The Effect of Photoperiod on Wool Growth

Produced for the CRC for Premium Quality Wool undergraduate program by;
Dr. Peter Wynn, The University of Sydney.
Photoperiod Effects

Wiltshire vs. Merino

- Horn growth
- Wool growth
- Plasma prolactin concentration

Summer
Prolactin/melatonin

- Hormonal basis for seasonality
- **Melatonin** released from pineal at night
  - may inhibit prolactin release in winter which may cause a decrease in wool growth
  - Pinealectomy increases wool growth (?)
  - Prolactin receptors in the skin