

Grassland capability assessment using computer simulation

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Richard Simpson
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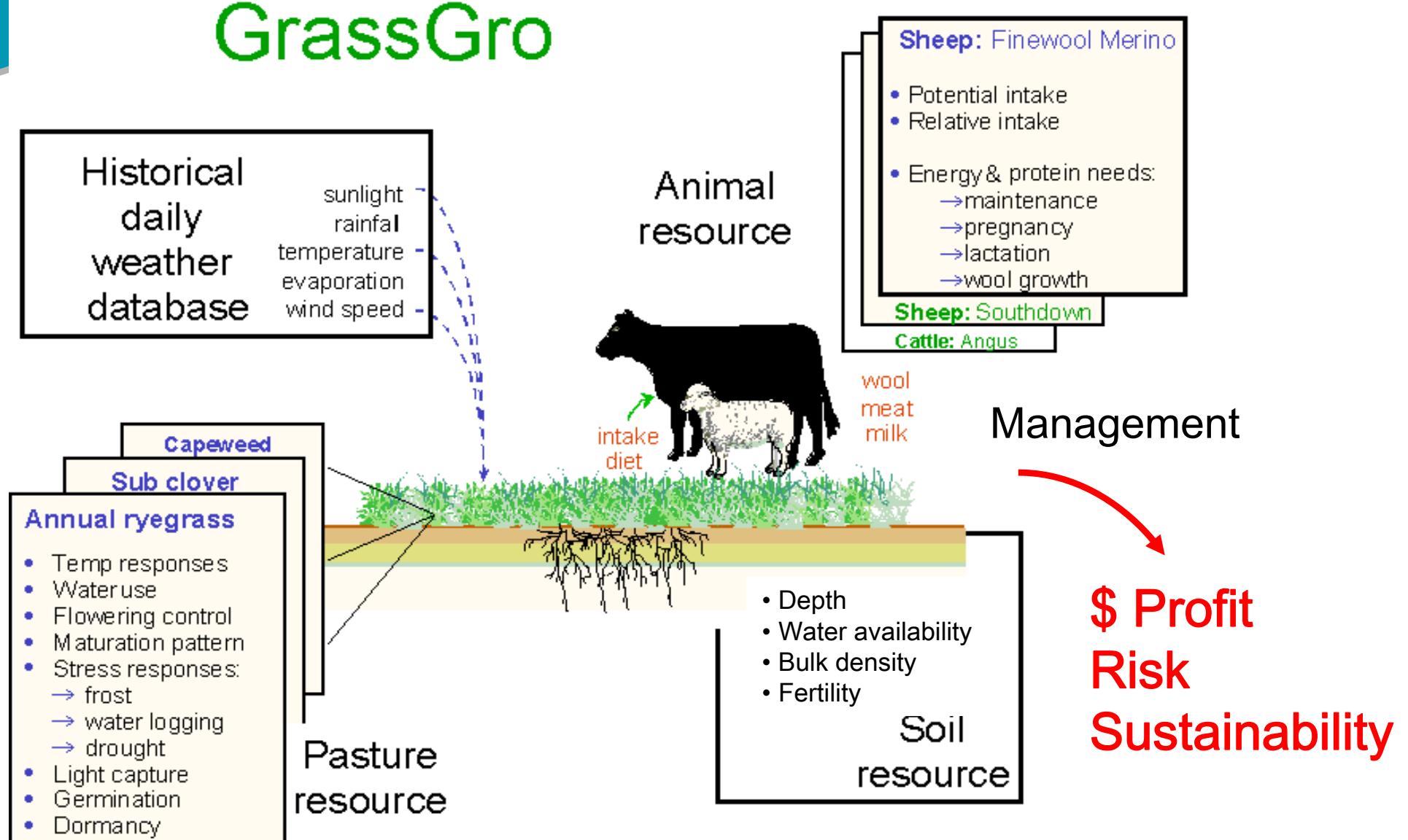
Adam Stefanski
David Marshall

Phil Graham - NSW Department of Primary Industry

Grant and Annette Burbidge - "Connemara"

