



Erasmus+

THE ASIAN HORNET



Collège Notre Dame
School year: 2018-2019

IDENTITY CARD



NAME: Asian hornet

BINOMINAL NAME: Vespa
Velutina

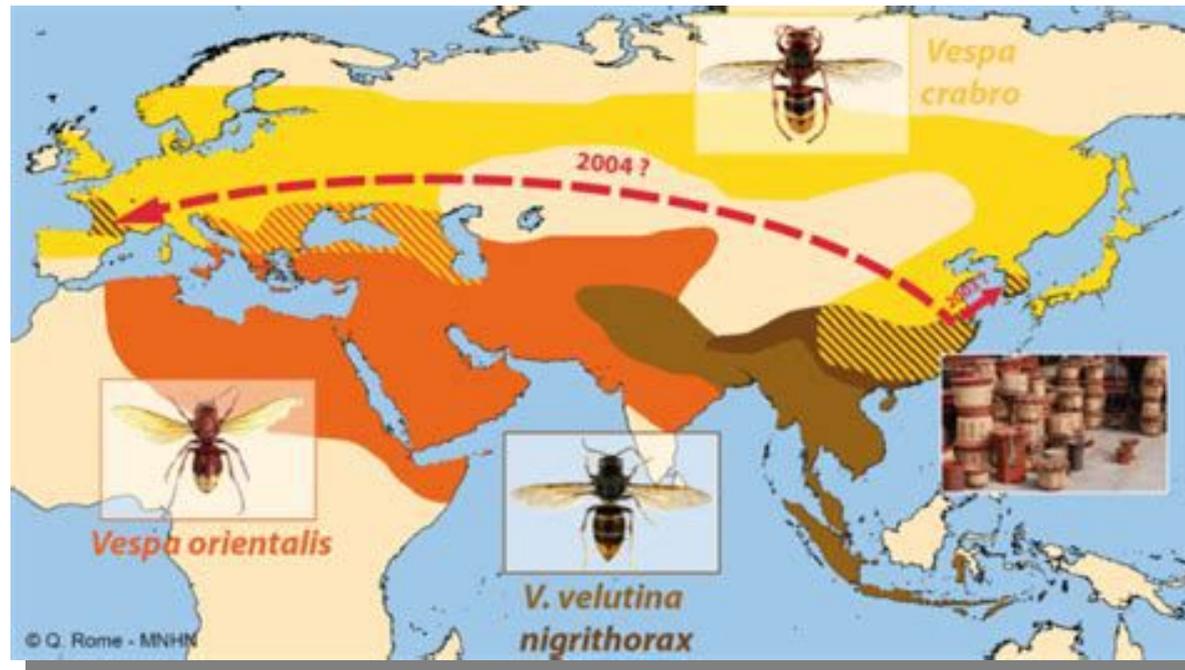
SIZE: 3cm

ORIGIN: South-East Asia

ARRIVAL IN FRANCE: 2004



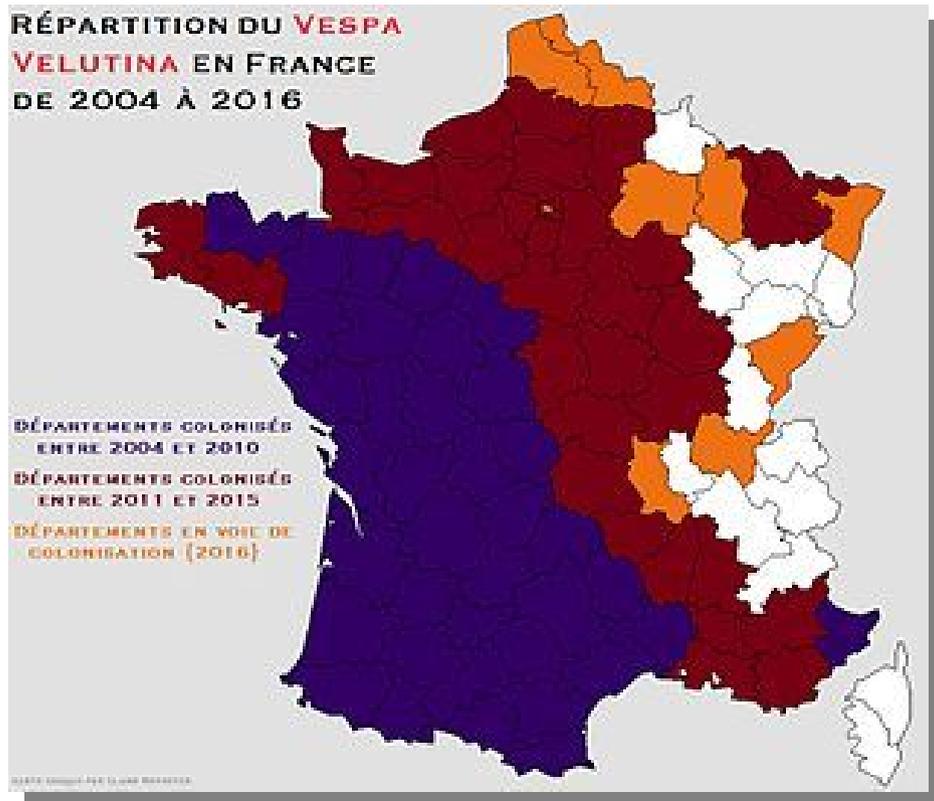
The Asian hornet arrived in France in 2004. The spreading was quite fast .



