LIBRARY
N.O.A.A.
U.S. Dept. of Commerce

QC
990
I39
I522
1964

INDIA WEATHER REVIEW, 1964

ANNUAL SUMMARY

PART : A

Weather & Rainfall of 1964

Summary -

During the winter season comprising January and February, eleven western disturbances moved across north India, mostly during the first half of January and the second half of February. They gave good rainfall in the Western Himalayas but the winter precipitation in the plains of north India was sub-normal. Moderate to severe cold wave conditions prevailed over north and central India for three weeks covering the second fortnight of January and the first week of February. Weather over the Peninsula was mainly dry except for isolated rain or thundershowers during the first and last weeks of February.

With as many as 19 western disturbances moving across north India during March, April and May, the seasonal thundershower activity was quite pronounced resulting in normal or excess precipitation over most parts of north India during this period. Spells of thundershowers also occurred in the Peninsula during these 3 months with good activity in the interior parts of Mysore State and in Marathwada. A cyclonic storm which developed over the central Bay of Bengal moved in a northeasterly direction to Burma during the first week of May. Under its influence, the southwest monsoon advanced into south Bay Islands and southeast Bay of Bengal upto Lat. 10°N by the end of the first week of May. The monsoon did not advance further until the end of the month when it extended to the north Bay Islands and the remaining parts of the southeast Bay of Bengal.

The monsoon set in over south Kerala on 5th June after a delay of about 5 days but advanced at a rapid pace and covered the entire country by 5th July which is about 10 days earlier than the normal date. Its withdrawal from northwest India started towards the end of September, about a fortnight later than the normal date. Thus the duration of the monsoon period in north India was two to three weeks longer than the normal. There was good monsoon activity over the entire country, the rainfall being in excess in northwest India and the Peninsula and normal over the rest of the country. There were spells of heavy rains leading to floods in north and central India. Of the various low pressure systems that affected the country during the monsoon season, two developed into cyclonic storms in the Arabian Sea and seven into depressions in the Bay of Bengal. In the month of June before the monsoon advanced into north India, moderate to severe heat wave conditions prevailed over Bihar State from 3rd to 13th June and over northeast Madhya Pradesh and east Uttar Pradesh from 11th to 15th.

The monsoon withdrew from north India and the north Peninsula by the middle of October and was confined to the south Peninsula thereafter. There was good rainfall activity in northeast India in October and in the Peninsula in October and November. The activity of the western disturbances in November and December was sub-normal leading to deficit precipitation in northwest India, although one of the disturbances developed into a depression during the second week of December. In the wake of this western depression, moderate to severe cold wave conditions prevailed over north and central India for about a week from 11th to 18th, causing a few deaths and damage to crops. Two depressions and three cyclonic storms developed in the Bay of Bengal and one Cyclonic storm in the Arabian Sea during October to December. Of these the Rameswaram cyclone in December caused very serious damage and loss of lives in Rameswaram Island.

I. Winter period - January and February

Out of the six western disturbances which moved across northwest India during January, five moved in quick succession during the first fortnight. The first western disturbance was feeble and caused a few light showers of rain or snow in Kashmir on 3rd and 4th. This was followed almost immediately by an active western disturbance which moved across Rajasthan to Western Himalayas during the period 5th to 8th causing good precipitation in northwest India. Jammu recorded 12 cm of rain on 7th and Banihal 7 cms on 7th and 6 cms on 8th. The third disturbance moved from Baluchistan to Assam during the second week. The next two western disturbances also moved across northwest India in quick succession during the period 10th-15th. In association with them, the precipitation over Western Himalayas and the adjoining plains continued till 15th. Banihal recorded 5 cms of rain on 9th. The last western disturbance of the month was also fairly active and induced a feeble low over west Uttar Pradesh on 2nd. The system moved away across the country by 25th. Banihal recorded 5 cms of rain on 21st and 7 cms on 22nd and Dalhousie 6 cms on 23rd. Assam received a few showers on a number of days during the first fortnight.

In association with the passage of troughs in the easterlies, spells of precipitation occurred south Bay Islands. They were well marked during the first and third weeks. Kondul recorded 17 cms of rain on 8th and Mancewry 6 cms on 8th and 15 cms on 19th. Except for a short spell of showers on 24th and 25th, weather over the Peninsula remained dry during the month.

Night temperatures were generally above normal over northwest India during the first fortnight. They, however, fluctuated over northwest India and central parts of the country as a result of the passage of 5 western disturbances in quick succession during the same period. They were appreciably to markedly above normal over northwest India on a number of days. In the wake of the 5th western disturbance of the month, a moderate to severe cold wave began to affect northwest India from 15th. The cold wave progressed slowly eastwards and by 19th, it affected most parts of northeast India also. Pilani recorded the lowest minimum temperature of -4°C on 16th. With the approach of the last western disturbance of the month, the cold spell abated slightly from 20th but after the passage of this disturbance a second wave of cold spell began over northwest India from 23rd. This wave was more severe and lasted for a longer period. Sub-freezing temperatures were reported from a number of stations in northwest India. The minimum temperatures at New Delhi (Palam) fell below the freezing point on a few days. The lowest minimum temperature of -5°C was recorded on 25th in Rajasthan at Jaisalmer. The largest departure from normal of minimum temperature was -11°C on 26th at Bikaner. According to press reports

National Oceanic and Atmospheric Administration

Environmental Data Rescue Program

ERRATA NOTICE

One or more conditions of the original document may affect the quality of the image, such as:

Discolored pages
Faded or light ink
Binding intrudes into the text

This document has been imaged through the NOAA Environmental Data Rescue Program. To view the original document, please contact the NOAA Central Library in Silver Spring, MD at (301) 713-2607 x124 or www.reference@nodc.noaa.gov.

Information Manufacturing Corporation
Imaging Subcontractor
Rocket Center, West Virginia
September 14, 1999

a few deaths occurred in Gujarat State, Uttar Pradesh and Bihar due to the cold wave and standing crops were also damaged in Gujarat and Bihar. Water taps were also reported to have frozen at Simla and neighbouring places.

Five western disturbances moved across north India during February. Of these, the second and the fifth disturbances were feeble and moved across the extreme north of the country as upper air troughs. The first western disturbance with the associated well marked trough in the higher levels upto 12 kms was fairly active and affected most parts of the north and central India during the second week. The third and fourth disturbances together with their induced lows similarly affected north India.

A trough of low pressure which appeared over the central parts of the country and Orissa in the beginning of the month persisted till 8th. A trough in the high level westerlies also developed over east Uttar Pradesh and east Madhya Pradesh on 3rd and moved away eastwards across Assam by 6th. In association with these developments, thundershowers occurred at a few places in northeastern parts of the Peninsula and adjoining areas during the first week. Kalingapatam recorded 8 cm of rain and Angul and Jagdalpur 5 cm each on 4th. Weather remained dry during the second and third weeks over the Peninsula. But with the slow warming up, a trough of low pressure appeared over the Peninsula at the beginning of the last week causing a few light thundershowers over the northeastern parts of the Peninsula during the last week. During this period, two feeble easterly waves also moved westwards across Comorin-Ceylon areas causing spells of thundershowers in the extreme south Peninsula.

The cold spell which was affecting north India and adjoining central parts of the country since the middle of January continued till 4th February. The night temperatures over these areas, however, rose steadily and with the approach of the active western disturbance during the month, they became above normal over northwest India by 9th and also over Uttar Pradesh and central parts of the country by 10th. They were generally above normal over most parts of north India and central parts of the country during the third week but were again below normal during the last week particularly over northwest India. Over the Peninsula, the night temperatures were generally above normal except during the middle 10 days of the month when they were below normal on a few days.

The rainfall for the period was normal in Orissa, in moderate defect in Assam, Jammu and Kashmir, east Madhya Pradesh and north Interior Mysore and in large defect in the Bay Islands, West Bengal, Bihar State, Uttar Pradesh, Punjab, west Rajasthan, west Madhya Pradesh, Saurashtra and Kutch, Vidarbha, Andhra Pradesh, Madras State, south Interior Mysore, Kerala and the Arabian Sea Islands. There was no rain over the rest of the country.

The mean maximum temperature was above normal in the Bay Islands, Bihar Plateau, east Madhya Pradesh, Telangana and the Arabian Sea Islands and below normal in Punjab and Jammu and Kashmir. It was normal over the rest of the country.

The mean minimum temperature was above normal in Gangetic West Bengal, Orissa and Telangana and below normal in Uttar Pradesh, Jammu and Kashmir, Rajasthan, Gujarat State and coastal Mysore. It was normal over the rest of the country.

The mean relative humidity in the morning was below normal in east Uttar Pradesh, west Rajasthan, west Madhya Pradesh, Marathwada and Vidarbha and normal over the rest of the country.

The mean cloud amount in the morning was above normal in Orissa and coastal Mysore, below normal in Sub-Himalayan West Bengal, Bihar State, Uttar Pradesh, west Rajasthan, Madhya Pradesh, Gujarat Region, Konkan, Marathwada, Rayalseema and south Interior Mysore and normal over the rest of the country.

II Hot weather period - March to May

Seven western disturbances moving across north India affected the weather over the various parts of the area in March. Of these, the first western disturbance was fairly active and caused good precipitation over the Western Himalayas and the plains of the Punjab (I) on 3rd and 4th. The next three were somewhat feeble. The last 3 disturbances were again fairly active and following a more southerly course across the Gangetic Plains affected the weather over most parts of north and central India during the last two weeks.

The seasonal trough of low pressure which had appeared over the Peninsula during the last week of February was active at the beginning of this month leading to a few thundershowers in Orissa and the central parts of the country. Thereafter, the weather remained mainly dry over these areas. The extreme south Peninsula, however, received spells of thundershowers in association with the movement of four troughs in the low level easterlies across the Comorin and Maldive areas during the first fortnight. During the second fortnight there was a general increase in the seasonal thundershower activity over the Peninsula and northeast India presumably due to the more southerly course of the western disturbances. In association with a trough of low pressure which persisted over the Comorin area from 20th to 24th, a spell of good thundershowers occurred over the Peninsula. Punalur recorded 8 cm of rain on 22nd. The thundershower activity persisted till the end of the month; Coonoor reported 9 cm of rain on 29th.

Day temperatures were generally above normal over northwest India, Uttar Pradesh and central parts of the country till 25th and again towards the end of the month and over Gujarat State during the second week when they were appreciably to markedly above normal over all above areas. They were also above normal over northeast India on most of the days during the first fortnight, being appreciably to markedly so on a few days. Over the Peninsula, day temperatures were above normal during the first and third weeks particularly over the northern parts. They were below normal over the south Peninsula on 11th and 12th and also from 20th to 22nd, over the central parts of the country on 25th and 26th, and over northwest India and Assam and West Bengal during the period 18th to 20th.

In addition to the last western disturbance of the [illegible] month moving from Rajasthan to Assam, seven fresh western disturbances affected the weather over many parts of north India during April. Of these, the second, the third and sixth disturbances were feeble and mostly [illegible] the extreme north of the country caused a few light showers of rain or snow in Jammu and Kashmir. The remaining four disturbances were fairly active, the last two taking a more southerly course across the Ganges Valley.

The seasonal trough of low pressure over northeast India was fairly active and was accentuated periodically by the movement of the upper air troughs associated with the western disturbances. During the first week, a spell of good thundershowers occurred in Assam. According to press reports, a severe storm accompanied by rain and hailstones lashed Gauhati and Nowgong on 4th evening uprooting trees and disrupting telecommunications. During the second half of the month, the thundershower activity extended to the other parts of northeast India. With the shifting of the seasonal trough of low pressure slightly westwards after 20th, the thundershower activity over Assam decreased.

The thunderstorm activity over the Peninsula and central parts of the country was subnormal during the month. However, spells of thundershowers occurred in the north Peninsula and central parts of the country during the second and fourth weeks. Troughs in the low level easterlies moving westwards across Ceylon and adjoining sea areas also caused thundershowers in the extreme south Peninsula on a number of days with increased activity during the last week.

Day temperatures were generally above normal in northwest India, Gujarat State, central parts of the country and the north Peninsula during the month except for the first week, being appreciably so at a number of places during the period 10th to 14th. They were also above normal in Uttar Pradesh during the second week, being appreciably or markedly so on most of the days, in Assam during the last week and in the remaining parts of northeast India on a number of days during the first fortnight. Day temperatures were below normal in Assam for the major part of the month except during the last week. They were appreciably below normal in northwest India during the period 10th to 18th and in Uttar Pradesh on 17th and 18th. During the last week also, day temperatures were below normal in Uttar Pradesh, Bihar and West Bengal.

Five western disturbances moved eastwards across the northern parts of the country during May causing spells of light to moderate precipitation. In association with the last western disturbance, a 90 miles per hour gale accompanied by rain and hail lashed Jaipur and neighbouring areas uprooting hundreds of trees on the evening of 27th, as reported in the press.

A low pressure area moving from the south Andaman Sea into the southwest Bay of Bengal recurved northeastwards and intensified into a depression by the morning of 6th. It further intensified into a cyclonic storm of small extent by the next morning and continuing its northeastward movement crossed the Arakan coast during the night of 8th - 9th. Later it weakened rapidly. Under its influence, the southwest monsoon advanced into the south Bay Islands and the southeast Bay of Bengal upto Lat. 10°N towards the end of the first week. It also caused good thundershowers in the Peninsula and the Bay Islands during the first week. In association with a trough of low pressure over the north Andaman Sea and the east central Bay of Bengal during the period 11th to 17th, the thundershower activity over the Bay Islands continued during the second week also. Car Nicobar recorded an exceptionally heavy fall of 24 cms of rain on 11th. The activity over the Peninsula, however, decreased during the second week. But with the development of a trough in the low level westerlies during the third week and a low pressure area persisting over Orissa and east Madhya Pradesh from 21st onwards, spells of good thundershowers occurred over the Peninsula during the second fortnight.

The seasonal thundershower activity over Assam and West Bengal was well marked during the first week. The activity extended to the other parts of northeast India during the second week when a trough of low pressure lay over Orissa and neighbourhood. According to press reports, atleast 16 persons were killed and 300 injured in house collapses and by flying roofs and uprooted trees in one of the worst ever storms that swept Kathadamam block in Purnea district on 7th. During the second fortnight, there was a general decrease of rainfall over the area. But with the development of a trough of low pressure over the east central Bay of Bengal on 28th and its subsequent extension into upper Burma, the thundershower activity over Assam increased on the last two days of the month. The monsoon also extended into the north Bay Islands and the remaining parts of the southeast Bay of Bengal by the end of the month.

Day temperatures were above normal during the first 9 days over the country outside Assam and south Peninsula where they were normal or below normal. Thereafter they remained below normal upto about 17th, generally over the entire country, being appreciably to markedly so over northwest India, west Uttar Pradesh and parts of Madhya Pradesh. They were below normal again over Uttar Pradesh during 21st - 29th and over northwest India from 21st till the end of the month, being markedly so in the Punjab (I) till 23rd. The day temperatures over most parts of northeast India and the Peninsula were, however, above normal from 18th onwards, being appreciably to markedly so during the last 3 days of the month.

The rainfall for the period was in large excess in east Rajasthan, in moderate excess in east Uttar Pradesh and in slight excess in the Bay Islands and Bihar Plains. It was normal in Assam, Orissa, Bihar Plateau, Punjab, Saurashtra and Kutch and [illegible]. It was in slight defect in West Bengal, West Uttar Pradesh, [illegible] Madhya Pradesh, Interior Mysore; in moderate defect in west Rajasthan, Madras State, coastal Mysore, [illegible] and the Arabian Sea Islands and in large defect over the rest of the country.

The mean maximum temperature was above normal in the Bay Islands, Rajasthan, Madhya Pradesh, Madhya Maharashtra, Marathwada, Vidarbha and Telangana. It was normal over the rest of the country.

The mean minimum temperature was normal over the country.

The mean relative humidity in the morning was above normal in Bihar Plains and Saurashtra and below normal in Marathwada and normal over the rest of the country.

The mean cloud amount in the morning was below normal in Bihar Plateau, west Uttar Pradesh, Rajasthan, Madhya Pradesh, Marathwada, Vidarbha, Rayalaseema and south Interior Mysore and normal over the rest of the country.

III. Monsoon Season - June to September

The southwest monsoon advanced slowly and set in over south Kerala on 5th June about five days later than the normal date. A low pressure area forming over the east central Arabian Sea off the Kanara coast on 6th moved northwards and intensified into a severe cyclonic storm of small extent by the morning of 11th when it was centred about 100 kms southwest of Veraval. It began to recurve northeastwards and crossing coast just north of Naliya on 12th, it weakened and broke up over the Western Himalayas by 14th. Under its influence, the monsoon rapidly advanced northwards and set in over the entire west coast by 12th. Heavy rains also occurred in Gujarat State, Rajasthan and the Punjab (I). According to press reports, the cyclonic winds and tidal waves which rose to a height of 15 feet caused considerable havoc to public property along the Kathiawar coast. 27 persons including 20 on board three sailing vessels which were wrecked by the storm were feared to have been killed. A number of country craft and barges were also reported to have sunk in the stormy seas.

Pre-monsoon thundershower activity was quite pronounced over Assam during the first week and all the rivers in the State rose in spate following the heavy rains. The heavy rains in Assam continued during the second week following the onset of the monsoon there. The monsoon advanced into south Assam by 11th and steadily extended into the remaining parts of northeast India by 17th. According to press reports, the Brahmaputra rose above the danger level at many places particularly during the third week, inundating and damaging vast areas of paddy and jute crops. More than four lakh persons were affected by the floods. In north Bengal also the Teesta and Teesta were in high floods during the last week. Spells of heavy rains occurred in the central parts of the country and adjoining areas during the last ten days of the month as a result of the development and movement of two low pressure areas from the head Bay of Bengal.

A low pressure area formed over northwest Bay of Bengal on 18th and moving northwestwards persisted over northeast Madhya Pradesh and adjoining east Uttar Pradesh from 21st to 25th. Under its influence, the monsoon extended further into Gujarat State and most parts of Madhya Pradesh and of Uttar Pradesh by 25th. Another low pressure area lying over Bihar Plateau and adjoining Orissa and Gangetic West Bengal towards the end of the month caused heavy rains in the central parts of the country, Orissa and Bihar State.

After the initial spell of heavy rains which occurred at the time of the setting in of the monsoon along the west coast, the monsoon remained weak to moderate for the rest of the month. However, the rainfall activity increased appreciably over the Konkan and coastal Mysore during the second half of the month. The other parts of the Peninsula also received a few spells of showers with increased rainfall during the last week.

Two western disturbances moving eastwards across the Western Himalayas caused dust or thunderstorms over many parts of northwest India during the first week. A spell of good rains occurred over this area about the middle of the month when the remnants of the severe cyclonic storm from the Arabian Sea moved over to the Punjab (I). The rainfall was particularly heavy in Jammu and Kashmir where the Srinagar-Jammu road was reported to have breached at some places due to the flood waters of the river Jhelum. Mainly dry weather prevailed over northwest India during the second fortnight except for the rainfall in the Western Himalayas during the last week due to the advancing monsoon current in the low levels.

Day temperatures were appreciably above normal in West Bengal, Bihar State, east Uttar Pradesh and the central parts of the country during the first fortnight. Moderate to severe heat wave conditions prevailed over Bihar State from 3rd to 13th and over northeast Madhya Pradesh and east Uttar Pradesh from 11th to 13th. Thereafter it subsided as a result of the advance of the monsoon over the area. According to press reports, 38 people died due to heat wave in Bihar State.

The monsoon activity was well maintained over practically the entire country during July. A low pressure area lying over Bihar Plateau and neighbourhood towards the end of June moved westwards and merged into the monsoonal low by 3rd. This was followed by a depression which formed over the head Bay of Bengal on 3rd and moved in a northwesterly direction. Under their influence, the monsoon activity was well maintained over most parts of the country being particularly strong over the central belt of the country from Orissa to Gujarat State and also over the Konkan and Kerala. Sambalpur recorded 31 cm of rain on 9th and Broach 22 cm and Surat 21 cm on 7th.

The axis of the monsoon trough shifted to the north of its normal position and lay close to the foot of the Himalayas on most of the days during the period 8th to 18th. In association with it, the monsoon activity was more marked over north India with heavy to very heavy rains occurring at a number of places in the Himalayas and adjoining plains. According to press reports, the Brahamputra in Assam, the Bagmati, the Kamla and the Ganga in north Bihar, the Jamuna near Delhi and the Beas and Markanda in the Punjab (I) rose in spate due to the heavy rains and flooded low lying areas. Standing crops over vast areas were damaged and a number of villages were also affected. The monsoon was weak to moderate over the remaining parts of the country except for a few spells of heavy rain along the west coast during the above period.

