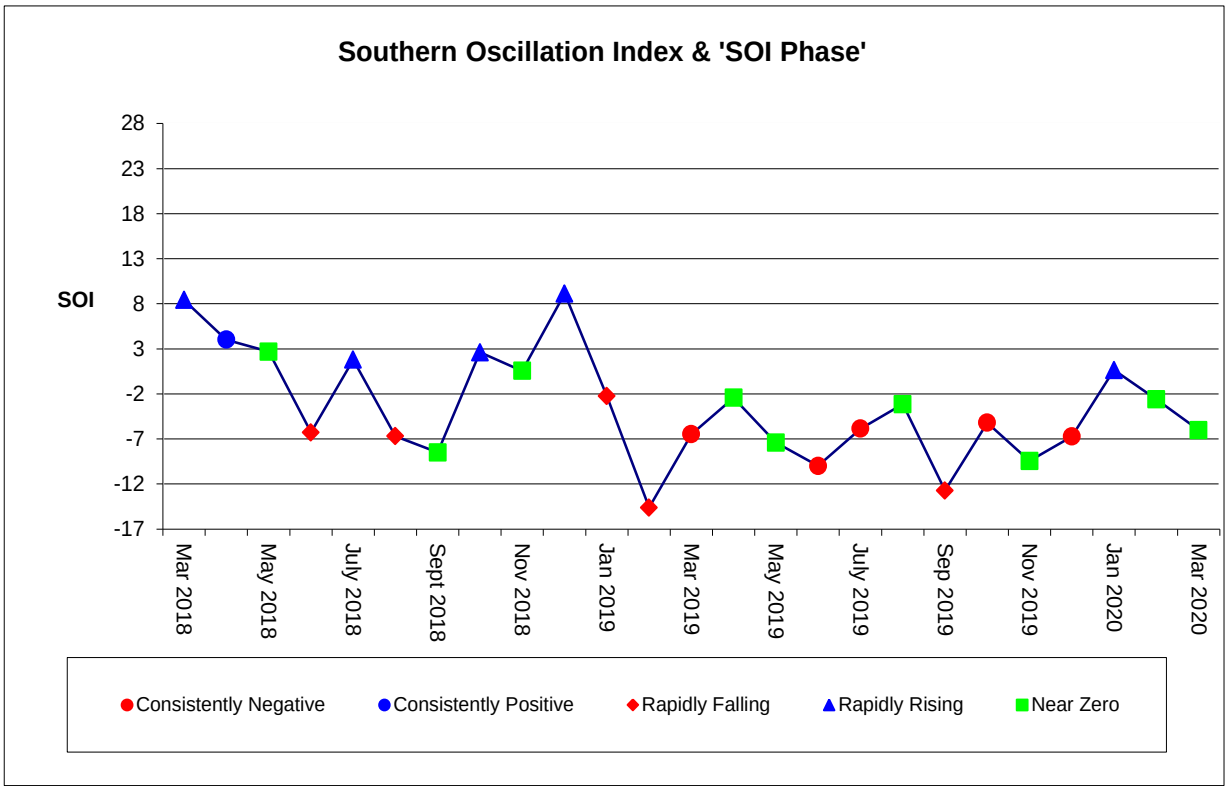
HCPSL
Herbert Cane Productivity Services Ltd.

Climate Outlook April - May 2020

SOI TRACKER:
The monthly average SOI for March was negative 6.02 (-6.02) compared to negative 2.60 (-2.60) in February. Therefore the SOI phase for March came out as “Consistently Near Zero”.

	SOI VALUE	SOI PHASE
End of April 2019	-2.43	"Consistently Near Zero"
End of May 2019	-7.41	"Consistently Near Zero"
End of June 2019	-9.99	"Consistently Negative"
End of July 2019	-5.86	"Consistently Negative"
End of August 2019	-3.14	"Consistently Near Zero"
End of September 2019	-12.72	"Rapidly Falling"
End of October 2019	-5.19	"Consistently Negative"
End of November 2019	-9.45	"Consistently Near Zero"
End of December 2019	-6.72	"Consistently Negative"
End of January 2020	0.65	"Rapidly Rising"
End of February 2020	-2.6	"Consistently Near Zero"
End of March 2020	-6.02	"Consistently Near Zero"



RAINFALL OUTLOOK

- Median rainfall for April-May at Macknade is equal to 259.4 mm.
- Based on the new SOI phase, we have calculated the chance of exceeding median rainfall for April-May for the Herbert region to be 39%. (A 50% chance is what would be considered the ‘normal chance’ of experiencing above median rainfall).
- The Upper Quartile (top quartile of rainfall) for April-May at Macknade is equal to 382.2 mm.
- Based on past rainfall events over a period of more than 110 years, the chance of experiencing excessively high rainfall (i.e. rainfall greater than the upper quartile) is equal to 24%. (25% chance is what would be considered the ‘normal chance’ of experiencing excessively high rainfall.)

