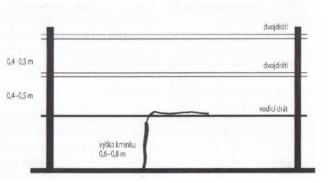
Medium training

- Most common training in the Czech Rep. (small-scale winemakers as well as commercial producers)
- Trunk height: 0.6 m (blue varieties) 0.8 m (white varieties)
- Spacing: 1.5-2.5 x 1.0-1.2 m
- 4,500-5,500 vines per 1 ha
- Support trellis system
- Good height allows for more convenient manual treatment of the vines
- The higher the trunk, the later the bud break and flowering and the slower the grapes ripe
- Risk of grape rot is decreased
- Optimum use of biological potential of the vine

The so called Rhine-Hessen to

- Cane-pruned training
- Most common medium-height trair



- After planting
- Shorten the seedling (rootstock stem) to 2 buds, cover with soil to prevent bud drying out / waxing
- Tie the annual shoots to a wire
- Aim: Cultivate a good-quality trunk without cutting wounds

bottom annual shoot – better connection to the root system













Plastic tubes

- Start after removal of suckers
- 5 cm into the soil
- Tubes suppress lateral shoot development
- Protect against game, herbicides
- Provide grapevine with optimum growing conditions
- Adverse conditions for fungi (mould, powdery mildew)
- Remove in winter
- Until green shoots grow out from the tubes, no need to treat the vine for diseases



- During cultivation of the trunk, eliminate grape clusters
- Grapes significantly weaken the growth



Construction of wine supports
Stakes:

Steel

Concrete

Wooden

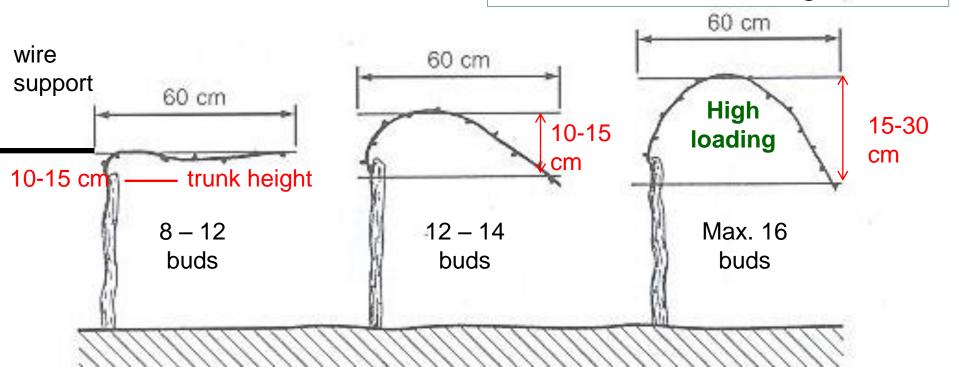
Plastic

Height of the trellis

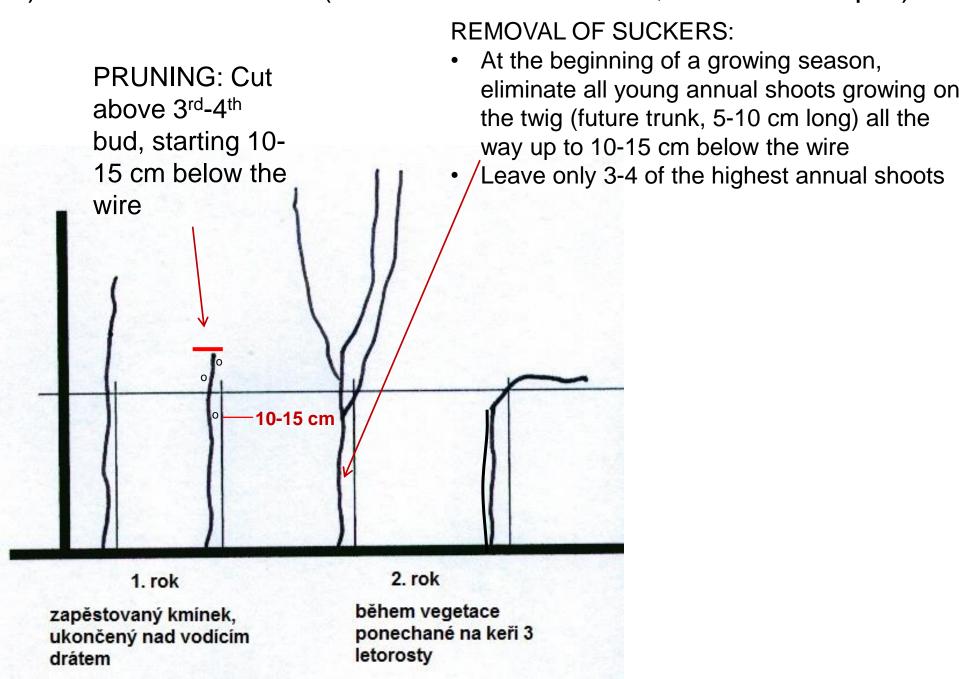
Techniques of cane training

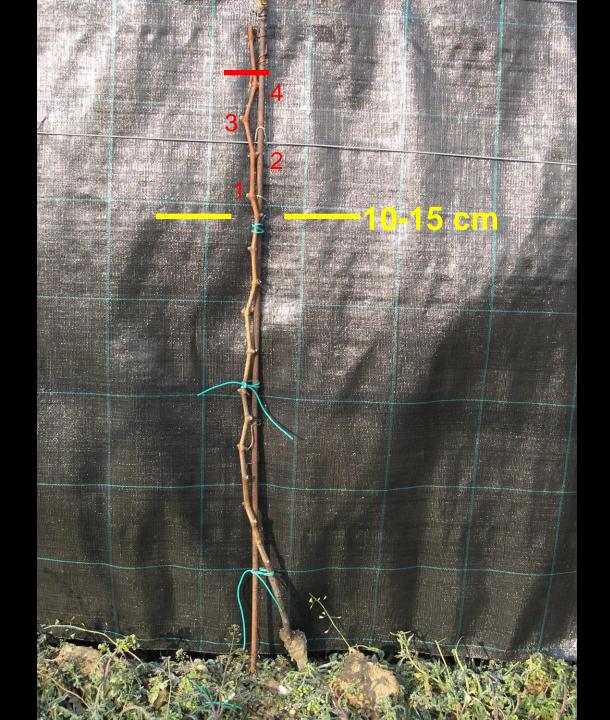
- 1. Horizontal arched canes
 - Better: annual shoots and grape clusters are at the same height, easier picking
 - Tedious tying to the wires
- 2. Semi-circular arched cane
- 3. Circular arched cane

Various bending and arching methods affect loading of vine

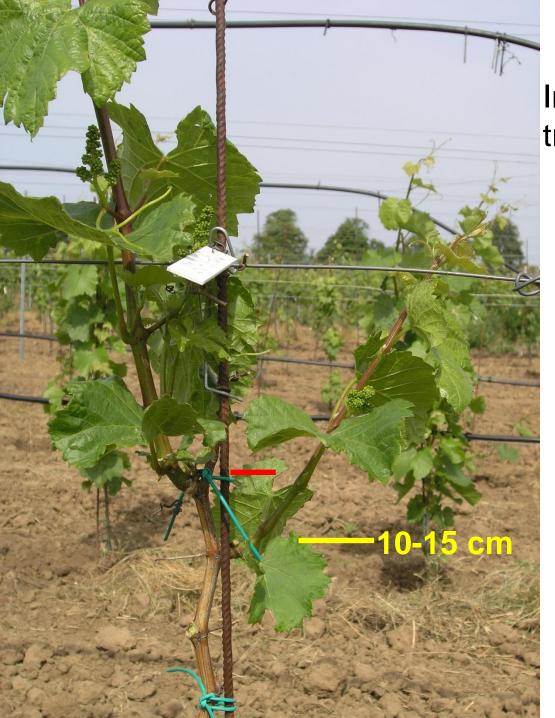


a) Cultivation of trunk (horizontal arched cane, no renewal spur)