Two low pressure areas which developed over Orissa and southeast Madhya Pradesh on 20th and over Vidarbha on 24th respectively, moved in a northwesterly direction. Under their influence, the monsoon activity was sustained till the end of the month over the country outside the west coast where it was weak during the last week. As a result of the heavy rains in the central parts of the country in the third week, the flood waters of the Morna river were reported to have inundated low lying areas in Akola district and washed away standing crops over an area of about 5,000 acres.

An unusual spell of good rainfall occurred in the Madras State and Andhra Pradesh during the last week as a result of a trough of low pressure moving from east into the extreme south Peninsula. The monsoon activity revived along the west coast towards the end of the month.

The monsoon activity along the west coast was sustained during the first week of August as a result of of the development of an upper air trough over the east central Arabian Sea off the Konkan-Kanara coast. A cyclonic storm of very small extent developing in the Arabian Sea off Bombay on 7th caused heavy rains and squally weather in the north Konkan. According to press reports, two persons were killed on 7th when squally winds accompanied by heavy rains lashed Bombay. Two small ships in midstream broke loose from their moorings. Very extensive damage to plantain and chiku orchards in Thana district was also reported. The monsoon was moderate to weak over the Peninsula and also over Assam and West Bengal during the last three weeks of the month. However, spells of good rainfall occurred in the Madras State and Andhra Pradesh particularly towards the end of the month.

Four depressions and a low pressure area forming in the north Bay of Bengal and moving inland during the period from 5th to the end of the month were responsible for the fairly good activity of the monsoon over the central parts of the country and northwest India after the first week. Of these, the first three depressions were deep. The spells of heavy rains led to floods in Assam, north Bengal and north Bihar during the first week, in east Uttar Pradesh during the second and third weeks, in Madhya Pradesh during the third week and in Bihar State, east Rajasthan, the Punjab (I) and Delhi areas during the second fortnight. The floods were reported to have affected hundreds of villages and caused serious damage to standing crops and many road bruches.

The monsoon activity was well sustained over the country outside northwest India in September as a result of the development and movement of five low pressure systems from the Bay of Bengal, the last two intensifying into deep depressions.

The first low pressure area formed over the head Bay of Bengal on 7th and moving westnorthwestwards persisted over Uttar Pradesh from 11th to 15th. The heavy rainfall activity prevailing over northeast India during the first week extended to east Uttar Pradesh and east Madhya Pradesh during the second week. The river Bagmati in Muzaffarpur rose in floods causing damage to paddy crops and disruption of communication services in the first week. The second low pressure system developed as a trough in the southwest Bay of Bengal off the Coromandal coast on 3rd and moving across the south Peninsula persisted over the Arabian Sea off Malabar-Kanara coasts from 6th to 9th. Under its influence, there was good rainfall activity in the Peninsula during the first week. The monsoon continued to be active over the Peninsula till the end of the third week under the influence of the third low pressure area. This system formed over the east central Bay of Bengal on 11th and moving westwards into the east central Arabian Sea across the north Peninsula recurved northeastwards to Uttar Pradesh by 21st. Later it became unimportant. Under its influence, the monsoon activity was maintained over the Peninsula, the central parts of the country, Gujarat State and Uttar Pradesh during the third week. According to newspaper reports, many of the rivers in Gujarat State were in floods due to the heavy rains and inundated low lying areas and caused damage to many homes. Sixteen persons were feared to have been drowned in the floods of the Bhari river in Bhavnagar district. The Bharati dam in Marathwada was reported to have breached due to heavy rains.

During the last week of the month, two deep depressions moving inland from the Bay of Bengal kept up the monsoon activity over the country. The first one forming over the head Bay on 23rd moved northwestwards to the Punjab (I) by 26th. The spell of heavy rains caused by it led to serious floods in west Uttar Pradesh and the Punjab (I) where a number of houses were reported to have been damaged and vast areas inundated. The second deep depression formed on 27th over the west central Bay of Bengal and crossing coast near Kakinada weakened into a low pressure area over Telangana and neighbourhood by 30th. It caused heavy rains in Andhra Pradesh and other parts of the north Peninsula. Bantachintala recorded 23 cm of rain on 29th. According to newspaper reports the heavy rains in Andhra Pradesh caused disruption of road and rail communications. Fourteen spans of the Vijayapuri bridge near the Nagarjuna dam were washed away by the swollen waters of the Krishna. More than five hundred fishermen who had left Kakinada and neighbouring villages on 26th and 27th were caught in the high seas but all except a few returned safely.

The five low pressure systems including the two deep depressions helped to maintain the monsoon activity over the country almost upto the end of the month. Consequently the withdrawal of the monsoon was delayed. A trough in the high level westerlies which developed over West Pakistan and Afghanistan on 24th persisted there till 26th and later moved away eastwards across the Western Himalayas by 29th. In its wake, the monsoon withdrew from northwest India by 28th, about a fortnight after the normal date.

The rainfall for the period was in large excess in coastal Andhra Pradesh, Rayalaseema and north Interior Mysore, in moderate excess in west Uttar Pradesh, Punjab, West Rajasthan, south Interior Mysore and the Arabian Sea Islands and in slight excess in the Bay Islands, Sub-Himalayan West Bengal, Orissa, Saurashtra and Kutch, Madhya Maharashtra and Madras State. It was normal over the rest of the country outside Gangetic West Bengal, Bihar Plains and east Rajasthan, where it was in slight defect.

The mean maximum temperature was normal over the country outside Rayalaseema, where it was below normal.

The mean minimum temperature was normal over the country outside Jammu and Kashmir, where it was below normal.

The mean relative humidity in the morning was above normal in west Rajasthan and Rayalaseema and normal over the rest of the country.

The mean cloud amount in the morning was above normal in Madras State, north Interior Mysore and the Arabian Sea Islands and normal over the rest of the country.

IV. Post Monsoon Season - October to December

The well marked low pressure area which was lying over Telangana and adjoining north Interior Mysore at the end of September, persisted there till 3rd October. Later it shifted northwestwards and became unimportant by 5th. Under its influence fairly well distributed rainfall occurred in the north Peninsula particularly over the western parts. According to press reports, the torrential rains in Bijapur district caused death of 18 persons and collapse of many houses. In association with the development of two troughs of low pressure in the west central Bay of Bengal during the second week, there was good rainfall activity in the Peninsula with spells of heavy rains in the southern parts.

A low pressure area moving from the east into the east central Bay of Bengal, intensified and concentrated into a depression by the morning of 4th with centre about 100 km westsouthwest of Cox's Bazar. Moving northwestwards it further intensified into a deep depression by the next morning and crossed the East Pakistan coast near Barisal the same day. Moving westwards and weakening progressively into a low pressure area by 8th, it lay over Bihar Plateau till 10th. Thereafter, it moved eastwards and became unimportant by 13th. Under its influence, there was a spell of good rainfall in northeast India from 4th to 14th. East Uttar Pradesh and east Madhya Pradesh also recorded good rainfall on a few days in the second week.

In the wake of this depression, the monsoon which had been withdrawing from north and central India rapidly withdrew from northeast India and north Peninsula by 15th and remained confined to the south Peninsula thereafter.

A low pressure area which developed over the south Peninsula on 15th moved westwards and persisted over the Arabian Sea off the Kerala and Mysore coasts till 18th. In association with it, the rainfall activity over south Peninsula continued till 17th but decreased later. The Trivandrum Observatory reported an all-time record of 40 cm of rain on 18th. According to press reports, the unseasonal deluge caused by the torrential rains washed away hundreds of houses and rendered over 5,000 people homeless. Seven persons were reported to have been killed and the damage to property was estimated to be about Rs. 7 lakhs.

Another low pressure area over the north Andaman Sea on 16th moved in a northwesterly direction and progressively intensified into a deep depression by 18th morning. Crossing coast near Gopalpur during the night of 18th-19th, it recurved northeastwards. It weakened into a low pressure area on 21st and moved away eastwards across Assam by 23th. In the course of its movement, the disturbance caused fairly well distributed rainfall in coastal Andhra Pradesh and east Madhya Pradesh and a spell of good rainfall over northeast India for nearly a week from 18th. Another spell of well distributed rainfall occurred in Assam, West Bengal and Orissa in association with a low pressure area moving from north Andaman Sea to Gangetic West Bengal and Bihar Plateau during the period 24th to 29th.

An upper air trough which developed over the Madras State and adjoining Andhra Pradesh on 21st persisted there till 23th. Later it shifted into the east central Arabian Sea off the Mysore coast and became unimportant by 30th. Under its influence, there was good rainfall in the south and adjoining northwestern parts of the Peninsula.

A low pressure area moving into the southeast Arabian Sea from the east intensified into a depression by the morning of 2nd November with centre near Lat. 9.5°N and Long. 72.0°E. Moving westwards it further intensified into a cyclonic storm by the evening of 4th centred near Lat. 11°N and Long. 66.5°E. It continued to move westwards and was centred on 8th near Lat. 10.5°N and Long. 56.5°E and later moved away in a southwesterly direction. In association with it, there was good rainfall in the south and northwestern parts of the Peninsula at the beginning of the month.

Under the influence of a low pressure wave from the east, a depression formed over the south Andaman Sea on the evening of 3rd with centre near Lat. 8.0°N and Long. 95.0°E. It moved initially northwestwards and later westnorthwestwards and progressively intensified into a severe cyclonic storm of small extent with a core of hurricane winds by the evening of 6th with centre near Lat. 13.0°N and Long. 84.0°E. It changed its course to westsouthwestwards on 7th, weakened into a cyclonic storm and crossed coast just south of Madras that same night. It emerged into the east central Arabian Sea off the Mysore and south Maharashtra coast on 9th as a low pressure area. Later it shifted slightly northwards and became unimportant by 13th. Under its influence, there was well distributed rainfall in the south Peninsula with the rainfall belt extending to the northwestern parts of the Peninsula in the second week. The rainfall decreased over the Peninsula thereafter. However, in association with the movement of a low pressure wave from the south Andaman Sea across Maldive area during the period 9th to 15th rain occurred in the extreme south Peninsula till 17th.

A low pressure area moving from the east concentrated into a depression by the morning of 16th when it lay centred near Lat. 13.5°N and Long. 83.5°E. Moving westwards it intensified into a cyclonic storm on 18th.

morning with centre near Lat. 13.5°N and Long. 82.5°E and into a severe cyclonic storm the same evening with centre near Lat. 13.0°N and Long. 81.5°E. It moved upto the coast south of Madras by 19th evening but later it recurved eastwards and weakened into a cyclonic storm by 20th evening. It began to move southeastwards from the morning of 21st till 23rd when it lay as a leep depression centred near Lat. 10°N and Long. 84°E. Thereafter, it moved northnortheastwards till the evening of 25th when it was centred near Lat. 13.5°N and Long. 85.5°E. Later it moved eastwards into the north Andaman Sea where it weakened into a low pressure area by 29th. This disturbance caused a spell of good rains in the south Peninsula during the third week with Madras City getting heavy rains for three consecutive days from 18th, the rainfalls recorded being 10 cm on 19th and 9 cm each on 20th and 21st. According to press reports, over 5000 huts were submerged and 30,000 people rendered homeless because of the heavy rains in Madras City. A few persons also lost their lives. The Bay Islands also received good rainfall during the period of the disturbance. It also caused incursion of moist air into northeast India leading to a spell of rains in south Assam, Gangetic West Bengal and Orissa during the first half of the third week.

In the absence of any western disturbance, weather continued to be dry over northwest India during the first fortnight. A trough in the westerlies which appeared over northwest India on 18th moved away eastwards across Assam by 22nd. In association with it, a few light showers occurred in the Punjab (I), East Madhya Pradesh, Bihar State and Assam. A feeble western disturbance lying as a sea level low over Baluchistan and adjoining West Pakistan moved eastwards and was lying over west Rajasthan and adjoining Punjab (I) on 30th. It caused a few showers in west Rajasthan and Jammu and Kashmir towards the end of the month.

Night temperatures were generally below normal over northwest India upto 25th. Thereafter they began to rise and became appreciably above normal towards the end of the month over the area. Night temperatures were also below normal over the central parts of the country during the second half of the month except from 18th to 20th when they were appreciably to markedly above normal. Over Uttar Pradesh, the night temperatures were below normal during the second week and again from 20th to 25th. Night temperatures over northeast India remained above normal during the first and third weeks. They were also above normal in Assam during the last week when the remaining parts of northeast India experienced night temperatures below normal. Over the Peninsula they were above normal for the major parts of the second and third weeks, although on a few days they were below normal over the northern parts. They remained below normal over the entire Peninsula during the last week, being markedly so on a number of days.

The western disturbance which was lying over the West Rajasthan and the adjoining Punjab (I) on 30 November, moved away northeastwards across the Western Himalayas by 1st December. It caused a few falls of rain or snow in the Punjab (I) and Jammu and Kashmir on 1st. A fresh western disturbance lay as an upper air trough on 1st over Baluchistan. Moving slightly eastwards, it persisted over West Pakistan from 2nd to 5th and later moved away northeastwards across Jammu and Kashmir. Under its influence, the Western Himalayas received precipitation on 3rd and 4th. Another fairly active western disturbance moved into West Pakistan on 9th. Moving slowly eastwards it intensified into a depression by the next day. It, however, weakened on 12th and moved away eastwards across Western Himalayas by 13th. Under its influence there was a spell of good precipitation over northwest India and Uttar Pradesh during the second week. According to press reports, the heavy snowfall in Kashmir led to the suspension of the air service between Jammu and Srinagar for nearly 12 days from the beginning of the second week, besides disrupting telephone and electrical channels. No western disturbance affected northwest India during the second fortnight and dry weather prevailed there during the period.

Two spells of rain or thundershowers occurred in Assam during the first week and in the middle of the second week respectively. Otherwise the weather over northeast India was mainly dry. Mainly dry weather also prevailed over the Peninsula till 21st except for a few showers in the extreme south Peninsula during the first week.

In association with a low pressure wave moving from the east, a depression formed in extreme southeast Bay of Bengal and adjoining south Andaman area on the morning of 17 December with centre near Lat. 5.0°N and Long. 93.0°E. Moving slightly westwards, it intensified into a severe cyclonic storm by the morning of 20th with centre near Lat. 5.0°N and Long. 91°E. Moving westnorthwestwards it lay centred near Lat. 7°N and Long. 84°E on the morning of 22nd. Thereafter it moved rapidly northwestwards and was centred near Lat. 9°N and Long. 82°E on the evening of 22nd. It then took a westnorthwesterly course and moving across the Palk Strait crossed the Madras coast near Tondi on the afternoon of 23rd. It weakened into a cyclonic storm by the evening of 23rd and emerging into the southeast Arabian Sea off Kerala coast as a depression on 24th moved away westwards as a low pressure area. Under its influence, fairly widespread rainfall occurred in the Bay Islands during the third week and in the south Peninsula during the fourth week. Madurai reported 23 cm of rain on 24th. The cyclonic winds and tidal waves associated with the storm ravaged Dhanushkodi and other places in Rameswaram Island, the death roll being estimated over 900 including all the passengers in an entire train that was swept off in the raging waters on the night of 22nd-23rd. The railway bridge between Mandapam [illegible] swept off by the tidal waters and the communication between Dhanushkodi and the mainland was completely cut off.

Night temperatures were appreciably to markedly above normal over northwest India and Uttar Pradesh till 5th. Later they were above normal till 11th over the other parts of north India and over central parts of the country besides continuing to be so in Uttar Pradesh. They were below normal over northwest India from 6th. In the wake of the western depression which moved across north India during 9th to 13th, a moderate to severe cold wave began to affect west Rajasthan and Gujarat State on 11th. The cold wave spread to the other parts of north and central India where it persisted till 18th. The minimum temperatures in the Punjab (I) were as much as 11°C to 13°C below normal on 12th and sub-freezing temperatures were reported from a few places. In

northwest India. Anupgarh in northwest Rajasthan recorded the lowest minimum temperature of -3°C on 14th. According to press reports, a number of persons died due to the cold wave in the Punjab (I), Uttar Pradesh and Gujarat State. In Rajasthan hundreds of cattle were also reported to have perished and standing crops damaged. The night temperatures were generally above normal during the last week over northwest India, most parts of northeast India and the Peninsula but were below normal in the central parts of the country.

The rainfall for the period was in large excess in Konkan, in moderate excess in north Interior Mysore and in slight excess in Assam, Bihar Plains and coastal and south Interior Mysore. It was normal in Gangetic West Bengal, east Madhya Pradesh, Madras State and Kerala. It was in slight defect in the Bay Islands, Sub-Himalayan West Bengal and Bihar Plateau; in moderate defect in Jammu and Kashmir, Madhya Maharashtra, Vidarbha, Andhra Pradesh and the Arabian Sea Islands and in large defect over the rest of the country outside Saurashtra and Kutch, where there was no rain.

The mean maximum temperature was above normal in Bihar Plains and normal over the rest of the country.

The mean minimum temperature was above normal in Sub-Himalayan West Bengal and below normal in west Rajasthan and Saurashtra and Kutch. It was normal over the rest of the country.

The mean relative humidity in the morning was above normal in north Interior Mysore; below normal in Gujarat State and normal over the rest of the country.

The mean cloud amount in the morning was above normal in Sub-Himalayan West Bengal, Bihar Plains, Madhya Maharashtra and north Interior Mysore; below normal in west Uttar Pradesh, west Rajasthan and Telangana and normal over the rest of the country.

Taking the year as a whole, the rainfall was in moderate excess in north Interior Mysore and in slight excess in west Uttar Pradesh, Punjab, west Rajasthan, Rayalaseema and south Interior Mysore. It was normal in the Bay Islands, Assam, Sub-Himalayan West Bengal, Orissa, Bihar State, east Uttar Pradesh, Madhya Pradesh, Gujarat State, Konkan, Madhya Maharashtra, Vidarbha, coastal Andhra Pradesh, Telangana, Madras State, coastal Mysore, Kerala and the Arabian Sea Islands, in slight defect in Gangetic West Bengal, east Rajasthan and Marathwada and in moderate defect in Jammu and Kashmir.

NOTE :

1. The Indian Standard Time used in this publication is 5 hours 30 minutes in advance of G.M.T.

2. It is not possible to adopt a single classification of seasons which will be satisfactory for the whole of India. The classification adopted in this publication is, however, considered as the most satisfactory one and the least open to objection especially from the point of view of rainfall.

