



Functions of soil				
1	Ecological	Processingmachine [o.m.] buffering, water, nutrients, reservoir, foodweb, residence		
2	Production	Agriculture	→	[o.m.], pesticides pathogenes
3	Storage	Minerals water, heat, waste	→	Mining
4	Basis	Houses, roads, cables building subsoil	→	Isolations

2, 3 en 4 in conflict with 1 (direct or indirect)

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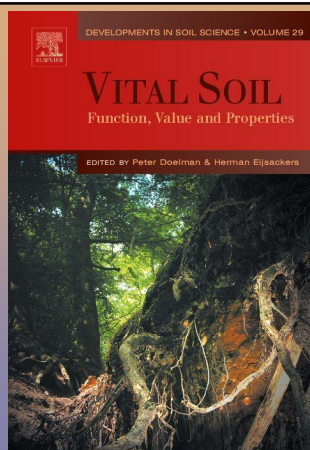
## Don't let your best friend down

Herman Eijssackers on living concepts • Niels van Breemen on soil formation • Wilfried Ernst on vegetation and organic matter • Herman Verheul on soil biota and activity • Willy Verstraete & Rijkman Meentemeyer on soil moisture • Niels van Breemen on soil remediation • Peter de Baat on soil food-webs • Niels van den Brink on food chains • Willy Peijtersburg on life of soil communities • Ton Breure on ecological soil monitoring • Peter Doelman on synthesis for soil management •



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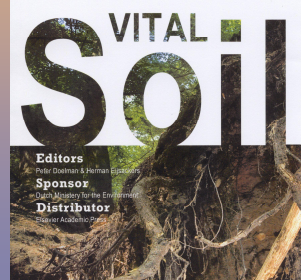
**VITAL SOIL**  
Function, Value and Properties

EDITED BY Peter Doelman & Herman Eijssackers

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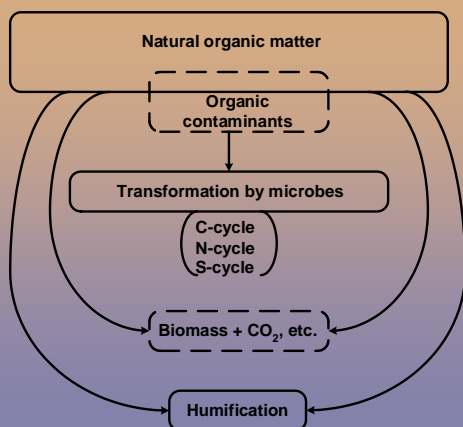
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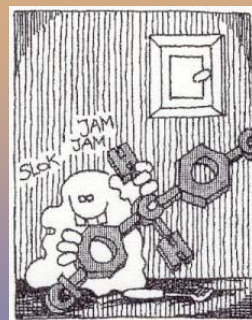
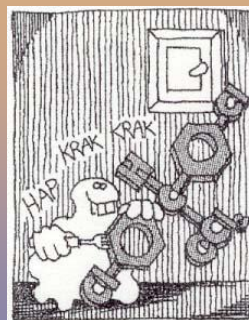


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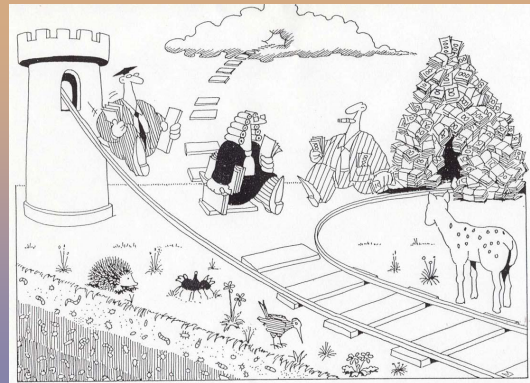


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Taxon	beschreven soorten
Insecta	751,000
Plantae (multicellulaire planten)	248,428
Non-insect Arthropoda (mijten, spinnen en schaaldieren)	23,151
Mollusca (schelpdieren, inktvissen)	50,000
Fungi (schimmels)	46,983
Protozoa	30,800
Algae	26,900
Pisces (vissen)	19,056
Platyhelminthes (platwormen)	12,200
Nematoda (rondwormen)	12,000
Annelida (aardwormen)	12,000
Aves (vogels)	9,040
Coelenterata (kwallen, koralen)	9,000
Reptilia (reptielen)	6,300
Echinodermata (zeesterren e.d.)	6,100
Porifera (sponzen)	5,000
Monera (bacteriën)	4,760
Amphibia (amfibieën)	4,184
Mammalia (zoogdieren)	4,000



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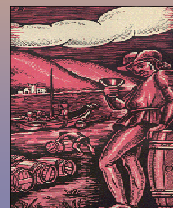
34

Five thousand years before us  
they filled a bottle stone  
With rice and fruit and grapes again  
and left it all alone



35

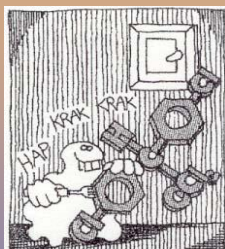
Spontaneous generation  
they credit Bacchus for  
But it was fermentation  
we strongly still adore



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### All together

Little creatures  
they do vital things,  
vital things.  
Little creatures,  
they do vital things!  
Little creatures  
they do vital things,  
vital things.  
Little creatures,  
they do vital things!



