

QUEENS MANAGEMENT PRIOR TO INSTRUMENTAL INSEMINATION

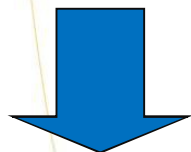
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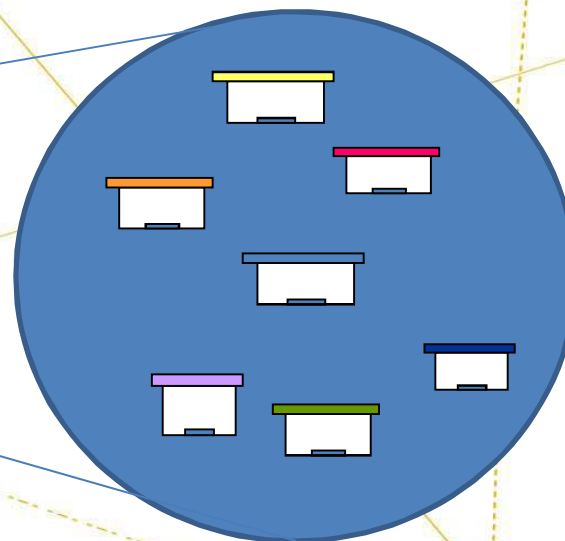
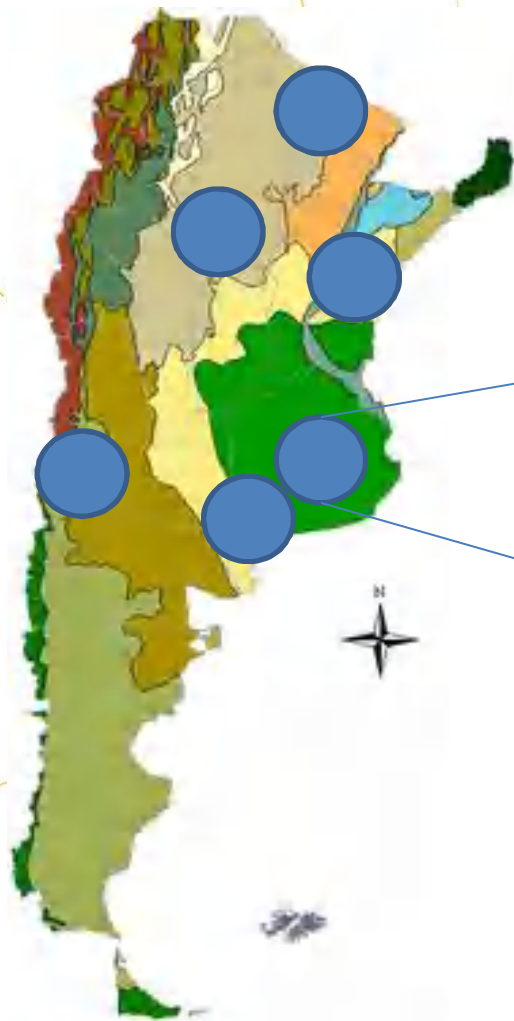


HONEY BEE GENETIC PROGRAM



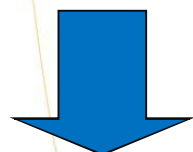
EVALUATION NET

PROAPI HONEY BEE GENETIC PROGRAM MeGA





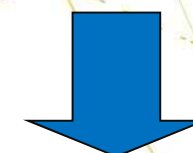
HONEY BEE GENETIC PROGRAM



EVALUATION NET



GENETIC MATERIAL ADAPTED
TO DIFFERENT ENVIRONMENTS



QUEEN BREEDERS INTEGRATED
TO THE SYSTEM



GERMPLASM BANK

Queens, nuclei,
package bees,
colonies with
PROAPI guarantee

CONTROLLED CROSSES

CLOSED POPULATION

SEMEN PRESERVATION



INSTRUMENTAL INSEMINATION



EFFICIENCY

LONGEVITY

DAYS FOR START OVIPOSITION

Objective:

To compare oviposition of instrumental inseminated queens that have emerged in nuclei or in queen bank colonies