3. Description in respect of Himachal Pradesh is not included for want of normals.

Table I - Divisional and Sub-Divisional Rains for the year 1964

Division	Rainfall (millimetres)	Percentage of normal	Mean Maximum Temp.	Mean Minimum Temp.	Relative Humidity 0830 hrs.	Relative Humidity 1730 hrs.	Cloud 0830 hrs.	Cloud 1730 hrs.
1. Assam (Including Manipur and Tripura)	2263.6 +27.8	101	28.6 +0.1	18.6 +0.1	81 0	74	4.6 +0.1	4.3
2. West Bengal	1759.6 -89.2	95	31.4 +0.4	21.3 +0.5	75 0	66	3.5 -0.1	3.5
3. Orissa	1513.6 +18.1	101	32.2 +0.4	21.7 -0.3	74 0	66	3.9 +0.4	[illegible]
4. Bihar	1144.[illegible] -100.2	92	31.5 +0.6	19.4 -0.1	70 +2	59	3.0 +0.1	3.1
5. Uttar Pradesh	1065.4 +2.5	100	31.9 +0.4	17.9 -0.5	65 +1	49	2.2 -0.1	2.4
6. Punjab (I) (including Delhi)*	1000.7 +141.1	116	30.8 +0.3	16.6 -0.6	65 +3	45	2.4 +0.1	2.6
7. Jammu and Kashmir	507.0 -178.8	74	19.1 -1.1	6.3 -0.9	64 -1	53	3.4 -0.1	3.7
Sub-Division								
1. Bay Islands	3323.8 +191.1	106	30.5 +1.1	23.0 -0.1	76 -1	82	5.4 +0.5	5.5
2. Assam (Including Manipur and Tripura)	2263.6 +27.8	101	28.6 +0.1	18.6 +0.1	81 0	74	4.6 +0.1	4.3
3. Sub-Himalayan West Bengal	3105.2 +278.9	110	29.9 +0.1	19.2 +0.2	77 +1	65	3.6 +0.4	3.3
4. Gangetic West Bengal	1310.2 -176.3	88	31.8 +0.5	21.9 +0.6	74 0	66	3.4 -0.2	3.5
5. Orissa	1513.6 +18.1	101	32.2 +0.4	21.7 -0.3	74 0	66	3.9 +0.4	4.1
6. Bihar Plateau	1308.8 -71.9	95	31.6 +0.7	19.2 -0.3	67 0	56	3.0 -0.2	3.4
7. Bihar Plains	1063.7 -115.0	90	31.5 +0.6	19.7 0	73 +1	62	2.9 +0.1	2.8
8. Uttar Pradesh, East	984.2 -102.4	91	32.3 +0.5	18.3 -0.5	67 0	50	2.4 -0.1	2.4
9. Uttar Pradesh, West	1186.9 +159.7	115	31.3 +0.2	17.3 -0.5	64 +1	47	2.1 -0.3	2.4
10. Punjab (India) (Including Delhi)	1000.7 +141.1	116	30.8 +0.3	16.6 -0.6	65 +3	45	2.4 +0.1	2.6
11. Himachal Pradesh	1277.1 -	-	28.1 -	11.0 -	78 -	53	2.0 -	2.1
12. Jammu and Kashmir	507.0 -178.8	74	19.1 -1.1	6.3 -0.9	64 -1	53	3.4 -0.1	3.7
13. Rajasthan, West	373.7 +68.1	122	33.5 +0.2	18.6 -0.5	58 +1	35	1.8 -0.2	2.0
14. Rajasthan, East	579.3 +107.7	84	32.6 +0.5	18.8 -0.1	54 -1	35	2.3 +0.1	2.9
15. Madhya Pradesh, West	948.4 -95.8	91	32.4 +0.7	1[illegible].3 -0.1	57 -2	41	2.8 0	3.2
16. Madhya Pradesh, East	1481.3 +83.7	102	32.1 +0.2	19.4 +0.4	[illegible]	49	3.1 -0.1	3.6

Division	Rainfall (millimetres)	Percentage of normal	Mean Maximum Temp.	Mean Minimum Temp.	Relative Humidity 0830 hrs.	Relative Humidity 1730 hrs.	Cloud 0830 hrs.	Cloud 1730 hrs.
8. Rajasthan	476.5 -20.0	96	33.0 +0.4	18.7 -0.3	56 0	35	2.1 0	2.5
9. Madhya Pradesh	1183.7 -38.6	97	32.3 +0.7	18.8 +0.1	61 -1	44	2.9 -0.1	3.5
10. Gujarat State	755.6 +39.3	106	32.9 +0.1	20.4 -0.4	68 +1	50	2.7 0	2.6
11. Maharashtra State	1486.1 +26.1	102	32.6 +0.5	20.4 +0.1	65 0	49	3.3 0	3.7
12. Andhra Pradesh	946.7 +43.7	108	44.5 +0.2	22.8 +0.1	73 +3	55	3.8 0	3.9
13. Madras State	915.1 -71.7	93	32.9 0	23.8 +0.1	72 -1	60	4.5 +0.7	4.6
14. Mysore	1565.1 +187.4	114	31.0 +0.1	20.5 +0.3	75 +3	54	4.0 +0.2	4.5
15. Kerala	2667.4 -71.5	97	30.6 +0.2	23.8 -0.1	83 +2	75	[illegible].9 -0.1	5.1
Sub-Division (Contd.)								
17. Gujarat Region	915.7 -5.6	99	34.2 +0.3	20.3 -0.1	67 -1	41	2.8 0	2.5
18. Saurashtra and Kutch	602.7 +54.7	110	32.1 -0.1	20.4 -0.5	71 +2	55	2.7 -0.1	2.6
19. Konkan	2570.5 +157.7	107	30.3 -0.1	22.7 -0.1	78 +2	72	3.6 -0.2	3.5
20. Madhya Maharashtra	1124.6 +29.6	103	33.[illegible] +0.7	18.7 -0.2	64 +1	42	3.2 +0.2	3.9
21. Marathwada	877.9 -108.5	86	33.5 +0.5	19.7 +0.2	54 +4	37	3.1 -0.1	3.8
22. Vidarbha	1072.6 -61.0	95	33.7 +0.6	21.1 +0.3	59 -3	41	3.1 -0.2	3.7
23. Coastal Andhra Pradesh	1028.0 +58.8	106	32.9 0	23.6 0	77 +3	44	4.1 0	3.9
24. Telangana	914.5 -42.4	96	33.9 +0.7	21.9 +0.4	70 +2	48	3.6 0	3.8
25. Rayalaseema	812.1 +151.2	123	34.1 -0.2	22.5 0	69 +3	46	3.4 -0.1	4.0
26. Madras State	915.1 -71.7	93	32.9 0	23.8 +0.1	72 -1	60	4.5 +0.7	4.6
27. Coastal Mysore	3177.0 -123.4	96	30.8 +0.1	23.8 -0.1	81 +1	75	4.8 +0.4	4.9
28. Interior Mysore, North	1124.1 +333.9	142	32.3 +0.1	20.7 +0.5	68 +5	47	3.8 +0.7	4.4
29. Interior Mysore, South	1246.0 +196.2	119	30.0 +0.1	19.3 +0.2	[illegible]	51	[illegible]	[illegible]
30. Kerala	2667.4 -71.5	97	30.6 +0.2	[illegible]	[illegible]	75	[illegible]	[illegible]
31. Arabian Sea Islands	1651.8 +125.4	108	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Figures for each division and subdivision indicate departures from normal. * Data of Himachal Pradesh [illegible]

Table II - Summary of observations of Temperature, Rainfall and Weather for the year 1964

Sub Division and Station	Air temperature in °C: Mean Maximum	Departure from normal	Highest during the year	Month	Mean Minimum	Departure from normal	Lowest during the year	Month	Rainfall in millimetres: Total during 0830-1730 hours	Total of the year	Departure from normal	Heaviest in 24 hours	Month	No. of rainy days 2.5 mm. or more: Total in the year	Dep. from normal	Wind speed km. per hour: Mean between 0830-1730 hrs.	Mean 24 hours	Departure from normal	Weather phenomena - No. of days with: Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
BAY ISLANDS																													
Maya Bandar	30.2	-	34.[illegible]	IV	23.8	-	18.9	II	1417.1	2889.[illegible]	-	155.0	VI	140	-	12.7	10.0	-	2	150	0	0	70	0	0	0	0	0	[illegible]
Long Island	30.[illegible]	-	[illegible]	[illegible]	22.2	-	16.[illegible]	II	1528.9	2841.[illegible]	-	117.1	VIII	138	-	7.3	4.9	-	1	158	0	0	32	0	[illegible]	0	0	[illegible]	0
Port Blair	30.7	+1.[illegible]	[illegible]	[illegible]	25.0	-0.2	18.2	XII	1392.3	3315.8	+[illegible]	166.0	VII	142	-8.1	14.8	11.3	-4.0	4	178	0	0	71	26	[illegible]	0	0	31	0
Car Nicobar	30.1	-	31.8	IV	24.2	-	15.3	XI	1060.4	2825.1	-	[illegible]	V	123	-	7.0	5.3	-	1	163	0	0	25	0	0	0	0	0	0
Nancowry	30.8	-	35.[illegible]	IV	24.9	-	[illegible]	X	870.8	2[illegible]	-	[illegible]	IX	135	-	6.3	5.2	-	2	182	0	0	61	0	0	0	0	*	0
Kotagal	[illegible]	-	[illegible]	IV	24.[illegible]	-	22.0	IX	1437.3	3266.1	-	98.[illegible]	XII	164	-	*	*	-	3	197	0	0	34	0	[illegible]	0	0	0	0
ASSAM (including Manipur, Tripura)																													
Panigaon	27.1	-	[illegible]	VII, VIII	18.2	-	8.2	I	1616.1	3059.[illegible]	-	160.4	VII	140	-	7.0	9.2	-	4	171	0	1	37	[illegible]	[illegible]	0	0	0	0
Dibrugarh (Moharbari)	27.8	+0.8	37.4	X	16.6	-1.1	5.5	XII	586.[illegible]	[illegible]	-92.0	83.2	V[illegible]	143	+7.0	5.2	3.5	+0.1	9	183	0	2	110	27	[illegible]	0	0	0	0
Dighoi #																													
North Lakhimpur	27.9	-0.1	36.6	V	17.8	-0.7	5.2	I,XII	5[illegible]	[illegible]	[illegible]	168.0	VI	129	-7.[illegible]	6.3	4.3	-	6	172	0	2	87	[illegible]	0	0	0	0	0
Sibsagar	28.4	+0.9	37.1	V	19.5	+0.7	6.8	I,II	4[illegible]	[illegible]	[illegible]	120.[illegible]	[illegible]	117	-11.3	4.5	3.7	+0.7	4	170	0	0	72	[illegible]	0	0	0	0	0
Golpur	28.2	-	37.0	V	19.1	-	5.6	I	395.7	[illegible]		108.2		127	-	5.2	3.9	-	0	142	0	0	24	1[illegible]	0	0	0	0	0
Majbat	29.0	-	36.2	V	18.5		3.2	XII	355.2	2563.9	-	134.2	VI	92	-	5.7	4.0	-	0	105	0	0	27	2	0	0	0	0	0
Jorhat	2[illegible].9	-	37.0	V, VII	19.1	-	6.2	II	385.7	1990.0	-	80.0	VIII	116	-	@	@	-	0	149	0	0	116	90	0	0	0	0	
Tezpur	29.5	-	37.6	VII	18.3	-	4.3	I	372.7	2127.3	-	102.[illegible]	VI	78	-	#	#	-	0	81	0	0	0	0	0	0	0	0	
Golaghat	28.9	+0.2	36.7	V	2[illegible].0	[illegible].5	7.9	I	329.4	1671.5	-173.0	91.[illegible]	[illegible]XI	102	-3.0	6.2	4.8	+1.4	0	132	0	1	32	0	0	0	0	0	
Rangia	30.0	-	%	-	19.5	-	%	-	569.0	2017.2	-	%	-	%	-	#	#	-	%	%	0	0	0	0	0	0	0	0	
Chaparmukh #																													
Goalpara #																													
Gauhati #																													
Gauhati (Bhorjor)	29.2	+0.1	35.6	V	19.1	+1.0	3.0	I	493.1	1716.1	+52.0	69.6	VI	111	+21.7	7.0	4.4	—	4	145	0	3	124	51	0	0	0	[illegible]	
Dhubri (Gupal)	29.2	-	36.1	IV	18.7	-	2.4	I	891.7	3642.7	-	181.4	VIII	108	-	7.2	5.7	-	4	124	0	3	101	9	0	0	0	[illegible]	
Dhubri	#	-	#	-	20.8	+0.7	7.8	I	734.2	2798.0	+311.1	152.0	VI	100	+4.5	10.1	8.9	+2.[illegible]	1	109	0	0	31	7	0	0	0	[illegible]	0
Lumding	30.5	+1.2	37.4	V	16.9	+0.7	2.1	I	390.2	1211.4	-90.8	55.4	IX	81	-1.1	5.4	3.7	-	0	109	0	0	7	4	0	-	0	0	0
Tura	27.9	-	34.3	III	19.1	-	4.4	I	1523.5	3652.1	-	111.7	VII	125	-	5.0	6.0	-	6	138	0	0	22	3	0	0	0	0	[illegible]
Haflong	25.5	-	32.3	V	17.0	-	6.3	I	1038.0	2741.6	+529.5	144.1	VI	122	+7.0	*	*	-	0	153	0	0	38	0	0	0	0	[illegible]	0
Silchar (Kumbhigram)	#	-	#	-	19.6	-	6.2	I	932.0	3666.8	-	169.4	VI	143	-	6.5	7.1	-	6	171	0	0	100	7	0	0	0	[illegible]	0
Silchar	27.8	-2.3	35.9	VIII	20.4	+0.7	6.2	I	1176.5	3404.8	+110.4	151.2	VI	137	0	2.9	1.7	-0.7	4	174	0	0	102	1	0	0	0	0	0
Imphal	26.5	0	33.7	V	14.0	-0.4	1.8	I	490.1	1337.3	-87.1	45.9	VI	109	+142	7.6	5.1	-0.7	2	155	0	0	70	37	0	3	0	0	0
Kailashahar	30.1	-	35.6	IX	19.5	-	3.7	I	1099.8	2820.8	-	206.6	VIII	116	-	7.4	5.1	-	8	156	0	10	85	30	0	0	0	10	0
Agartala	30.4	-0.1	36.4	III	19.2	-0.7	3.5	I	1157.6	2648.6	+410.5	190.0	VII	107	+7.7	9.7	7.3	+0.3	5	150	0	5	123	18	0	0	0	8	1
SUB HIMALAYAN WEST BENGAL																													
Baghdogra	29.6	-0.1	37.0	V	18.0	-0.3	2.9	I	799.9	3324.0	+192.[illegible]	179.4	IX	109	+3.7	11.4	9.7	+3.9	2	132	0	1	84	5	0	0	0	10	0
Jalpaiguri	28.9	-0.3	37.0	IV	19.3	+0.2	4.0	I	694.2	4138.4	+871.1	216.2	VII	105	-2.9	8.5	6.1	+3.5	0	125	0	0	64	7	0	0	0	0	0
Cooch Behar	29.3	-	36.4	V	18.7	-	3.3	I	885.6	3801.0	+116.1	184.3	VI	110	-1.8	6.9	4.3	-	8	135	0	4	112	33	0	0	0	7	0
Balurghat	31.2	-	41.6	VI	19.7	-	4.1	I	395.1	1534.5	-	92.4	X	85	-	7.3	5.2	-	4	108	0	0	11	1	0	0	1	2	0
Malda	31.2	+0.7	43.4	VI	#	-	#	-	681.5	1323.3	-115.1	76.6	VII	73	+3.8	5.6	4.2	-2.1	5	87	0	0	68	1	0	0	1	0	0
GANGETIC WEST BENGAL																													
Berhampur	32.1	+1.0	44.3	VI	#	-	#	-	769.8	1423.7	+36.7	51.4	IX	81	+4.6	3.8	2.9	-0.8	0	103	0	0	13	41	1	0	0	0	0
Suri	31.9	-	43.9	VI	21.0	-	5.6	XII	-	1088.7	[illegible]	62.8	X	77	-	-	6.5	-	1	102	0	0	14	1	0	0	0	0	0
Asansol	32.9	+0.9	45.4	VI	20.4	0	4.8	I	594.9	1203.5	-226.8	102.9	VII	74	-1.9	#	#	-	7	104	0	0	90	2	0	0	0	7	0
Shanti Niketan	32.1	-	44.1	IV	20.8	-	4.6	I	689.9	1421.1	-	184.2	X	73	-	9.7	8.1	-	8	112	0	0	95	3	0	0	0	3	0

Data not available for complete year; hence no annual means. * Data not available. @ Distant wind equipment.

% Full month data are not available; hence omitted.

Table II - Summary of observations of temperature, Rainfall and Weather for the year 1964

