

Formic Acid Test 2016:

AIMS:

1. The absence of brood will change the in-hive temperature and humidity* and will give the opportunity to better understand the influence of internal and external conditions on efficacy of the formic acid treatment.

However, we cannot exclude the fact that variations in efficiency would be due to a different behaviour of workers due to the presence of brood, other than the simple production of heat.

Minimum number of colonies for each experiment is 12 (6 with brood, 6 without brood).

2. Evaluation of efficacy of flash formic acid treatment without brood compared to oxalic acid.

Will provide baseline data for potential new application method for flash formic acid treatment.

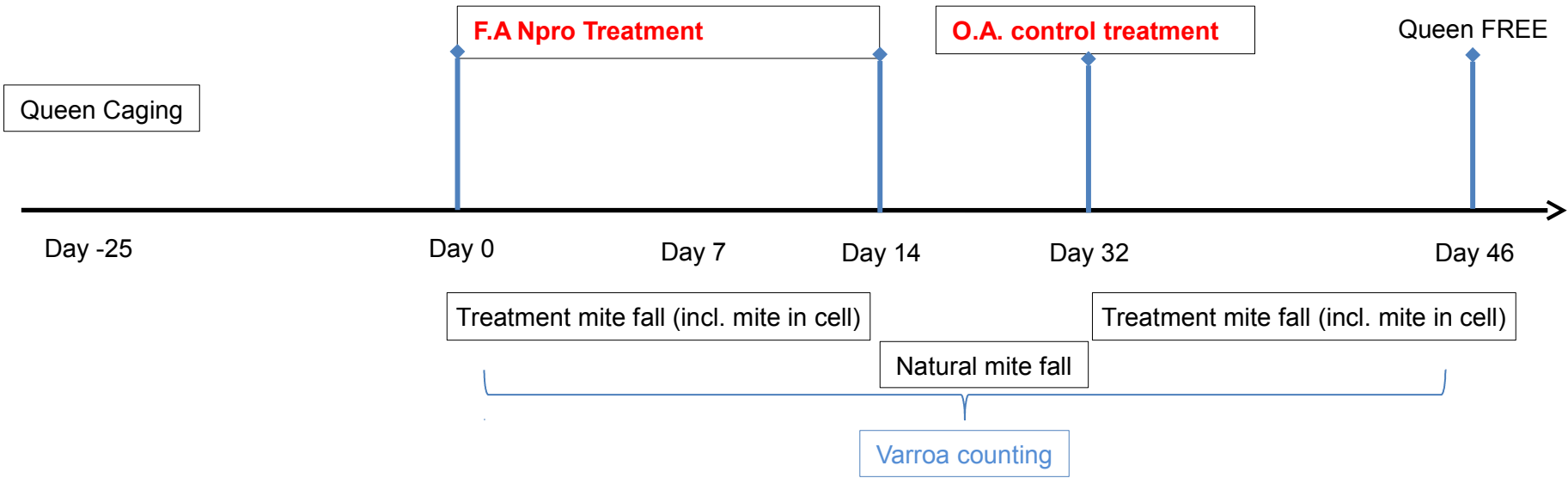
Minimum number of colonies for each experiment is 12 (6 with oxalic acid, 6 with formic acid).

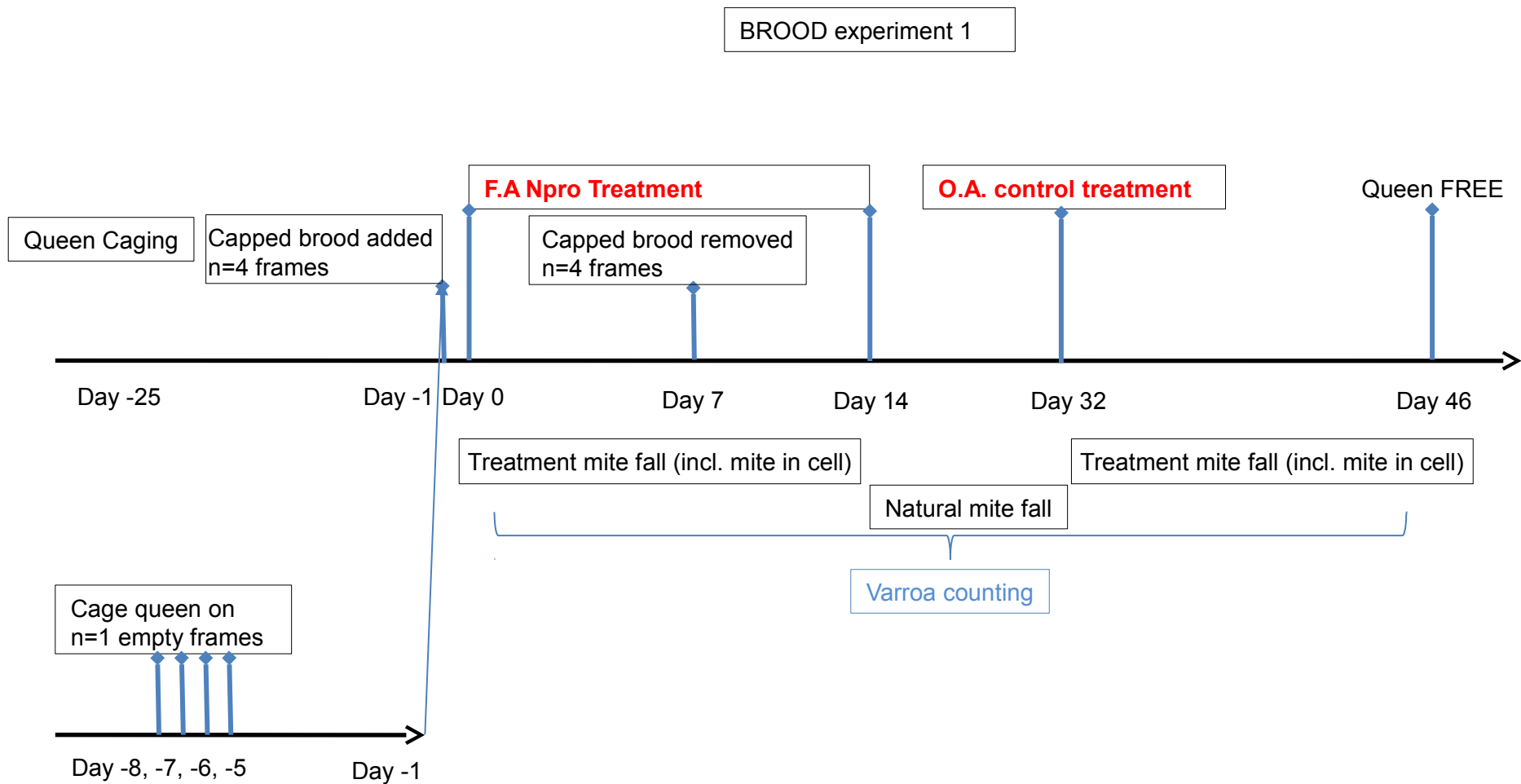
*Note: loggers use is according to the dispenser tests: <http://coloss.org/taskforces/varroacontrol>

