



NAVSARI AGRICULTURAL UNIVERSITY

Gramin Krishi Mausam Sewa

Agricultural Meteorological Cell
Navsari Agricultural University
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(Jointly issued by Navsari Agricultural University & India Meteorological Department)

Alerts and Warning: Dt. 22/07/2025

As per IMD, Impact based forecast (IBF) for Agriculture for Navsari & Valsad Districts, Gujarat (based on the forecast issued on 22/07/2025)

District Level Forecast and warning issued by MC, Ahemdabad 22/07/2025

WEATHER FORECAST for next 7 days: Valid up to 0830 hours IST of 22/07/2025
Detailed 7 days weather forecast for Gujarat State, Navsari and Valsad is given below

DAY 1:	Heavy rains very likely at isolated places in the districts of Gujarat region namely Navsari and Valsad.
DAY 2:	Heavy rains very likely at isolated places in the districts of Gujarat region namely Navsari and Valsad.
DAY 3:	Heavy rains very likely at isolated places in the districts of Gujarat region namely Navsari and Valsad.
DAY 4:	Heavy rains very likely at isolated places in the districts of Gujarat region namely Navsari and Valsad.
DAY 5:	Heavy rains very likely at isolated places in the districts of Gujarat region namely Navsari and Valsad.
DAY 6:	Heavy rains very likely at isolated places in the districts of Gujarat region namely Navsari and Valsad.
DAY 7:	Heavy rains very likely at isolated places in the districts of Gujarat region namely Navsari and Valsad.

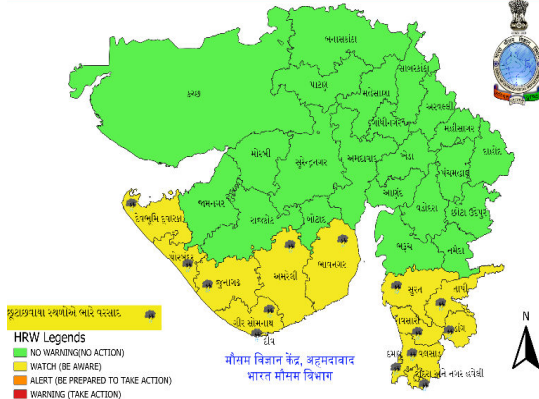
Expected Impact with respect to Red Colour warning for rainfall
<ul style="list-style-type: none"> ➤ Most of the routes of the city are closed due to waterlogging. ➤ Water logging/ flooding in most parts of low-lying areas in the city, Heavy traffic jam problem in all the routes of the city. ➤ Probability of death due to lightning. ➤ Slum areas along railway track, river and drain may affect severely. ➤ It may lead to riverine flooding along the rivers and respective catchment areas. ➤ Localized and short-term disruption to municipal services (water, electricity, etc.) ➤ Possibility of danger to very old buildings and unmaintained structures. ➤ Falling of trees/branches and advertising hoardings in gusty winds. ➤ Damage to horticulture crop, plantation and Kharif crops like rice, maize, pearl millet, black gram, banana, saffota, mango etc. in the outskirts of the city. ➤ Extensive clogging of drains due to debris flows in drainage areas. ➤ Severe disruption to solar energy output. ➤ Severe impact on agriculture – loss of livestock and significant loss of crops due to flooding and soil erosion – impact on economy and livelihoods ➤ Life threatening, extensive flash flooding of vulnerable areas. ➤ Possibility of landslide at hilly areas, due to this, closure of the road and human casualties may be occurred. ➤ Fisheries activities may be hampered severely.
Expected Impact with respect to Orange colour warning for rainfall
<ul style="list-style-type: none"> ➤ Water logging/ flooding in many parts of low-lying areas in the city, Heavy traffic jam problem in many routes of the city. ➤ Drain water over flow in many parts of city. ➤ Probability of damage vulnerable structure and house. ➤ Possibility of danger to very old buildings and unmaintained structures. ➤ Falling of trees/branches and advertising hoardings in gusty winds. ➤ Significant clogging of drains due to debris flows in drainage areas ➤ Significant disruption to solar energy output. ➤ Significant impact to agriculture – secure livestock and move small animals to shelter. Some loss of crops in flood or soil erosion prone areas. ➤ Possible life-threatening flash flooding of vulnerable areas. ➤ Inundation of coastal areas coinciding with high tides and Squally weather along the coast and rough sea conditions during cyclone. ➤ Possibility of landslide at hilly areas, due to this, closure of the road and human casualties may be occurred. ➤ Fisheries activities may be hampered.
Expected Impact with respect to Yellow colour warning for rainfall
<ul style="list-style-type: none"> ✓ Major damage to kuchcha roads due to inundation. ✓ Major disruption in traffic in city areas. ✓ Inundation of low-lying areas leading to damage to kuchcha houses. ✓ Water logging in underpass in city areas. ✓ Sudden reduction in visibility during heavy downpour leading to road accidents. ✓ Mainly water logging problem found near wetland and marshy land of urban land rural region.