Sub-Division and Station	Air temperature in °C: Mean Maximum	Departure from normal	Highest during the year	Month	Mean Minimum	Departure from normal	Lowest during the year	Month	Rainfall in millimetres: Total during 0830-1730 hours	Total of the year	Departure from normal	Heaviest in 24 hours	Month	No. of rainy days 2.5 mm. or more: Total in the year	Departure from normal	Wind speed km. per hour: Mean between 0830-1730 hrs.	Mean 24 hours	Departure from normal	Weather phenomena - No. of days: Precipitation (0.1 mm. and 0.2 mm.)	Precipitation (0.3 mm. or more)	Fog or mist	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Lightning
GANGETIC WEST BENGAL (Contd.)																													
Krishnanagar	32.5	+1.0	43.3	IV	21.5	+0.8	5.8	XII	595.2	1123.4	-333.5	68.0	VI	74	-4.3	5.8	4.7	0	3	94	0	0	56	0	1	0	0	0	0
Purulia	31.8	-0.2	43.7	IV,VI	20.6	-0.4	7.4	XII	578.9	1110.1	-194.6	98.0	IX	77	+2.0	7.7	5.8	+1.1	0	89	0	0	28	0	0	0	0	0	0
Bankura	33.0	-	44.8	VI	24.5		7.5		[illegible]	1472.3	+62.0	77.4	VIII	78	+4.8	3.2	[illegible]	-	0	95	0	0	2	0	1	0	0	0	0
Burdwan	32.7	+1.0	43.5	IV	[illegible]	-	#	-	704.9	1409.0	-195.2	81.5	VIII	78	+0.8	10.7	7.8	+4.5	1	91	0	0	0	0	0	0	0	0	0
Barrackpore (A)	31.6	-	41.3	IV	21.6	-	7.2	I	682.0	1409.6	-	128.0	VII	74	-	%	%	-	0	102	0	0	95	30	0	0	0	2	0
Calcutta (Dum Dum)	31.7	+0.3	40.4	IV	21.9	+0.4	7.8	I	749.1	1484.1	-39.2	89.5	VII	93	-0.6	10.3	7.7	-0.8	6	112	0	0	95	36	0	0	0	12	0
Calcutta	32.1	+0.7	41.6	IV	22.8	+1.4	9.3	XII	685.2	1588.0	-11.8	87.5	VIII	89	+5.7	10.6	6.8	+1.7	7	122	0	0	88	11	0	0	0	28	0
Midnapore	32.4	+0.3	44.2	IV	22.0	+0.5	8.1	XII	682.3	1101.2	-390.0	62.4	IX	58	-11.7	7.8	6.3	+2.3	0	85	0	0	13	0	0	0	0	0	0
Contai	30.8	+0.1	38.6	V	22.8	+0.2	8.8	XII	460.3	1176.0	-622.1	151.7	VII	67	-16.5	12.2	9.1	-0.4	0	81	0	0	0	11	0	0	0	0	0
Sagar Island	29.4	-0.1	34.7	VII	24.2	+1.2	12.9	I	618.9	1338.8	-408.7	187.8	VII	62	-17.1	21.7	20.8	+6.0	4	92	0	0	30	47	0	0	0	4	0
Gangthok	30.1	-	37.7	V	[illegible]	-	13.2	I	250.0	1006.7	[illegible]	167.0	V	55	+1.1	*	*	-	5	77	0	0	11	0	0	0	0	0	0
ORISSA																													
Baripada	33.4	-	44.8	IV,VI	21.1	-	7.4	XII	772.5	1382.0		[illegible]	VIII	68	-	4.9	3.4	-	3	108	0	2	120	5	0	0	0	1	0
Jhargugda	33.1	+0.2	44.8	VI	20.6	0	6.9	XII	518.7	1430.[illegible]	[illegible]	109.8	VIII	72	-1.9	8.3	7.1	-0.2	2	87	0	0	81	1	2	0	0	0	0
Keonjhargarh	31.[illegible]	-	41.7	IV,VI	#	-	#	-	619.4	1342.1	[illegible]	[illegible]	IX	67	-	6.2	6.1	-	0	88	0	0	4	1	0	0	0	0	0
Balasore	32.0	+0.5	-	-	21.0	-0.5	#	-	966.9	1938.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.8	9.0	+3.7	-	-	0	0	95	6	0	0	0	0	0
Sambalpur	33.6	+1.1	45.2	V,VI	#	-	#	-	533.9	1927.6	+257.[illegible]	308.6	VII	66	-7.9	#	#	-	0	72	0	0	0	0	1	0	0	0	0
Angul	32.[illegible]	+0.6	44.1	V	#	-	#	-	542.5	1156.7	-133.[illegible]	62.4	VIII	70	-2.1	8.[illegible]	7.2	+0.7	0	88	0	0	21	8	0	0	0	2	
Cuttack	33.4	+0.7	43.5	IV	23.0	+0.7	11.7	XII	520.5	1511.1	-12.0	107.0	VII	69	-3.5	7.0	6.0	+2.6	7	31	0	0	49	16	0	0	0	0	
Chandbali	31.9	+0.3	41.5	IV	21.5	-0.6	8.9	XII	762.9	1561.8	-170.6	109.[illegible]	VIII	78	-2.8	12.7	9.9	+0.5	0	91	0	0	7	14	0	0	0	[illegible]	[illegible]
Bolangir	33.7	-	45.6	V	21.9	-	8.5	XII	448.9	1314.2	-	83.8	VII	71	-	6.7	6.8	-	0	93	0	0	34	0	0	0	[illegible]	[illegible]	[illegible]
Phulbani	31.3	-	42.6	V	18.6		4.5	XII	628.2	1358.7	-	155.2	VIII	74	-	4.7	2.5	-	4	98	1	0	27	21	0	0	[illegible]	0	[illegible]
Titlagarh	34.0	-	47.0	V	22.1		7.3	XII	776.0	1757.6	-	144.8	VII	71	-	4.9	4.9	-	1	82	0	0	9	0	1	0	0	0	[illegible]
Bhubaneswar	32.4	0.1	42.7	IV,VI	22.4	0	10.6	XII	654.6	1490.2	-120.2	123.9	VII	74	-2.5	16.9	14.7	-0.2	6	96	0	1	85	17	0	0	0	11	0
Puri	30.2	+0.2	39.2	V	23.7	-0.1	11.8	XII	535.3	1378.4	+13.5	186.2	VII	64	+1.9	20.7	18.5	+3.7	0	76	0	0	11	6	0				
Gopalpur	30.4	+0.2	37.8	IV	22.9	0	11.7	XII	512.2	1223.5	+69.7	87.9	VII	61	+3.7	19.1	15.6	+2.[illegible]	4	79	0	0	62	12	0				
Koraput (A)																													
BIHAR PLATEAU																													
Dumka	[illegible]	+0.7	43.4	VI	20.2	+0.3	5.4	I	476.2	1096.4	-371.7	72.6	IX	73	-2.6	9.6	6.1	+3.0	2	108	0	0	29	2	1	0	[illegible]		
Daltonganj #																11.0	8.6	-0.5	-	-	0	0	70	8	0	0	[illegible]		
Hazaribagh	#	-	#	-	#	-	#	-	#	-	-	-	-		-	4.8	3.1	-	0	86	0	0	23	1	0	0	0		
Dhanbad	31.4	-	44.0	IV,VI	#	-	#	-	684.5	1296.3	-	78.2	VII	75	-	7.2	5.8	-0.8	0	86	0	0	15	0	0	0	0		
Ranchi	30.2	+1.3	41.5	VI	17.0	-1.5	3.8	XII	791.2	1435.7	-40.7	90.5	VII	83	+1.6	13.0	10.0	-	1	93	0	1	66	2	0	0	0		
Ranchi (A)	29.2	-	40.5	VI	18.4	-	6.2	XII	653.5	1270.2	-	85.8	VIII	75	-	7.6	5.5	+0.8	1	99	0	0	38	27	4	0	0	1	
Jamshedpur	33.1	+0.8	44.4	VI	20.8	+0.3	6.8	XII	650.7	1412.2	+33.1	101.7	IX	70	-4.4	8.0	5.7	-	2	100	0	0	92	1	0	0	0	3	0
Jamshedpur P.S.O.	32.6	-	44.4	VI	21.1	-	6.7	XII	690.8	1453.9	-	143.1	VI	69	-	5.0	3.3	+0.3	1	89	0	0	28	0	0	0	0	0	0
Chaibasa	32.7	+0.8	44.3	VI	20.2	0	5.5	XII	595.8	1237.6	-74.1	113.6	VIII	81	-12.9														
BIHAR PLAIN																													
Motihari	#	-	#	-	#	-	#	-	577.6	(d) 1504.7	-	-	-	-	-	4.4	2.6	-2.3	-	-	0	0	15	1	1	0	0	0	0
Forbesganj	30.7	-	40.8	VI	18.9	-	3.2	I	390.7	1656.3		213.0	VI	71	-	9.4	4.3	-	0	91	0	1	69	10	0	0	0	2	0
Darbhanga	31.3	+0.2	42.2	VI	20.0	+0.4	5.4	I,XII	361.7	1005.2	-260.0	78.3	VII	54	-5.4	5.8	5.1	+0.9	0	87	0	0	9	0	0	0	0	0	0
Muzaffarpur	-	-	-	-	-		-	-	-	1081.8	-148.7	161.2	VII	49	-7.2	-	-	-	1	85	0	0	8	0	0	0	0	0	0
Chapra	32.1	-	44.1	VI	20.4	-	4.9	I	417.5	1112.4	+44.4	84.2	VII	49	-5.8	5.[illegible]	4.5	-	1	64	0	0	6	12	8	1	0	0	0
Purnea	30.5	+0.5	42.1	VI	18.6	-0.3	2.3	I	360.2	1431.0	-100.1	158.4	IX	61	-9.8	8.0	5.2	+1.7	1	86	0	0	22	1	2	0	0	0	0
Patna	32.0	+1.1	43.9	VI	20.9	+0.4	5.7	I	409.3	1231.5	+48.5	137.4	VI	58	+5.4	7.1	6.9	[illegible]	1	88	0	0	17	13	3	0	0	0	0
Patna (A)	31.3	-	44.3	VI	19.8	-	3.3	I	462.6	1313.0	-	116.8	I	57	-	#	#	-	4	81	0	0	37	14	1	0	0	1	0
Arrah	-	-	-	-	-	-	-	-	-	278.4	-897.6	43.2	X	25	-27.3	-	-	-	4	54	0	0	0	0	[illegible]	0	0	0	0
Bhagalpur	31.9	+0.2	43.4	VI	[illegible]	[illegible]	6.7	I	377.0	1088.4	-314.5	68.0	IX	50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	0	[illegible]	[illegible]	[illegible]	0	0	0	0

(A) Aerodrome. # Data not available for complete period based on missing returns. [illegible] (1) [illegible] days. (2) [illegible]

(d) Data for [illegible] days. * Data not available. % Station equipped with [illegible]

Table II - Summary of observations of Temperature, Rainfall and Weather for the year 1964

Sub-Division and Station	Air temperature in °C: Mean Maximum	Departure from normal	Highest during the year	Month	Mean Minimum	Departure from normal	Lowest during the year	Month	Rainfall in millimetres: Total during 0830-1730 hours	Total of the year	Departure from normal	Heaviest in 24 hours	Month	No. of rainy days 2.5 mm. or more: Total in the year	Dep. from normal	Wind speed km. per hour: Mean between 0830-1730 hrs.	Mean 24 hours	Departure from normal	Weather observations - No. of days with: Precipitation (0.1 mm and 0.2 mm)	Precipitation (0.3 mm. or more)	Fog or mist	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
BIHAR PLAIN (Contd.)																													
Saharsa	31.3	+0.3	42.8	VI	15.9	0	2.2	XII	383.0	942.9	-136.3	57.0	IX	64	+4.0	9.4	6.4	-0.9	2	87	0	0	73	4	1	0	0	6	0
Purnea	32.2	-	45.6	VI	#	-	#	-	572.0	1453.5	-	125.2	VI	59	-	5.3	4.0	-	0	66	0	0	0	0	0	0	0	0	0
Kishanganj	32.2	-	43.3	VI	#	-	#	-	374.5	1065.2	-24.7	77.2	VII	60	+5.3	7.1	5.0	-	0	67	0	0	23	2	1	0	0	0	0
Gaya	32.2	+0.6	43.2	VI	19.7	0	-	-	473.4	981.9	-203.2	80.4	VII	55	-3.9	10.4	7.8	+0.5	1	75	0	0	76	3	2	0	0	14	0
UTTAR PRADESH (EAST)																													
Kheri	31.9	+0.4	44.4	VI	18.7	-0.2	2.4	I	405.2	1123.9	+7.5	159.3	IX	45	-7.0	5.7	3.7	+0.3	0	58	0	2	40	10	8	25	0	2	0
Bahraich	32.2	+0.9	44.9	VI	19.0	+0.2	2.1	I	399.3	1160.9	+1.9	81.4	IX	53	+5.0	9.3	6.2	+2.5	2	65	0	1	27	3	2	0	0	0	0
Sitapur	32.0	-	44.0	VI	#	-	1.0	I	412.7	2061.9	-	171.0	IX	59	-	6.9	4.9	-	0	71	0	0	0	5	2	0	0	0	0
Hardoi	#	-	44.0	VI	#	-	0.7	I	#	#	-	-	-	#	-	#	#	-	#	-	-	-	-	-	-	-	-	-	
Unnao	32.0	+0.5	45.0	VI	#	-	1.0	I	647.5	1259.9	-62.3	148.2	IX	47	-8.6	6.8	5.5	-0.1	0	59	0	0	7	0	0	0	0	0	0
Lucknow	31.9	-0.2	43.0	V,VI	18.0	-0.9	#	-	#	#	-	#	-	#	-	3.5	2.0	-0.9	#	#	#	-	-	-	-	-	-	-	
Lucknow (Aerodrome)	32.6	+0.7	44.1	V	16.8	-0.9	-1.0	I	344.8	971.3	-45.2	146.8	VIII	43	-4.2	11.7	8.4	-	2	65	0	0	45	10	4	0	0	12	0
Faizabad	32.0	-	43.7	VI	17.8	-	0.8	I	503.9	1270.8	-	90.8	VI	53	-	5.2	3.0	-	0	71	0	0	34	3	3	0	0	0	0
Gorakhpur	32.3	+1.3	44.4	VI	19.0	-0.3	4.3	I	695.7	1420.3	+146.2	138.5	VII	55	-1.9	*	*	-	6	65	0	0	4	[illegible]	[illegible]	0	0	0	0
Kanpur	32.5	+0.8	44.9	V	#	-	2.9	I	337.4	754.2	-158.0	78.0	IX	40	-5.7	14.7	9.9	+1.5	0	50	0	0	12	7	9	0	0	0	0
Kanpur (A)	32.8	-	45.1	V	19.1	-	0.8	I	480.9	915.4	-	101.6	IX	42	-	-	-	-	0	64	0	0	37	[illegible]	2	0	0	10	0
Sultanpur	32.4	-	45.0	VI	18.3	-	2.9	I	561.6	1184.6	-	140.6	IX	44	-	6.0	4.6	-	0	45	0	0	34	1	1	0	0	0	0
Azamgarh	32.4	-	45.4	VI	17.5	-	3.3	I	#	#	-	-	-	#	-	-	-	-	#	#	#	-	-	-	-	-	-	-	-
Fatehpur	32.9	+0.5	45.3	V	18.6	-0.5	1.4	I	325.4	623.4	-261.3	56.3	VII	41	-12.5	8.8	5.2	+0.6	1	54	0	2	17	1	0	0	0	0	0
Ballia	31.6	-	44.0	VI	17.3	-	1.6	I	386.6	1497.6	-	90.8	VIII	60	-	6.5	4.3	-	0	64	0	0	3	5	5	8	0	0	0
Banda	33.5	-	46.1	V	18.8	-	3.3	I	282.5	1000.0	-	141.0	VIII	48	-	3.9	2.3	-	0	58	0	0	1	0	5	0	0	0	0
Allahabad (Bamrauli)	33.1	+0.8	45.5	V	19.3	+0.3	2.7	I	453.9	891.9	-170.2	69.6	VII	52	-1.1	7.0	4.7	-1.0	7	73	0	0	48	4	3	0	0	3	0
Varanasi (Babatpur)	32.5	+0.4	45.0	VI	18.8	+0.9	2.0	I	405.3	862.6	-195.3	66.6	IX	52	+2.7	10.4	7.2	-1.9	0	73	0	0	46	0	3	4	0	0	0
Varanasi	32.5	+0.5	45.3	VI	18.0	-1.3	2.5	I	445.6	975.6	-65.2	101.0	IX	46	-7.0	7.3	5.4	+0.7	0	52	0	1	3	20	0	0	0	0	0
UTTAR PRADESH (WEST)																													
Mukhim*																													
Tehri*																													
Dehradun	28.2	+0.7	40.6	VI	16.7	+1.0	0.2	I	776.7	2390.3	+230.4	194.4	VII	86	+5.0	4.3	3.3	+0.4	4	107	0	0	67	1	0	6	0	0	0
Mussoorie*																													
Roorkee	30.4	+0.3	43.1	VI	15.7	-1.0	-0.2	I	450.3	1368.8	+319.4	109.2	VIII	54	+6.2	7.4	5.2	+1.8	0	72	0	0	34	0	2	11	0	0	0
Najibabad	31.3	-	42.9	V,VI	15.6	-	-2.9	I	507.0	1336.7	-	105.6	VII	55	-	8.9	6.6	-	0	60	0	2	46	1	12	3	0	0	0
Meerut	31.6	+0.6	43.0	V	16.9	-0.7	1.1	III	-	1115.8	+305.4	171.2	VIII	38	-2.1	-	7.9	-	0	43	0	0	10	0	3	0	0	1	1
Bareilly	32.1	+1.2	44.4	VI	18.7	+0.4	2.7	I	388.6	924.7	-158.6	112.2	VII	41	-5.7	10.4	7.4	-4.3	2	58	0	2	28	17	1	0	0	0	0
Aligarh	#	-	43.2	V	18.0	-	1.0	I	427.9	1114.0	+330.3	220.6	IX	28	-10.8	12.3	9.0	+2.5	4	39	0	0	4	0	3	0	0	0	0
Mainpuri	#	-	45.1	V	#	-	#	-	#	#	-	-	-	#	#	#	#	-	#	#	#	-	-	-	-	-	-	-	-
Agra	32.3	+0.3	44.5	V	18.6	+0.2	2.0	I	513.8	1032.3	+353.1	182.1	VII	40	+2.6	5.1	3.7	-1.8	0	43	0	0	0	0	0	0	0	0	0
Agra (A)	32.6	-	45.3	V	17.6	-	-0.7	I	405.7	844.2	-	150.0	VII	37	-	-	-	-	0	50	0	0	42	4	8	0	0	0	0
Etawah	32.3	-	45.4	V	19.5	-	2.4	I	362.6	785.7	-	73.2	VII	41	-	8.6	7.2	-	0	50	0	0	0	1	0	0	0	0	0
Jhansi	32.9	0.0	45.0	V	18.5	-0.8	1.5	XII	474.2	868.9	-67.7	179.2	VII	37	-9.6	4.9	4.8	-0.2	0	43	0	0	0	0	2	0	0	0	0
BIHAR (I) (Jamshedpur-Hill)																													
Ranchi	29.2	-0.6	42.2	VI	13.3	-1.3	-1.8	I	343.7	1133.5	-352.9	[illegible]	VIII	52	-7.1	-	-	-	0	67	0	2	73	1	13	0	0	0	0
Hazaribagh (Rajarappa)	30.3	-0.3	43.2	VI	15.4	-0.4	-1.6	I	281.3	796.3	+147.0	[illegible]	VII	38	+3.5	9.7	7.9	-0.5	0	60	0	0	54	6	11	10	2	5	0
Adampur (A)	30.3	-	43.8	VI	14.3	-	-4.9	I	177.6	1087.7	-	101.3	IX	51	-	-	-	-	0	59	0	0	77	17	11	19	0	0	0
Lohardaga	31.3	+0.3	46.2	VI	14.9	-2.8	-2.2	I	444.0	1083.4	+392.3	143.2	IX	43	+7.3	5.4	4.1	+1.5	2	54	0	1	23	2	10	0	0	0	0
Purnea	30.5	-	44.5	VI	13.9	-	-2.8	I	186.1	678.1	-	190.0	VIII	29	-	4.4	3.2	-	0	36	0	3	4	1	17	0	0	0	0
Rajmahal (A)	30.2	-	43.3	VI	13.1	-	-2.8	I	331.1	1088.3	-	125.3	IX	50	-	-	-	-	2	88	0	2	58	12	15	0	3	0	0
Chandigarh	30.1	-0.2	43.6	V	18.3	+1.3	1.3	I	481.2	1053.6	-13.2	140.7	IX	48	+2.6	-	-	-	1	64	0	0	0	0	1	0	0	0	0
Ambala	31.3	+0.1	44.2	VI	17.2	-0.1	0.8	I	461.3	1311.0	+473.6	116.8	IX	50	+8.0	-	-	-	2	61	0	0	20	0	1	0	0	0	0
Simla (A)	30.3	-	43.2	VI	14.2	-	-1.1	I	346.2	[illegible]	-	197.0	VIII	43	-	-	-	-	2	58	0	2	32	5	17	2	0	0	0

* Meteorological observatory.

Data not available for complete years before or without departure.

Table II - Summary of observations of Temperature, Rainfall and Weather for the year 1964

