



### Monsoon Onset and Withdrawal date information

This year (A.D. 2024) monsoon entered into eastern Nepal by three days earlier than normal onset day on 10<sup>th</sup> June and withdrew from eastern Nepal on 12<sup>th</sup> October delayed by ten days. Last year (A.D. 2023) monsoon entered into eastern Nepal on 14<sup>th</sup> June which was delayed by one day against the normal onset date and withdrew on 15<sup>th</sup> October delayed by thirteen days against the normal withdrawal date. The normal onset and withdrawal date in Eastern Nepal is 13<sup>th</sup> June and 2<sup>nd</sup> October respectively (Figure 1 and 2, Table 1).

On the basis of normal onset and withdrawal of monsoon, the duration of monsoon is 112 days. The shortest monsoon duration of 73 days was recorded in 1979 and the longest duration of 134 days was recorded in 2022 (Figure 3). The earliest and the late onset was observed on 31<sup>st</sup> May 1996 and 27<sup>th</sup> June 1982 respectively (Figure 1, Table 1). Similarly, the earliest and the late withdrawal was recorded on 2<sup>nd</sup> September 1995 and 19<sup>th</sup> October 2013 respectively (Figure 2, Table 1).

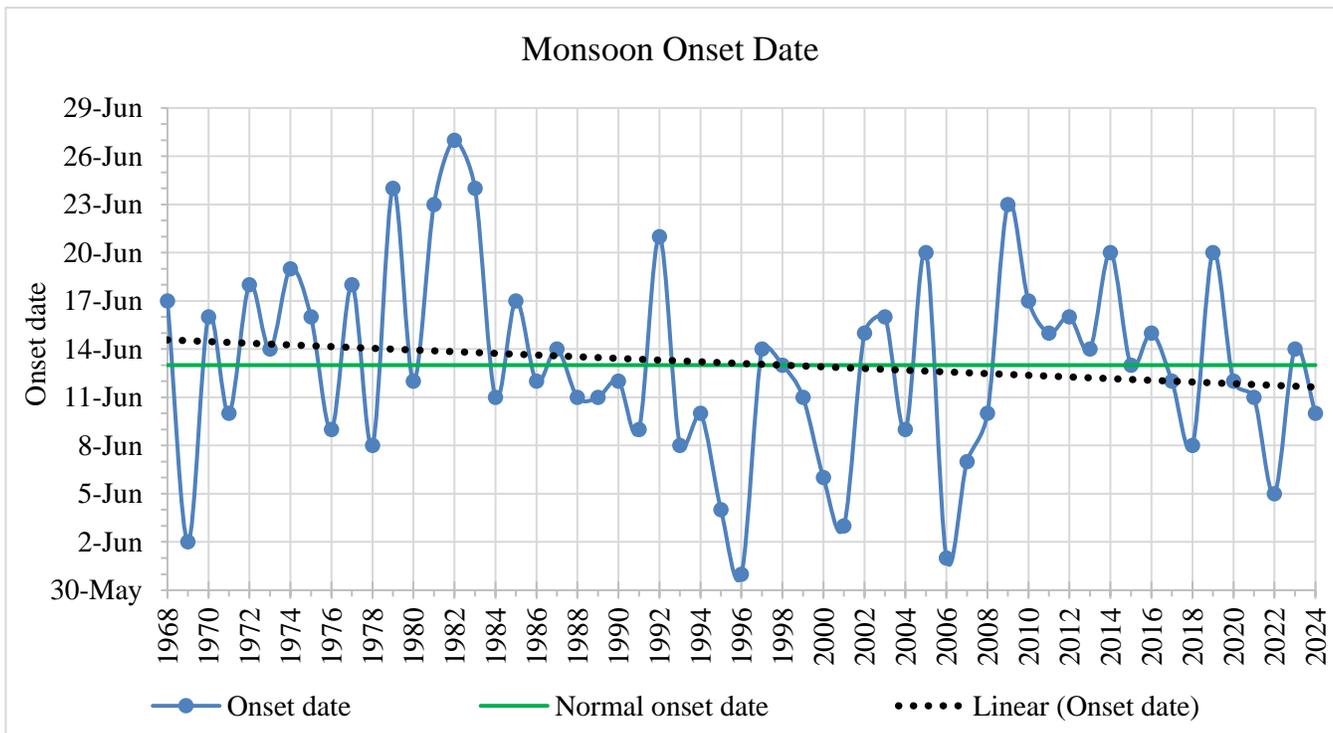


Figure 1: Monsoon onset day (blue solid line), linear trend of onset day (black dotted line) and normal onset day (green solid line).



