



### Monsoon Onset and Withdrawal date information

This year (A.D. 2022) monsoon entered into Eastern Nepal by eight days earlier than normal onset day on 5<sup>th</sup> June (Figure 1 and 2, Table 1). Last year (A.D. 2021) monsoon entered from Eastern Nepal on 11<sup>th</sup> June which was earlier by two days against the normal onset date and withdrew on 11<sup>th</sup> October delayed by nine days against the normal withdrawal date (Figure 1 and 2, Table 1). The normal onset and withdrawal date in Eastern Nepal is 13<sup>th</sup> June and 2<sup>nd</sup> October respectively.

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 130 days was recorded in 2008 (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).

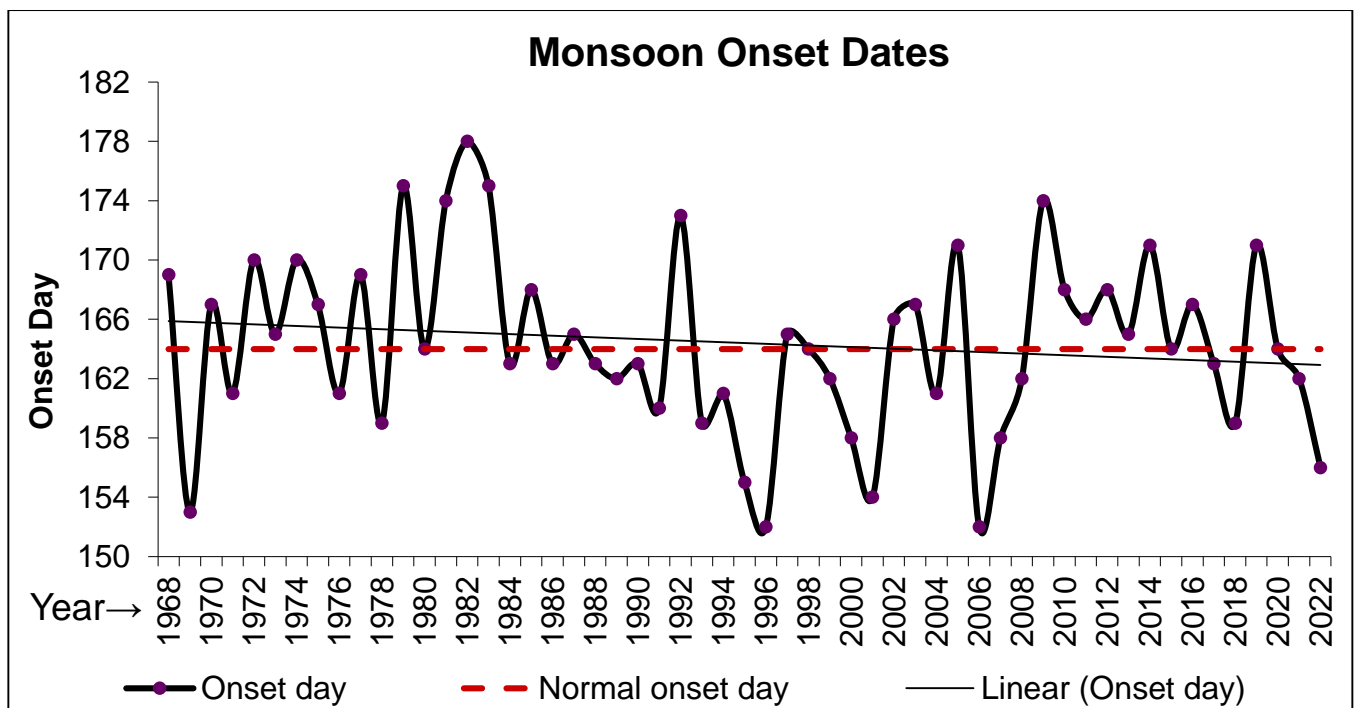


Figure 1: Monsoon onset day (thick black solid line), linear trend of onset day (thin black solid line) and normal onset day (red dotted line). Days are the number of days from the 1<sup>st</sup> January of each year.