It arrived by chance in Chinese pottery.



SPREADING THROUGH FRANCE



*It arrived in the west and
with time, it propagated to
the east, following the
rivers.*

*Today, it covers 95% of
France*



The life cycle of Asian hornets



Hibernation

The future queen.



It isolates itself
in tree
trunks and in holes
made by other
insects

Mortality 95%
(controversial figure)

The different nests



It's the first nest built by the Asian hornet

Here is the main nest as it can be seen in August/September

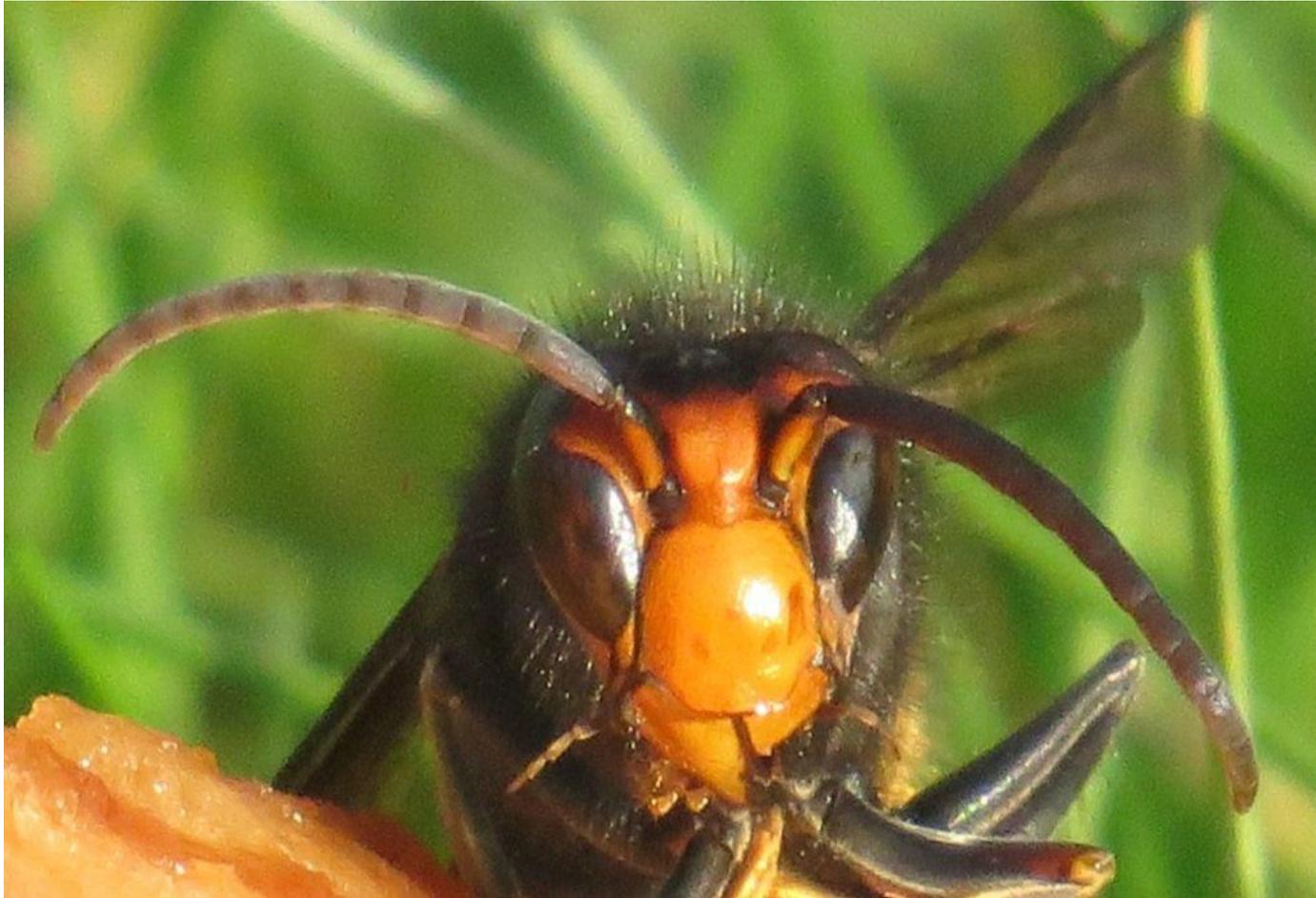


Destruction of the nest