Integrating grazing system resources

GrassGro



“Connemara” via Tarcutta, NSW

800 mm annual rainfall



perennial – annual pastures



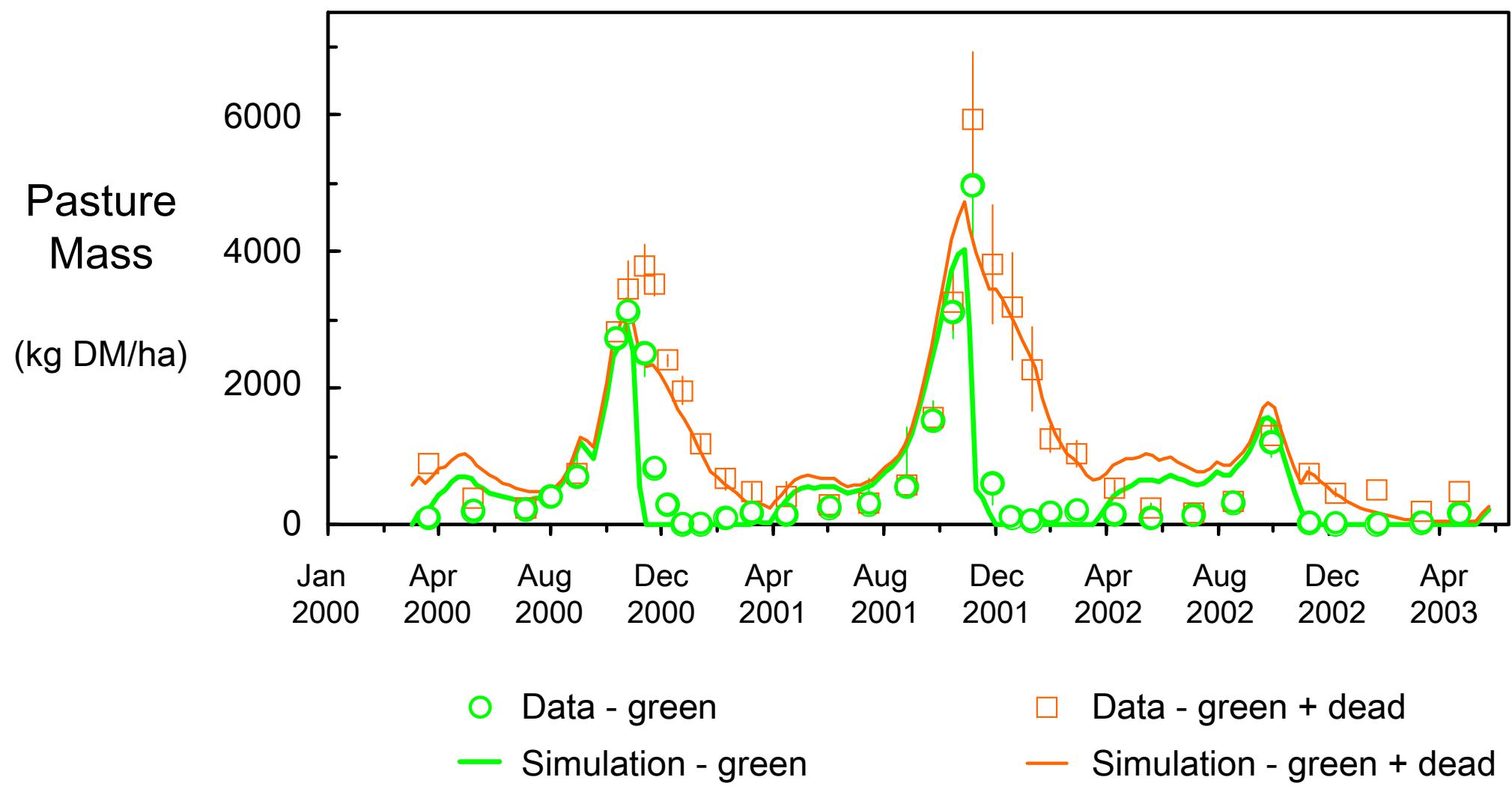
Fine wool



“Curse”
Landscape

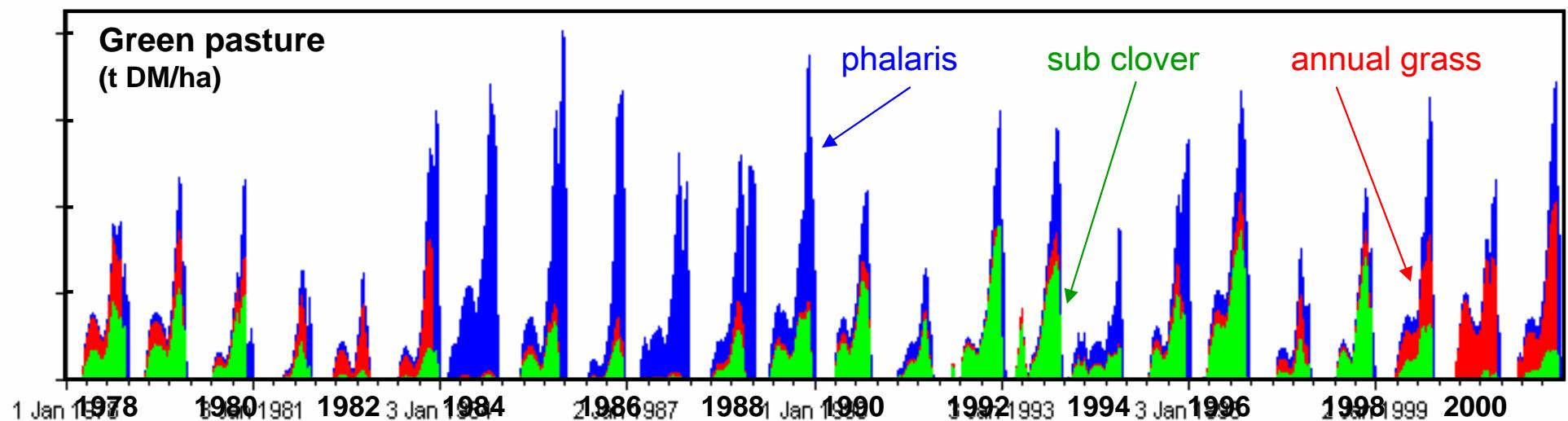
800 ha



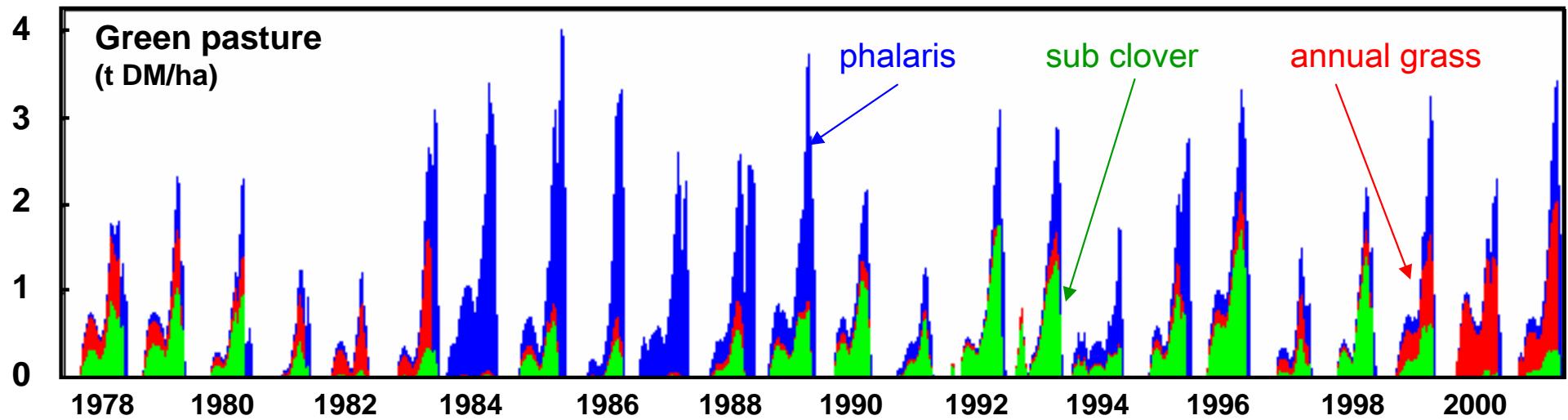
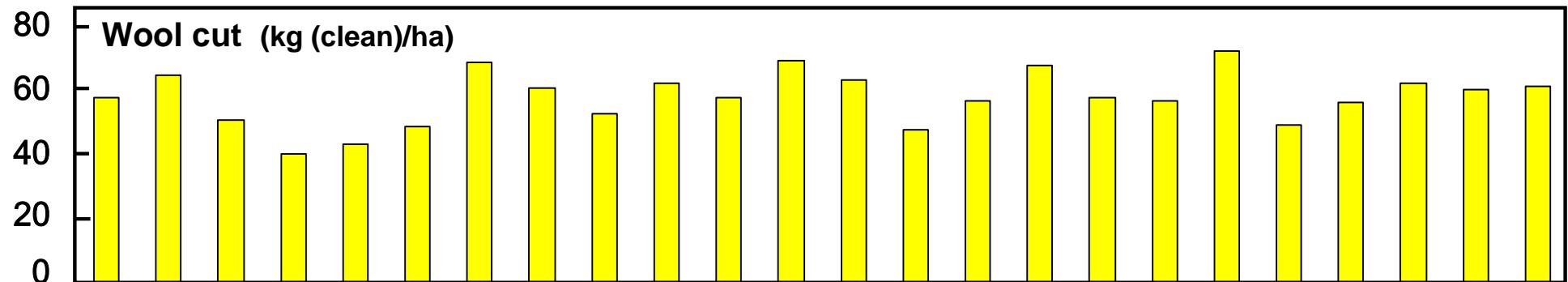


Simulation of pasture supply on “Curse” landscape

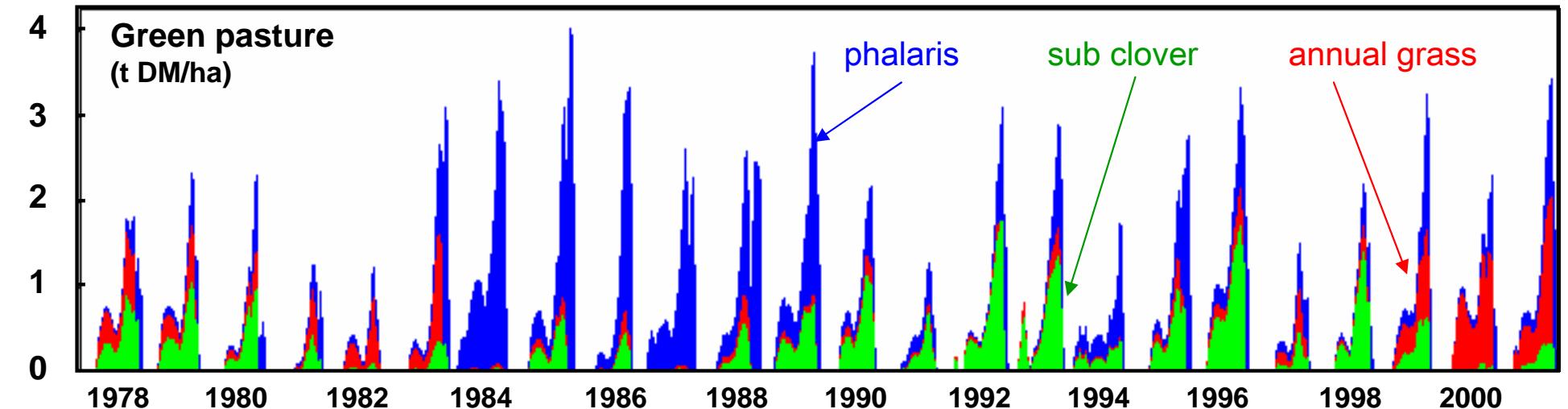
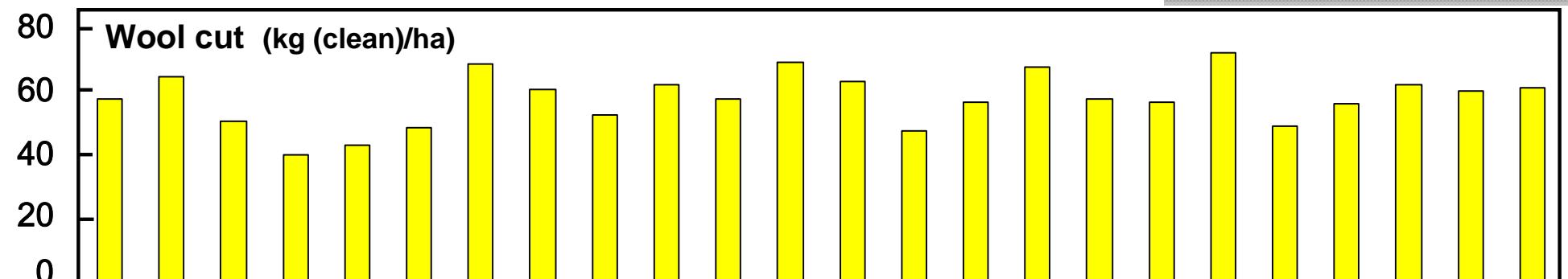
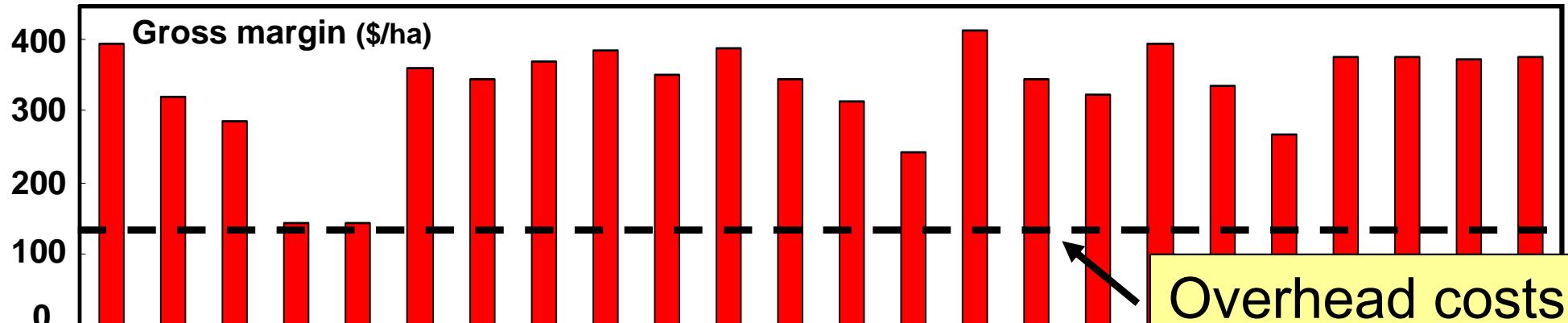
“Curse” landscape - long term production and income variability



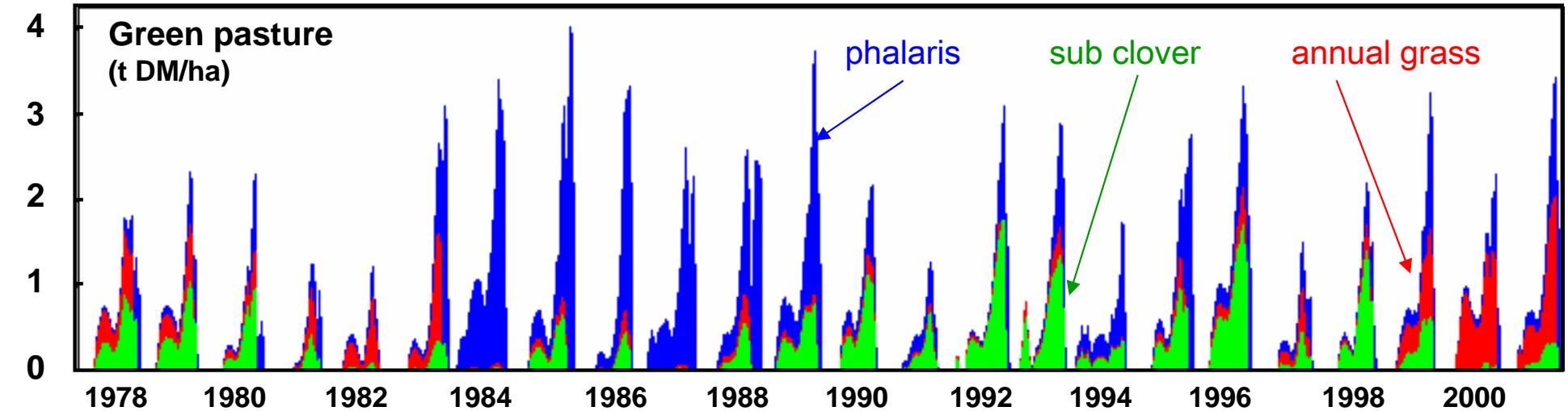
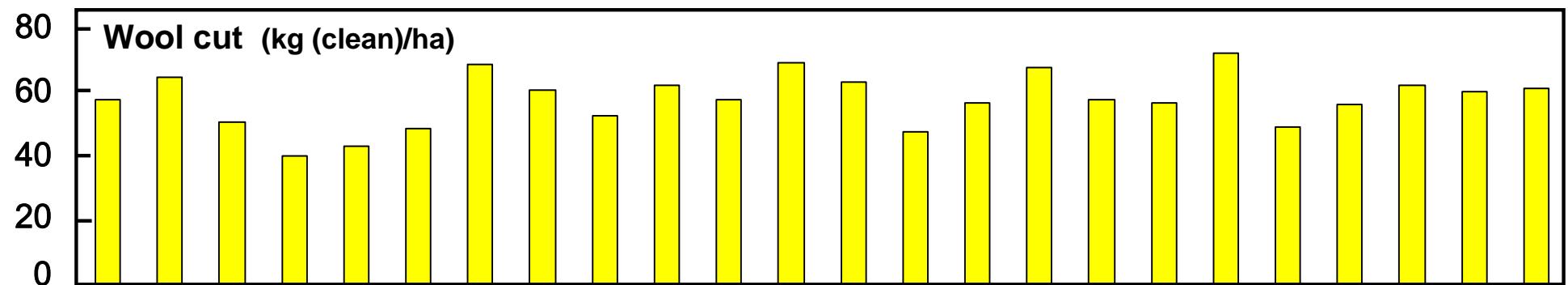
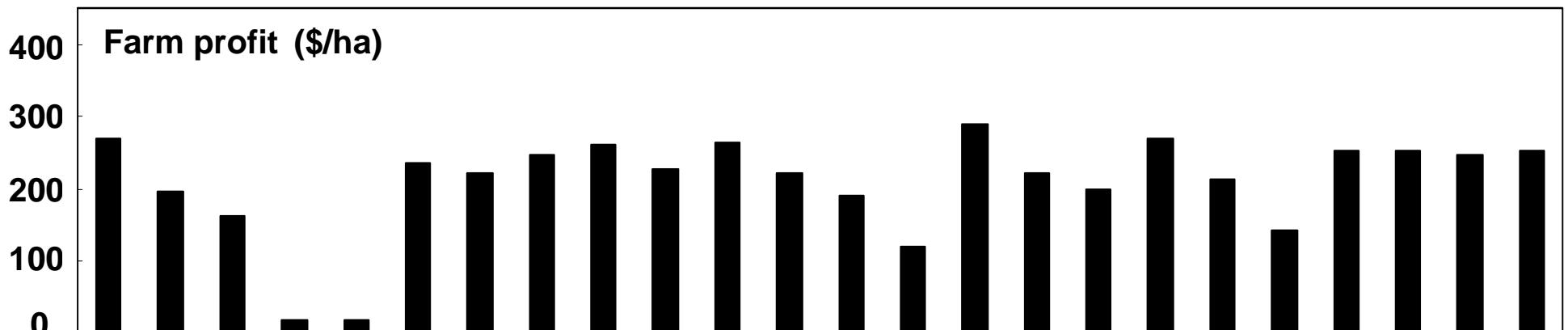
“Curse” landscape - long term production and income variability



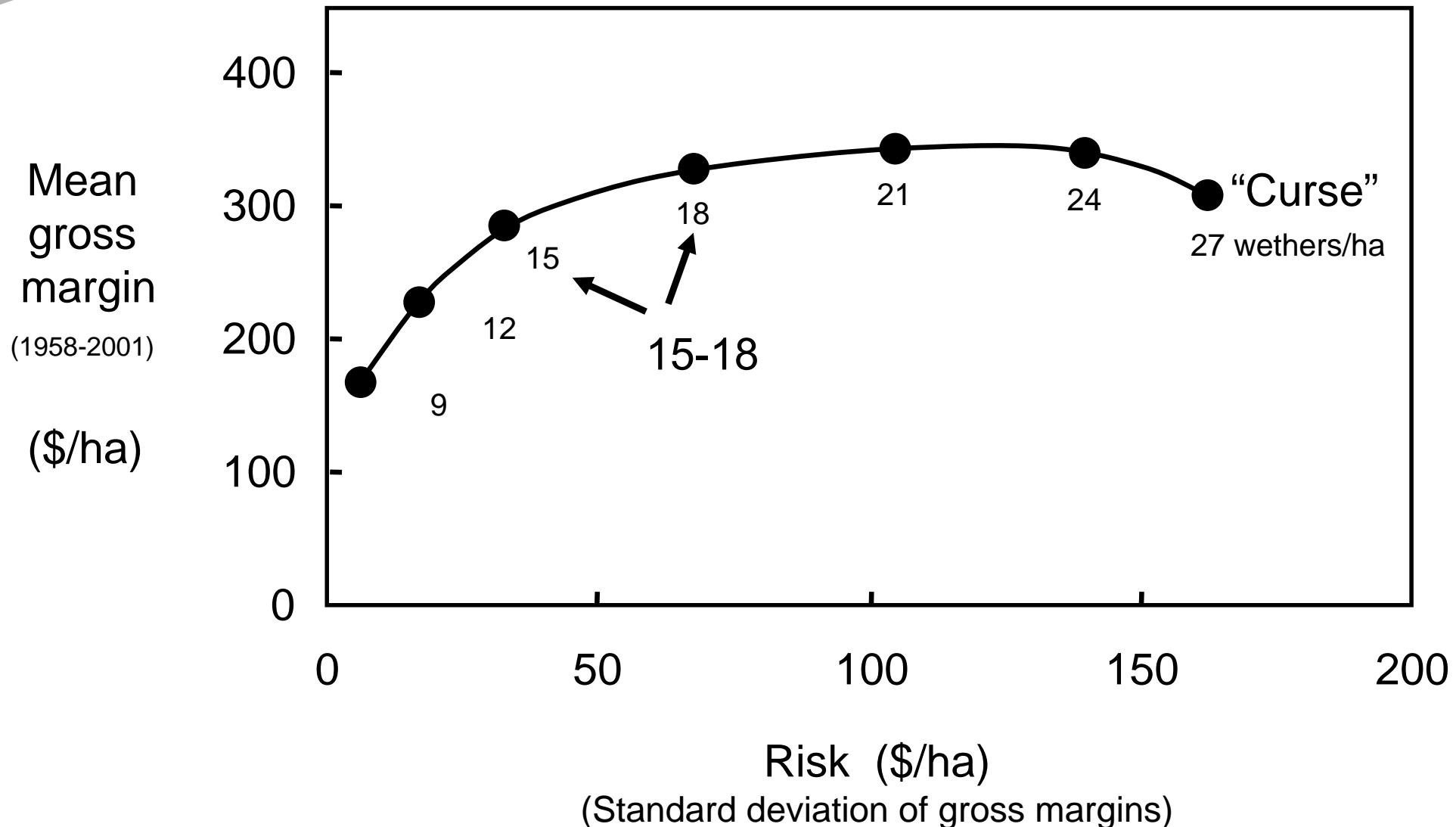
“Curse” landscape - long term production and income variability



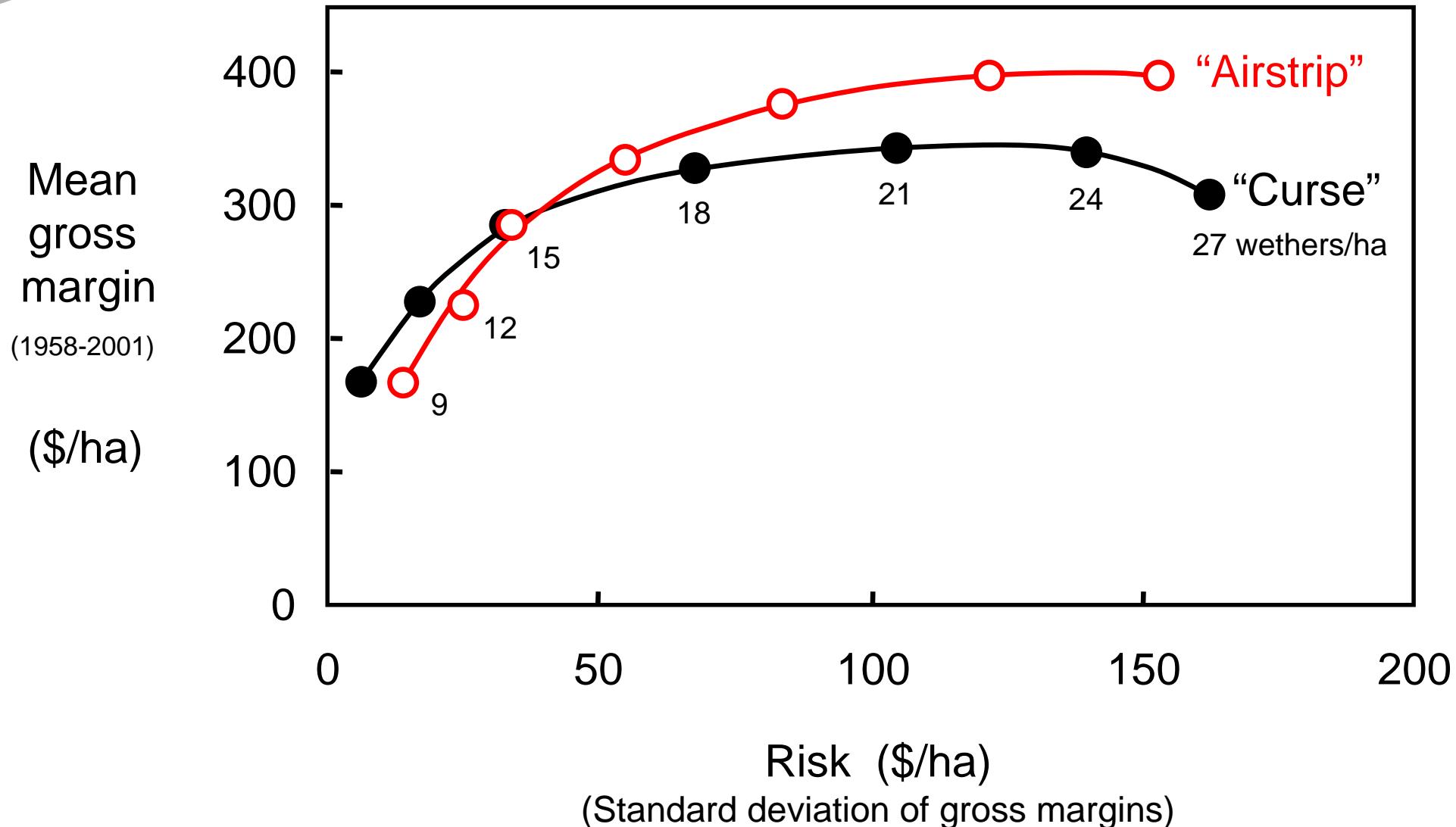
“Curse” landscape - long term production and income variability



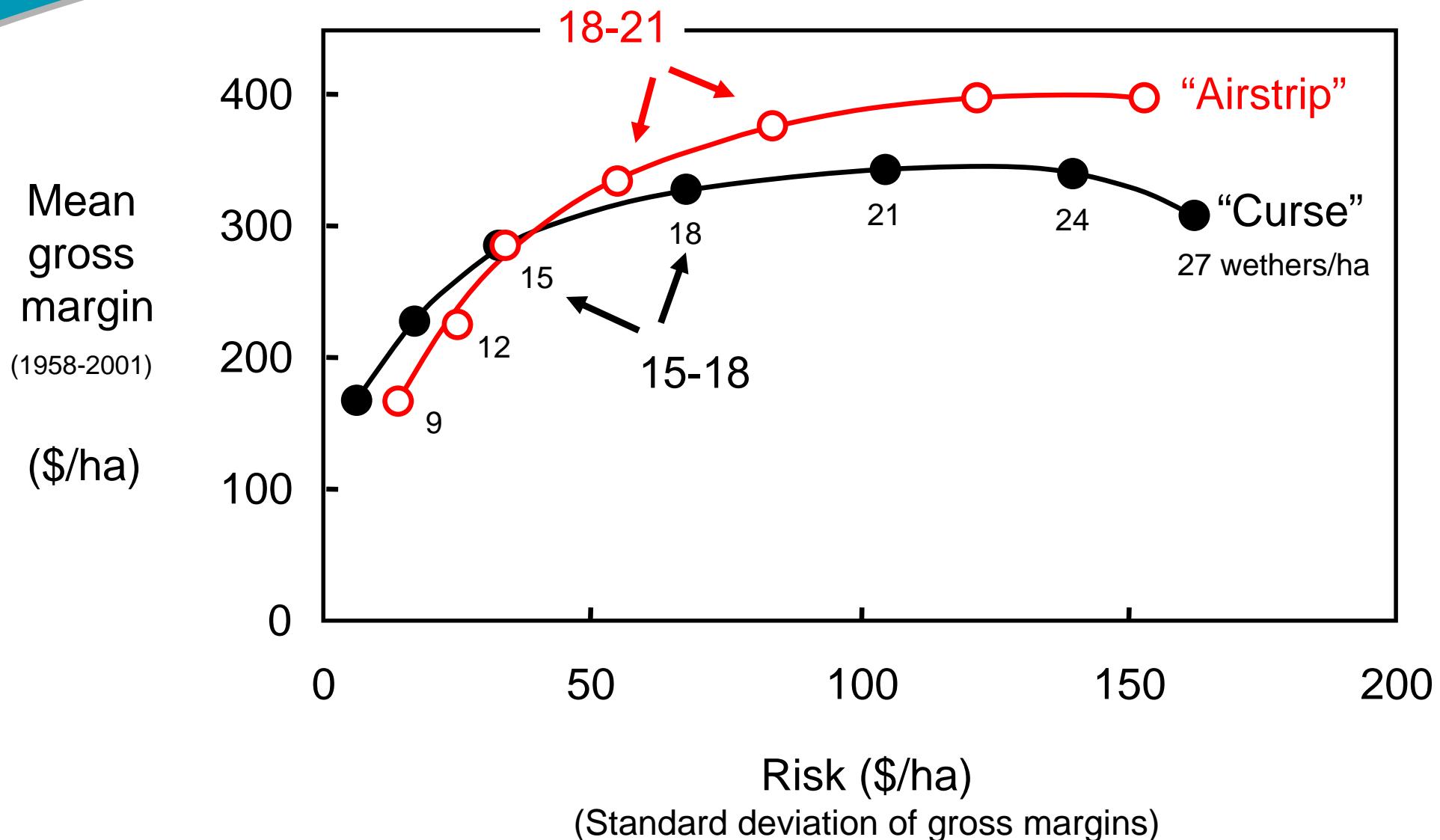
Potential vs risk



Comparing paddock performance



What is the best long-term position?



Sustainable farming systems?



Farm scale issues:

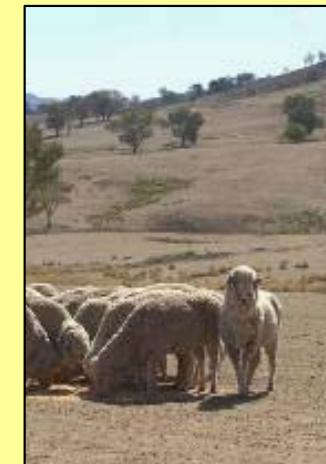
Profitability
Income stability



Soil acidity
Soil erosion
Biodiversity
Dryland salinity
Water balance

Landscape scale

Option 1: feed grain in paddock



Option 2:
de-stock & feedlot