IBF & Agromet Advisories based on the forecast issued on 22/07/2025

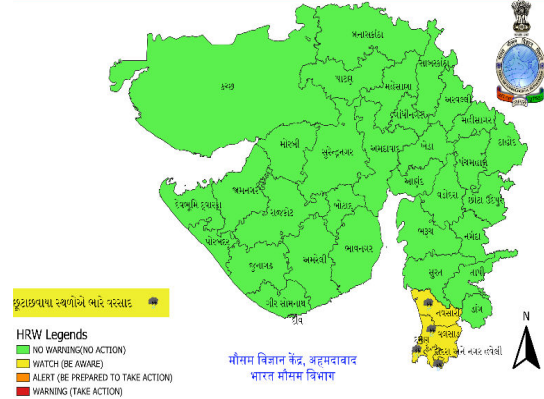
District	Crop	Stage	Likely Impact on crop	Advisory
AMFU-Navsari & Valsad	Rice	Nursery / Transplanting	<ul style="list-style-type: none"> Water logging due to heavy to very heavy rainfall. 	<ul style="list-style-type: none"> Drain excess rainwater from Rice field. Keep field weed free. Postponed the spraying of all types of protective chemicals and fertilizer application. Avoid transplanting paddy until the excess water is drained.
	Sugarcane	Vegetative stage	<ul style="list-style-type: none"> Lodging due to heavy to very heavy rainfall with high wind velocity at grand growth stage stage. 	<ul style="list-style-type: none"> Give mechanical support in sugarcane. Drain excess rainwater from standing crop fields. Postpone the spraying of all types of protective chemicals and fertilizer application.
	Mango		<ul style="list-style-type: none"> Water logging due to heavy to very heavy rainfall. 	<ul style="list-style-type: none"> Postpone the spraying of all types of protective chemicals and fertilizer application. Drain excess rainwater from mango orchards. Provide mechanical support to young mango plant.
	Okra	Vegetative	<ul style="list-style-type: none"> Water logging due to heavy to very heavy rainfall. 	<ul style="list-style-type: none"> Postpone the spraying of all types of protective chemicals and fertilizer application. Drain excess rainwater from standing crop fields.
	Tuber Crops family	Vegetative stage	<ul style="list-style-type: none"> Water logging due to heavy to very heavy rainfall 	<ul style="list-style-type: none"> Postpone the spraying of all types of protective chemicals and fertilizer application. Drain excess rainwater from standing crop fields. Give proper support or train branches of vines.
	Vegetables	Vegetative stage	<ul style="list-style-type: none"> Water logging due to heavy to very heavy rainfall 	<ul style="list-style-type: none"> Postpone the spraying of all types of protective chemicals and fertilizer application. Drain excess rainwater from standing crop fields.
	Agro-forestry	Sowing / Transpalnting	<ul style="list-style-type: none"> Water logging due to heavy to very heavy rainfall. 	<ul style="list-style-type: none"> Postpone the spraying of all types of protective chemicals and fertilizer application. Drain excess rainwater from fields.
	Livestock		<ul style="list-style-type: none"> Water logging due to heavy to very heavy rainfall. 	<ul style="list-style-type: none"> Don't keep the animal under tree when there is heavy lightning during rain.
	Fisheries			<ul style="list-style-type: none"> Remove excess rain water from the fish pond and maintain the pond level.

