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### Vad styr dräneringen?

- Jordart
- Infiltrationshastigheten
- Brunnars status
- Utlopp
- Kantdiken
- Utloppsdiken

#### Dimensionering av täckdikning

Täckdikning och diken i jordbruksmark är oftast dimensionerade för hög flöden som återkommer upp till vart 2-5 år.

Ca 1 l/s.

*Framtiden bör man dimensionera 2 l/s*

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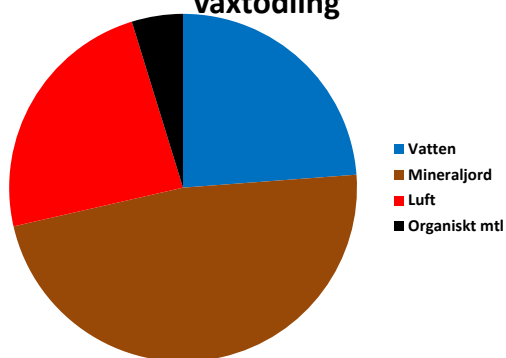
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### Markens optimala fördelning för växtodling




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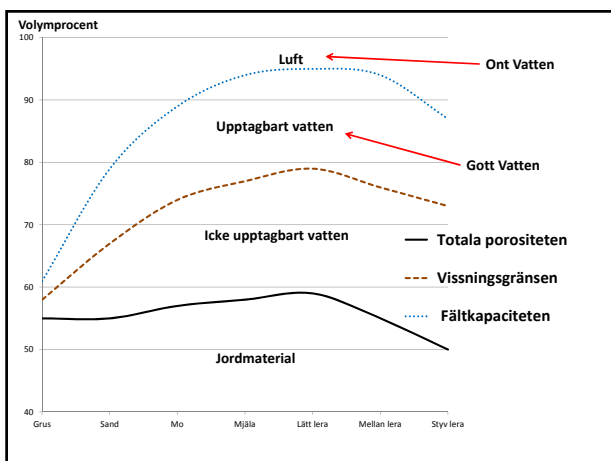
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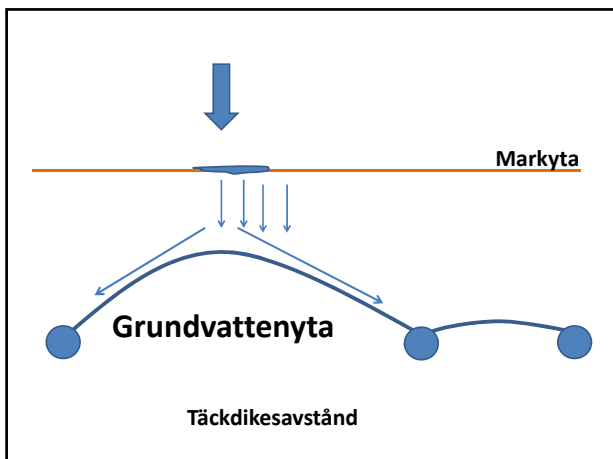
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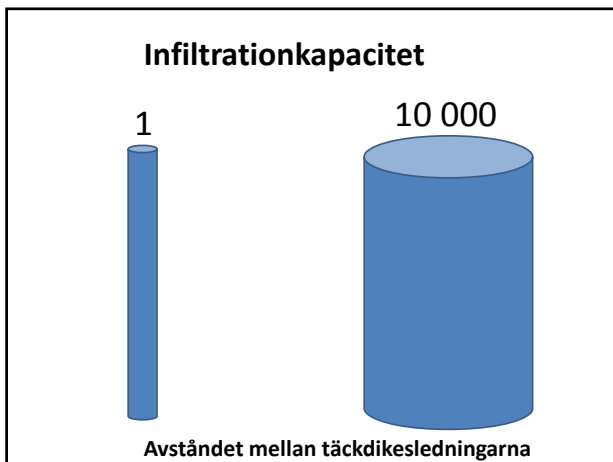
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När gjordes underhållsåtgärder senast?