The nest is deserted and destroyed by bad weather at the end of Autumn.

The workers have an average life expectancy of 30 days



Only the future queens stay alive whereas the larvae, the workers and the males die

The assault of the Asian hornet



Assault strategies

The blockade of the Asian hornet

Hovering flight

The hornet serial killer

The Asian hornet can kill 40 bees in a minute



The defense of the bees

Defense strategy

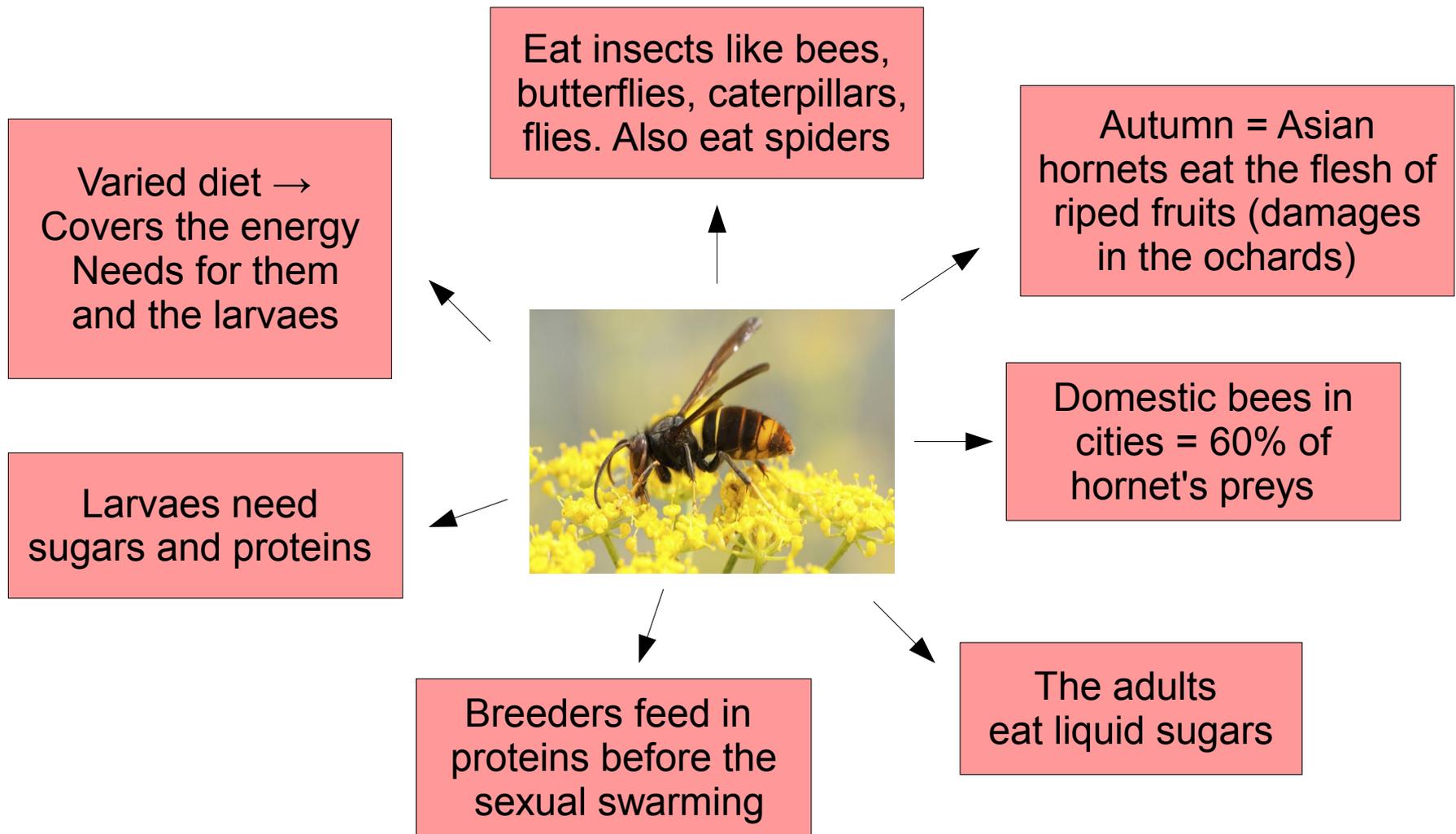
The bees attract the hornets inside the hive. The weak point of the Asian hornet is the heat. They vibrate to heat up to 46 °C.

