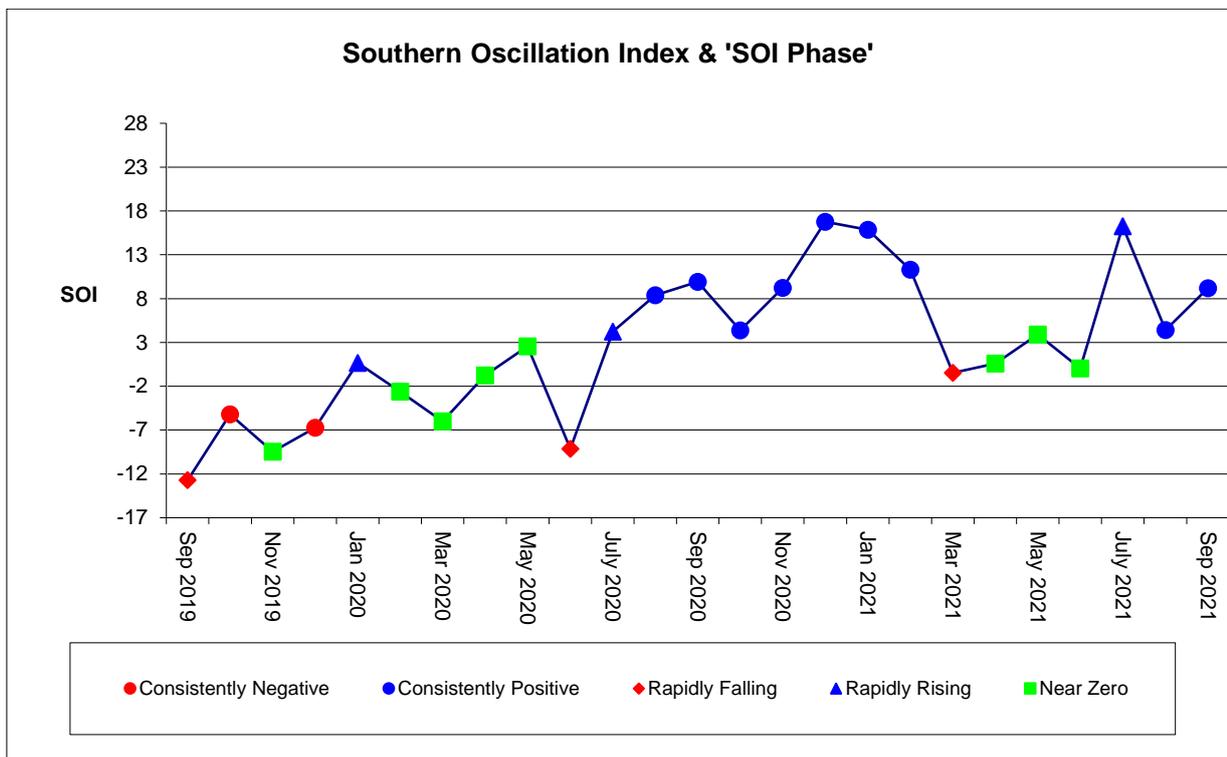


Climate Outlook October-November 2021

SOI TRACKER:

The monthly average SOI for September was positive 9.19 (+9.19) compared to positive 4.43 (+4.43) in August. Therefore the SOI phase for September came out as "Consistently Positive".

	SOI VALUE	SOI PHASE
End of October 2020	4.37	"Consistently Positive"
End of November 2020	9.24	"Consistently Positive"
End of December 2020	16.77	"Consistently Positive"
End of January 2021	15.85	"Consistently Positive"
End of February 2021	11.31	"Consistently Positive"
End of March 2021	-0.46	"Rapidly Falling"
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"



RAINFALL OUTLOOK

- Median rainfall for October-November at Macknade is equal to 94.4 mm.
- Based on the new SOI phase, we have calculated the chance of exceeding median rainfall for October-November for the Herbert region to be 75%. (A 50% chance is what would be considered the 'normal chance' of experiencing above median rainfall).
- The Upper Quartile (top quartile of rainfall) for October-November at Macknade is equal to 175.1 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 47%. (25% chance is what would be considered the 'normal chance' of experiencing excessively high rainfall.)