open the file "Download the definitive protocol" of the paragraph

"WG 4. Formic acid management (Leads: Benjamin Dainat and Giovanni Formato)".

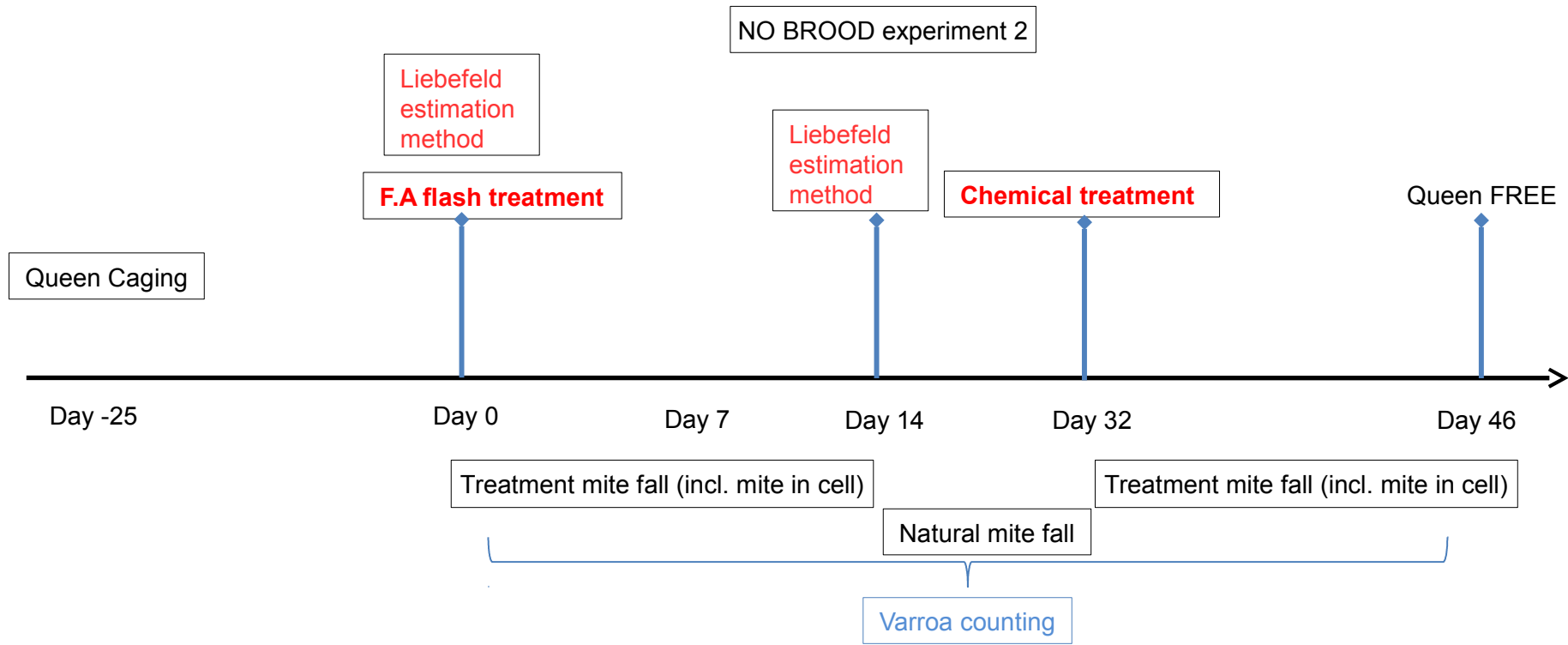
NO BROOD experiment 1





Brood is added to one of the two groups that are otherwise treated in the same way. Added brood is removed before emergence in order not to increase the amount of varroa in the test colonies.

The alternative manipulation of removing brood in one of the groups is not suitable since it would lead to the removal of most varroa and bias the evaluation of efficiency.



NO BROOD experiment 2