HEAVY RAINFALL WARNING: -

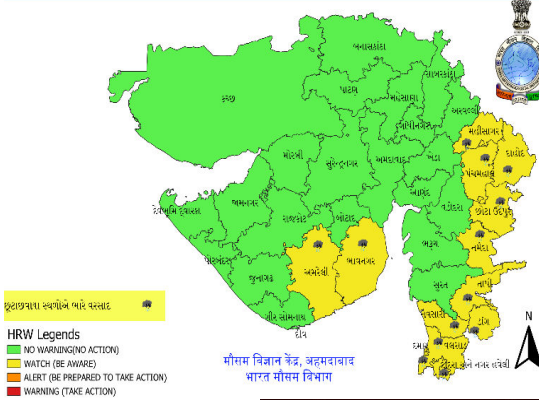
દિવસ - 1 ગુજરાત રાજ્ય અને દીવ, દમણ, દાદરા નગર હવેલી ની 22-07-2025 માટે
'ભારે વરસાદ ની ચેતવણી'



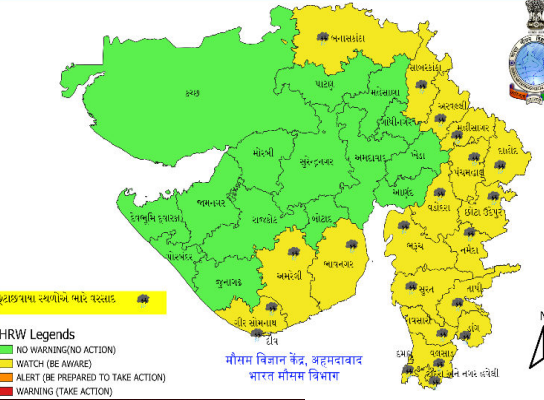
દિવસ - 4 ગુજરાત રાજ્ય અને દીવ, દમણ, દાદરા નગર હવેલી ની 25-07-2025 માટે
'ભારે વરસાદ ની ચેતવણી'



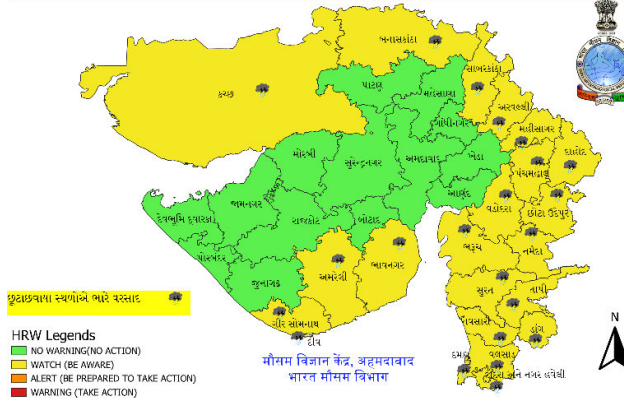
દિવસ - 5 ગુજરાત રાજ્ય અને દીવ, દમણ, દાદરા નગર હવેલી ની 26-07-2025 માટે
'ભારે વરસાદ ની ચેતવણી'



દિવસ - 6 ગુજરાત રાજ્ય અને દીવ, દમણ, દાદરા નગર હવેલી ની 27-07-2025 માટે
'ભારે વરસાદ ની ચેતવણી'