Around the world

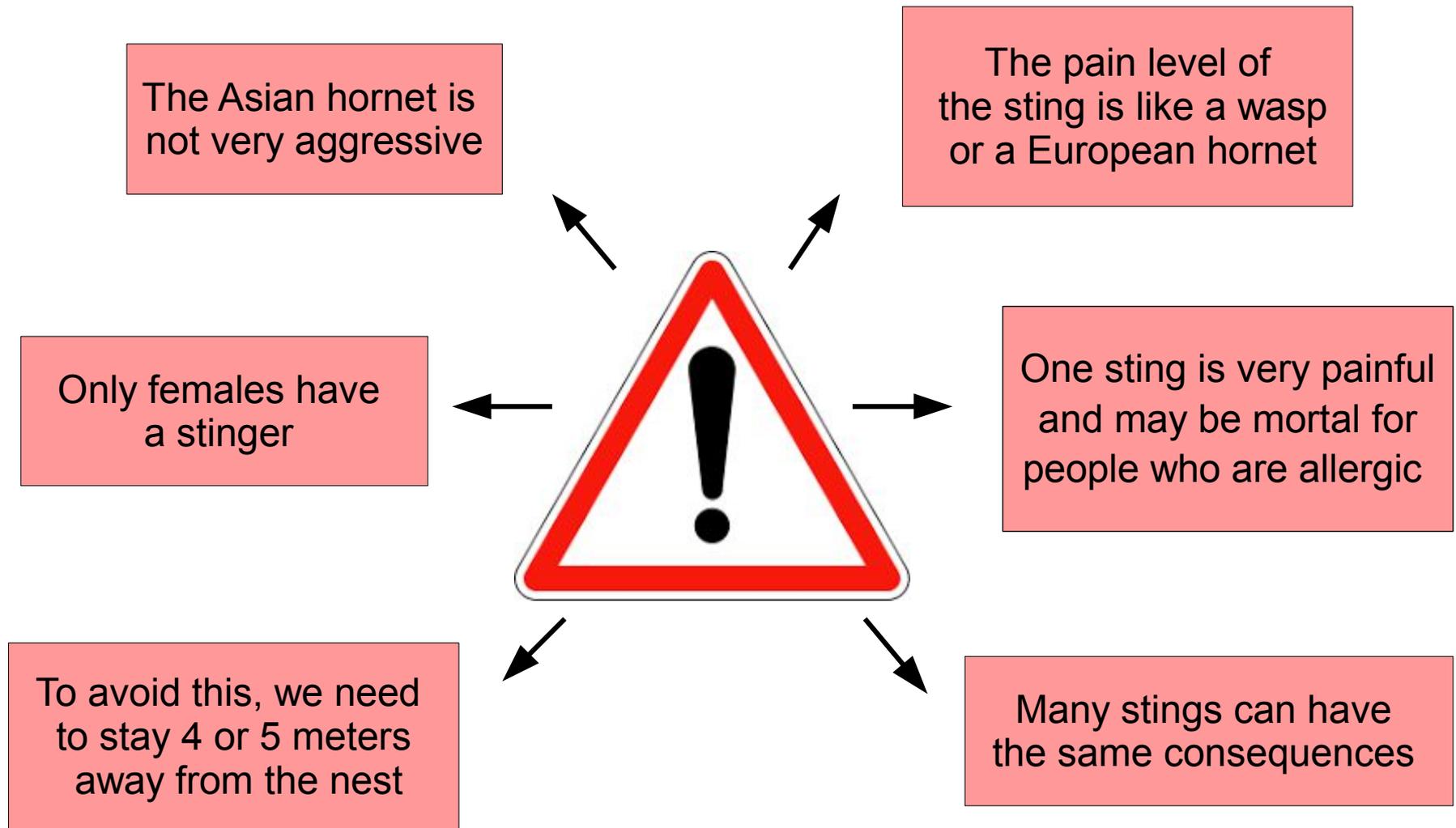
For the defense, the European bees are less advanced than Asian bees.



