

Climate information for Health

Based on GFS and Extended Range Weather Forecast

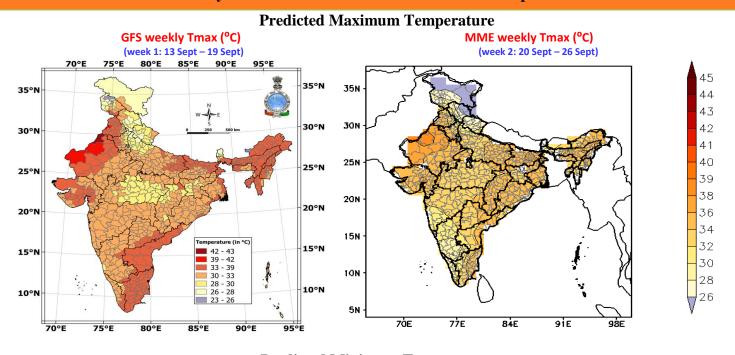
(Valid from 13th September to 26th September 2024)

Issued on 13th September, 2024

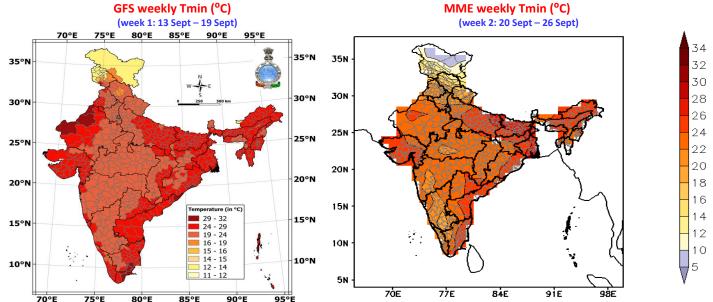
Office of Climate Research and Services, India Meteorological Department, Pune

Climate information for coming two weeks is provided for the transmission windows of temperature favorable for development of vector borne diseases like malaria and dengue based on GFS and ERFS.

Weekly Prediction of maximum and minimum temperature



Predicted Minimum Temperature



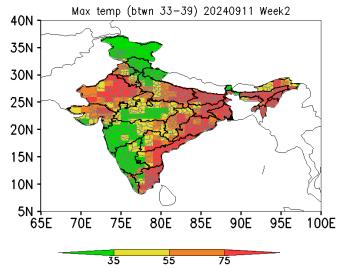
Weather Warning

Some districts of Rajasthan and Firozpur district of Punjab will experience maximum temperature above 39°C during 13th to 19th September 2024.

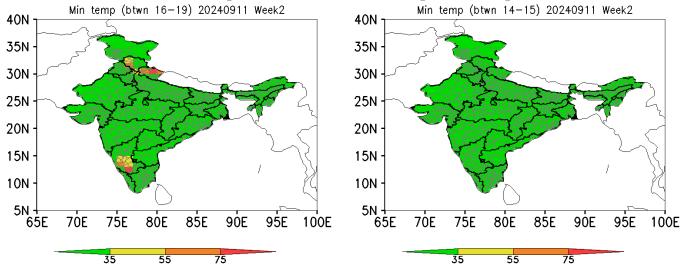
	GFS based weekly evolution of transmission window for Malaria and Dengue for Week-I				
Week	VBD	Threshold temp.		Regions within the range of predicted temperatures for	
		Th-Tmax	Th-	Tmax/Tmin or both in Threshold temperatures range.	
			Tmin		
13 th to	Malaria (Plasmodium falciparum)	33-39°C	16-19 ⁰ C	All districts of Nagaland, Tripura, Mizoram (except Champhai), Assam (except Karimganj), Arunachal Pradesh (except Tawang), Andhra Pradesh (except Srikakulam), Tamil Nadu (except Nilgiri, Coimbatore), major districts of Punjab, Meghalaya, some districts of Jammu & Kashmir. Himachal Pradesh, Haryana, Rajasthan, Gujarat, Uttar Pradesh, Bihar, Manipur, West Bengal, Telangana, Kerala, few districts of Ladakh (Kargil), Chhattisgarh (Balarampur), Odisha (Baleshwar, Puri) and Karnataka (Bellary, Chamarajanagar, Kolar).	
19 th Sept 2024	Malaria (Plasmodium Vivax)	33-39 ⁰ C	14-15°C	All districts of Nagaland, Tripura, Mizoram (except Champhai), Assam (except Karimganj), Arunachal Pradesh (except Tawang), Andhra Pradesh (except Srikakulam), Tamil Nadu (except Nilgiri, Coimbatore), major districts of Punjab, Meghalaya, some districts of Haryana, Rajasthan, Gujarat, Uttar Pradesh, Bihar, Manipur, West Bengal, Telangana, Kerala, few districts of Jammu & Kashmir (Kathua, Jammu, Samba), Chhattisgarh (Balarampur), Odisha (Baleshwar, Puri) and Karnataka (Bellary, Chamarajanagar, Kolar).	
	Dengue	Not known	11.9°C	Nil.	
ER	FS based weekl	y evolution	of transmi	ssion window for Malaria and Dengue for Week-II	
20th to	(Plasmodium falciparum)			Rajasthan, Gujarat, Madhya Pradesh, Bihar, Chhattisgarh, Jharkhand, North Eastern States, Odisha, Telangana, major parts of Himachal Pradesh, Uttarakhand, Punjab, Haryana, Uttar Pradesh, West Bengal, Maharashtra, Andhra Pradesh, Tamil Nadu, some parts of Jammu & Kashmir, Karnataka and isolated parts of Kerala.	
26 th Sept 2024	Malaria (Plasmodium Vivax)	33-39 ⁰ C	14-15 ^o C	Rajasthan, Gujarat, Madhya Pradesh, Bihar, Chhattisgarh, Jharkhand, North Eastern States, Odisha, Telangana, major parts of Punjab, Haryana, Uttar Pradesh, West Bengal, Maharashtra, Andhra Pradesh, Tamil Nadu, some parts of Jammu & Kashmir, Himachal Pradesh, Karnataka and isolated parts of Kerala.	
	Dengue	Not known	11.9°C	Some parts of Ladakh.	