Sub-Division and Station	Air temperature in °C: Mean Maximum	Departure from normal	Highest during the year	Month	Mean Minimum	Departure from normal	Lowest during the year	Month	Rainfall in millimetres: Total during 0830-1730 hours	Total of the year	Departure from normal	Heaviest in 24 hours	Month	No. of rainy days 2.5 mm. or more: Total in the year	Dep. from normal	Wind speed km per hour: Mean between 0830-1730 hrs.	Mean 24 hours	Departure from normal	Weather phenomena - No. of days with: Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
PUNJAB (I)(Including Delhi)																													
Patiala	30.6	-	44.1	VI	17.4	-	1.1	I	290.8	912.0	+55.6	160.0	IX	36	+1.1	10.0	8.2	-	0	47	0	3	26	10	[illegible]	0	0	0	0
Bhatinda	32.2	-	45.4	VI	16.0	-	-2.0	I	194.2	627.2	-	181.4	VIII	23	-	3.6	3.3	-	1	26	0	0	5	1	0	0	0	0	0
Karnal	#	-	42.8	VI	#	-	0.0	I	346.0	970.7	-	130.0	IX	32	-	-	-	-	1	39	-	-	-	-	-	-	-	-	-
Hissar	32.0	-0.7	44.0	VI	17.1	-0.4	-0.4	I	182.6	498.3	+72.6	120.6	VII	27	+3.3	7.8	6.9	+0.2	0	43	0	1	29	2	11	0	0	0	0
New Delhi	31.0	-0.8	42.8	V	17.8	-0.7	1.0	I	555.7	1230.1	+563.7	142.2	IX	44	+7.9	14.3	10.2	+0.2	3	50	0	1	29	19	16	0	0	17	0
New Delhi (Palam(A))	31.4	-	46.5	V	17.2	-	-0.8	I	389.6	1181.5	-	134.5	VIII	40	-	-	-	-	0	49	0	0	41	6	15	0	0	0	0
HIMACHAL PRADESH																													
Mandi	27.7	+0.2	38.9	V	#	-	#	-	439.5	1454.3	-321.3	116.8	VIII	87	-2.6	2.7	2.1	-0.5	1	108	0	0	31	29	0	0	0	0	0
Bilaspur	28.5	-	41.0	V	11.5	-	0.0	I	344.9	1098.2	-	91.5	IX	62	-	3.1	2.5	-	0	70	0	0	8	12	0	1	2	2	0
JAMMU AND KASHMIR																													
Misgar (R)																													
Gilgit (R)																													
Skardu (R)																													
Dras #																													
Sonamarg $																													
Leh	12.1	-0.8	29.6	VIII	-3.6	-2.3	-27.5	I	39.9	111.6	+28.8	12.7	VII	15	+4.7	-	-	-	3	24	28	0	0	0	0	0	0	0	0
Srinagar	18.2	-1.7	35.4	VII	6.8	+0.2	-12.8	XII	230.6	694.4	+34.1	97.5	XII	49	-8.3	-	-	-	1	85	24	0	26	0	0	0	0	0	0
Srinagar (A)	17.1	-	33.4	VII	6.7	-	-16.6	XII	211.6	683.8	-	97.8	I	45	-	-	-	-	0	65	33	1	55	11	0	0	0	0	0
Gulmarg $																													
Quazigund	17.2	-	32.9	VII	5.6	-	-16.7	XII	537.5	1331.0	-	108.4	I	73	-	4.8	4.3	-	4	96	29	1	61	15	0	0	0	0	0
Banihal	20.3	-	34.6	VII	7.4	-	-13.6	XII	543.7	1376.3	-	55.9	XII	76	-	-	-	-	1	96	21	5	55	3	0	0	0	0	0
Jammu	30.1	+0.7	44.0	VI	17.3	-1.6	2.1	I, XII	367.2	1068.0	-47.9	106.0	VIII	49	-2.8	6.5	6.3	-	0	56	0	0	8	0	3	0	0	0	0
Jammu (A)	29.2	-	44.4	V	17.8	-	1.1	I	429.7	1216.5	-	130.0	IX	52	-	-	-	-	0	60	0	0	68	5	12	0	0	0	0
RAJASTHAN (WEST)																													
Ganganagar	32.2	-0.8	45.5	VII	17.0	-1.3	-1.3	I	209.6	328.9	-9.1	56.7	VIII	18	-5.7	5.7	4.0	-0.9	0	34	0	0	24	12	3	0	0	0	0
Anupgarh	#	-	46.6	VI	-	-	-4.0	I	#	#	-	#	-	#	-	#	#	-	#	#	#	-	-	-	-	-	-	-	-
Mahajan	#	-	#	-	#	-	#	-	#	#	-	#	-	#	-	#	#	-	#	#	#	-	-	-	-	-	-	-	-
Churu	32.6	-	4[illegible].4	V	16.9	-	4.4	I	248.6	686.7	-	99.0	VIII	31	-	11.0	8.0	-	0	41	0	1	37	4	15	0	0	0	0
Bikaner	33.6	-0.1	45.0	V	17.4	-1.1	-4.0	I	100.2	290.7	-0.6	38.2	VIII	23	+4.0	6.9	5.3	-2.3	1	36	0	1	17	0	9	0	0	0	0
Nagaur	32.3	-	43.4	VI	18.2	-	-2.0	I	211.6	634.1	-	120.0	VII	22	-	10.3	8.4	-	0	31	0	0	9	1	18	0	1	0	0
Phalodi	33.5	-	45.0	IV	17.6	-	-1.2	I	167.5	516.9	+281.1	225.0	VII	16	+0.8	15.3	12.6	-	0	17	0	0	8	0	18	0	0	0	0
Jaisalmer	33.8	-	44.6	V	18.4	-	-2.2	I	34.[illegible]	67.1	-	15.2	V	6	-	13.9	11.8	-	1	9	0	0	0	1	0	0	0	0	0
Jodhpur	34.1	+0.9	45.1	V	19.7	+0.5	-0.6	I	165.4	378.6	+17.7	92.9	VIII	20	0.0	-	-	-	3	34	0	0	26	2	11	0	6	5	3
Barmer	34.3	+0.8	45.5	V	20.3	+0.1	2.7	I	162.7	352.6	+52.3	60.6	VIII	20	+3.6	8.0	7.2	-1.9	1	27	0	0	13	0	2	0	0	0	0
Munabao	R	-	-	-	R	-	-	-	#	#	-	-	-	#	-	R	R	-	#	#	#	-	-	-	-	-	-	-	-
RAJASTHAN (EAST)																													
Pilani	#	-	#	-	#	-	#	-	#	#	-	-	-	#	-	#	#	-	#	#	#	-	-	-	-	-	-	-	-
Sikar	31.7	-	42.8	VI	16.3	-	-2.4	XII	431.9	696.5	-	184.4	VIII	22	-	9.3	6.3	-	2	28	0	0	0	0	0	0	0	0	0
Alwar	32.3	-	46.1	VI	19.0	-	2.4	I	399.0	881.1	-	83.8	VIII	45	-	3.4	2.2	-	5	56	0	14	7	0	1	0	0	0	0
Jaipur (Sanganer)	32.1	+0.1	43.8	V	18.2	+0.1	-2.0	I	353.4	674.8	+64.7	125.2	VIII	29	-6.6	*	-	-	2	57	0	0	29	0	7	0	0	0	0
Dholpur	33.1	-	45.0	IV,VI	18.1	-	0.2	I	316.7	677.0	-	118.0	VII	35	-	7.3	4.6	-	1	4[illegible]	0	0	24	0	6	0	0	0	0
Ajmer	32.1	+0.9	42.7	V	18.2	-0.2	-0.6	I	276.8	563.0	+35.4	64.2	VII	32	+2.2	10.2	7.6	+1.6	2	46	0	0	29	0	8	0	0	0	0
Tonk	33.0	-	45.1	V	17.8	-	0.5	I	265.4	595.4	-	91.0	VIII	31	-	8.2	7.2	-	1	48	0	0	22	0	7	0	0	2	0
Bhilwara	32.6	-	44.2	V	18.0	-	1.8	XII	294.8	512.4	-	48.0	VII	31	-	8.6	6.5	-	0	41	0	0	10	1	2	0	0	0	0
Kota (A)	33.3	-	45.4	V	20.1	-	3.8	XII	257.7	629.2	-	64.0	VIII	35	-	12.2	10.0	-	4	36	0	1	45	0	8	0	0	0	0
Kringpura (Jammi Dam)	33.5	-	43.8	V	19.6	-	0.0	I	345.8	721.1	-	137.0	VII	23	-	4.9	4.0	-	2	33	0	0	2	0	0	0	0	0	0
Chambal (Rawar Bhatta Dam)	33.3	-	43.9	IV	19.0	-	3.1	XII	363.2	836.8	-	103.5	IX	35	-	10.0	6.2	-	1	47	0	1	27	0	4	0	0	0	0
Udaipur	31.7	+1.2	42.5	V	17.1	-1.0	1.5	XII	259.7	627.8	+3.1	57.6	VII	32	-1.6	3.9	2.7	-	8	41	0	1	32	0	0	0	0	0	0
Jhalawar	33.5	+1.2	44.3	V	#	-	#	-	289.1	621.9	-308.9	78.3	VIII	27	-13.3	8.4	6.4	+1.2	1	34	0	0	0	0	0	0	0	0	0

R = Returns not received. # Data not available for complete year hence no annual values. * Data not available.

A = Approximate.
$ Sample in nature.

Table II - Summary of observations of Temperature, Rainfall and Weather for the year 1986.

Sub-Division and Station	Air temperature in °C: Mean Maximum	Departure from normal	Highest during the year	Month	Mean Minimum	Departure from normal	Lowest during the year	Month	Rainfall in millimetres: Total during (0830-1730 hours)	Total of the year	Departure from normal	Heaviest in 24 hours	Month	No. of rainy days 2.5 mm. or more: Total in the year	Dep. from normal	Wind speed km. per hour: Mean hourly (0830-1730 hrs.)	Mean 24 hours	Departure from normal	Weather observations - No. of days with: Precipitation (0.1 and 2.5 mm.)	Precipitation (2.5 mm. or more)	Fog or mist	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Sleet	Snow or hail
MADHYA PRADESH (WEST)																													
Gwalior	32.5	-0.2	45.3	V	18.1	-0.9	-0.5	I	390.0	955.0	+130.6	107.5	VIII	37	-8.2	10.5	6.3	-	4	50	0	0	60	0	0	0	1	0	0
Shivpur	33.1	+0.2	45.0	V	18.0	-0.5	0.8	I	360.7	716.5	-230.3	100.0	VII	34	-11.5	10.0	7.4	+0.9	6	48	0	1	27	0	1	0	0	0	0
Guna	31.7	-	46.0	VI	15.2	-	-2.5	I	356.4	854.6	-	66.0	VII	40	-	8.0	6.2	-	1	49	0	0	2	1	0	0	0	0	0
Rajgarh	32.9	+0.9	44.9	V	17.4	-1.1	8.8	XII	334.5	1047.0	-22.7	257.2	IX	47	-2.1	6.4	3.8	+0.6	0	62	0	0	34	1	1	0	0	0	0
Sagar	32.8	+1.2	44.6	V	16.8	-0.4	-1.1	XII	343.6	675.1	-378.7	81.4	VIII	55	+2.1	12.4	8.6	-	2	63	0	1	49	0	0	0	0	1	0
Damoh	31.9	+0.4	42.8	V	18.7	+0.6	4.1	XII	192.6	527.9	-296.9	63.2	VIII	28	-8.1	11.5	9.7	+0.2	1	43	0	0	28	0	1	0	0	0	0
Rajgarh	33.3	-	44.6	IV,V	17.9	-	1.4	XII	328.5	710.9	-	111.2	VII	30	-	11.7	8.3	-	1	34	0	0	0	0	0	0	0	0	0
Ratlam	32.4	+0.5	43.5	V	18.3	-0.8	3.9	XII	365.0	1060.2	-150.3	129.0	VIII	56	-2.4	#	#	-	3	75	0	1	30	0	0	0	0	0	0
Bhopal (Raisen)	32.0	+0.7	44.0	IV	18.1	-0.2	3.9	XII	231.3	776.3	-225.8	72.4	VI	47	-0.1	11.5	9.4	+0.6	2	66	0	0	20	0	0	0	0	0	0
Ujjain	32.3	-	42.6	V	17.3	-	2.6	II	656.2	1198.5	-130.3	192.2	VII	56	-2.9	14.5	11.8	+1.8	6	50	0	0	45	0	1	0	0	13	1
Narsinghpur	33.1	-	44.5	V	17.4	-	1.0	XII	195.2	636.0	-	63.4	VI	43	-	14.0	10.6	-	0	57	0	0	13	49	1	0	0	0	0
Hoshangabad	33.2	+1.1	45.3	V	19.8	0	6.2	XII	398.4	967.0	-	82.0	VII	50	-	6.8	4.2	-	0	58	0	0	2	1	1	0	0	0	0
Indore	31.8	+0.3	43.1	IV	17.6	+0.3	2.4	XII	583.5	1298.6	+27.1	98.6	VIII	56	-0.6	8.1	6.0	+2.0	0	72	0	0	45	0	1	0	0	0	0
Rajpur (Jhabua)	32.7	-	43.2	V	18.4	-	3.2	I	452.8	1083.9	+202.0	124.6	VI	49	+2.3	16.4	14.1	-	5	70	0	0	31	0	1	0	0	7	0
Chhindwara	31.6	+1.0	42.6	V	18.1	0	4.4	XII	448.9	1104.9	+19.5	88.1	VIII	53	-9.8	9.2	6.0	-0.1	0	62	0	0	17	0	1	0	0	0	0
Seoni	32.0	+1.2	43.4	IV	19.0	+0.9	5.8	XII	717.6	1245.1	-118.0	115.8	VII	60	-10.4	9.9	6.5	+1.5	5	76	0	0	40	0	1	0	0	0	0
Betul	31.3	+0.7	42.8	V	17.4	-0.5	4.1	I	303.1	909.2	-229.5	123.8	VII	49	-13.0	7.9	4.9	-1.0	2	82	0	0	47	0	0	0	0	0	0
Khandwa	34.3	+0.8	45.2	IV	19.3	-0.1	5.4	XII	245.2	769.4	-11.1	81.6	IX	50	+7.9	12.7	8.8	+1.0	0	65	0	0	10	0	0	0	0	0	0
MADHYA PRADESH (EAST)																													
Satna	32.6	+1.3	45.1	VI	18.8	0	2.4	I	802.0	1150.7	-2.3	102.1	VIII	48	-8.2	7.2	5.1	-0.2	1	60	0	0	48	0	0	0	0	0	0
Rewa #																													
Sidhi	32.9	-	44.9	V	18.3	-	1.4	I,XII	508.6	1060.8	-	57.0	VI	69	-	7.6	4.5	-	0	80	0	0	0	0	1	0	0	0	0
Umaria	32.2	+1.2	45.2	VI	17.9	+0.1	2.1	XII	451.2	1253.9	-122.3	132.3	IX	59	-9.1	7.3	4.5	-0.2	0	70	0	0	4	1	1	0	2	0	0
Jabalpur	32.8	+1.5	44.5	V	18.6	+1.0	2.8	XII	457.4	1011.5	-450.1	88.3	IX	54	-10.9	8.1	5.5	+1.9	6	6	0	0	42	3	0	0	0	0	0
Amarkantak	30.5	+0.3	41.8	VI	17.7	+0.3	3.2	XII	856.6	1652.1	+247.3	109.6	VIII	67	-5.6	9.9	6.8	-0.9	2	94	0	0	27	3	1	0	0	0	0
Jashpurnagar #																													
Bandra	30.2	+1.1	42.5	V	19.0	+0.9	5.2	XII	889.7	1731.3	+357.8	129.3	VI	71	-6.3	9.5	7.0	-	5	100	0	1	94	2	0	0	0	7	0
Mandla	32.1	+0.4	43.7	V	17.2	+0.1	2.2	XII	612.0	1448.2	+11.2	116.2	VII	64	-8.7	6.9	3.8	+0.6	0	84	0	0	47	3	0	0	0	0	0
Champa	33.3	+0.3	45.4	V	20.4	-1.0	7.5	XII	584.6	1547.8	+92.5	115.0	VIII	68	-3.3	7.9	6.5	0	1	87	0	0	47	0	2	0	0	0	0
Raigarh	33.8	+0.3	45.6	V	21.3	-0.2	7.4	XII	660.3	1832.1	+205.1	147.6	VI	64	-8.5	6.2	4.8	-0.4	0	86	0	0	14	0	1	0	0	0	0
Raipur	32.9	+0.5	45.2	V	21.5	+0.8	8.7	XII	714.3	1674.9	+343.0	132.9	VII	67	+2.7	9.6	7.8	-0.3	7	93	0	0	59	1	1	0	0	0	0
Kanker	32.2	+0.7	43.5	V	21.1	+1.7	8.0	XII	606.5	1333.1	-143.6	129.0	VIII	63	-8.9	8.7	6.5	+1.0	1	72	0	0	29	0	0	0	0	0	0
Jagdalpur	31.5	+0.5	42.6	V	19.8	+1.0	7.7	XII	634.7	1439.5	-167.3	123.5	VIII	91	+8.0	7.1	4.9	-	9	118	0	4	86	24	0	0	0	13	0
GUJARAT																													
Deesa	34.5	-	44.4	IV	#	-	#	-	189.5	455.8	-	79.2	VII	25	-	10.7	8.7	-	1	31	0	0	0	0	0	0	0	0	0
Radhanpur	35.1	-	44.2	IV	#	-	#	-	#	#	-	-	-	#	-	9.4	7.5	-	#	#	0	0	0	0	0	0	0	0	0
Idar	33.6	-	44.3	V	20.4	-	6.4	I	206.4	637.5	-	96.8	VIII	38	-	8.8	7.0	-	0	43	0	0	4	0	0	0	0	0	0
Ahmedabad	34.5	-0.1	44.5	V	20.0	-0.2	4.7	I	387.0	698.0	-44.1	107.2	IX	37	+1.0	8.0	5.7	-1.2	8	50	0	0	20	0	1	0	0	0	0
Bohad	32.8	+0.2	44.0	V	19.1	-0.7	3.1	I	116.9	505.8	-307.6	45.6	VII	35	-5.3	14.4	14.0	-2.2	1	57	0	0	27	0	3	0	0	0	0
Vallabh Vidyanagar	34.3	-	44.5	V	19.3	-	2.0	I	281.4	638.8	-	74.7	VII	32	-	9.8	7.5	-	2	50	0	0	6	5	0	0	0	0	0
Baroda (A)	34.3	-	43.7	V	19.7	-	3.3	I	502.2	842.1	-	81.2	VII	44	-	9.2	8.1	-	2	58	0	0	15	1	1	0	1	0	0
Baroda	35.1	+0.7	45.0	V	20.4	+0.9	4.2	I	431.2	804.7	-150.5	104.6	VII	45	+3.3	3.1	1.8	-3.5	0	62	0	0	13	1	0	0	0	0	0
Broach	34.7	-0.2	44.4	IV	20.4	-0.7	4.7	I	569.6	1134.5	+132.6	219.2	VII	48	+2.7	6.8	5.3	-2.5	3	61	0	0	1	3	0	0	0	0	0
Surat	33.8	+0.7	43.0	III	21.8	+0.5	7.4	I	998.8	2083.6	+1025.3	324.6	VIII	59	+11.4	9.5	9.0	+2.0	1	73	0	0	9	1	0	0	0	0	0
SAURASHTRA AND KUTCH																													
Naliya	31.7	-	41.2	IV	18.1	-	6.6	XII	200.7	425.8	-	85.2	VIII	17	-	17.1	12.3	-	0	19	0	0	10	11	1	0	2	0	0
Bhuj (Rudramata)	33.2	+0.2	42.8	V	19.3	-0.6	3.2	I	177.9	348.2	+2.2	61.4	VII	18	+2.2	15.7	12.8	-0.6	0	32	0	0	14	0	0	0	0	0	0

Data not available for complete year, hence no annual means. (A) Aerodrome # Observatory started with effect from 30.12.1986.

Table II - Summary of observations of Temperature, Rainfall and Weather for the year 1964