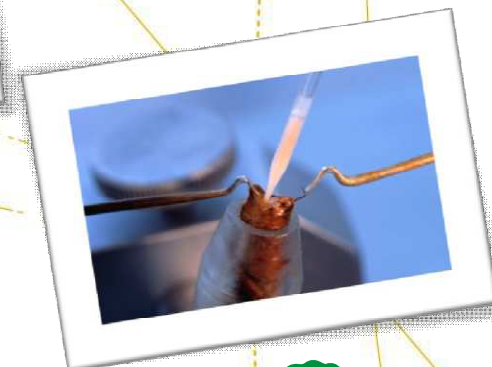
MATERIALS AND METHODS

Virgen queens

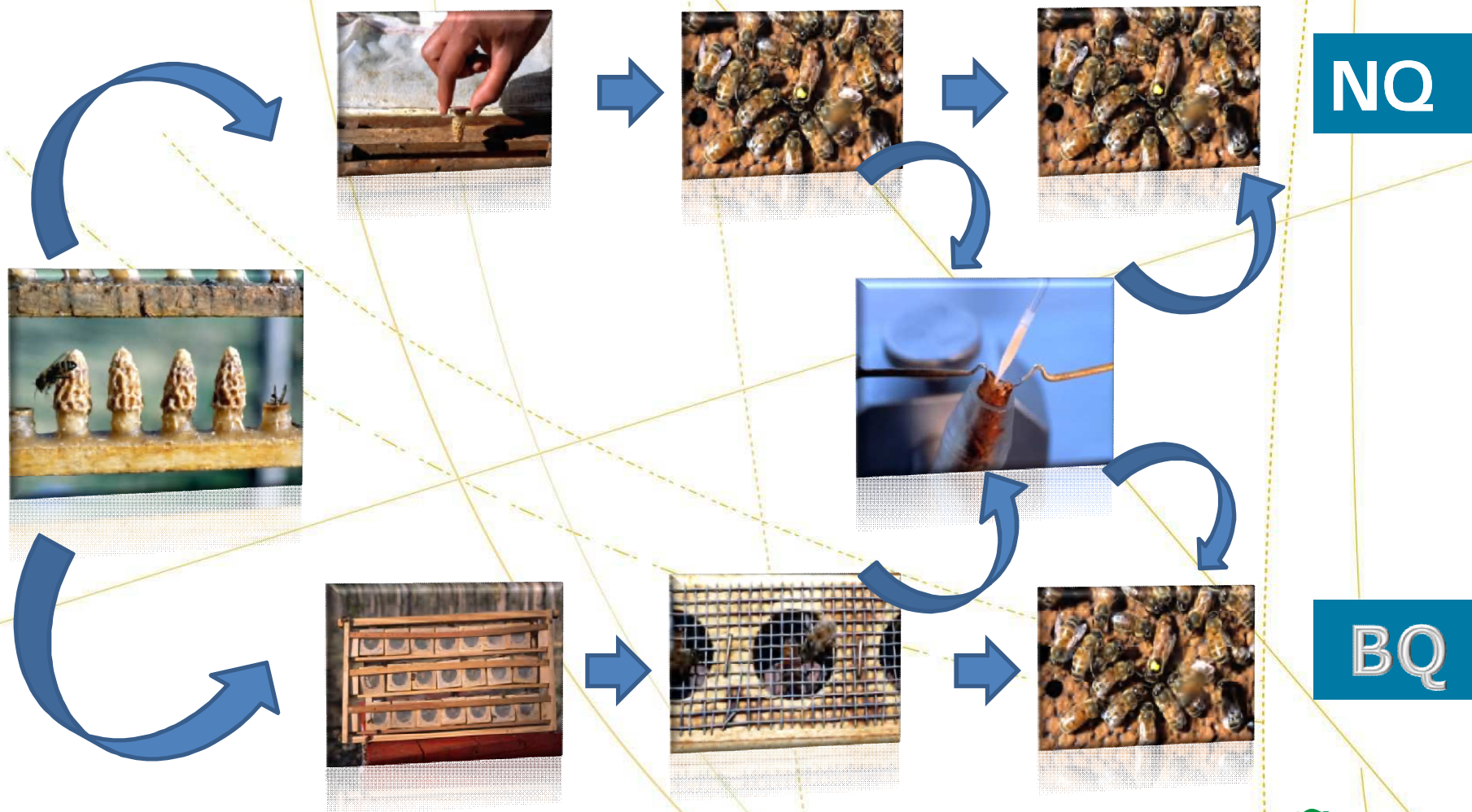
Queens banked

Hives (EPS)

