



# Intercropping & allelopathy

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# Intercropping



- Farmer & Nuffield Scholar Andrew Howard gives a simple definition of intercropping as “the growing of two or more crop species where part or all of their crop cycle overlaps temporally and/or spatially, where one or more of the component species is taken to harvest”.
- Intercropping is not new
- Pulse as primary crop
- Benefits in terms of Land use (LER)



# Intercropping - allelopathy



Allelopathy is a biological phenomenon by which an organism (plant) produces one or more biochemicals that influence the germination, growth, survival, and reproduction of other organisms (plants). Known as allelochemicals they can have beneficial or detrimental effects on the target organisms.

- seen reductions in weed mass
- 2023 massive reduction in weed burden





# Intercropping - allelopathy






# Intercropping - allelopathy



  
**PEAS 70  
PLANTS/M<sup>2</sup>**



  
**PEAS 70  
& S.OATS 70  
PLANTS/M<sup>2</sup>**



# Intercropping - allelopathy



- Any use?
- first time seen in 7 years of trialling
- needs to be consistent
- can have negative effects