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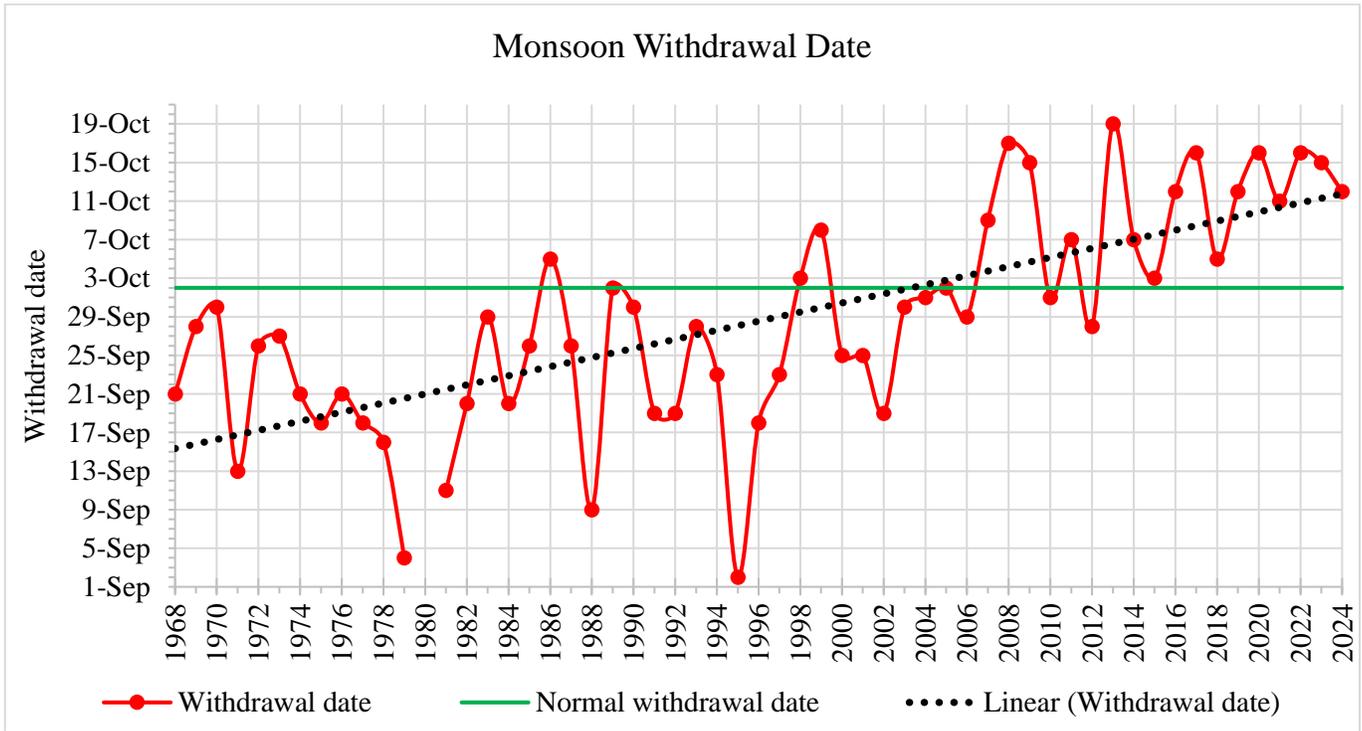


Figure 2: Monsoon withdrawal day (red solid line), linear trend of withdrawal day (black dotted line) and normal withdrawal day (green solid line).

