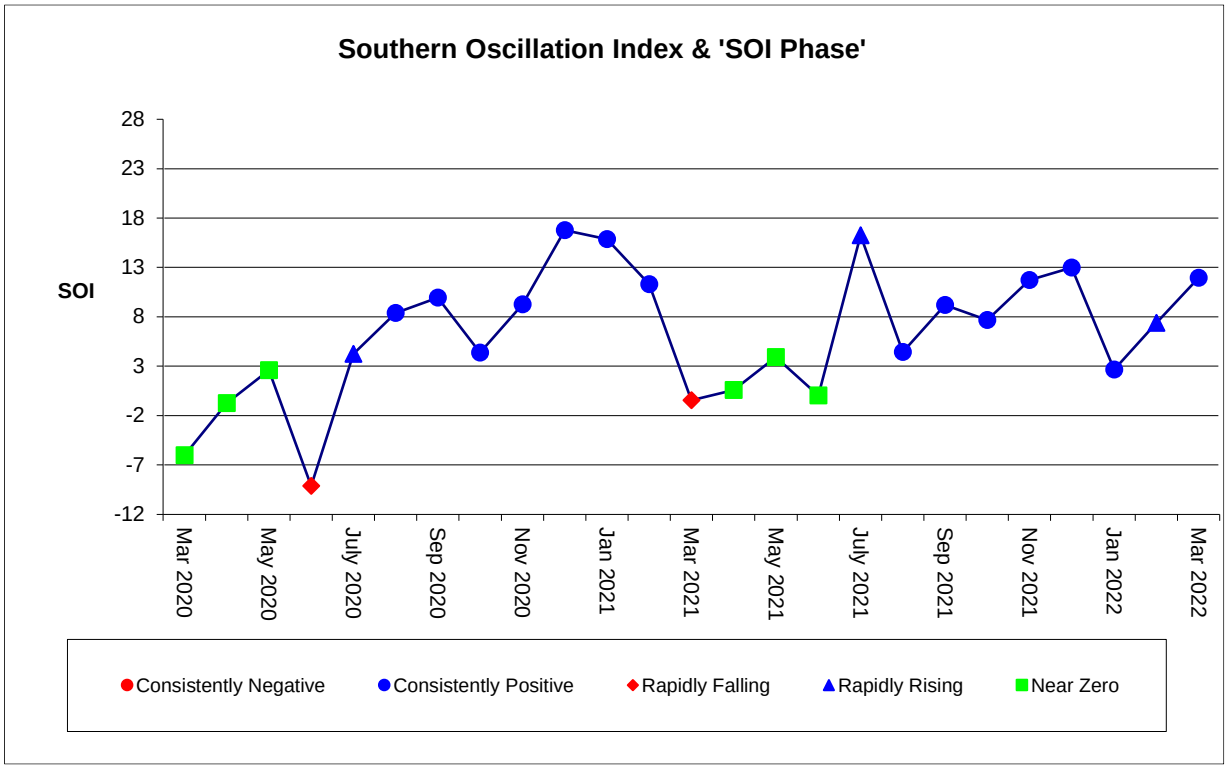
HCPSL
Herbert Cane Productivity Services Ltd.

Climate Outlook April - May 2022

SOI TRACKER:
The monthly average SOI for March was positive 11.93 (+11.93) compared to positive 7.39 (+7.39) in February. Therefore the SOI phase for March came out as “Consistently Positive”.

	SOI VALUE	SOI PHASE
End of April 2021	0.58	"Consistently Near Zero"
End of May 2021	3.9	"Consistently Near Zero"
End of June 2021	0.04	"Consistently Near Zero"
End of July 2021	16.26	"Rapidly Rising"
End of August 2021	4.43	"Consistently Positive"
End of September 2021	9.19	"Consistently Positive"
End of October 2021	7.66	"Consistently Positive"
End of November 2021	11.73	"Consistently Positive"
End of December 2021	12.99	"Consistently Positive"
End of January 2022	2.65	"Consistently Positive"
End of February 2022	7.39	"Rapidly Rising"
End of March 2022	11.93	"Consistently Positive"



RAINFALL OUTLOOK

- Median rainfall for April-May at Macknade is equal to 262.7 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 41%. (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 382.8 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 19%. (25% chance is what would be considered the ‘normal chance’ of experiencing excessively high rainfall.)