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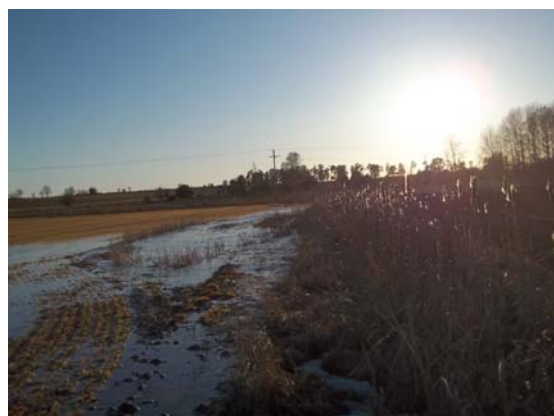
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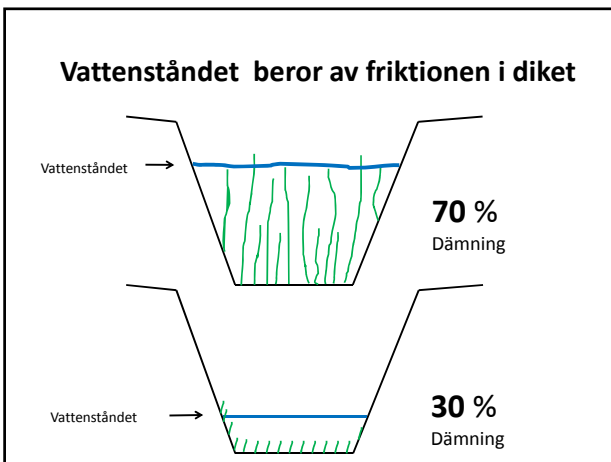
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**Backdike**

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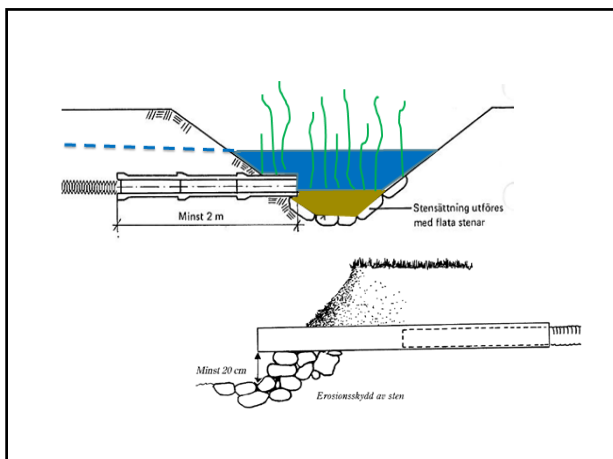
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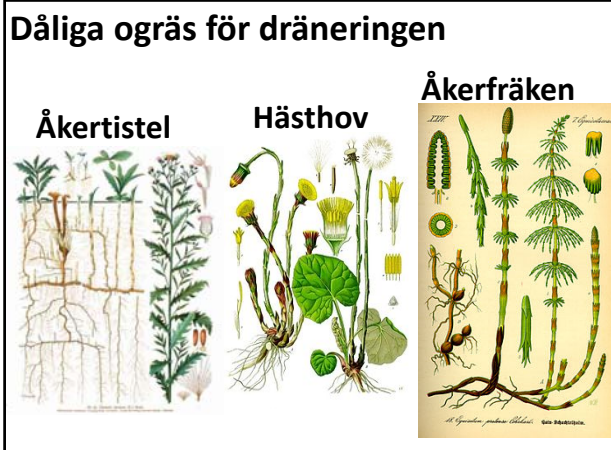
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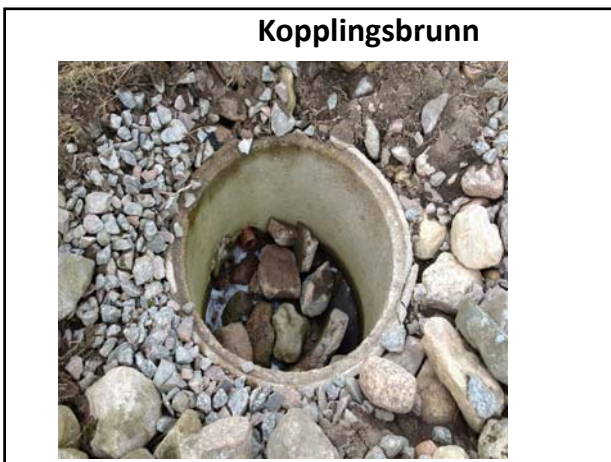
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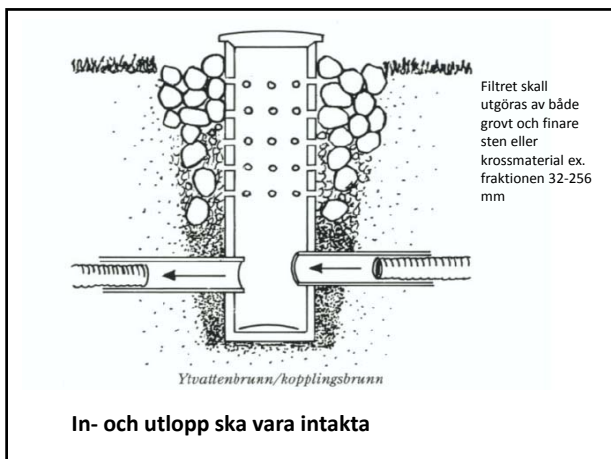
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Kalciumets kemiska effekt på lerkolloiderna