Weekly probabilistic outlook for prevalence of transmission window for Malaria

Predicted probabilistic Maximum Temperature map



Predicted probabilistic Minimum Temperature map



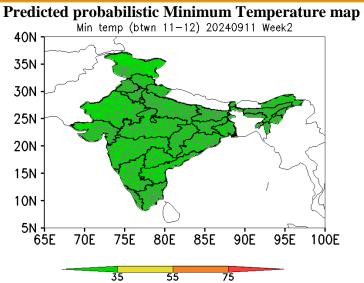
	Probabilistic weekly evolution of transmission window for Malaria (Plasmodium falciparum).				
	Second week (20 th to 26 th Sept 2024):				
1	75 probability level	Nagaland, Manipur, Major districts of Bihar, Assam, Mizoram, Tripura, Meghalaya, West Bengal, Jharkhand, Odisha, Andhra Pradesh, Tamil Nadu, some districts of Haryana, Rajasthan, Gujarat, Uttar Pradesh, Chhattisgarh, few districts of Himachal Pradesh, Arunachal Pradesh, Telangana, Karnataka and Kerala.			
2	55-75 probability level	Some districts of Himachal Pradesh, Uttarakhand, Punjab, Haryana, Rajasthan Gujarat, Madhya Pradesh, Uttar Pradesh, Jharkhand, Chhattisgarh, Odisha, Telangana Andhra Pradesh, Maharashtra, Karnataka, Tamil Nadu, few districts of Jammu & Kashmir, Bihar, Assam, Arunachal Pradesh, Mizoram, Tripura, West Bengal and Kerala.			
3	35-55 probability level	Some districts of Himachal Pradesh, Punjab, Haryana, Uttar Pradesh, Arunacha Pradesh, Meghalaya, Chhattisgarh, Madhya Pradesh, Rajasthan, Gujarat, Maharashtra Karnataka, Telangana, few districts of Jammu & Kashmir, Uttarakhand, Bihar Jharkhand, Andhra Pradesh and Kerala.			
4	Less than 35 probability level	Major districts in rest of states.			