Climate Outlook April - May 2020

APRIL-MAY RAIN OUTLOOK FOR INGHAM IN DETAIL:

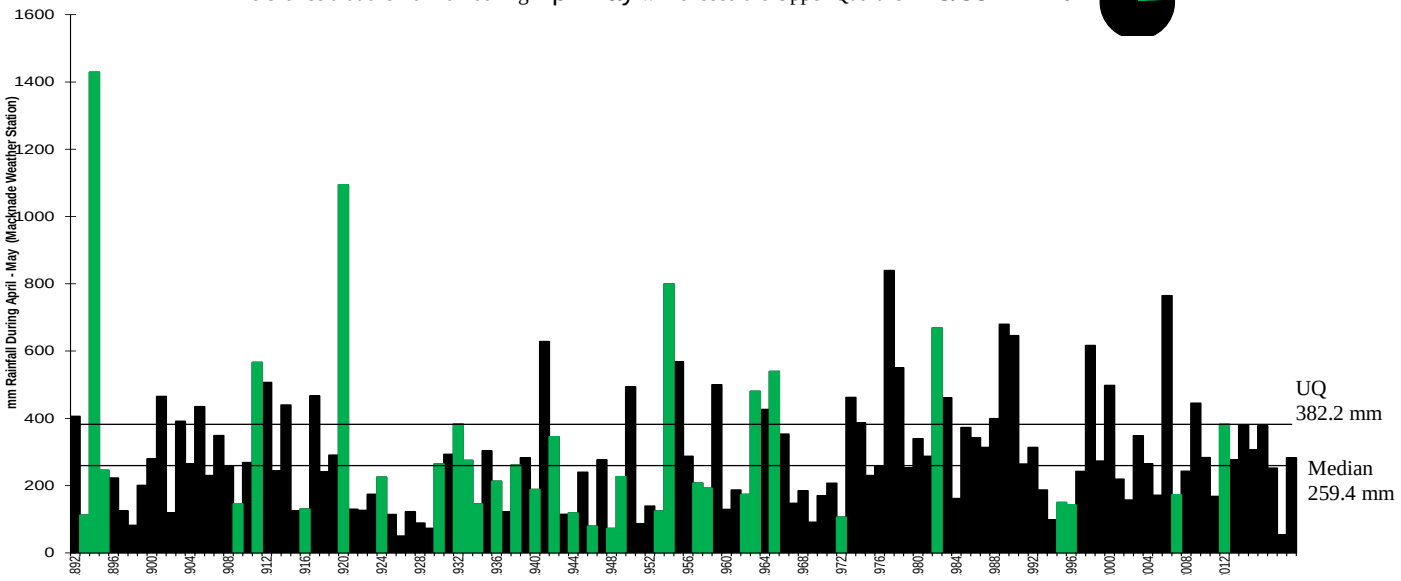
Since 1892 when rainfall records commenced at Macknade, there have been 33 occasions when the SOI phase at the end of March was "Consistently Near Zero". These years were:

1893	1894	1895	1909	1911	1916	1920	1924	1930	1932	1933
1934	1936	1938	1940	1942	1944	1946	1948	1949	1953	1954
1957	1958	1962	1963	1965	1972	1982	1995	1996	2007	2012

During those 33 years, total rainfall for April-May exceeded the median 13 times. Therefore the chance of exceeding median rainfall for April-May is 13/33 = 39%.

A high amount of rainfall (i.e. rain greater than 382.2 mm) resulted 8 times. So the chance of high rainfall is equal to 8/33 = 24%.

There have been 33 years when the SOI phase at the end of March was in a Consistently Near Zero phase (coloured Bars)
In 13 of those years the rainfall during April-May exceeded the median.
The chance that the Rainfall during Apr-May will exceed the median = 13/33 = 39%
In 8 of those years the Rainfall during Apr-May exceeded the Upper Quartile.
The chance that the Rainfall during Apr-May will exceed the Upper Quartile = 8/33 = 24%



Comparison to Last Year

	Apr-May 2020	Apr-May 2019
SOI Phase	Consistently Near Zero	Consistently Negative
Chance of above median rainfall	39%	72%
Chance of excessively high rainfall	24%	33%

For information on sea surface temperatures and general climate information, please see http://www.longpaddock.qld.gov.au and http://www.bom.gov.au/climate/ahead.