**2015 Gujarat cyclone**

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| --- | --- |
| 2015 Gujarat cyclone | |
| Deep depression (IMD scale) | |
| [ARB 02 23 June 2015.jpg](https://en.wikipedia.org/wiki/File:ARB_02_23_June_2015.jpg)  ARB 02 approaching the [Gujarati](https://en.wikipedia.org/wiki/Gujarat) coast on 23 June | |
| Formed | 22 June 2015 |
| Dissipated | 24 June 2015 |
|  | |
|  | |
| Highest winds | [*3-minute sustained*](https://en.wikipedia.org/wiki/Tropical_cyclone_scales#Wind_speed_conversions)*:* 55 km/h (35 mph) |
| Lowest pressure | 988 [hPa](https://en.wikipedia.org/wiki/Pascal_(unit)" \o "Pascal (unit)) ([mbar](https://en.wikipedia.org/wiki/Bar_(unit))); 29.18 [inHg](https://en.wikipedia.org/wiki/Inch_of_mercury" \o "Inch of mercury) |
|  | |
|  | |
| Fatalities | 81 total |
| Damage | $260 million (2015 [USD](https://en.wikipedia.org/wiki/United_States_dollar)) (Government estimate[[1]](https://en.wikipedia.org/wiki/2015_Gujarat_cyclone#cite_note-World_2015-1)) |
| Areas affected | [West India](https://en.wikipedia.org/wiki/West_India) (particularly [Gujarat](https://en.wikipedia.org/wiki/Gujarat)) |
|  | |
| Part of the [2015 North Indian Ocean cyclone season](https://en.wikipedia.org/wiki/2015_North_Indian_Ocean_cyclone_season) | |

The 2015 Gujarat cyclone, officially referred to as Deep Depression ARB 02, brought heavy rains to the Indian state of [Gujarat](https://en.wikipedia.org/wiki/Gujarat) in June 2015. Following heavy rains, Gujarat was affected by floods. The flood is also known as the June 2015 Gujarat flood or 2015 Amreli flood. The floods resulted in at least 81 deaths. The wild life of [Gir Forest National Park](https://en.wikipedia.org/wiki/Gir_Forest_National_Park" \o "Gir Forest National Park) and the adjoining area was also affected.

Meteorological history[[edit](https://en.wikipedia.org/w/index.php?title=2015_Gujarat_cyclone&action=edit&section=1" \o "Edit section: Meteorological history)]

[](https://en.wikipedia.org/wiki/File:ARB02_2015_track.png)

Map plotting the track and the intensity of the storm, according to the [Saffir–Simpson scale](https://en.wikipedia.org/wiki/Saffir%E2%80%93Simpson_scale" \o "Saffir–Simpson scale)

The monsoon in Gujarat typically starts in mid-June every year. Following a series of monsoonal disturbances, a fresh wave of thunderstorms organized into an area of low pressure on 21 June in the Arabian Sea, off the coast of [Gujarat](https://en.wikipedia.org/wiki/Gujarat).[[2]](https://en.wikipedia.org/wiki/2015_Gujarat_cyclone#cite_note-2) Deep convection persisted to the west of the system while the circulation continued to develop over the next 24 hours,[[3]](https://en.wikipedia.org/wiki/2015_Gujarat_cyclone" \l "cite_note-3) and the IMD started tracking it as a depression, with the identifier *ARB 02*.[[4]](https://en.wikipedia.org/wiki/2015_Gujarat_cyclone#cite_note-IMD_TWO_22/06z-4) ARB 02 continued to develop and by the night of 22 June, the JTWC issued a TCFA on the system, while it was 285 nmi (528 km; 328 mi) west-northwest of [Mumbai](https://en.wikipedia.org/wiki/Mumbai).[[5]](https://en.wikipedia.org/wiki/2015_Gujarat_cyclone#cite_note-5)

Impact[[edit](https://en.wikipedia.org/w/index.php?title=2015_Gujarat_cyclone&action=edit&section=2" \o "Edit section: Impact)]

[](https://en.wikipedia.org/wiki/File:Flood_Affected_Areas_of_Amreli_District_Gujarat_India_on_24_June_2015_1.jpg)

Flood affected areas of Amreli district on 24 June 2015

There were heavy rains on 23 and 24 June 2015 across Gujarat.[*[verification needed](https://en.wikipedia.org/wiki/Wikipedia:Verifiability" \o "Wikipedia:Verifiability)*][Saurashtra](https://en.wikipedia.org/wiki/Saurashtra_(region)" \o "Saurashtra (region)) and south Gujarat received 65.99% and 37.82% respectively of their average monsoon season rainfall in June. Central-East Gujarat received 19.92%, north Gujarat 7.45% and [Kutch](https://en.wikipedia.org/wiki/Kutch) 7.30% of their average monsoon season rainfall. Overall Gujarat received 33.95% of its average monsoon season rainfall. These large amounts of rain falling in a short period of time resulted in flooding in Saurashtra region.[[6]](https://en.wikipedia.org/wiki/2015_Gujarat_cyclone#cite_note-DeshGuj2015-6)[[7]](https://en.wikipedia.org/wiki/2015_Gujarat_cyclone#cite_note-DeshGujaratv2015-7)

Torrential rains battered Gujarat, with peak accumulations of 636 mm (25.0 in) in Bagasara, 511 mm (20.1 in) in Dhari, and 400 mm (16 in) in Variyav. Severe flooding ensued across the region, isolating many villages in the [Saurashtra region](https://en.wikipedia.org/wiki/Saurashtra_(region)" \o "Saurashtra (region)).[[8]](https://en.wikipedia.org/wiki/2015_Gujarat_cyclone#cite_note-8)