દિવસ - 7 ગુજરાત રાજ્ય અને દીવ, દમણ, દાદરા નગર હવેલી ની 28-07-2025 માટે
'ભારે વરસાદ ની ચેતવણી'

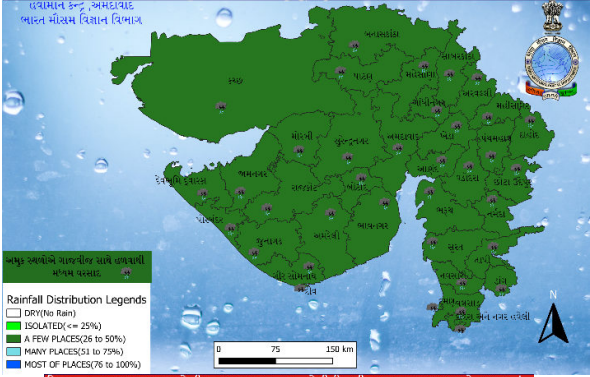


RAINFALL DISTRIBUTION

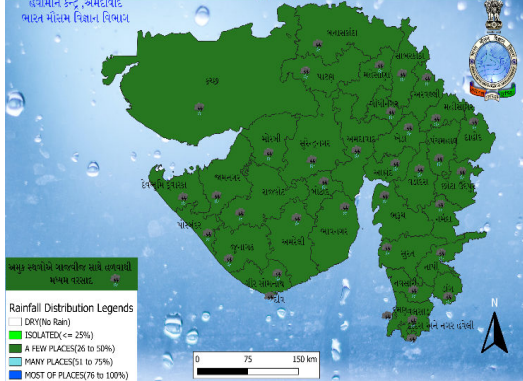
દિવસ - 1 ગુજરાત રાજ્ય અને દીવ, દમણ દાદરા નગર હવેલીની તારીખ 22-07-2025 માટે વરસાદ નું
પૂર્વાનુમાન



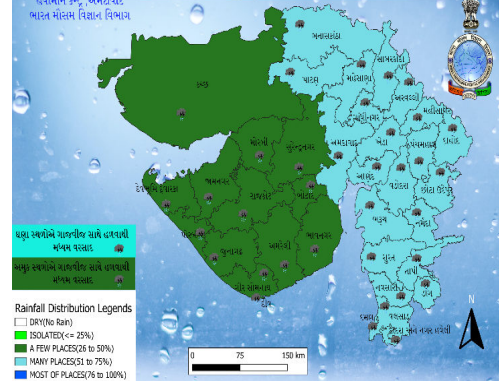
દિવસ - 2 ગુજરાત રાજ્ય અને દીવ, દમણ દાદરા નગર હવેલી ની તારીખ 23-07-2025 માટે
વરસાદ નું પૂર્વાનુમાન



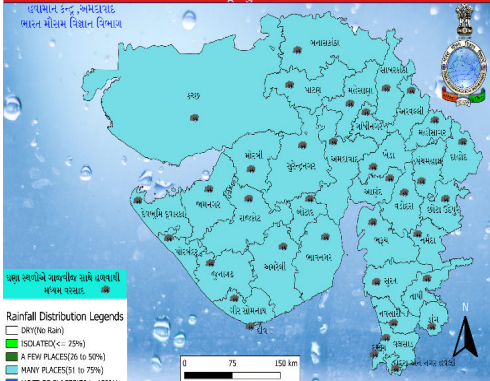
દિવસ - ૩ ગુજરાત રાજ્ય અને દીવ, દમણ દાદરા નગર હવેલી ની તારીખ 24-07-2025 માટે
વરસાદ નું પૂર્વાનુમાન