Sub-Division and Station	Air temperature in °C: Mean Maximum	Departure from normal	Highest during the year	Month	Mean Minimum	Departure from normal	Lowest during the year	Month	Rainfall in millimetres: Total during 0830-1730 hours	Total of the year *	Departure from normal	Heaviest in 24 hours	Month	No. of rainy days 2.5 mm. or more: Total in the year	Dep. from normal	Wind speed km. per hour: Mean between 0830-1730 hrs.	Mean 24 hours	Departure from normal	Weather phenomena - No. of days with: Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
SAURASHTRA AND KUTCH (Contd.)																													
Kandla (A)	31.8	-	44.0	IV	#	-	#	-	154.6	370.4	-	76.0	VIII	27	-	22.0	21.0	-	0	39	0	0	9	0	0	0	1	0	0
New Kandla	31.5	-	40.7	X	21.5	-	8.5	I	133.3	380.1	-	83.8	VIII	27	-	19.7	18.7	-	4	39	0	0	12	0	0	0	0	0	0
Mandvi	29.9	-0.2	37.7	III	21.2	-0.5	7.5	XII	107.1	263.7	-174.5	52.0	VIII	18	-6.3	24.7	23.1	-0.2	1	23	0	0	0	7	0	0	2	1	0
Surendranagar	34.5	0.0	44.1	IV	21.1	-0.1	5.7	I	179.0	413.9a	-	50.2	VIII	26	-	12.3	11.6	-1.6	0	32	0	0	11	0	1	0	0	0	0
Okha	28.4	-	33.3	V	23.1	-	14.4	I	143.6	310.9	-	71.1	VIII	19	-	20.2	20.0	-	4	48	0	0	5	0	0	0	3	0	0
Jamnagar (A)	31.1	-1.2	40.4	IV	19.3	-0.2	3.3	I	378.1	566.9	+95.6	97.8	VIII	29	+8.7	X	-	-	1	39	0	0	8	6	0	0	0	0	0
Dwarka	29.3	+0.2	37.7	III	22.4	-0.4	11.0	XII	206.6	374.1	+20.4	71.2	VII	23	+7.4	18.2	16.6	+0.8	0	32	0	0	0	0	0	0	1	0	0
Rajkot	33.7	-0.1	43.7	IV	19.0	-0.4	3.5	I	406.1	764.8	-144.0	107.2	IX	30	-6.9	20.4	17.2	-1.1	5	52	0	0	20	6	1	0	2	0	0
Bhavnagar (A)	33.6	+0.2	44.3	V	20.8	-0.3	6.4	I	282.1	499.5	-61.6	58.0	VII	37	+7.2	20.1	17.3	+2.4	2	50	0	0	21	0	3	0	4	4	0
Porbander (A)	31.4	+0.4	41.5	IV	20.7	-1.6	6.2	I	423.7	798.4	+30.2	148.2	VI	33	+ 1.4	19.0	14.5	-	1	54	0	0	10	13	0	0	0	0	0
Keshod	33.0	-	43.2	IV	19.2	-	3.7	I	632.3	1339.7	-	186.0	VIII	45	-	20.5	16.7	-	3	65	0	0	5	19	1	0	1	0	0
Mahuva	33.0	-	41.5	IV	#	-	#	-	408.3	682.4	-	66.2	VIII	38	-	#	#	-	0	46	0	0	0	0	0	0	0	0	0
Veraval	30.6	-	40.6	IV	20.7	-	6.4	I	706.7	1394.2	+890.2	111.4	VIII	39	+ 14.2	22.1	19.7	-	6	62	0	0	10	12	0	0	7	4	0
KONKAN																													
Dahanu	30.2	-0.2	37.3	IV	#	-	#	-	905.5	2256.2	-64.3	189.6	VIII	75	+4.1	19.1	14.9	-0.6	0	87	0	0	2	0	0	0	0	0	0
Bombay (Santacruz)	31.5	+0.8	36.8	III	21.3	+0.3	10.6	I	770.4	2121.7	-8.1	137.8	VIII	84	+2.8	14.4	11.0	-	4	101	0	0	20	3	0	0	2	21	0
Bombay	30.7	+0.2	35.4	IV,XI	23.5	+0.3	14.5	I	702.4	1964.3	+155.5	112.1	X	73	-0.7	9.5	8.4	-3.9	7	97	0	0	11	0	0	0	0	16	0
Alibag	29.9	0.0	35.3	III	22.3	-0.2	12.6	I,II	-	2369.5	+291.1	309.8	X	78	-5.8	-	14.1	+0.8	1	97	0	0	12	0	0	0	1	0	0
Bhira	34.4	-	45.3	IV	20.2	-	9.3	II	2323.7	5240.1	-	315.2	VII	107	-	4.5	3.0	-	0	118	0	0	10	9	1	0	0	0	0
Harnai	29.1	-0.1	34.0	III,XI	24.1	0.0	17.7	II	873.0	2779.2	+120.3	182.2	X	94	+1.4	17.3	15.3	+0.4	1	104	0	0	26	0	0	0	0	0	0
Ratnagiri	30.5	-	36.1	II	22.0	-	15.0	II	1117.6	3151.4	+558.6	199.2	X	95	+1.2	14.3	11.0	-	1	108	0	0	12	0	0	0	0	0	0
Devgarh	29.6	-0.9	34.6	V	23.4	-0.5	18.0	XI	1109.9	2613.5	+168.5	136.2	VIII	103	+5.3	19.6	16.8	+0.3	0	109	0	0	10	0	0	0	2	0	0
Vengurla	30.9	-0.3	35.8	II	22.0	-0.4	14.1	XI	1137.7	3082.1	-149.3	128.0	VII	103	-2.8	#	-	-	3	120	0	0	43	7	0	0	0	0	0
Panjim	30.9	-	35.6	II	22.3	-	15.3	XI	884.6	2883.2	-	158.3	VII	103	-	13.9	11.1	-	5	117	0	0	27	14	0	0	0	0	0
Marmugao	29.7	-	34.5	II	23.2	-	17.0	VI	846.9	2739.3	-	232.7	VII	103	-	16.7	15.1	-	6	117	0	0	20	7	0	0	2	0	0
N.A.S. Dabolim #																													
MADHYA MAHARASHTRA																													
Nandurbar	34.4	-	44.4	IV	21.0	-	8.1	I	243.4	525.0	-	42.0	VII	36	-	9.6	7.4	-	4	46	0	0	1	0	0	0	0	0	0
Jalgaon	35.1	+0.5	47.2	V	19.5	-0.5	5.4	I	369.6	847.1	+62.8	78.0	VII	51	+4.5	15.3	13.0	+1.3	0	67	0	1	48	0	0	0	0	0	0
Malegaon	34.2	+0.7	43.9	V	18.0	-0.4	4.2	II	195.8	517.4	-30.7	72.2	IX	33	-0.7	11.0	8.8	-0.8	0	47	0	0	3	0	1	0	0	0	0
Deviali (A)	32.2	-	42.3	IV	17.3	-	5.4	XI	285.8	648.5	-	67.5	VI	57	-	13.6	10.3	-	0	74	0	0	31	4	1	0	0	0	0
Ahmednagar	33.5	+1.4	43.0	IV	#	-	#	-	194.3	528.7	-72.4	49.7	IX	36	+1.5	11.2	8.1	-1.7	0	56	0	0	1	0	0	0	0	0	0
Khandala	-		-	-	-	-	-	-	-	4617.0	-155.6	325.0	VII	98	-13.7	-	-	-	0	115	-	-	-	-	-	-	-	-	-
Poona (A)	32.1	-	42.5	IV	18.5	-	8.7	II	224.8	578.6	-	54.4	X	43	-	X	-	-	0	71	0	0	30	2	0	0	0	4	0
Poona	31.9	+0.5	42.4	IV	16.9	-0.5	4.6	XI	306.3	703.5	+30.7	62.3	VII	47	+0.3	9.7	6.9	-	3	82	0	1	23	5	0	0	0	5	0
Jeur	34.0	+0.6	43.5	IV,V	18.7	-0.3	5.9	XII	198.1	632.9	+32.6	98.8	IX	38	-0.6	12.5	9.7	-0.6	0	62	0	0	41	0	0	0	0	0	0
Baramati	33.4	+0.7	42.5	IV	18.9	-0.2	8.5	XII	191.4	512.0	-39.0	68.4	IX	32	-3.8	12.4	10.6	-0.5	1	44	0	0	20	0	0	0	0	0	0
Sholapur	33.7	0.0	44.6	V	20.7	+0.4	10.1	XI	165.7	948.9	+258.0	116.6	IX	53	+11.8	11.4	9.0	-2.3	0	66	0	0	6	0	0	0	0	0	0
Miraj	32.5	+1.1	41.0	IV,V	18.9	0.0	7.9	XI	275.3	824.1	+171.7	48.2	XI	65	+18.8	@	-	-	2	99	0	0	46	12	0	0	0	0	0
Kolhapur	31.8	+0.7	41.0	IV	19.0	-0.1	9.7	XI	344.4	1112.2	+36.2	85.5	VIII	70	-1.5	#	-	-	0	102	0	0	20	2	0	0	0	0	0
MARATHWADA																													
Aurangabad	33.2	+0.8	43.4	V	19.6	+0.4	9.3	XI,XII	198.4	520.0	-198.7	37.2	VI	47	+2.2	12.1	10.5	-1.1	6	84	0	0	26	0	0	0	0	0	0
Aurangabad (Chikalthana)	33.0	-	43.3	V	17.5	-	3.9	XII	203.0	495.5	-	45.6	IX	47	-	13.3	10.1	-	3	75	0	0	34	0	0	0	0	0	0
Parbhani	33.9	+0.2	45.9	V	19.8	-0.1	8.5	XII	262.2	835.8	-18.0	63.6	VIII	46	-3.6	11.2	8.3	-0.9	0	56	0	0	26	0	0	0	0	0	0
Nanded	34.6	-	46.6	V	19.6	-	7.1	XII	180.0	790.6	-	54.5	VI	47	-	7.2	5.6	-	0	63	0	0	1	0	0	0	0	0	0
Bir	#	-	-	-	18.8	-	6.0	XII	184.2	801.4	-	63.2	IX	42	-	9.4	6.4	-	0	56	0	0	0	0	0	0	0	0	0
VIDARBHA																													
Gondia	33.3	+0.7	45.0	V	21.1	+0.2	7.7	XII	443.2	1193.6	-204.7	103.5	VI	62	-4.6	5.0	3.3	-1.1	1	79	0	0	31	0	0	0	0	0	0

(A) Aerodrome. # Data not available for complete year; hence no annual values. @ No wind instruments. X Electrical instruments.

a - Data for 365 days.

Table II - Summary of observations of Temperature, Rainfall and Weather for the year 1964

Sub-division and Station	Air temperature in °C: Mean Maximum	Departure from normal	Highest during the year	Month	Mean Minimum	Departure from normal	Lowest during the year	Month	Rainfall in millimetres: Total during 0830-1730 hours	Total of the year	Departure from normal	Heaviest in 24 hours	Month	No. of rainy days 2.5 mm. or more: Total in the year	Dep. from normal	Wind speed km. per hour: Mean between 0830-1730 hrs.	Mean 24 hours	Departure from normal	Weather phenomena - No. of days with: Precipitation (0.1 mm) 0.2 mm.	Precipitation (0.3 mm. or more)	Mist or mist	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Sun A	Lightning
VIDARBHA (Contd.)																													
Nagpur (Sonegaon)	33.9	+0.4	45.5	IV	20.2	-0.1	7.1	XII	423.6	1051.3	-199.3	73.9	IX	54	-8.6	12.8	10.0	-	1	84	0	0	62	0	0	0	0	18	0
Amraoti	34.3	+1.0	46.0	V	21.5	+0.6	10.6	I	343.4	908.2	+56.7	128.0	VII	45	-3.5	13.7	10.9	+3.2	1	63	0	0	24	0	0	0	0	0	0
Akola (A)	34.4	-	47.0	V	19.9	-	7.6	XII	271.4	1009.0	-	96.7	IX	50	-	11.7	9.6	-	1	73	0	0	31	0	0	0	0	0	0
Akola	34.5	+0.	45.8	V	-	-	8.3	II	217.1	940.1	+123.6	105.4	VI	47	+1.9	9.7	7.4	+0.1	0	62	0	0	3	0	0	0	0	0	0
Bramhapuri	33.8	-	45.8	V	21.5	-	8.4	XII	510.2	1482.7	-	156.2	IX	62	-	8.[illegible]	5.8	-	0	72	0	0	17	0	0	0	0	0	0
Buldana	31.6	+0.7	42.5	V	20.0	-0.5	10.0	II	188.7	705.9	-186.7	66.5	VI	38	-13.3	10.6	9.0	-1.2	0	62	0	1	2	0	0	0	0	0	0
Yeotmal	33.5	+0.7	46.0	V	21.4	+0.7	10.9	XI	407.2	1068.5	-27.6	58.8	VII	55	-2.8	1[illegible].2	12.0	+0.2	0	73	0	0	7	0	0	0	1	1	0
Chanda	34.1	+0.4	46.[illegible]	V	23.6	+1.2	7.4	XII	505.8	1346.6	+22.6	150.0	IX	54	+0.7	9.9	6.8	+2.0	4	91	0	0	62	0	1	0	0	0	0
Wusad	34.6	-	46.0	V	20.5	-	6.2	XII	227.1	736.1	-	75.8	IX	49	-	10.7	7.6	-	0	64	0	0	17	0	1	0	0	0	0
Sironcha	34.4	+0.5	46.0	V	22.7	+0.4	9.2	XII	235.9	1365.9	-72.7	127.2	VIII	66	-1.6	7.7	5.4	+0.4	1	76	0	0	-	-	0	0	0	0	0
COASTAL ANDHRA PRADESH																													
Kalingapatam	32.1	-0.2	38.6	VI	23.1	-0.2	12.7	XII	379.4	1171.4	+146.6	150.2	VIII	61	+9.9	#	#	-	3	73	0	0	9	[illegible]	[illegible]	0	0	0	0
Vishakhapatnam	32.1	-0.7	40.3	VI	23.8	+0.2	14.9	XII	454.8	999.0	+36.5	70.3	IX	66	+14.2	16.1	10.8	+1.5	7	92	0	0	[illegible]	-	[illegible]	0	0	10	0
Kakinada	32.6	+0.5	42.4	V	23.6	-0.3	15.7	XII	494.1	1105.4	+63.4	103.8	IX	64	+8.2	13.3	10.2	+1.4	2	83	0	0	16	[illegible]	[illegible]	0	0	0	0
Bhidadavole	32.7	-	43.2	V	23.1	-	15.0	XII	237.6	958.2	-	77.4	VII	69	-	7.7	6.8	-	0	85	0	0	31	0	0	0	0	0	0
Rentachintala	35.4	+0.6	46.1	V	23.6	+0.2	13.7	XII	109.0	787.8	+74.5	227.0	IX	40	-9.9	8.7	7.3	-2.6	0	40	0	0	6	0	0	0	0	0	0
Gannavaram	33.3	-0.5	45.7	V	23.5	0	16.2	II	196.8	1223.1	+223.6	123.5	IX	58	-1.9	15.5	11.3	-1.0	3	84	0	0	53	-	0	0	0	0	0
Masulipatam	31.9	-0.4	43.7	V	23.3	-0.3	16.4	I	252.8	1040.2	-12.1	124.6	VII	59	+3.6	5.3	3.7	-4.5	0	69	0	0	60	0	0	0	0	0	0
Ongole	35.8	-	46.6	V	24.1	-	16.8	XI	209.6	738.8	-	62.4	IX	50	-	11.0	7.7	-	0	61	0	0	1	0	0	0	0	0	0
Nellore	[illegible]	+0.3	45.1	V	24.4	+0.3	17.1	I	211.3	867.3	[illegible]	78.2	XI	49	+4.3	#	#	-	0	69	0	0	29	0	0	0	0	0	0
TELANGANA																													
Karimnagar	34.9	+1.1	46.4	V	23.2	+0.6	10.3	XII	256.3	1125.9	+105.0	84.2	VIII	69	+10.9	8.5	6.0	-0.1	0	72	0	0	19	0	1	0	0	0	0
Nizamabad	34.3	+1.0	45.5	V	21.5	+1.0	8.5	XII	140.3	864.1	-159.6	118.6	IX	48	-9.8	#	#	-	0	55	0	0	20	0	0	0	0	0	0
Hanamkonda	34.1	+1.2	44.9	V	22.2	+0.2	11.3	XII	317.4	882.6	-56.7	110.0	IX	49	-[illegible].8	11.3	9.0	+1.1	0	72	0	0	22	0	1	0	0	0	0
Hakimpet (A)	31.7	-	42.4	V	20.7	-	12.2	XI	239.[illegible]	767.3	-	44.2	VI	57	-	@	-	-	0	93	0	0	67	1	1	0	0	8	0
Bhadrachalam	34.2	+0.4	46.0	V	23.0	+0.5	11.8	XII	324.7	999.4	-53.7	87.0	VIII	64	+0.3	6.6	5.8	-1.2	0	76	0	0	30	0	4	0	0	0	0
Hyderabad (Begumpet)	32.1	+0.4	42.6	V	19.7	-0.2	7.4	XI	214.0	700.8	-46.4	50.2	IX	61	+10.7	15.9	12.2	+0.9	4	84	0	0	57	0	0	0	0	38	0
Khammam	34.2	-	45.6	V	23.3	-	13.7	XII	290.1	986.7	-	78.0	VIII	55	-	7.6	5.7	-	0	69	0	0	13	0	11	0	0	0	0
Mahbubnagar	32.7	-	43.8	V	21.2	-	11.3	XI	343.4	1265.1	-	103.0	IX	68	-	10.8	8.6	-	2	97	0	0	14	0	3	0	0	0	0
RAYALASEEMA																													
Kurnool	34.1	-0.2	42.7	IV	22.0	0	9.9	XI	187.9	932.8	+303.2	62.4	VII	48	+2.9	12.4	10.4	+1.6	2	68	0	0	0	0	0	0	1	0	0
Nandyal#																													
Anantapur	33.6	+0.2	41.9	V	21.9	-0.1	11.8	XI	199.8	667.1	+82.9	78.5	IX	39	+5.1	13.4	11.9	-0.3	2	66	0	0	25	0	1	0	0	0	0
Cuddapah	34.5	-0.6	44.2	V	23.7	0	13.3	II	160.0	836.4	+67.7	72.2	VII	46	+0.2	3.1	2.1	-7.6	0	60	0	0	0	0	0	0	0	0	0
Arogyavaram	30.5	-	38.4	IV,V	19.0	-	10.5	XI	82.2	871.2	-	29.6	VII	45	-	11.6	8.7	-	0	61	0	0	0	0	0	0	0	0	0
MADRAS STATE																													
Madras	32.6	-	43.1	V	24.2	-	16.0	I	-	1361.4	-	142.8	XI	52	-	-	8.2	-	4	68	0	0	35	0	0	0	0	0	0
Madras (Minambakkam)	33.1	-0.2	43.3	V	24.3	+0.4	17.1	I	231.7	1204.6	-63.3	137.2	XI	50	-7.4	14.3	10.7	-2.4	3	69	0	0	41	2	0	0	0	15	0
Vellore	33.3	+0.2	43.6	V	22.2	-0.3	13.1	I	270.4	1332.7	+258.[illegible]	139.6	X	62	+5.2	8.9	7.9	+2.6	3	78	0	0	39	2	0	0	0	0	0
Tambaram (A)	34.1	-	44.8	V	23.9	-	16.7	I	266.3	1324.7	-	147.8	XI	50	-	@	-	-	0	70	0	0	66	3	0	0	0	0	0
Tirupattur	32.9	-	42.3	V	20.1	-	10.5	I	224.4	1149.3	-	97.0	XI	46	-	7.0	5.2	-	0	46	0	0	9	0	0	0	0	0	0
Hattur Dam	34.2	-	42.0	VI	23.3	-	15.6	XII	128.1	87[illegible].8	-	73.1	X	50	-	6.3	6.9	-	0	58	0	0	2	0	1	0	0	0	0
Cuddalore	32.4	0	42.9	V	23.9	0	16.4	I	187.0	107[illegible].2	-311.1	124.6	XI	49	-6.5	13.1	10.3	+3.3	0	60	0	0	19	0	0	0	0	0	0
Kallakkurichchi	32.9	-	41.8	V	23.3	-	15.3	I	254.6	1042.4	+26.7	87.6	XII	44	-11.5	8.9	7.3	-	1	72	0	0	41	0	0	0	0	0	0
Salem	33.4	+0.4	40.4	V	22.7	+0.7	14.3	I	275.9	1546.1	+568.5	99.3	IX	66	+4.1	8.4	8.1	+2.2	7	90	0	0	77	0	0	0	0	0	0
Coimbatore (Peelamedu)	31.7	-	38.2	IV	20.8	-	12.9	I	198.8	729.1	-	98.9	VII	45	-	20.9	18.5	-	6	72	0	0	62	13	0	0	1	4	0
Coimbatore	31.7	-0.3	38.8	IV	20.9	-0.2	14.4	I	-	802.2	+212.3	67.8	VII	53	+8.4	-	9.6	+3.7	1	68	0	0	28	0	0	0	0	0	0

Data not available for complete year; hence no annual means. (A) Aerodrome. @ Electrical instruments.

Table II - Summary of observations of temperature, rainfall and weather for the year 1964