In Saurashtra, [Amreli district](https://en.wikipedia.org/wiki/Amreli_district" \o "Amreli district) was badly affected, facing its worst flood in ninety years. Nearly 600 of the 838 villages in the district were flooded. More than 400 villages were inaccessible as road and rail connections were washed away due to flash floods and they had no electricity. Shetrunji river and its tributaries were flooded. A railway bridge near Gavadka collapsed and a railway line was washed away near Borala village near [Savarkundla](https://en.wikipedia.org/wiki/Savarkundla" \o "Savarkundla). Paschim Gujarat Vij Company Ltd (PGVCL) declared 705 electricity poles damaged.[[9]](https://en.wikipedia.org/wiki/2015_Gujarat_cyclone#cite_note-TNNb2015-9) In [Rajkot district](https://en.wikipedia.org/wiki/Rajkot_district), more than 1700 houses sustained damage. [Jetpur](https://en.wikipedia.org/wiki/Jetpur,_Navagadh" \o "Jetpur, Navagadh) town was flooded as the floodgates of Bhadar dam were opened.[[10]](https://en.wikipedia.org/wiki/2015_Gujarat_cyclone#cite_note-Indiab2015-10)

There was severe damage to crops and a large number of cattle died. The flood and heavy rain resulted in 81 deaths across Gujarat.[[11]](https://en.wikipedia.org/wiki/2015_Gujarat_cyclone#cite_note-11) The preliminary damage estimated by the government were at ₹1650 crore (US$260 million), but [the Indian Express](https://en.wikipedia.org/wiki/The_Indian_Express) estimated the damage at ₹7000 crore (US$1.1 billion), much higher than the government's estimation.[[1]](https://en.wikipedia.org/wiki/2015_Gujarat_cyclone#cite_note-World_2015-1)

The [Gir Forest National Park](https://en.wikipedia.org/wiki/Gir_Forest_National_Park" \o "Gir Forest National Park) and adjoining area housing [Asiatic lions](https://en.wikipedia.org/wiki/Asiatic_lion), an endangered species with only 523 living individuals documented in May 2015, was severely affected. The carcasses of 10 lions, 1670 [Nilgai](https://en.wikipedia.org/wiki/Nilgai" \o "Nilgai), 87 [spotted deer](https://en.wikipedia.org/wiki/Spotted_deer), nine [black bucks](https://en.wikipedia.org/wiki/Black_buck), six [wild boars](https://en.wikipedia.org/wiki/Wild_boar) and some [porcupines](https://en.wikipedia.org/wiki/Porcupine) were also recovered.[[12]](https://en.wikipedia.org/wiki/2015_Gujarat_cyclone#cite_note-NDTV.co2015-12)[[13]](https://en.wikipedia.org/wiki/2015_Gujarat_cyclone#cite_note-NDTV2015-13)[[14]](https://en.wikipedia.org/wiki/2015_Gujarat_cyclone#cite_note-Vp2015-14)[[15]](https://en.wikipedia.org/wiki/2015_Gujarat_cyclone#cite_note-India_TV2015-15)[[16]](https://en.wikipedia.org/wiki/2015_Gujarat_cyclone#cite_note-IndiakToday_2015-16)[[17]](https://en.wikipedia.org/wiki/2015_Gujarat_cyclone#cite_note-17)[[18]](https://en.wikipedia.org/wiki/2015_Gujarat_cyclone#cite_note-18)[[19]](https://en.wikipedia.org/wiki/2015_Gujarat_cyclone#cite_note-Analysis_2015-19)

A total of 112,217 farmers suffered major or minor damages, while 134,007 hectares of land were eroded.[[20]](https://en.wikipedia.org/wiki/2015_Gujarat_cyclone#cite_note-The_TimeIndia_2015-20)

Aftermath[[edit](https://en.wikipedia.org/w/index.php?title=2015_Gujarat_cyclone&action=edit&section=3" \o "Edit section: Aftermath)]

[](https://en.wikipedia.org/wiki/File:Flood_Affected_Areas_of_Amreli_District_Gujarat_India_on_24_June_2015_4.jpg)

People being rescued by Indian Air Force helicopter

The state government deployed the [Indian Air Force](https://en.wikipedia.org/wiki/Indian_Air_Force) (IAF) and [National Disaster Response Force](https://en.wikipedia.org/wiki/National_Disaster_Response_Force) (NDRF) for rescue and relief operation.[[21]](https://en.wikipedia.org/wiki/2015_Gujarat_cyclone#cite_note-21) On 25 June 2015, IAF helicopters delivered more than 200,000 food packets to villages affected by the flood.[[9]](https://en.wikipedia.org/wiki/2015_Gujarat_cyclone#cite_note-TNNb2015-9) Around 4,000 people were evacuated from seventeen villages downstream of Bhadar dam. More than 200 people were rescued from various places affected by the floods. The Chief Minister of Gujarat, [Anandiben Patel](https://en.wikipedia.org/wiki/Anandiben_Patel" \o "Anandiben Patel) declared Rs 400,000 as compensation to the kin of each of the deceased.[[10]](https://en.wikipedia.org/wiki/2015_Gujarat_cyclone#cite_note-Indiab2015-10)

The Government of Gujarat announced a ₹300 crore relief package which included ₹150 crore from the National Calamity Relief Fund.[[1]](https://en.wikipedia.org/wiki/2015_Gujarat_cyclone#cite_note-World_2015-1)[[20]](https://en.wikipedia.org/wiki/2015_Gujarat_cyclone#cite_note-The_TimeIndia_2015-20)

Another [flood affected Gujarat](https://en.wikipedia.org/wiki/July_2015_Gujarat_flood) a month after this storm.