

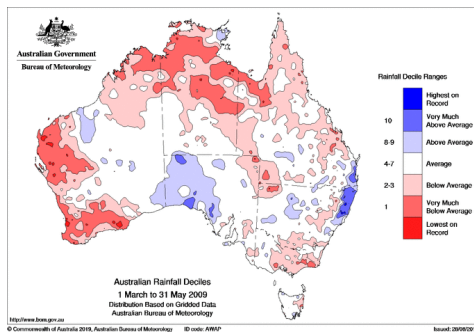
Note on inspection for Gumleaf skeletonizer (*Uraba lugens*) occurrence summer 2019-2020. 3 April 2020

Allan Wills

Previous modelling (Wills and Farr 2017) identified an indicator for summer gumleaf skeletonizer outbreaks in the Warren region to be extreme drought during the previous autumn (March, April, May), combined with long term below average rainfall for the previous 7 years. Below average and very much below average conditions in the previous seven-year period (see links below

<http://www.bom.gov.au/web03/ncc/www/awap/rainfall/decile/48month/colour/history/nat/2000060120040531.gif>

<http://www.bom.gov.au/jsp/awap/rain/archive.jsp?colour=colour&map=decile&period=48month&year=2009&month=5&day=31&area=wa>) were coincident with autumn drought in 2009 (see map below), and with a GLS outbreak resulting in summer of 2009/2010. Outbreak populations persisted for several years after this (Farr and Wills 2014).



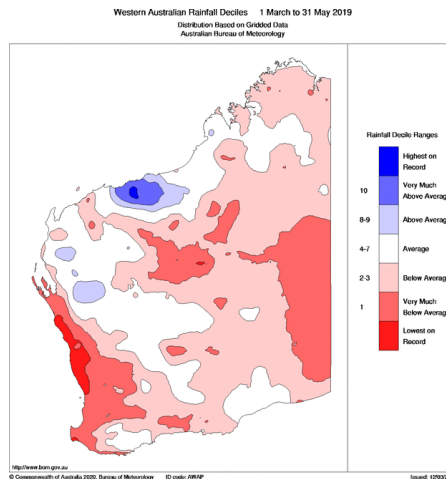
Long-term antecedent rainfall has been below average for parts of the Warren region (see links below

<http://www.bom.gov.au/web03/ncc/www/awap/rainfall/decile/48month/colour/history/nat/2011060120150531.gif>

<http://www.bom.gov.au/jsp/awap/rain/archive.jsp?colour=colour&map=decile&period=48month&year=2019&month=5&day=31&area=nt>)

Rainfall during the Autumn of 2019 was below average in some parts of the Warren region (see link below

<http://www.bom.gov.au/jsp/awap/rain/archive.jsp?colour=colour&map=decile&period=3month&year=2019&month=5&day=31&area=sa>) .



Inspection for GLS has revealed no outbreak populations although GLS was present as evidenced by larvae and minor skeletonizing associated with egg rafts along Brockman Hwy and Arthur Rd. As outbreak populations take time to develop continued inspection for GLS outbreaks is an inexpensive approach the task. Long term and autumn rainfall data freely available from BOM continues to be a useful cue for inspection for GLS.

Farr JD, Wills AJ (2014). *Gumleaf skeletonizer (GLS) monitoring using pheromone baited moth traps 2011-2014*. Department of Parks and Wildlife, Kensington, WA. 27 p.

Wills AJ, Farr JD (2017). [Gumleaf skeletoniser, *Uraba lugens* \(Lepidoptera: Nolidae\) larval outbreaks occur in high rainfall Western Australian jarrah \(*Eucalyptus marginata*\) forest after drought](#). *Austral Entomology* **56**, pp. 424–432