$\text{Ier-2H}^+ + \text{Ca}^{2+}$

→

$\text{Ier-Ca}^{2+} + 2 \text{H}_2\text{O}$

Gynnas av hög Ca-jonkoncentration

ökad aggregatbildning  
lägre vattenbindning, mindre såpighet  
minskad tendens till krympning/svällning  
mycket snabb reaktion (1/2-2 timmar)

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## Kalkningsprodukter

- SMA Cresco Optimal
- Nordkalk Aktiv Struktur

Produkterna innehåller ca 10-20 % fritt CaO, Ca<sup>2+</sup>  
80-90 % kalksten (kalciumkarbonat, CaCO<sub>3</sub>)

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## Vilka fält?

- Fält med god dränering
- Över 15 % ler
- Fält som har problem med ytvatten och yterrosion
- Fält nära vattendrag




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## Giva och tidpunkt

- 5-10 ton (*strukturkalk*)/ha efter lerhalten
- 500 kg fritt Ca<sup>2+</sup>/ha
- När marken har god struktur t.ex. vallbrott, träda eller efter skörd
- Undvik regn
- Låg markfukt (juni, juli, augusti)

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### Spridning 6-10 ton/ha



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### Inbrukning

Kostnad 500 kr/bearbetning  
1000-1500 kr/ha



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Juli



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### Maximal effekt av strukturkalken

- Väl fungerande dränering
- Ler som strukturkalken kan reagera med
- Undvik regn vid inblandningen
- Bra inblandning av strukturkalken
- Hög marktemperatur
- När man har en bra markstruktur
- Gör en problemkarta över fältet

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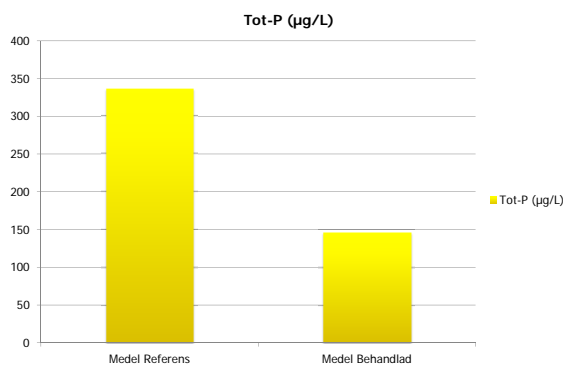
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Ca 150 vattenprover från ca 30 platser




