

TREE BIOLOGY

Physiology and Pruning Time

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Functions

- Photosynthesis
- Respiration
- Transpiration
- Nutrition
- Growth
- Development



Development depends on

- solar power
- sum of the positive temperatures
- optimal amount of rainfall



SAP RUNNING

- STRONG SAP RUNNING
 - *Vitis*
 - *Betula*
 - *Acer*
- NOTABLE SAP RUNNING
 - *Juglans*
 - *Prunus*



SAP RUNNING

- MIDDLE SAP RUNNING

- *Ulmus*
 - Carpus*
 - Fagus*
 - Sorbus*
 - Populus*
 - Aesculus*

Birch (*Betula pendula*) pruned in spring





Dormancy



- three different periods:

- PRE-DORMANCY

- TRUE DORMANCY

- POST-DORMANCY



Photoperiodism

- Long-day plants
- Short-day plants (roses, some *Salix*, *Amorfa*)

Amorfa





BEST PRUNING TIME

- ACTIVE GROWING PERIOD