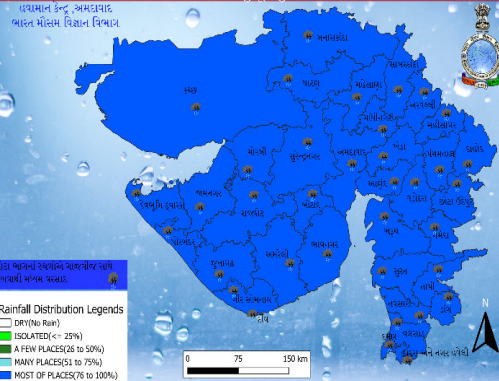
દિવસ - 4 ગુજરાત રાજ્ય અને દ્વીપ, દમણ દાદરા નગર હવેલીની તારીખ 25-07-2025 માટે વરસાદ નું
પૂર્વાનુમાન



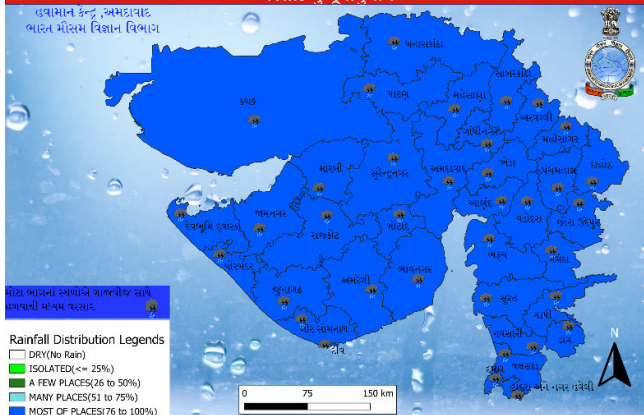
દિવસ - 5 ગુજરાત રાજ્ય અને દીવ, દમણ દાદરા નગર હવેલી ની તારીખ 26-07-2025 માટે વરસાદ નું
પૂર્વાનુમાન



