



CRC

for

Premium

Quality

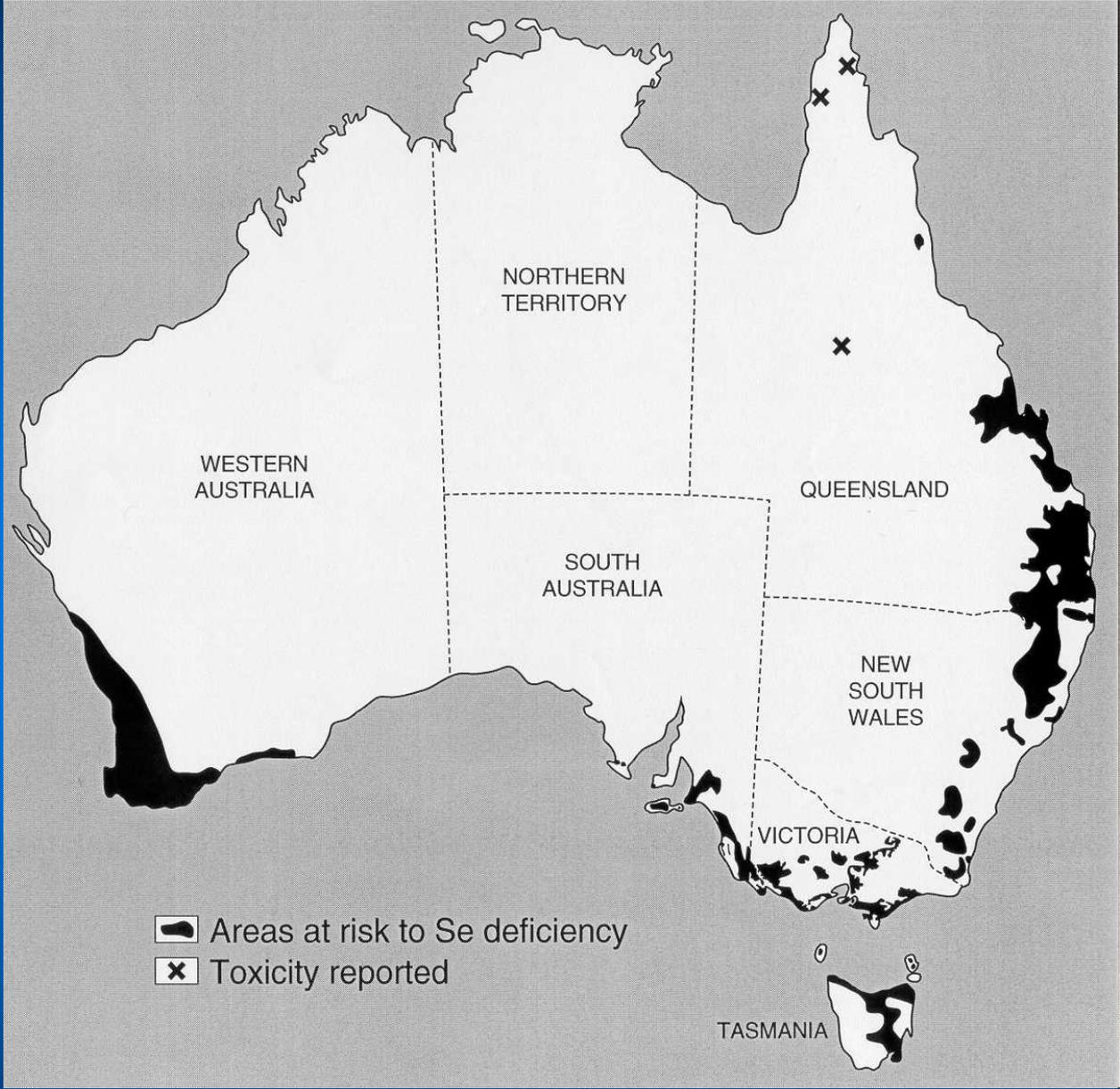
Wool

# Selenium Deficiency

Produced for the CRC for Premium Quality Wool undergraduate program by;  
Dr. David Masters, CSIRO Animal Production.



