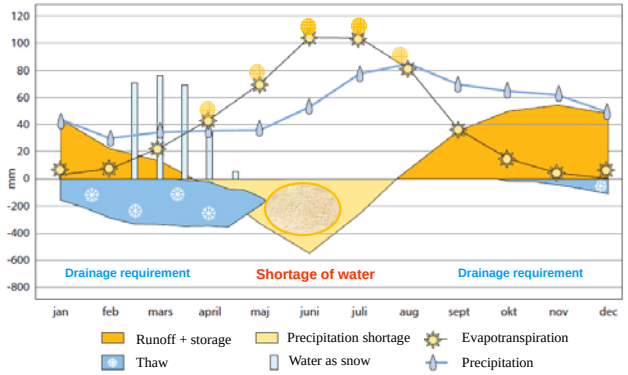
By-pass flow prevention on farmlands with controlled drainage.

R.Rosendahl & P.Österholm
Photos R.Rosendahl

Drainage requirement

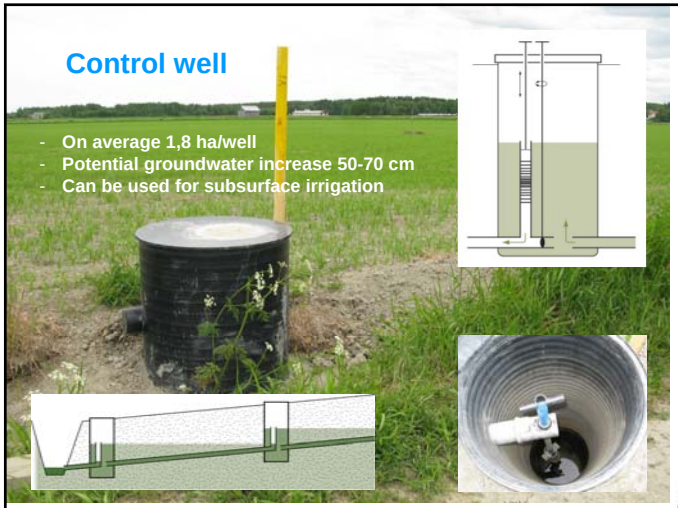


Subsurface drainage

- Space between drains 10 – 40 m
- Plastic pipe 350 – 750 lm/ha
- Subsurface drainage in Finland~60 %

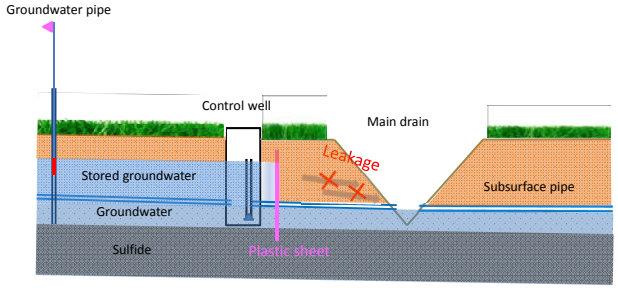
Control well

- On average 1,8 ha/well
- Potential groundwater increase 50-70 cm
- Can be used for subsurface irrigation



Water escapes through soil cracks from our well structured fine grained sediments

Controlled drainage with plastic sheet



RR & PÖ

Plastic sheet

- Width 1,5 m, length 40 m
- Armoured roof underlay

Sulfide

- Depth 1,3 – 1,6 m
- Dark to dark-blue color
- Unstructured soil

Installation of plastic sheet

- Installation with drainage machine
- 1.8 m deep
- Must reach unstructured soil