Eating diet of Asian hornets



Collateral damage

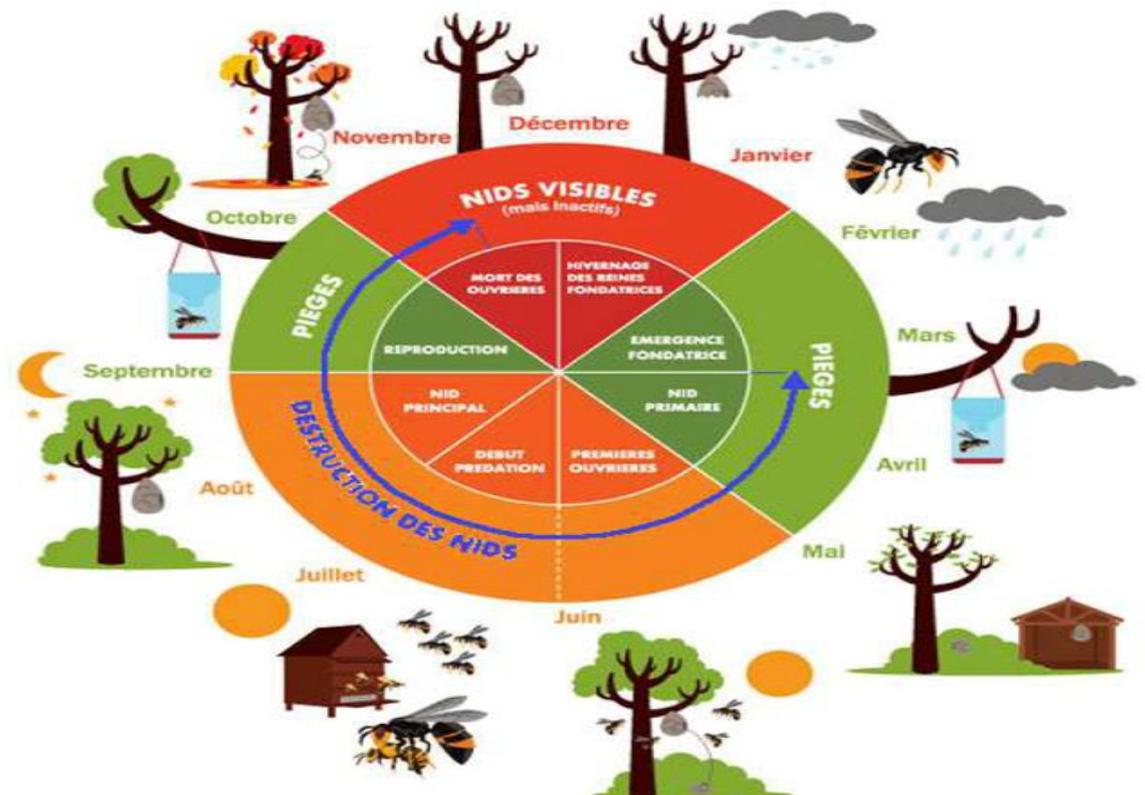


Trapping the Asian Hornet



When to trap the Asian hornet ?

- In winter : hornet queen hibernates
- Before spring : place the trap when there are mild temperatures



How to make the trap ?