Sub-Division and Station	Air temperature in °C: Mean Maximum	Departure from normal	Highest during the year	Month	Mean Minimum	Departure from normal	Lowest during the year	Month	Rainfall in millimetres: Total during 0830-1730 hours	Total of the year	Departure from normal	Heaviest in 24 hours	Month	No. of rainy days 2.5 mm. or more: Total in the year	Dep. from normal	Wind speed km. per hour: Mean between 0830-1730 hrs.	Mean 24 hours	Departure from normal	Weather phenomena - No. of days with: Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
MADRAS STATE (Contd.)																													
Nagapattinam	32.1	-0.1	40.6	V	25.4	+0.6	18.5	XI	198.6	640.0	-766.6	65.5	XII	38	-17.5	15.6	14.0	+4.0	2	57	0	0	13	0	0	0	1	0	0
Tiruchchirappally	34.0	-0.2	41.1	V	23.6	+0.1	16.5	I	156.5	886.0	+14.4	76.6	VI	45	-1.8	14.3	12.4	-1.6	4	66	0	0	64	0	0	0	2	0	0
Vedaranniyam	32.5	-	37.8	VII	24.7	-	17.0	XI	316.8	937.1	-	96.9	XII	47	-	10.3	8.1	-	1	55	0	0	0	0	0	0	0	0	0
Atirampattinam	32.2	-	38.2	V	24.2	-	18.3	I	155.0	836.8	-	108.0	XI	45	-	14.7	10.9	-	0	59	0	0	25	0	0	0	0	0	0
Madurai	#	-	#	-	24.0	+0.5	18.1	I	-	1088.6	+215.5	229.0	XII	44	-6.5	-	5.8	-0.5	1	55	0	0	37	0	0	0	-0	0	0
Madurai (A)	35.7	-	40.3	V	23.7	-	16.8	I	247.7	1049.0	-	97.0	XII	44	-	13.9	11.4	-	2	63	0	0	94	1	1	0	1	0	0
Tondi	31.5	-	39.2	VI	25.1	-	19.6	XII	39.6	434.5	-	89.6	VII	24	-	18.9	15.6	-	1	42	0	0	27	0	0	0	0	0	0
Rameswaram	31.5	+0.6	35.6	V	25.9	+0.5	20.5	I	56.1	579.4 a	-	-	-	-	-	#	#	-	-	-	0	0	11	0	0	0	0	0	0
Tuticorin	31.8	+0.2	39.0	V	24.5	-0.6	18.4	XII	150.4	465.2	-149.3	66.1	VII	28	-6.8	20.2	17.1	0	0	33	0	0	10	0	1	0	0	0	0
Palayamcottai	#	-	#	-	24.5	-0.4	19.8	XII	271.5	509.3	-217.6	31.8	XI	41	+0.6	10.7	7.7	-3.1	2	49	0	0	14	0	0	0	0	0	0
Kanniyakumari	31.2	-	37.0	V	24.5	-	21.5	VII	181.3	397.1	-	37.4	VII	37	-	21.1	17.9	-	0	56	0	0	0	0	0	0	0	0	0
COASTAL MYSORE																													
Karwar	30.5	+0.2	36.4	II,V	#	-	#	-	1060.0	3494.6	+364.8	149.4	VI	101	-5.2	14.7	11.4	-	0	123	0	0	12	0	0	0	0	0	0
Honawar	30.6	-0.4	36.4	II	22.3	-0.6	15.2	I	1059.1	3358.2	-122.1	137.7	VII	107	-7.1	#	#	-	2	123	0	0	35	0	0	0	0	0	0
Mangalore (Bajpe)	31.2	-	37.5	III	22.7	-	16.1	XI	679.1	2779.1	-	125.0	VII	108	-	11.6	7.9	-	7	134	0	0	42	0	0	0	0	0	0
Mangalore	31.2	+0.5	35.9	III	23.7	+0.1	17.6	XI	681.8	2678.3	-613.3	120.2	VI	105	-12.8	11.8	8.5	+0.8	1	132	0	0	18	1	0	0	5	0	0
INTERIOR MYSORE NORTH																													
Bidar (R)																													
Gulbarga	33.8	+0.1	44.0	V	21.2	+0.6	10.4	XI	192.8	961.2	+215.1	146.4	IX	48	+2.1	#	#	-	0	69	0	0	28	0	0	0	0	0	0
Bijapur	32.7	+0.1	42.6	IV	20.7	+0.7	11.4	XI,XII	206.6	1184.3	+671.4	176.0	VII	48	+15.1	7.7	6.0	-2.4	5	46	0	0	5	0	1	0	0	0	0
Raichur	33.8	+0.2	43.5	V	22.7	+0.6	13.2	XI	332.5	926.0	+277.2	153.0	IX	45	+2.1	13.4	12.8	+1.6	0	67	0	0	9	0	0	0	0	0	0
Belgaum	30.1	-0.2	38.4	IV	18.3	+0.5	9.3	XI	689.3	1632.3	+361.7	107.2	VIII	83	+2.1	7.2	5.0	-3.8	5	119	0	2	15	0	0	0	0	0	0
Belgaum (Sambra)	30.1	-	38.5	IV	18.7	-	9.0	XI	462.2	1121.1	-	71.0	VIII	77	-	12.8	9.5	-	4	115	0	0	26	0	0	0	0	1	0
Gadag	#	-	#	-	20.1	+0.2	12.3	XI	269.4	789.3	+169.0	50.2	IX	55	+8.7	12.1	10.8	-0.4	2	92	0	0	31	-	0	0	0	0	0
INTERIOR MYSORE SOUTH																													
Bellary	33.3	-0.5	42.6	IV	22.5	+0.8	11.4	XI	210.0	669.0	+160.0	75.0	IX	38	+4.5	10.0	7.9	+0.2	0	44	0	0	3	0	0	0	0	0	0
Chitradurga	30.5	+0.5	38.5	IV	20.3	+0.4	13.2	XI	104.8	570.0	-72.6	60.6	VII	46	+0.2	10.0	8.9	+0.3	3	80	0	0	20	1	0	0	0	0	0
Shimoga	30.3	-0.2	37.4	IV	18.7	-0.5	8.1	XI	164.5	987.2	-64.8	68.6	VIII	62	-13.8	*	*	-	1	86	0	0	8	0	0	0	0	0	0
Agumbe	27.2	-	34.8	IV	17.2	-	6.2	I	-	7369.0	-	280.0	VIII	136	-	-	4.3	-	0	153	0	0	0	0	0	0	0	0	0
Balehonnur	28.2	+1.5	37.0	III	17.9	+0.5	9.8	XI	-	2799.2	+195.5	216.2	VII	107	-14.5	*	*	-	0	136	0	1	14	7	0	0	0	0	0
Hassan	28.7	0	36.7	IV	17.4	0	9.1	XI	370.3	1313.7	+424.6	102.4	XI	71	+3.7	9.1	7.1	0	3	107	0	0	50	1	0	0	0	0	0
Bangalore	29.1	+0.2	37.1	IV	18.7	+0.9	10.9	XI	109.8	1191.6	+325.9	111.4	VII	60	+2.8	13.5	10.5	+1.5	6	96	0	1	37	5	0	0	0	7	0
Bangalore (A)	28.9	-	35.8	IV,V	17.7	-	10.0	II	136.1	987.2	-	93.6	IX	54	-	*	*	-	7	87	0	0	42	21	0	0	0	5	0
Mysore	29.9	-0.3	37.0	IV	19.3	+0.3	12.1	XI	246.6	1157.7	+365.7	83.9	V	59	+2.9	14.5	11.9	+2.1	0	72	0	0	18	0	0	0	0	0	0
KERALA																													
Calicut	30.7	+0.2	34.9	IV	23.7	0	18.9	XI,I	627.2	2776.3	-308.9	131.2	VII	100	-15.2	13.8	11.0	+2.5	0	119	0	0	28	0	0	0	0	0	0
Palghat	32.4	-	41.0	IV	23.1	-	17.8	I	700.8	2201.2	-	157.4	VII	99	-	13.1	10.1	-	0	125	0	0	35	0	0	0	0	0	0
Fort Cochin	30.0	+0.2	33.8	III,IV	24.0	-0.5	20.7	VIII	612.7	3137.6	+208.2	127.6	VII	122	-8.1	12.2	8.9	+1.6	3	165	0	0	67	0	0	0	0	0	0
Cochin (N.A.S.)	30.8	-	34.6	III	23.6	-	18.3	I	596.9	3211.1	-	153.0	VII	123	-	12.4	9.0	-	3	171	0	0	116	0	0	0	0	29	0
Alleppey	31.1	+0.3	35.7	III	23.9	-0.1	20.0	I	560.8	2979.7	-272.1	100.4	VII	143	+0.7	14.2	10.6	+0.2	0	174	0	0	61	0	0	0	1	0	0
Punalur	30.9	-	37.3	III	22.2	-	16.0	I	860.6	2459.3	-	108.4	VII	120	-	5.6	4.1	-	0	141	0	0	1	0	0	0	0	0	0
Trivandrum	30.8	+0.1	35.7	III	23.5	0	20.0	II	517.2	1776.1	+79.7	401.5	X	83	-14.2	12.1	8.3	+1.3	14	130	0	0	69	1	0	0	0	2	0
Trivandrum (A)	30.4	-	34.1	III	23.6	-	18.6	XII	-	1310.7	-	168.4	X	83	-	-	8.0	-	5	119	0	0	50	0	0	0	0	0	0
ARABIAN SEA ISLANDS																													
Amini	31.3	+0.4	35.9	V	25.0	-0.1	19.5	XII	588.3	1524.9	+82.6	83.2	VII	29	+1.6	#	#	-	8	109	0	0	13	0	0	0	0	0	0
Minicoy	30.5	+0.4	33.4	III	24.4	-0.2	19.1	XII	596.4	1778.8	+168.1	89.6	IX	100	+7.3	12.2	10.4	-1.0	11	134	0	0	15	0	0	0	0	0	0

Data not available for complete year; hence no annual means. * Data not available. (R) Returns not received. a Data for 365 days.

Table II - Summary of observations of Temperature, Rainfall and Weather for the year 1964

Sub-Division and Station	Air temperature in °C: Mean Maximum	Departure from normal	Highest during the year	Month	Mean Minimum	Departure from normal	Lowest during the year	Month	Rainfall in millimetres: Total during 0830-1730 hours	Total of the year	Departure from normal	Heaviest in 24 hours	Month	No. of rainy days 2.5 mm. or more: Total in the year	Dep. from normal	Wind speed km. per hour: Mean between 0830-1730 hrs.	Mean 24 hours	Departure from normal	Weather phenomena - No. of days with: Precipitation (0.1 mm. or more)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
HILL STATIONS																													
Dalhousie	20.0	-0.3	30.0	V,VI	10.0	-1.1	-5.0	I	1323.0	2895.0	+495.8	196.0	IX	99	+5.0	4.9	4.0	+0.1	0	118	15	13	45	74	0	0	0	0	0
Dharamsala	23.2	-0.4	34.9	VI	14.3	-1.2	-1.0	XII	1490.6	3111.0	-292.4	138.2	VIII	101	+1.7	5.8	5.1	+0.4	0	115	1	0	53	1	0	0	0	0	0
Simla	17.5	+0.6	27.3	V	#	-	#	-	654.7	1313.8	-236.7	74.6	VIII	94	+5.6	3.2	2.5	+0.2	2	100	23	0	31	11	0	0	0	0	0
Dharampur	-	-	-	-	-	-	-	-	-	1200.7	-195.6	70.0	VIII	69	-2.3	-	-	-	0	81	-	-	-	-	-	-	-	-	-
Lokpal	1.5	-	12.4	VII	-2.4	-	-13.2	II	-	2792.0	-	60.2	I	121	-	-	-	-	1	135	-	-	-	-	-	-	-	-	-
Badrinath (R)																													
Joshimath	#	-	#	-	#	-	#	-	#	#	-	-	-	#	-	#	#	-	#	#	#	-	-	-	-	-	-	-	-
Mussoorie	18.2	+0.8	28.2	IV	10.[illegible]	0.0	-2.6	I	721.3	2146.8	-78.2	317.0	VIII	88	-9.8	10.4	8.5	+1.1	0	105	1	3	43	1	0	0	0	0	0
Mukteswar	18.7	+1.5	29.6	VI	9.0	0.0	-4.6	II	496.4	1216.0	-144.2	123.6	IX	78	-3.5	13.2	12.4	+3.4	0	103	4	4	57	39	0	0	0	0	0
Nainital	18.4	+0.1	28.0	IV,VI	9.8	-0.6	-3.1	II	912.0	2489.0	-108.5	205.0	VII	89	-7.0	10.8	7.5	0.0	0	114	2	0	0	29	0	0	0	0	0
Kalimpong	#	-	#	-	#	-	#	-	404.0	2477.5	+288.1	114.3	VI	72	-31.9	#	#	-	0	74	-	-	-	-	-	-	-	-	-
Darjeeling	16.[illegible]	+0.8	25.7	V	9.8	0	-2.0	I	738.4	2911.0	-300.2	216.0	VII	135	+11.7	2.8	2.4	0	0	153	0	0	39	31	0	0	0	0	0
Kohima (a)	21.[illegible]	-	28.9	VIII	14.3	-	2.8	I	1146.9	2164.9	-	82.4	X	145	-	-	2.4	-	0	166	0	5	[illegible]	27	0	0	0	0	0
Shillong	22.0	+0.9	29.4	VIII	12.3	+0.4	-2.8	I	926.9	2081.6	-68.3	87.0	IX	125	+3.1	4.1	4.0	+0.2	2	154	0	1	23	[illegible]	[illegible]	0	0	0	0
Cherrapunji*																													
Abu	25.5	+1.1	35.6	IV	#	-	1.4	I	591.0	2071.4	+507.8	283.2	VIII	60	+6.5	16.1	9.4	+0.7	0	66	0	0	12	[illegible]	2	0	0	0	0
Aijal #																													
Pachmarhi	26.9	+0.2	37.8	V	15.2	-0.8	1.8	II	836.4	1912.2	-109.7	204.0	VI	63	-15.9	7.1	5.6	-0.9	0	89	0	0	[illegible]	0	[illegible]	0	1	0	0
Mahabaleshwar	25.1	+1.5	35.1	IV	16.2	+0.1	10.2	XI	2122.2	5699.2	-936.0	229.3	VIII	116	-4.2	12.9	13.2	+0.1	1	128	0	0	19	145	0	0	0	0	0
Mercara	25.0	+0.[illegible]	32.8	IV	16.0	-0.3	8.0	XII	1214.7	3243.3	+6.6	279.0	VIII	123	-8.8	12.2	10.2	+3.0	0	149	0	0	35	81	0	0	2	3	0
Ootacamund (R)																													
Coonoor (R)																													
Kodaikanal	19.0	+1.3	23.7	V	10.4	0	4.[illegible]	II	918.[illegible]	1728.5	+39.5	185.9	XII	100	-7.1	12.2	12.9	-0.2	20	134	0	4	84	[illegible]	0	39	0	0	0
NEPAL																													
Kathmandu	25.5	-	36.1	VI	11.3	-	-3.9	I	477.2	1386.8	-	84.2	VI	87	-	1.4	1.0	-	9	122	0	3	76	68	0	30	0	0	0
SIKKIM																													
Lachen (R)																													
HYDROMETEOROLOGICAL OBSERVATORIES																													
DAMODAR CATCHMENT																													
Tilaiya Dam	30.5	-	42.3	VI	19.7	-	5.0	I	544.8	1073.9	-	61.4	IX	70	-	10.1	6.9	-	7	91	0	0	34	1	0	0	0	0	0
Hazaribagh	29.2	-	41.0	V	17.4	-	3.1	XII	425.1	1118.9	-	72.6	VIII	73	-	10.1	5.[illegible]	-	8	94	0	0	[illegible]	7	1	6	0	0	0
Konar	#	-	-	-	#	-	-	-	648.4	1236.7	-	111.0	VIII	73	-	#	#	-	0	99	0	0	1	0	0	0	0	0	0
Bokaro	32.0	-	44.8	V	18.4	-	0.5	XII	434.6	917.6	-	45.2	VI	68	-	7.0	4.7	-	4	96	0	0	33	0	0	0	0	0	0
Maithon	32.9	-	44.4	IV,VI	19.0	-	4.7	I	694.5	1170.2	-	72.8	VIII	68	-	#	#	-	2	94	0	1	70	11	0	0	0	0	0
Ramgarh	32.2	-	44.2	V,VI	18.5	-	3.2	XII	788.5	1354.0	-	113.8	VIII	64	-	4.0	2.2	-	3	93	0	1	1	0	1	0	0	0	0
Panchet Hills	32.2	-	44.5	VI	21.2	-	8.3	I	523.2	1135.1	-	64.7	VIII	77	-	5.7	4.5	-	3	104	0	0	0	0	0	0	0	0	0
Durgapur	32.6	-	43.8	IV	21.1	-	5.6	I	600.2	1418.3	-	113.0	VIII	73	-	10.8	9.0	-	0	96	0	0	0	7	0	0	0	0	0
MAHANADI CATCHMENT																													
Ginabahar	32.0	-	42.9	V,VI	18.1	-	2.9	XII	-	1841.7	-	105.8	VI	84	-	-	-	-	3	105	0	0	38	0	0	0	0	0	0
Hirakud	33.2	-	44.3	VI	22.0	-	6.4	XI	-	1906.7	-	277.1	VII	72	-	5.7	4.4	-	9	89	0	0	49	0	0	0	0	3	0
Bhimkund	31.4	-	42.2	IV	19.7	-	7.4	XII	-	1642.1	-	112.0	VIII	89	-	-	-	-	0	127	0	0	147	14	0	0	0	0	0
Sonepur	33.1	-	44.4	VI	22.9	-	8.3	XII	-	1648.9	-	125.2	VIII	68	-	-	-	-	3	86	0	0	0	0	0	0	0	0	0
Khijrawan	32.7	-	43.6	V	-	-	5.1	XII	-	1477.6	-	106.0	VIII	58	-	9.9	4.9	-	0	70	0	0	0	7	0	0	0	0	0
NARMADA CATCHMENT																													
Bagra Tawa	23.3	-	45.7	V	19.0	-	4.0	XII	552.2	1273.1	-	132.2	IX	55	-	7.2	4.9	-	2	71	0	0	10	0	0	0	0	0	0

Data not available for complete year; hence no annual values. * Data not available. (R) Returns not received. (a) Data for 365 days.

Table II - Summary of observations of temperature, Rainfall and Weather for the year 1964

Sub-Division and Station	Air temperature in °C: Mean Maximum	Departure from normal	Highest during the year	Month	Mean Minimum	Departure from normal	Lowest during the year	Month	Rainfall in millimetres: Tot 1I during 0830-1730 hours	Total of the year	Departure from normal	Heaviest in 24 hours	Month	No. of rainy days 2.5 mm. or more: Total in the year	Dep. from normal	Wind speed km. per hour: Mean between 0830-1730 hrs.	Mean 24 hours	Departure from normal	Weather observations - No. of days with: Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Haze or slant	Mist	Thunder heard	Fog	Dust-storm	Squall	Hail	Lightning
NARMADA CATCHMENT (Contd.)																												
Runna	#	-	#	-	#	-	#	-	188.3	630.7	-	61.8	VII	32	-	#	#	-	3	58	0	0	0	0	0	0	0	0
Thikri	34.7	-	46.7	V	18.3	-	4.9	I, XII	-	740.5	-	73.5	IX	36	-	-	-	-	4	55	0	0	0	0	0	0	0	0
SABARMATI CATCHMENT																												
Daroi	35.1	-	43.6	VI	19.5	-	4.4	I	146.8	623.2	-	88.0	VI	30	-	-	-	-	0	34	0	0	0	0	0	0	0	0
GANDAK CATCHMENT																												
Jomosom	#	-	-	-	#	-	-	-	29.0	284.7	-	35.0	V	30	-	-	-	-	0	32	0	0	0	0	0	0	0	0
Khudi Bazar ‡	*	-	-	-	*	-	-	-	609.4	3074.5	-	153.0	VI	106	-	-	-	-	0	128	0	0	0	0	0	0	0	0
Timure	22.8	-	32.8	VI	10.8	-	-0.7	I	42.2	1091.5	-	80.0	VII	83	-	-	-	-	1	95	0	0	0	0	0	0	0	0
Pokhara	26.1	-	34.8	IV	15.8	-	3.0	I	739.4	3516.4	-	261.4	VII	122	-	3.2	2.9	-	7	155	0	15	124	3	1	0	0	0
Gorkha	24.9	-	34.2	VI	16.7	-	4.5	XII	314.1	1606.5	-	93.3	VI	84	-	#	#	-	5	112	0	1	87	100	0	0	0	0
Nawakot	27.7	-	37.7	VI	16.4	-	4.5	I	297.0	1227.0	-	80.2	VI	85	-	-	-	-	22	109	0	0	0	0	0	0	0	0
GHAGHARA CATCHMENT (Trans Himalayan Region)																												
Dailekh	24.1	-	35.2	VI	13.5	-	2.2	I	338.4	1450.5	-	75.0	VII, VIII	62	-	-	-	-	0	71	0	0	0	0	0	0	0	0
GHAGHARA CATCHMENT																												
Dadeldhura	20.2	-	32.5	VI	11.5	-	-1.6	II	469.2	1459.2	-	81.2	IX	86	-	6.6	5.5	-	7	113	0	7	41	53	0	22	0	0
Sallyana #																												
Dutwal	31.5	-	44.4	VI	20.2	-	4.3	I	862.0	2733.7	-	204.0	VII	91	-	-	-	-	1	99	0	0	0	0	0	0	0	0
BAGMATI CATCHMENT																												
Katmandu %																												
KOSI CATCHMENT																												
Chautara	24.4	-	34.1	VI	13.1	-	1.3	I	390.8	2143.3	-	102.0	IX	98	-	-	-	-	1	117	-	-	-	-	-	-	-	-
Chepua	*	-	-	-	*	-	-	-	384.5	2171.2	-	60.6	IV	161	-	-	-	-	1	207	-	-		-	-	-	-	-
Mallungchung Gola	11.7	-	21.0	VIII	3.9	-	-8.8	I	412.4	1415.8	-	34.4	VII	123	-	-	-	-	5	171	-	-	-	-	-	-	-	-
Taplethok	24.4	-	31.6	IX	13.6	-	2.8	II	159.4	2201.4	-	68.0	IX	146	-	-	-	-	1	177	-	-	-	-	-	-	-	-
Bhojpur	21.1	-	28.7	VI	13.6	-	2.2	I	248.4	1065.7	-	93.0	VII	60	-	-	-	-	0	76	-	-	-	-	-	-	-	-
Taplejung	20.6	-	28.1	VI	11.8	-	0.1	II	304.8	1573.1	-	49.8	IX	113	-	#	#	-	7	159	0	1	59	72	0	3	0	0
Okhaldhunga	20.7	-	28.1	V	12.0	-	-1.5	I	581.6	1690.4	-	90.9	VIII	83	-	3.8	2.9	-	3	128	0	2	40	61	0	20	0	0
Chainpur	24.7	-	31.7	V	15.6	-	6.8	XII	320.7	1493.9	-	78.8	IV	89	-	-	-	-	0	117	-	-	-	-	-	-	-	-
Angbung #																												
Barahakshetra	29.9	-	39.8	V	19.0	-	5.3	I	904.7	2683.6	-	266.9	VIII	82	-	8.0	5.1	-	6	120	0	2	61	1	0	0	0	0
TISTA CATCHMENT																												
Gangtok	20.2	-	28.0	V	11.7	-	0.3	II	745.8	3428.9	-	122.8	VI	143	-	#	#	-	4	181	0	6	45	171	0	2	0	0
Gezing	22.9	-	30.6	V	12.8	-	1.0	II	330.2	2314.1	-	135.2	VII	116	-	-	-	-	0	147	-	-	-	-	-	-	-	-

Data not available for complete year; hence no annual means. ‡ Reduced to class V from 1.12.1964. * Data not available.
% Data given under Nepal.

