THE TWO YEAR ALTERNATE BEARING CYCLE: This is a general diagram only and does not describe accurately any individual grove or growing district in California. Sink strength changes each year, in an "off-crop" year it is mostly to flowers and fruit, in an "on-crop" year it is mostly to growth.

MULTIPLE SHOOT GROWTH CYCLES HAPPEN AT THE SAME TIME:
- there can be several happening at the same time
- the challenge is to get these in balance with one another
- each year only looks like one series of events but are a combination of different stages of the growth cycle

SHOOT LIFE CYCLES: Each growth flush takes two years from bud break until fruit set on the flush are harvested

EXAMPLES OF CRITICAL TIMES FOR:

**Phytophthora** control: apply control measures when the roots are the primary sink; the best application times are indicated by the arrows

Calcium accumulation in the fruit: make sure calcium is available in the soil water in the first 6-8 weeks after fruit set as indicated by the arrows.