







## Avocado Flower Phases



Female Phase Flower 'Reed'



Male Phase Flower 'Fuerte'







## **Pollination Terms**

*Effective Pollination* – pollination which leads to fertilization *Non effective pollination* – pollination which does NOT lead to fertilization

*Fertilization* – the fusion of the male gamete with the female gamete forming the zygote



# Within the tree overlapping of female and male flowers







## Why does the avocado tree produce so many flowers?

- The whole tree acts like a giant "sunflower" with many small flowers
- More flowers are fertilized than the tree can carry to harvest
- Competition and selection - survival of the fittest!





































How many bee hives per acre are needed?

1-4 strong bee hives per acre depending on the amount of competing bloom

#### How many honey bees per tree are necessary?

A minimum of 20 bees per medium size tree during full bloom

Count the bees you see traveling from flower to flower

Count by tree sector (divide tree in 6 sectors and count each sector for about 10-15 seconds)



### For maximizing yield one needs:



