



Red Hill

ENVIRONMENTAL
EDUCATION CENTRE 

STAGE SIX AGRICULTURE

Winona Farm

Preliminary Farm Case Study



UNIT OVERVIEW

Students visit and investigate the property 'Winona', north of Gulgong, managed by woolgrower and pasture cropping pioneer Colin Seis. Students explore and understand the various on-farm enterprises, the biological and physical resources of Winona and the overarching regenerative agricultural practices used to manage the farm. Students will explore the benefits and challenges of regenerative agriculture and how the practice not only fosters but exceeds the concept of sustainability.

"If we can restore a whole farm ecosystem, we can restore a whole catchment, a whole region, a whole country and if we get it right, we can fix this planet of ours as well." Colin Seis.

OUTCOMES

P1.1 describes the complex, dynamic and interactive nature of agricultural production systems

P1.2 describes the factors that influence agricultural systems

P2.3 describes the farm as a basic unit of production

P3.1 explains the role of decision-making in the management of agricultural products in response to consumer and market requirements

P5.1 investigates the role of associated technologies and technological innovation in producing and marketing agricultural products.



Students undertake a range of activities pre-, post and during the farm visit to learn about the farm as a production unit, farm management, marketing, farm technology and the agricultural workplace.

PRE- AND POST- MATERIALS

Schools will be supported prior to undertaking fieldwork with high quality teaching and learning activities to be completed prior to the farm visit. Students will develop an understanding of the development of Winona Farm and sustainable and regenerative agricultural practices. Suggested assessment tasks to be completed at the conclusion of the study will also be provided.

MEET THE FARMER: OVERVIEW AND Q & A

Farmer Col Seis presents an overview of the farm, the enterprises and the management practices to students. He describes the history of Winona Farm and how management practices have changed overtime, impacting the farm ecosystem in various ways. Students will have the opportunity to ask Colin questions and discuss key issues.

MAPPING FARM FEATURES

Students engage with topographical maps, aerial photos and catchment cross-sections in the field, locating and recording key features, study sites and travel routes.

INVESTIGATING THE BIOSPHERE HYROSPHERE AND LITHOSPHERE

Students tour key study sites across Winona Farm and engage with a range of field procedures to understand, explore and assess the impact of farming enterprises on the spheres and how these in turn, impact the production system. Activities include rapid vegetation surveys, catchment analysis, soil profile sampling and measuring groundwater and soil salinity

For bookings or further enquiries about this program, please contact Red Hill Environmental Education Centre on 02 6374 2558 or redhill-e.school@det.nsw.edu.au.