37

Seven yellow ducklings  
were floating on a stream  
They did not kwek, they did not kwaak,  
they did not even dream



38



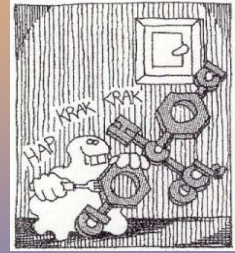
It was the end of august  
a hot day very bright  
They called it botulism  
and that is why they died



19

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20

She really was a lady  
he loved his lovely wife  
But one day it was over  
he killed her with a knife



21

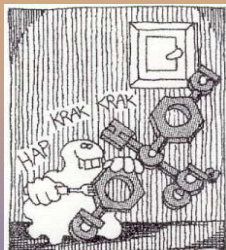
He buried her at night  
under a chestnut tree  
They only found her bones  
her teeth and a key



22

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23

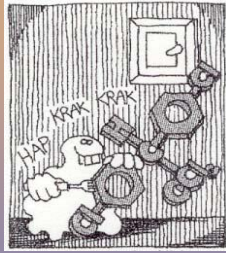
He owned a dry-clean store  
and when it starts to rain,  
he voided wasted water...  
into the sewer drain.  
Of course this was illegal,  
but brilliantly as well,  
since halo-respiration  
evolved in a living cell.

24



## All together

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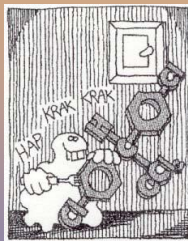
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They say attenuation,  
is very natural,  
where sorption and dilution,  
are involved as well.  
But purification power,  
is the best applicable.  
Is due to little creatures,  
they are infailable.

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## All together

C'est le rôle  
de micro-micro-micro-organisme  
C'est le rôle  
de micro miracle  
C'est le rôle  
de micro-micro-micro-organisme  
C'est le rôle  
de micro miracle

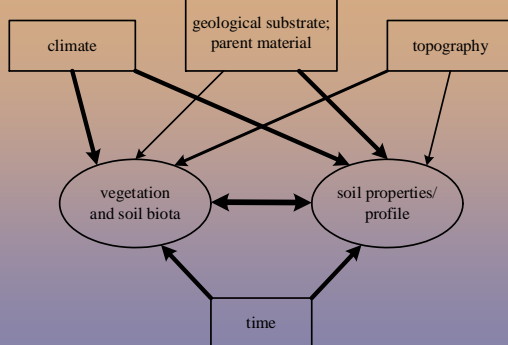


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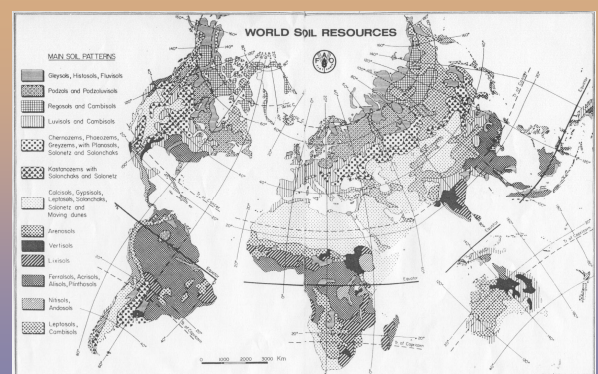
Soil = f [V, G, F, F, R, C, W, t]

F = function/expression

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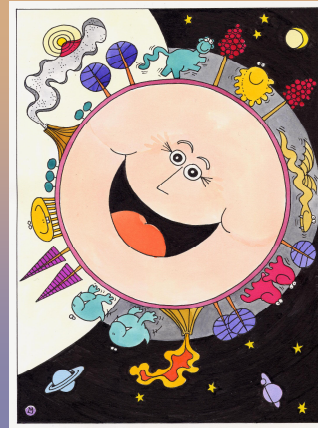
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Before .....	With ...
13 Soil patterns	1 diversity of anthrosols (highway-sols) (city-sols) (greenhouse-sols) (etc, etc)

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