NATIVE BEE BREEDING in Wester-Ross



Objectives:

To conserve native honey bee stocks in the Highlands.

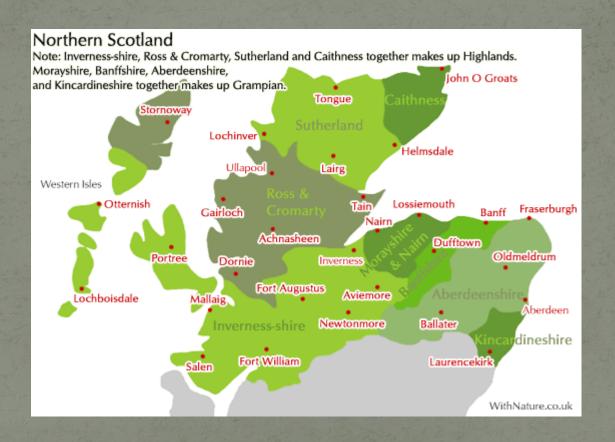
• To facilitate their propagation among interested bee breeders.





Background:

Source



Characteristics:

- Colony size: Small
- Brood nest: Compact Pollen stored among brood





Colour

- Workers dark brown
- Some have orange spots
- Drones black
- Queens variable





Queen colour - 2010 queens

Black

Striped

Yellow







Temper:

Running on comb – not usually.



• Clumping and stinging – Seen in colony D₃m₁





Honey:

Cappings:

Hybrid Creamy

Native Very white.



Supersedure /swarming

- Low tendency to swarm and few queen cells produced even when dequeened.
- Supersedure is common and 2 queens often occur in the one hive

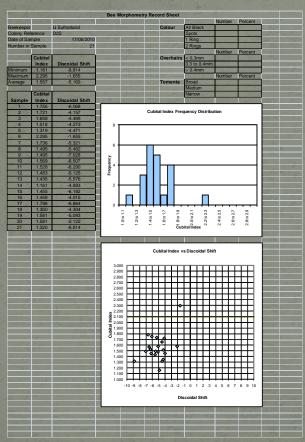


Capturing a hybrid swarm at Inverasdale apiary 2008

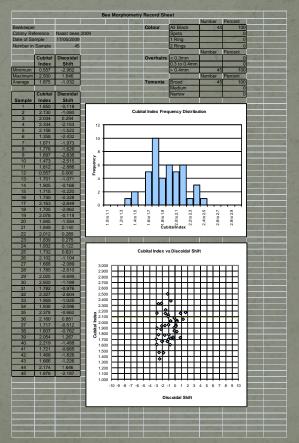


Morphometry:

Sutherland



Wester-Ross





QUEEN BREEDING

OBTAINING BREEDING MATERIAL Eggs laid day o Mon 26^t July



Comb sections containing eggs and very young larvae were transported in 2 ways

Royal Mail (Ruttner)

 Only eggs 2 days old, no travel involved. Poor.

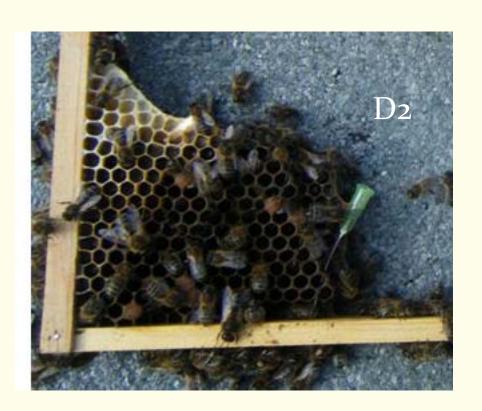


(Margie)

All brood, involves personal travel. Good.







Day 3 Thur 29th July

On arrival (9pm in the dark!) at apiary pinned combs to LABELED frames and

Inserted into centre of brood nest of strong, reception colonies overnight.



Day4 Fri 30th July

 Next day grafted larvae into prepared frames of cups using chinese grafting tool (in sheet rain).

• Distributed to cell raiser colonies in QUEENLESS nucs for 24 hours. Fed.











Day 5 Saturday 31st July

 Transferred to strong BROODLESS and QUEENLESS raiser colonies (Demarees).



Day 9 Wed 4th August

Most queen cells capped





Some queen cells also raised on D2 comb fragment



Cells put into nucs

Day 14 Mon 9thAug

- Pouring rain (again)
- 2 queen cells into mini nucs
- 2 into 4-5 frame nucs
- Rest into full hives or left in builder colony's





Queens hatch

Day 16 Wed 11th Aug

D2 queens



D₃ and D₃m₁











First lay

Mon 6th Sept

- Queens first recorded laying between 6 9th Sept
- 23 26 days after hatching.



NEXT YEAR

2011

 Produce a second batch of virgins and back cross to the drones produced by the best of this years queens.

FUTURE

- Morphometry testing
- Production, selection and dissemination of queens.