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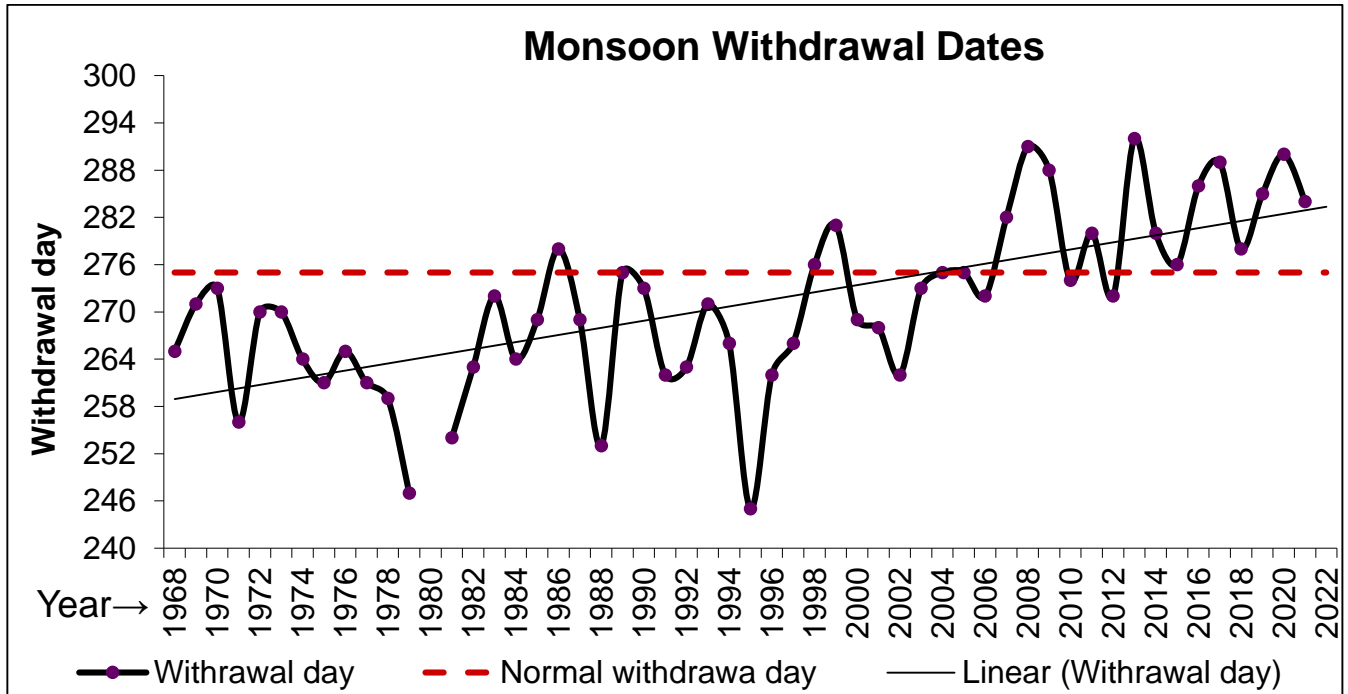


Figure 2: Monsoon withdrawal day (thick black solid line), linear trend of withdrawal day (thin black solid line) and normal withdrawal day (red dotted line). Days are the number of days from the 1<sup>st</sup> January of each year.

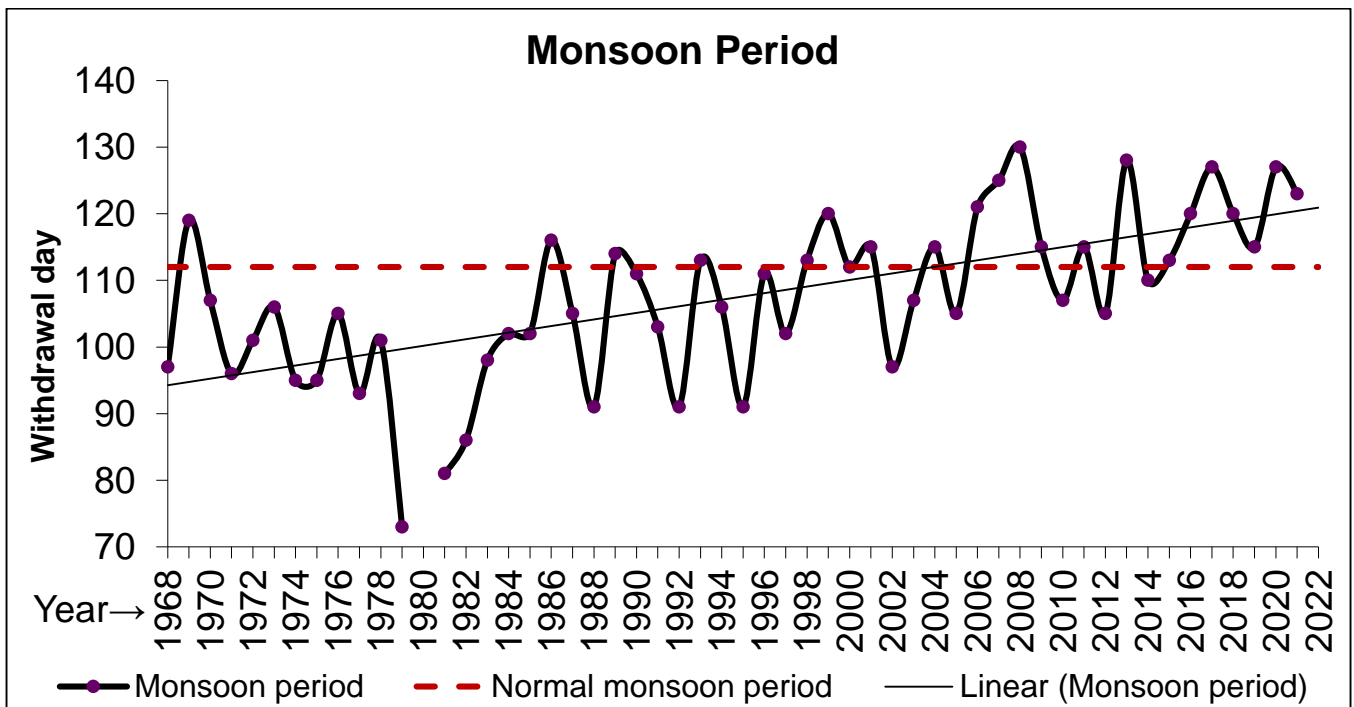


Figure 3: Monsoon period in days.



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

-- = Record is not available