Climate Outlook October-November 2021

OCTOBER-NOVEMBER RAIN OUTLOOK FOR INGHAM IN DETAIL:

Since 1892 when rainfall records commenced at Macknade, there have been 36 occasions when the SOI phase at the end of September was “Consistently Positive”. These years were:

1892 1893 1894 1906 1909 1910 1916 1917 1920 1924 1928 1938
 1942 1943 1945 1947 1950 1954 1955 1956 1960 1962 1964 1967
 1971 1973 1974 1975 1981 1988 1996 1998 2000 2008 2010 2020

During those 36 years, total rainfall for October-November exceeded the median 27 times. Therefore the chance of exceeding median rainfall for October-November is $27/36 = 75\%$.

A high amount of rainfall (i.e. rain greater than 175.1 mm) resulted 17 times. So the chance of high rainfall is equal to $17/36 = 47\%$.

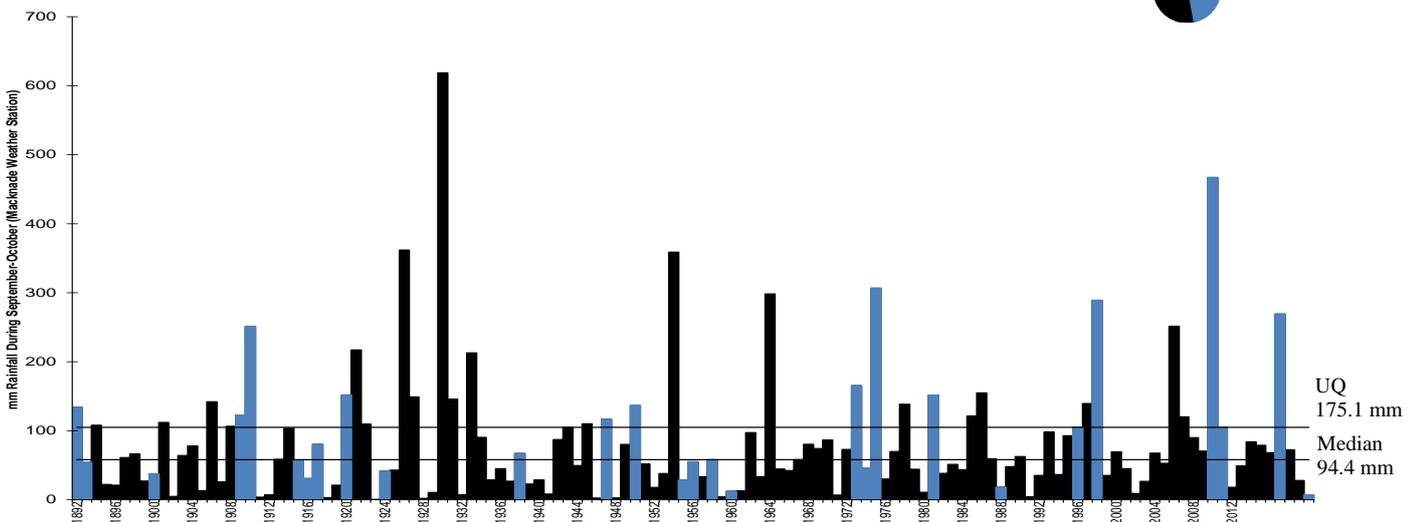
There have been 36 years when the SOI phase at the end of September was in a Consistently Positive phase (coloured Bars)

In 27 of those years the rainfall during Oct-Nov exceeded the median.

The chance that the Rainfall during Oct-Nov will exceed the median = $27/36 = 75\%$

In 17 of those years the Rainfall during Oct-Nov exceeded the Upper Quartile.

The chance that the Rainfall during Oct-Nov will exceed the Upper Quartile = $17/36 = 47\%$



Comparison to Last Year

	October-November 2021	October-November 2020
SOI Phase	Consistently Positive	Consistently Positive
Chance of above median rainfall	75%	74%
Chance of excessively high rainfall	47%	45%

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>.

Disclaimer:

The seasonal climate forecasting information provided in this document is presented for the purposes of raising awareness of the potential value of seasonal climate forecasting information and should be considered as a guideline only. The user assumes all risk for any liabilities, expenses, losses, damages and costs resulting directly or indirectly from the use of the climatic forecast information.