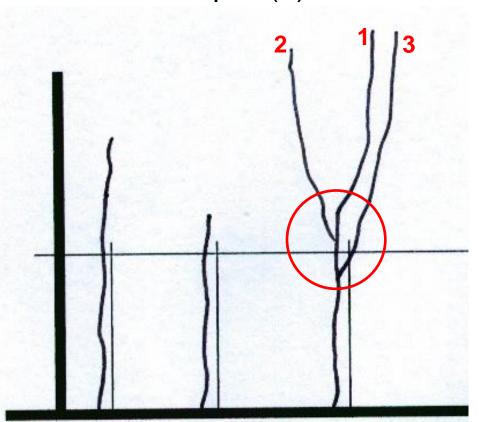


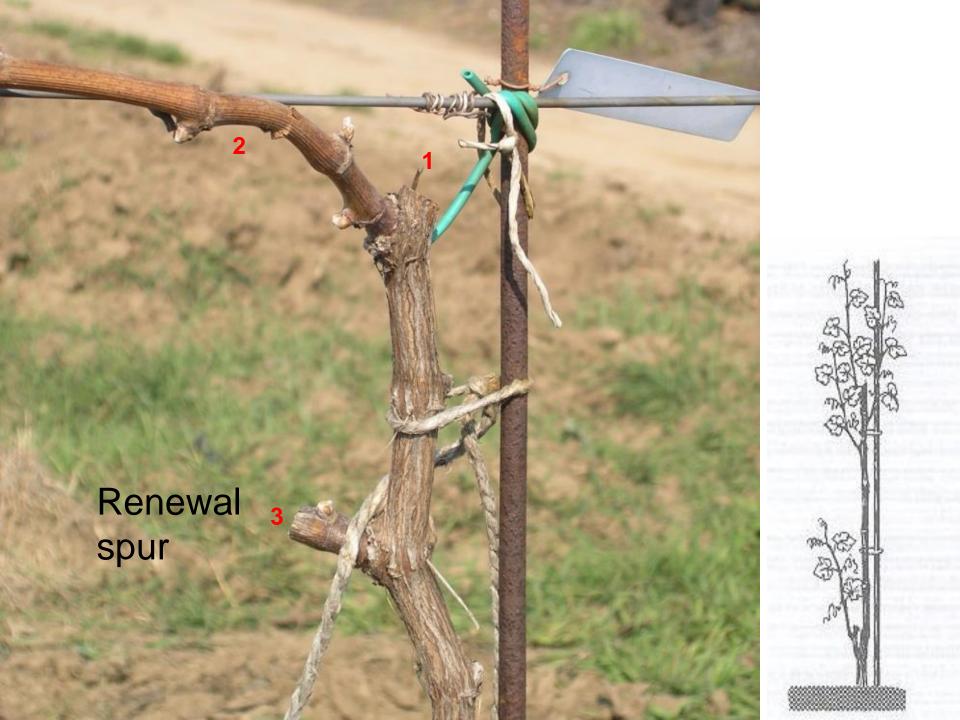


Improper pruning of a future trunk

- Low below the wire
- Only 2 annual shoots may be left on the trunk in order to eliminate number of cutting wounds, shoots grow vigorously

- b) Cultivation of trunk with renewal spur
 - The highest positioned shoot is eliminated (1)
 - A lower positioned shoot is cut to a 4 to 6-bud cane (gradual loading); once the sap starts flowing, the cane is bent; this suppresses the growth (2)
 - The third shoot is left and shortened to create a 2-bud renewal spur (3)





Renewal spur

- A one-year old wood, max. 2 buds
- Important for maintenance of a vine structure
- Often grows on the old wood
- Always closer to the roots than fruiting wood