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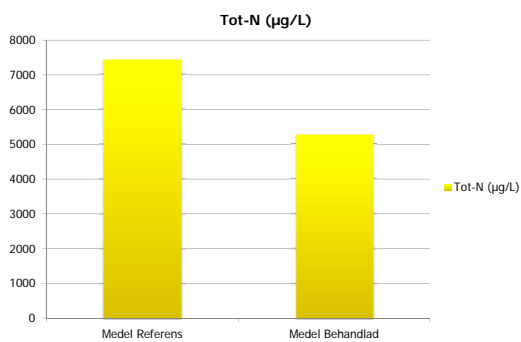
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### Strukturkalkning av Alven?



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Praktiska erfarenheter 50 ha,  
Förfrukt Lusernvall  
Bearbetning 25/6 2013  
Rapssådd 28/7



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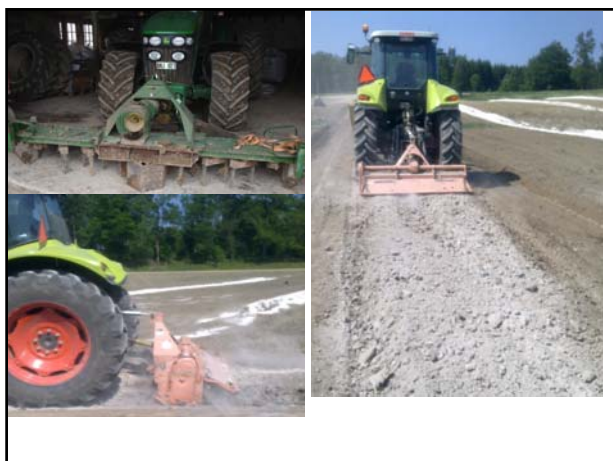
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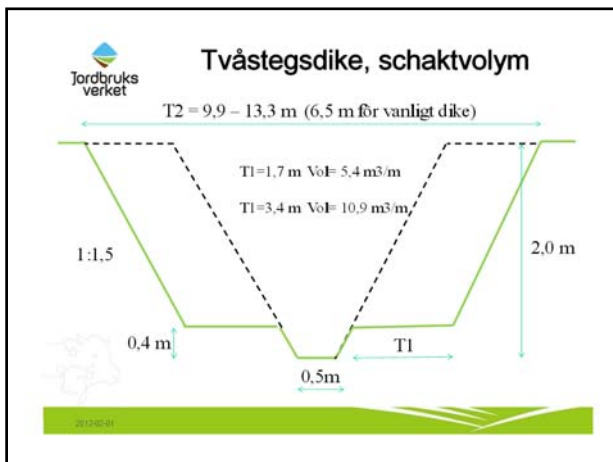
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Avfasning av dikesslänter,  
Tvåstegsdike



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# Våtmark




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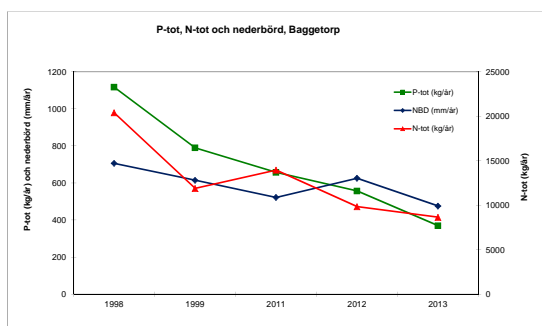


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## Resultat årsvis Baggetorpsån




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