CRC  
for  
Premium  
Quality  
Wool





# Selenium

## Effects

- Lesions in heart and muscle
- Increased mortality
- Infertility
- Reduced growth
- Iodine interaction

## Occurrence

- Green pasture
- Low soil selenium
- High rainfall
- Rapidly growing or reproducing sheep
- Low vitamin E

CRC

for

Premium

Quality

Wool



# Selenium is required for peroxide detoxification

CRC  
for  
Premium  
Quality  
Wool

*Glutathione  
Peroxidase*

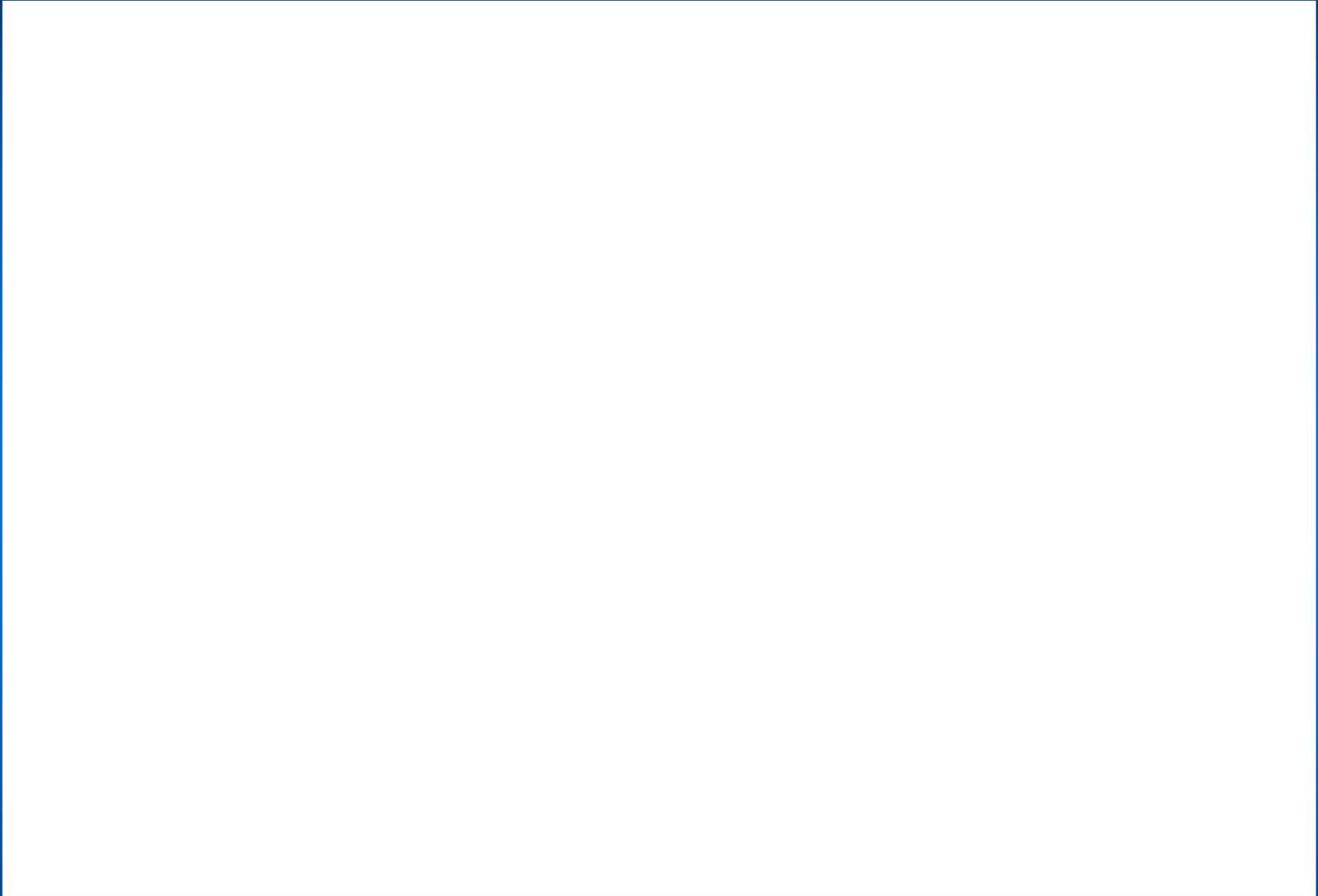


Reduced  
glutathione

Oxidised  
glutathione



CRC  
for  
Premium  
Quality  
Wool





# Selenium is required to convert thyroid hormones to an active form

CRC  
for  
Premium  
Quality  
Wool

*Deiodenase*