	Probabilistic weekly evolution of transmission window for Malaria (Plasmodium vivax)					
	Second week (20th to 26th Sept 2024):					
1	Nagaland, Manipur, Major districts of Bihar, Assam, Mizoram, Tripura, Meghalaya,					
	probability level		West Bengal, Jharkhand, Odisha, Andhra Pradesh, Tamil Nadu, some districts of			
			Haryana, Rajasthan, Gujarat, Uttar Pradesh, Chhattisgarh, few districts of Arunachal			
	Pradesh, Telangana and Kerala.					
2	<u>55-75</u>		Some districts of Punjab, Haryana, Rajasthan, Gujarat, Madhya Pradesh, Uttar Pradesh,			
	probability level		Jharkhand, Chhattisgarh, Odisha, Telangana, Andhra Pradesh, Maharashtra, Karnataka,			
		Tamil Nadu, few districts of Jammu & Kashmir, Bihar, Assam, Arunachal Pradesh,				
			Mizoram, Tripura, West Bengal and Kerala.			
3	<u>35-55</u>		Some districts of Punjab, Haryana, Uttar Pradesh, Arunachal Pradesh, Meghalaya,			
	probability level	Chhattisgarh, Madhya Pradesh, Rajasthan, Gujarat, Maharashtra, Karna				
		Telangana, few districts of Jammu & Kashmir, Himachal Pradesh, Bihar, Jharkhand,				
	Andhra Pradesh and Kerala.					
4	Less than 35	Less than 35 Major districts in rest of states.				
	probability level	vel vel				

Glossary:

<u>SN</u>	Malaria VBD	Threshold minimum temp (Th-Tmin)	Threshold maximum temp (Th-Tmax)
1	Plasmodium falciparum	16-19°C	22 2000
2	Plasmodium vivax	14-15°C	33-39°C

Weekly probabilistic outlook for prevalence of transmission window for Dengue



	Probabilistic weekly evolution of transmission window for Dengue				
	Second week (20th to 26th Sept 2024):				
1	1 75 probability level Nil.				
2	55-75 probability level		Nil.		
3	35-55 probability level		Nil.		
4	Less than 35 probability level		All districts of states.		

Glossary:

SN	VBD	Threshold minimum temp (Th- Tmin)	Threshold maximum temp (Th-Tmax)
1	Dengue virus	11.9℃	Not known

Verification of previous week 06th to 12th September 2024 weather warning issued for development of vector borne diseases.

Following table provides the verification of previous week 06th to 12th September 2024 temperature forecast issued in last week bulletin with realized temperature.

	st issued in last week bulletin with realized temperature. VBD Threshol Regions within the range of predicted Regions within the range of				
Week	VBD	Threshol d temp.	Regions within the range of predicted temperatures for Tmax/Tmin or both in	Regions within the range of realised temperatures for	
			Threshold temperatures range.	Tmax/Tmin or both in Threshold	
			All districts of Dalhi Rihar Manipur	All districts of Nagaland (except	
06 th to 12 th Sept 2024	Malaria (Plasmodium falciparum and Vivax)	33-39 ℃	All districts of Delhi, Bihar, Manipur, Mizoram, Nagaland, Tripura, Haryana (except Ambala. Panchkula, Yamunanagar), Uttar Pradesh (except Lalitpur, Prabudhnagar, Saharanpur), West Bengal (except Darjeeling, Kalimpong), Arunachal Pradesh (except Tawang), Assam (except Kamrup Metro, Karimganj), major districts of Punjab, Rajasthan, Jharkhand Meghalaya, Tamil Nadu, some districts of Madhya Pradesh, Chhattisgarh, Odisha, Andhra Pradesh, few districts of Jammu & Kashmir (Kathua, Jammu, Samba), Himachal Pradesh (Kangra, Una), Uttarakhand (Pauri Garhwal, Udham Singh Nagar), Gujarat (Kachchh), Karnataka (Chamarajanagar) and Kerala (Kollam).	All districts of Nagaland (except Kiphire, Tuensang), Manipur (except Chandel), Mizoram (except Kolasib), major districts of Bihar, Tamil Nadu, some districts of Rajasthan, Arunachal Pradesh, West Bengal and few districts of Uttar Pradesh, (Deoria), Jharkhand (Sahebganj), Meghalaya (South West Garo Hills), Andhra Pradesh (Nellore).	
	Malaria (Plasmodium falciparum)	16-19℃	Some districts of Jammu & Kashmir, Himachal Pradesh and Kargil district of Ladakh.	Major districts of Himachal Pradesh, few districts of Jammu & Kashmir (Doda, Jammu, Udhampur), Uttarakhand (Chamoli), Arunachal Pradesh (Tawang), Manipur (Chandel), Karnataka (Hassan, Mysore) and Tamil Nadu (Coimbatore, Nilgiri).	
	Malaria (<i>Plasmodium</i> <i>vivax</i>)	14-15°C	Some districts of Jammu & Kashmir and Leh district of Ladakh.	Ramban districts of Jammu & Kashmir.	
	Dengue virus	11.9°C	Nil.	Some districts of Jammu & Kashmir.	