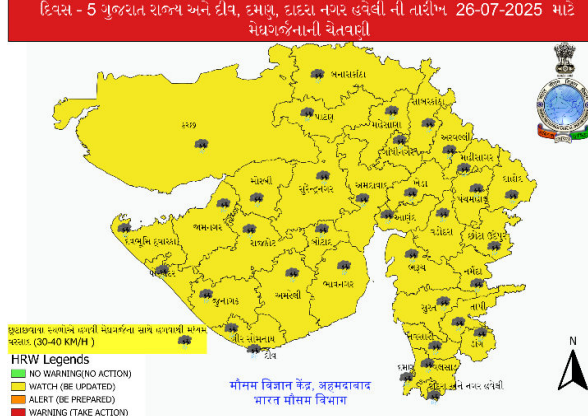
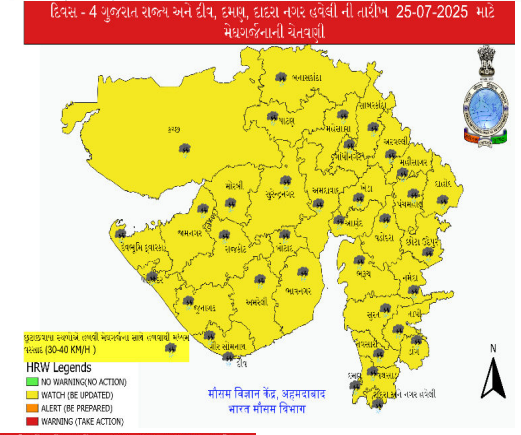
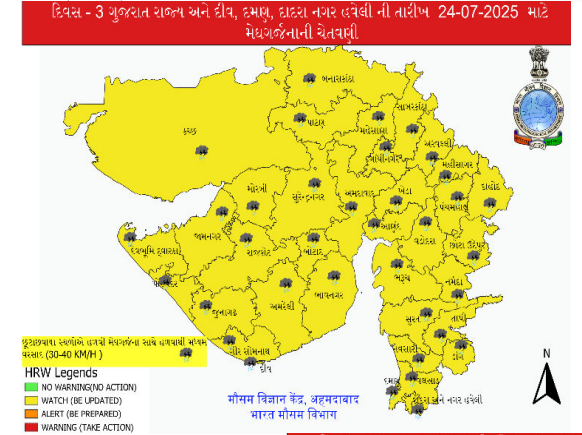
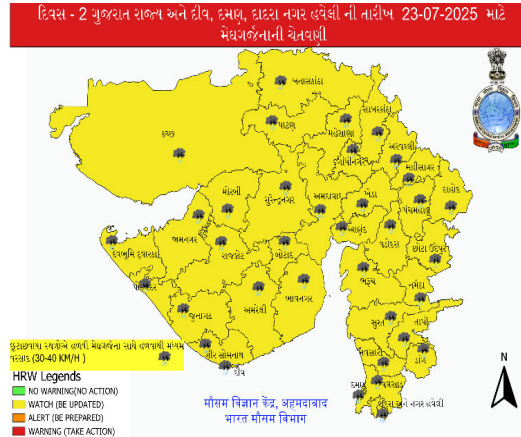
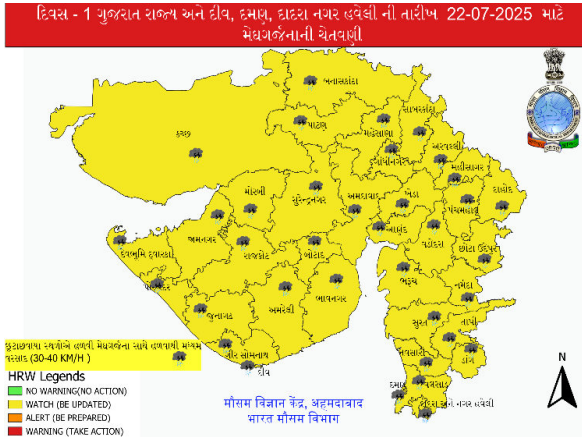
દિવસ - 6 ગુજરાત રાજ્ય અને દોવ, દમણ દાદરા નગર હવેલી ની તારીખ 27-07-2025 માટે
વરસાદ નું પૂર્વાનુમાન



દિવસ - 7 ગુજરાત રાજ્ય અને દ્રાવ, દમણ દાદરા નગર હવેલી ની તારીખ 28-07-2025 માટે
વરસાદ નું પૂર્વાનુમાન



THUNDERSTORM WARNING



Legends: -

Terminology for Spatial Distribution of rainfall: -

Spatial Distribution of Rainfall	Descriptive term used	Criteria for observed/forecast weather
Dry	Dry	No station reported/expecting rainfall
Isolated	One or two Places	$\leq 25\%$ of stations get/expected to get rainfall
Scattered	At a few Places	(26–50) % of stations get/expected to get rainfall
Fairly Widespread	At many Places	(51–75) % of stations get/expected to get rainfall
Wide spread	At most places	(76–100) % of stations get/expected to get rainfall

Terminology for intensity of 24 hour accumulated rainfall: -

Terminology	Rainfall (mm)	Rainfall (cm)
Very light rainfall	Trace -2.4	--
Light rainfall	2.5-15.5	Upto 1
Moderate rainfall	15.6-64.4	2-6
Heavy Rainfall	64.5- 115.5	7-11
Very Heavy Rainfall	115.6-204.4	12-20
Extremely heavy rainfall	Greater than or equal to 204.5 mm	21 cm or more
Exceptionally Heavy Rainfall	When the rainfall observed is a value near about the highest recorded rainfall at or near the station for the month or the season. However, this term will be used only when the actual rainfall amount exceeds 12 cm	

Terminology for probability of occurrence of weather event: -

Term	Probability of occurrence
Unlikely	Less than 25%
Likely	25% to 50%
Very likely	50% to 75 %
Most likely	more than 75%

