

# Agricultural 'tool-set'

Conventional meteorology provides passive decision support for growers, but cannot address their vulnerability to weather. The Miles Research project combines the bureau's weather forecasting with crop vulnerability data and a unique crop-shielding tool-set, to enable an active weather moderation that delivers improved yields across growing regions.

During last year's winter cropping season in the State of Victoria this technology was applied for a sustained period, commencing 8 May 2016 until February 2017 - with convincing results.

When annual client-area rainfall is graphed against Victorian cereal crop yields, a strong correlation becomes evident (*please see the chart below*).

A remarkable 'productivity jump' was observed for Victoria during the 2016-17 season. This, particularly evident when compared to the 2010-11 season (even though 2010 had received 20% more

rainfall), can be attributed both to the project's moderation of rain events (*equating to spatial and temporal adjustment to match optimal requirements*) and to the minimising of severe weather damage to crops, delivered across the region on behalf of clients.

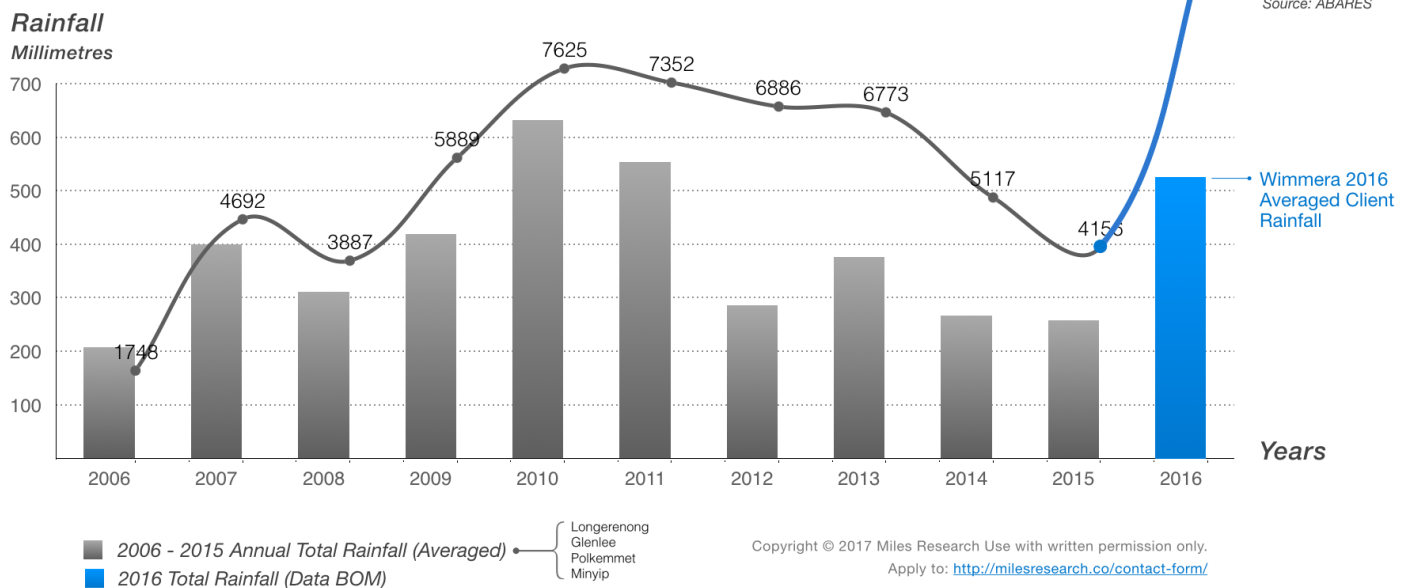
For more details, please see URL <http://milesresearch.co>

Chart (below): Australian Bureau of Meteorology (BOM) Rainfall data for Wimmera, Victoria. Source URL: <http://www.bom.gov.au> - comparison with Australian Bureau of Agricultural and Resource Economics and Sciences (ABARES) data. Source ABARES Report No. 181 February 2017 : <http://www.agriculture.gov.au>

## Wimmera Annual Rainfall (Averaged) Vs Victorian Winter Crops

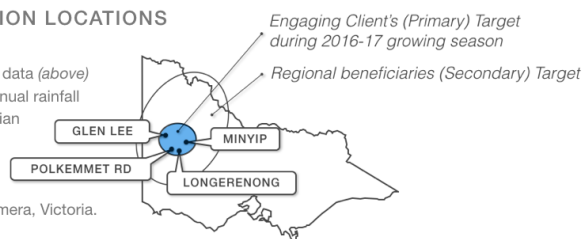
Australian Bureau of Meteorology (BOM) Rainfall data (Source URL: <http://www.bom.gov.au>)

Australian Bureau of Agricultural and Resource Economics and Sciences (ABARES) data (Source ABARES Report No. 181 February 2017 : <http://www.agriculture.gov.au>)



### \*WEATHER STATION LOCATIONS

Graphed station rainfall data (above) represents averaged annual rainfall totals, from four Australian Bureau of Meteorology registered weather stations within the client target in the Wimmera, Victoria. Location details below:



Station #	Station Name	Location Details
ID: 78014	Name: GLEN LEE	Lat: 36.26° S Lon: 141.86° E Height: 123 m
ID: 79023	Name: HORSHAM Polkemmet Rd	Lat: 36.66° S Lon: 142.07° E Height: 128 m
ID: 079028	Name: LONGERENONG	Lat: -36.67 Lon: 142.30 Height: 133.0 m
ID: 78029	Name: MINYIP	Lat: 36.46° S Lon: 142.59° E Height: 130 mm