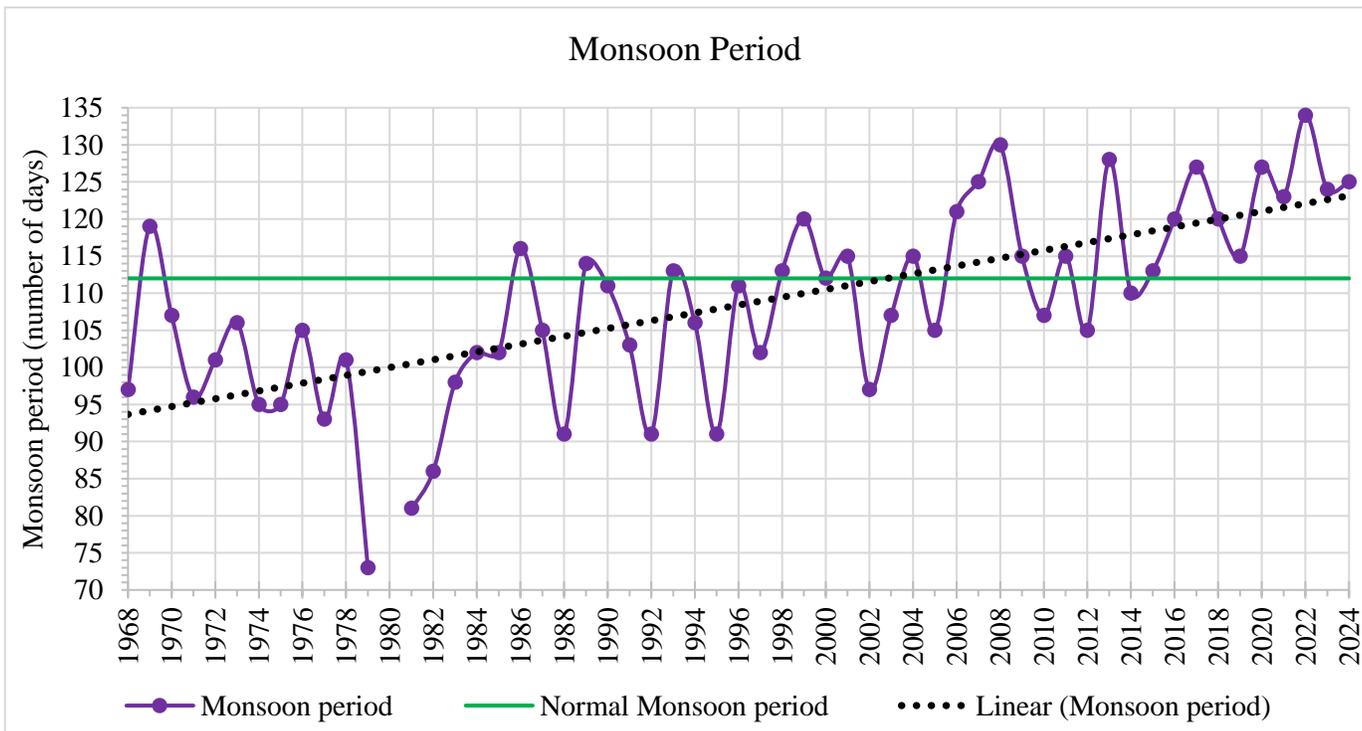


Figure 3: Monsoon period in days (purple solid line), linear trend of monsoon period (black dotted line) and normal monsoon period (green solid line).



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**Table 1: Monsoon onset and withdrawal date**

Year	Onset date	Withdrawal date	Year	Onset date	Withdrawal date
1968	17-June	21-September	1997	14-June	23-September
1969	2-June	28-September	1998	13-June	3-October
1970	16-June	30-September	1999	11-June	8-October
1971	10-June	13-September	2000	6-June	25-September
1972	18-June	26-September	2001	3-June	25-September
1973	14-June	27-September	2002	15-June	19-September
1974	19-June	21-September	2003	16-June	30-September
1975	16-June	18-September	2004	9-June	1-October
1976	9-June	21-September	2005	20-June	2-October
1977	18-June	18-September	2006	1-June	29-September
1978	8-June	16-September	2007	7-June	9-October
1979	24-June	4-September	2008	10-June	17-October
1980	12-June	--	2009	23-June	15-October
1981	23-June	11-September	2010	17-June	1-October
1982	27-June	20-September	2011	15-June	7-October
1983	24-June	29-September	2012	16-June	28-September
1984	11-June	20-September	2013	14-June	19-October
1985	17-June	26-September	2014	20-June	7-October
1986	12-June	5-October	2015	13-June	3-October
1987	14-June	26-September	2016	15-June	12-October
1988	11-June	9-September	2017	12-June	16-October
1989	11-June	2-October	2018	8-June	5-October
1990	12-June	30-September	2019	20-June	12-October
1991	9-June	19-September	2020	12-June	16-October
1992	21-June	19-September	2021	11-June	11-October
1993	8-June	28-September	2022	5-June	16-October
1994	10-June	23-September	2023	14-June	15-October
1995	4-June	2-September	2024	10-June	12-October
1996	31-May	18-September			

-- = Record is not available