*
 - Brood pattern:
 - Good Fair Poor
 - Eggs present
 - Capped Worker Brood present *very few*
 - Capped Drone Brood present
 - Queen cells present
- Remove some capped brood:
- Signs of brood disease
 - AFB EFB
 - Lots of varroa

Cluster Observations:

- Big (basketball sized)
- Med (volleyball sized)
- Small (baseball sized) *very small - less than 100 bees*
- Queen present *than 100 bees*
- Bees headfirst into cells
- Deformed wings present *A few deformed and K-wings*
- K-wings present *and K-wings*
- Greasy, black looking bees

Bottom Board Observations:

- Lots of dead bees
- Lots of Varroa mites
- Brown/yellow goop or stains *Some*
- Signs of mice - feces, nest

Notes & Diagnosis:

- *Colony was far too small.*
- *Possible varroa issues (feces in cells, lots on bottom board compared to population of bees, tongues sticking out on emerging bees). Didn't treat in fall because of the brood break from new queen and smaller colony size than suggested on treatment labels.*
- *Perhaps they didn't have time to build up a good winter bee population because of the late season queen supersedure?*