

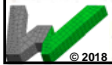
## Soil Structure, Cultivations and Establishment.

### An Optimum Combination of Roots and Metal??

June 2018.

Philip Wright

Wright Resolutions Limited

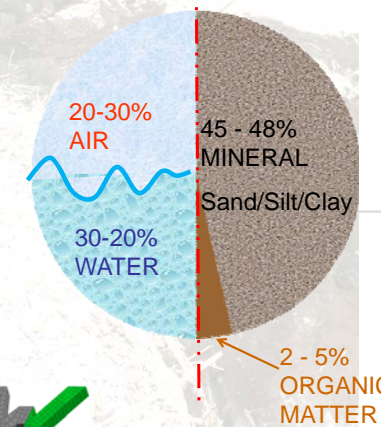


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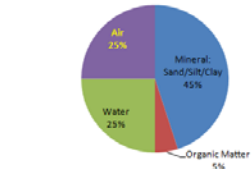
## Soil constituents

SOIL PORES

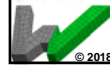
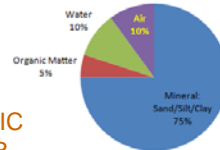
SOIL SOLIDS



Optimum



Compaction Limiting



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## Soil structure, Cultivations and Establishment.

### Discussion.

Soil structure: damage prevention & cure

Cultivations, or direct drilling, or ????

Farming systems –flexibility & resilience provided by organic matter

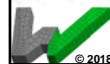
Roots and Metal – the optimum combination?

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Soil structure, cultivations & discussions - field



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## Damage prevention, cure & crop establishment



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## Strip / Ridge – Till



## Roots and/or Metal??



## Flexible system drills



## Final Reflections

"To be a successful farmer one must first know the nature of the soil"  
*Xenophon, Oeconomicus, 400 B.C.*

"A cloak of loose, soft material, held to the earth's hard surface by gravity, is all that lies between life and lifelessness"  
*Wallace H. Fuller*

"The nation that destroys its soil, destroys itself"  
*Franklin D. Roosevelt*

"Man, despite his artistic pretensions, his sophistications and many accomplishments, owes his existence to a six inch layer of top soil and the fact that it rains"  
*Chinese Proverb*

"Treat the earth well - it was not given to you by your parents, it was loaned to you by your children"  
*Indian Proverb*

"Upon this handful of soil our survival depends. Husband it, and it will grow our food, our fuel, and our shelter, surrounding us with beauty. Abuse it, and the soil will collapse and die, taking humanity with it"  
*Vedas, Sanskrit scripture, 1500BC*

"To forget our soils is to forget ourselves"  
*Ghandi*

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