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APRIL-MAY RAIN OUTLOOK FOR INGHAM IN DETAIL:

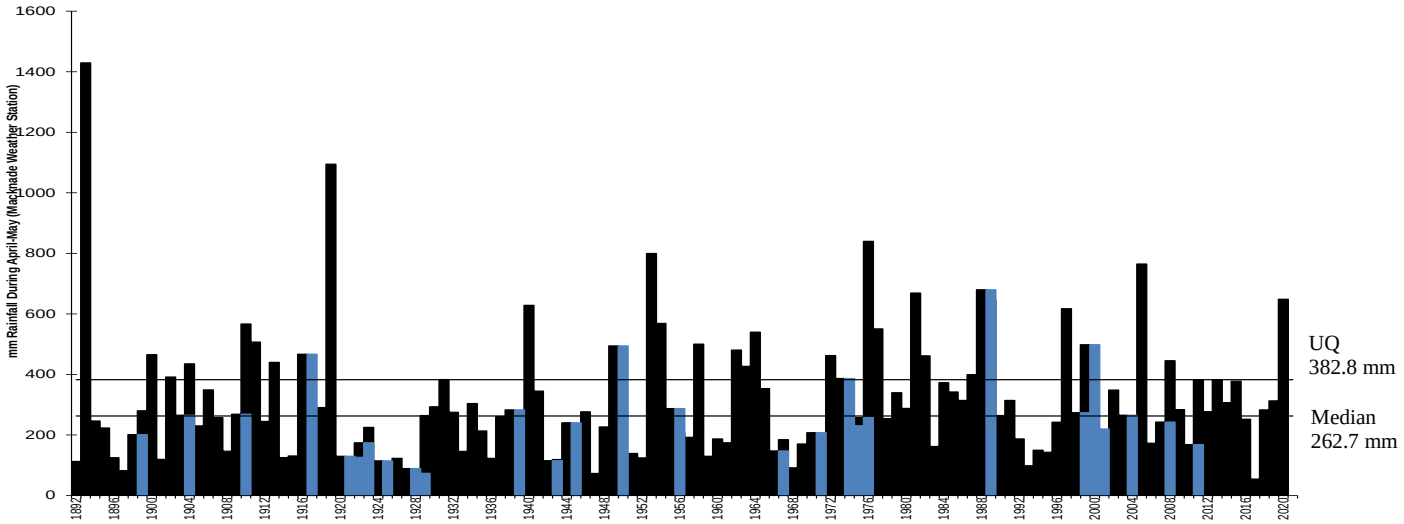
Since 1892 when rainfall records commenced at Macknade, there have been 27 occasions when the SOI phase at the end of March was "Consistently Positive". These years were:

1899	1904	1910	1917	1921	1922	1923	1925	1928	1929	1939	1943
1945	1950	1956	1967	1971	1974	1975	1976	1989	1999	2000	2001
2004	2008	2011									

During those 27 years, total rainfall for April-May exceeded the median 11 times. Therefore the chance of exceeding median rainfall for April-May is 11/27 = 41%.

A high amount of rainfall (i.e. rain greater than 382.8 mm) resulted 5 times. So the chance of high rainfall is equal to 5/27 = 19%.

There have been 27 years when the SOI phase at the end of March was in a Consistently Positive phase (coloured Bars)
In 11 of those years the rainfall during Apr-May exceeded the median.
The chance that the Rainfall during Apr-May will exceed the median = 11/27 = 41%
In 5 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 = 5/27 = 19%



Comparison to Last Year

	Apr - May 2022	Apr - May 2021
SOI Phase	Consistently Positive	Rapidly Falling
Chance of above median rainfall	41%	55%
Chance of excessively high rainfall	19%	18%

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.