Instrumental insemination



MATERIALS AND METHODS



MATERIALS AND METHODS

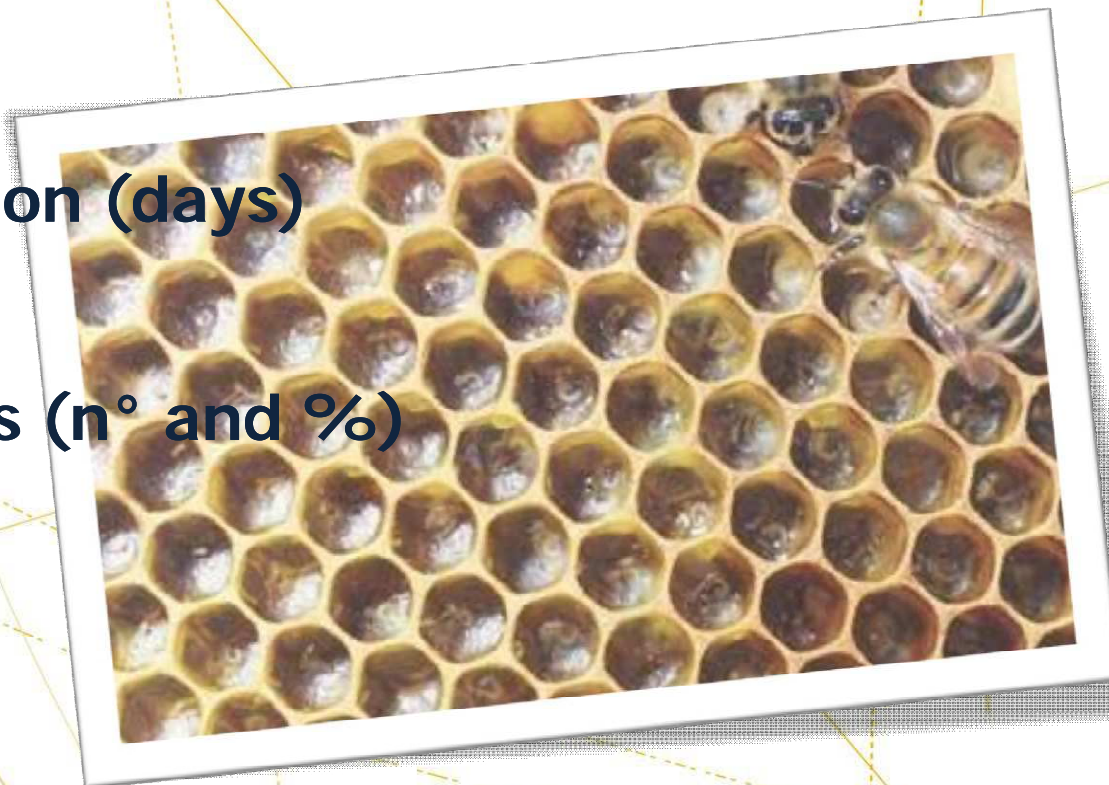
Variables

Start oviposition (days)

Laying queens (n° and %)

Statistic

Chi-square analyses



RESULTS

| | <i>Laying queens</i> | | <i>Lost queens</i> | | <i>total</i> |
|-------|----------------------|------|--------------------|------|--------------|
| | Freq. | % | Freq. | % | |
| BQ | 24 | 23.1 | 80 | 76.9 | 104 |
| NQ | 51 | 35.4 | 93 | 64.6 | 144 |
| Total | 75 | | 173 | | 248 |

Chi2=4.3587, p=0.0368

CONCLUSION

- ❑ Queens introduced in nuclei previous to insemination leads to better results on egg laying.
- ❑ No effect was detected on start of oviposition

THANKS !!

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