Table III – Summary of Observations at Pilot Stations for the year 1964

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean Pressure in millibars: At Mean sea level or ht. in 8-p.m. of market standard isobaric level	Mean Pressure in millibars: At station level	Mean Pressure in millibars: Departure from normal	Mean Temperature °C: Dry Bulb	Mean Temperature °C: Wet Bulb	Mean Temperature °C: Dew Point	Vapour pressure in mb.	Relative Humidity	Departure from normal	Cloud Amt. (Octas): Mean Amount	Cloud Amt. (Octas): Departure from normal	Mean wind speed in m. per hour	Wind speed (m.p.h.): All ur wave	Wind speed (m.p.h.): 20 to 61	Wind speed (m.p.h.): 1 to 19	No. of observations Wind Direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
BAY ISLANDS																											
Naya Bandar	0830	28	1010.5	1007.4	-	27.0	24.9	23.9	29.7	84	-	4.7	-	7.7	0	30	202	10	78	11	11	2	109	25	5	114	1
	1730	"	1008.2	1005.1	-	27.0	24.6	23.5	29.0	81	-	4.7	-	11.7	0	46	282	5	131	22	11	3	92	51	9	38	4
Long Island	0830	25	10 10.3	1007.5	-	27.7	25.2	24.0	29.9	80	-	5.1	-	2.4	0	0	242	5	27	27	32	17	55	53	16	124	0
	1730	"	1008.0	1005.1	-	26.7	24.5	23.5	29.1	82	-	5.2	-	1.8	0	0	194	4	42	22	17	4	49	47	9	172	0
Port Blair	0530	79	1008.9	999.8	-	24.4	23.4	22.9	28.0	91	-	5.1	-	8.3	0	46	218	8	47	17	6	21	95	55	15	102	0
	0830	"	1010.6	1001.7	-	28.2	25.0	23.5	28.9	76	-1	5.4	+0.5	14.1	0	99	251	13	111	36	11	18	104	41	16	16	0
	1130	"	1009.3	1000.5	-	29.2	25.3	23.5	28.9	72	-	5.7	-	16.5	0	119	239	6	105	51	18	21	96	40	13	8	0
	1730	"	1008.1	999.2	-	26.5	24.2	23.1	28.3	82	-	5.5	-	10.7	0	56	267	8	80	44	11	15	99	49	17	43	0
	2330	"	1009.6	1000.6	-	25.2	23.8	23.1	28.3	89	-	4.3	-	8.8	0	55	214	7	62	26	7	11	107	39	10	97	0
Car Nicobar	0830	10	1010.5	1009.3	-	28.3	25.2	23.8	29.4	77	-	5.0	-	3.6	0	1	329	2	136	15	11	1	137	12	6	36	10
	1730	"	1008.1	1006.9	-	27.3	24.8	23.7	29.2	81	-	5.0	-	2.4	0	1	240	0	124	3	3	1	97	-	2	125	4
Nancowry	0830	26	1010.7	1007.8	-	28.1	25.5	24.3	30.3	80	-	5.2	-	5.5	0	25	178	0	1	6	7	11	102	57	19	163	0
	1730	"	1008.1	1005.2	-	27.2	25.0	24.0	30.0	83	-	5.0	-	5.2	0	20	163	1	8	4	3	2	102	52	19	162	0
Kondul	0830	8	*	-	-	27.6	25.3	24.3	30.5	83	-	6.1	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-
	1730	"	*	-	-	27.0	25.1	24.3	30.4	85	-	6.0	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-
ASSAM (INCLUDING MANIPUR & TRIPURA)																											
Passighat	0830	157	1010.7	992.7	-	22.1	19.8	18.3	21.9	79	-	4.8	-	11.8	0	103	223	11	27	13	21	3	9	2	240	40	0
	1730	"	1006.9	989.1	-	23.0	21.0	19.9	24.1	83	-	4.5	-	4.5	0	22	203	17	13	8	8	4	14	10	151	141	0
Dibrugarh (Mohanbari) (A)	0230	111	1007.9	995.0	-	19.4	18.7	18.2	22.0	93	-	5.1	-	2.6	0	2	113	7	71	24	0	2	6	5	0	251	0
	0530	"	1008.6	995.8	-	18.9	18.3	17.9	21.6	94	-	5.5	-	2.5	0	3	142	9	83	33	9	4	2	3	2	221	0
	0830	"	1010.3	997.6	-0.8	23.2	20.4	19.2	23.1	83	-3	5.3	+0.5	5.8	0	2	318	17	133	118	20	8	7	10	7	46	0
	1130	"	1008.7	995.1	-	25.4	21.4	18.8	22.8	68	-	5.1	-	6.3	0	10	331	32	140	94	21	10	17	19	11	25	0
	#1430																										
	1730	"	1006.3	993.6	-	23.8	21.2	19.7	23.8	78	-	4.7	-	3.1	0	1	167	16	85	35	5	7	10	5	5	198	0
	#2030																										
	2330	"	1008.4	995.6	-	20.2	19.3	18.8	22.7	92	-	4.7	-	2.8	0	3	133	5	90	22	2	1	9	0	7	230	0
Digboi	#0830																										
	#1730																										
North Lakhimpur	0830	102	1010.7	995.0	0	22.9	20.8	19.6	23.7	82	0	5.3	+0.2	3.4	0	0	267	18	149	36	23	25	8	5	3	99	0
	1130	"	1009.0	997.4	-	26.0	22.0	19.5	23.8	69	-	5.3	-	5.6	-	-	-	8	137	66	56	38	12	3	2	9	1
	#1430	"																									
	1730	"	1006.8	995.1	-	23.9	21.7	20.4	25.0	81	-	4.9	-	3.0	0	1	199	37	91	23	7	10	14	4	14	166	0
Sibsagar	0830	97	1010.8	999.7	-0.1	23.3	21.3	20.1	24.4	83	-4	5.7	-0.5	3.2	0	0	267	118	62	10	14	20	42	0	1	99	0
	1730	"	1006.6	995.7	-	25.8	22.4	20.6	25.0	73	-	4.8	-	2.3	0	0	191	93	40	7	11	11	27	2	0	175	0
Golpur	0830	-	-	-	-	22.2	20.8	20.0	24.2	87	-	5.2	-	3.4	0	0	324	9	143	30	83	6	18	6	24	42	5
	1730	-	-	-	-	25.0	22.1	20.5	25.0	76	-	4.7	-	3.3	0	1	294	14	120	21	67	3	26	10	30	71	4
Majbat	0830	-	-	-	-	24.1	21.4	19.6	23.9	76	-	3.6	-	2.9	0	0	284	10	62	95	54	21	19	11	4	82	8
	1730	-	-	-	-	24.9	22.0	20.3	24.9	77	-	2.7	-	1.3	0	0	155	12	22	37	17	21	26	7	10	211	3
Jorhat (A)	0530	90	1008.3	997.8	-	19.7	19.3	19.1	23.1	96	-	5.8	-	2.8	0	0	133	8	51	10	4	9	29	11	11	233	0
	0830	"	1010.1	999.8	-	23.3	21.3	19.9	24.3	83	-	5.5	-	5.2	0	4	231	16	110	25	3	5	50	17	9	131	0
	1130	"	1008.5	998.4	-	26.8	22.4	19.8	24.0	68	-	5.0	-	8.1	0	1	325	34	152	39	6	9	36	23	27	40	0
	1730	"	1006.0	995.8	-	24.4	21.7	20.1	24.4	77	-	4.7	-	4.9	0	10	182	11	110	20	2	7	18	9	15	174	0
	2330	"	1008.2	997.9	-	21.0	20.3	19.8	24.1	94	-	4.5	-	2.8	0	1	112	6	49	8	2	3	27	6	12	253	0
Tezpur	#0830	78																									
	#1730	"																									

* Data not available. # Data not available for complete year; hence no annual means. (A) Aerodrome.

Table XXI - Summary of observations at Pilot Balloon for the year 1963

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean Pressure in millibars: At mean sea level or ht. in p.p.m. of mercury at standard level	Mean Pressure in millibars: At station level	Mean Pressure in millibars: Departure from normal	Mean Temperature °C: Dry Bulb	Mean Temperature °C: Wet Bulb	Mean Temperature °C: Dew point	Vapour pressure in mb.	Relative Humidity %	Relative Humidity %: Departure from normal	Cloud Amt. (Okta): Mean Amount	Cloud Amt. (Okta): Departure from normal	Mean wind speed in m.p.h.	Wind speed (m.p.h.): 0 to 6	Wind speed (m.p.h.): 7 to 20	Wind speed (m.p.h.): 21 to 61	No. of observations: Wind Direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
ASSAM (EXCLUDING MANIPUR & TRIPURA)																											
Sonapur	0830	79	1010.7	1001.7	-0.5	22.4	20.8	19.8	24.6	85	+3	3.9	-0.3	2.3	0	0	317	32	161	48	18	21	33	2	2	49	0
	1730	"	1006.7	996.9	-	25.6	22.0	19.8	24.2	71	-	3.5	-	1.7	0	0	232	18	95	41	5	18	44	6	4	134	0
Golaghat	0830	-	-	-	-	(c) 22.6	(c) 20.7	(c) 19.7	(c) 23.8	(c) 85	-	(c) 6.8	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-
	1730	-	-	-	-	(d) 27.1	(d) 23.2	(d) 21.1	(d) 25.8	(d) 71	-	(d) 2.4	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Sonsiya	(e)0830	-	1010.8	1004.0	-	24.5	21.7	20.1	24.6	77	-	3.5	-	(e) 6.7	0	0	340	9	43	180	34	9	14	41	10	9	0
	(f)1730	-	1007.2	1000.4	-	26.5	22.9	21.1	25.7	73	-	2.7	-	(g) 2.6	0	0	189	8	25	71	10	7	17	37	14	145	0
Chaparmukh	#0830	66																									
	#1730	"																									
Goalpara																											
Gauhati	#0830	55																									
Gauhati (Khorjor)	0230	54	1007.4	1001.1	-	20.5	19.8	19.4	23.7	94	-	3.5	-	2.3	0	1	111	3	39	16	7	25	15	3	4	254	0
	0530	"	1007.8	1001.5	-	19.9	19.4	18.1	22.3	85	-	4.4	-	2.2	0	0	117	11	31	19	10	20	17	7	2	249	0
	0830	"	1009.9	1003.7	-0.4	27.7	21.4	20.2	24.5	61	+4	4.4	+0.3	4.5	0	1	224	34	97	25	8	17	9	17	18	141	0
	1130	"	1008.4	1002.2	-	27.2	22.7	20.1	24.9	66	-	4.0	-	7.8	0	3	330	98	132	17	2	8	8	36	32	33	0
	#1430	"																									
	1730	"	1005.8	999.6	-	25.6	22.2	20.2	24.7	73	-	4.4	-	4.3	0	3	214	24	58	13	14	22	25	39	22	149	0
	#2030	"																									
	2330	"	1008.2	1001.9	-	21.4	20.3	19.7	24.0	90	-	3.5	-	2.0	0	1	94	2	32	14	3	15	20	5	3	271	1
Bhubri (Chapai)	0530	36	1007.7	1002.5	-	13.7	19.1	18.7	22.8	93	-	3.8	-	4.1	0	5	201	6	145	26	3	14	9	1	2	160	0
	0830	"	1009.5	1004.3	-	23.7	21.4	20.0	24.5	81	-	3.8	-	6.6	0	10	297	7	94	125	18	29	22	9	3	59	0
	1130	"	1008.3	1003.2	-	27.2	22.7	19.9	24.5	66	-	3.7	-	8.3	0	12	320	6	66	136	34	32	32	24	2	34	0
	1730	"	1005.3	1000.2	-	26.1	22.7	20.7	25.4	74	-	3.1	-	3.4	0	3	175	10	32	45	14	24	27	18	3	188	0
Bhubri	0830	35	1010.2	1006.2	0	23.3	21.2	19.9	24.2	81	+1	3.4	-0.2	8.4	0	23	299	7	193	43	34	15	22	1	6	44	1
	1730	"	1006.3	1002.3	-	25.9	22.2	20.1	24.6	71	-	3.0	-	1.4	0	3	83	2	62	8	4	4	2	0	4	280	0
Lumding	0830	149	1010.3	993.7	-	22.6	20.5	19.2	23.1	82	-1	3.5	-	2.5	0	0	196	2	50	40	60	8	23	1	12	170	0
	1730	"	1005.8	989.1	-	26.7	22.6	20.3	24.7	69	-	3.5	-	1.8	0	0	203	5	25	15	36	22	39	2	39	7	0
Dima	0830	370	1010.6	968.8	-	22.4	20.4	19.1	23.3	82	-	7.2	-	3.3	0	0	313	3	24	98	71	44	31	31	11	53	0
	1730	"	1005.9	962.9	-	25.9	22.9	21.3	26.3	77	-	7.4	-	3.1	0	0	321	13	20	39	54	53	70	55	17	45	0
Haflong	0830	682	1011.3	935.4	-	20.7	18.4	16.9	20.0	80	-	4.5	-	*	-	-	-	5	0	0	2	87	207	0	65	0	0
	1730	"	1005.5	930.5	-	22.7	19.4	17.4	20.5	73	-	3.7	-	*	-	-	-	1	0	0	1	45	260	0	59	0	0
Silchar (Dumbhigram)	0530	97	1007.5	996.3	-	20.2	19.3	18.7	22.7	91	-	4.8	-	7.1	0	3	328	0	15	285	11	2	6	7	5	35	0
	0830	"	1009.0	998.0	-	23.4	22.0	19.6	23.6	79	-	4.6	-	7.3	0	3	330	1	13	262	19	10	8	12	8	33	0
	1130	"	1007.3	996.4	-	27.2	22.3	19.4	23.4	64	-	4.4	-	6.7	0	2	333	7	26	94	34	27	48	46	33	31	0
	1730	"	1005.1	994.1	-	25.7	22.2	20.1	24.4	73	-	4.0	-	4.3	0	1	261	13	32	77	8	6	31	71	24	104	0
Silchar	0830	29	1010.3	1006.9	-0.6	23.8	21.7	20.5	24.8	82	+1	4.7	+0.6	1.2	0	6	213	17	57	48	29	28	19	6	9	153	0
	1730	"	1006.1	1002.8	-	26.4	22.9	21.0	25.7	73	-	4.0	-	0.8	0	0	132	18	22	9	12	10	19	22	20	234	0
Imphal (Tulihal)	0530	787	1010.8	923.2	-	18.1	15.4	13.0	18.1	94	-	3.9	-	1.4	0	1	68	9	14	8	3	10	5	10	11	296	0
	0830	"	1011.4	924.7	-0.3	20.2	17.7	16.2	19.2	78	+2	5.4	+1.1	3.6	0	1	140	12	26	12	24	27	15	12	13	225	0
	1130	"	1008.3	921.2	-	24.0	19.4	16.5	19.7	64	-	5.4	-	3.6	0	13	283	23	14	13	26	64	85	51	48	44	2
	#1430	"																									
	1730	"	1004.7	921.0	-	22.1	18.7	16.4	19.4	71	-	5.1	-	3.8	0	5	283	12	6	17	36	31	26	83	87	78	0
	#2030	"																									
	2330	"	1010.4	922.2	-	17.8	16.7	16.0	19.5	88	-	3.9	-	2.4	0	2	[illegible]	6	16	7	38	16	5	22	27	256	1

Data not available for complete years, hence no normal values. (c) Data for 3[illegible] days. (d) Data for 2[illegible] days. (e) Data for 3[illegible] days.

(f) Data for 3[illegible] days. (g) Data for [illegible] days. [illegible] not available.

Table III - Summary of Observations at Pilot Balloons for the year 1956

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean Pressure in millibars: At mean sea level or ht. in g.p.m. of nearest standard level in charts	Mean Pressure in millibars: At station level	Mean Pressure in millibars: Departure from normal	Mean Temperature °C: Dry Bulb	Mean Temperature °C: Wet Bulb	Mean Temperature °C: Dew Point	Vapour pressure in mb.	Relative humidity	Departure from normal	Cloud Amt. (Okta): Mean Amount	Cloud Amt. (Okta): Departure from normal	Mean wind speed in m. per hour	Wind speed (in m.p.h.): 61 or more	Wind speed (in m.p.h.): 30 to 60	Wind speed (in m.p.h.): 1 to 10	No. of observations Wind Direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
ASSAM (INCLUDING MANIPUR & TRIPURA)																											
Kailashahar	0530	29	1008.9	1005.7	-	20.5	19.9	19.7	23.8	94	-	4.8	-	2.3	0	0	169	8	15	25	13	66	33	7	2	197	0
	0830	"	1010.4	1007.1	-	24.1	21.8	20.7	25.2	81	-	4.4	-	4.7	0	0	297	13	25	38	22	110	77	7	3	69	2
	1130	"	1009.1	1005.8	-	28.1	23.5	20.9	25.5	66	-	4.7	-	4.8	0	0	306	29	27	39	21	79	60	34	16	60	1
	1730	"	1006.6	1003.3	-	26.3	23.2	21.6	26.4	76	-	4.5	-	3.1	0	3	165	20	14	16	2	55	35	18	7	198	0
Agartala	0230	16	1006.7	1004.9	-	21.4	20.7	20.3	24.7	93	-	4.0	-	66	0	9	216	8	11	23	110	65	4	1	3	141	0
	0530	"	1007.3	1005.5	-	20.9	20.4	20.1	24.2	95	-	4.7	-	7.0	0	15	249	8	18	32	136	59	6	2	3	102	0
	0830	"	1008.9	1007.1	-0.3	25.2	22.7	21.4	26.2	80	+1	4.6	+0.3	13.3	0	56	236	20	24	22	86	101	21	6	12	74	0
	1130	"	1008.2	1006.3	-	28.6	23.7	20.9	25.7	63	-	4.8	-	12.1	0	35	306	42	18	14	55	85	55	31	41	23	0
	#1430	"																									
	1730	"	1005.3	1003.6	-	26.3	23.1	21.1	25.9	73	-	4.4	-	9.0	0	43	231	34	19	20	38	102	27	15	19	92	0
	#2030	"																									
	2330	"	1007.6	1005.8	-	22.3	21.3	20.7	25.3	91	-	3.8	-	7.2	0	30	203	6	13	10	122	69	6	2	5	133	0
SUB-HIMALAYAN WEST BENGAL																											
Baghdogra	0230	131	1007.2	992.1	-	19.8	18.6	17.9	21.7	89	-	3.6	-	4.2	0	8	160	37	54	54	0	9	0	5	9	198	0
	0530	"	1007.7	992.3	-	18.9	18.0	17.4	21.2	90	-	4.1	-	4.5	0	8	183	37	69	53	5	2	3	13	9	175	0
	0830	"	1009.5	994.5	0	23.7	20.5	18.8	22.5	74	-1	4.0	0	9.2	0	46	229	20	93	127	16	1	6	10	1	91	1
	1130	"	1008.3	993.3	-	27.6	22.0	18.5	22.5	59	-	3.9	-	11.2	0	23	309	5	42	145	86	20	25	9	0	34	0
	1730	"	1005.4	990.6	-	25.6	21.8	19.1	23.2	69	-	4.2	-	6.2	0	17	187	8	38	73	26	10	22	22	5	162	0
	2330	"	1008.0	992.9	-	20.6	19.2	18.3	22.3	87	-	3.7	-	7.2	0	16	264	74	99	61	6	3	3	13	19	86	0
Jalpaiguri	0830	83	1008.4	993.9	-0.6	21.9	20.1	19.0	23.0	84	+2	3.3	+0.4	6.1	0	8	326	91	95	67	11	5	6	11	48	32	0
	1730	"	1005.3	994.0	-	26.8	22.1	19.3	23.5	65	-	2.5	-	5.5	0	14	243	21	44	60	53	18	38	19	4	109	0
Cooch Behar	0830	43	1009.7	1004.8	-	23.6	21.2	19.8	24.2	80	-	3.9	-	7.8	0	18	312	3	82	190	18	12	12	5	[illegible]	36	3
	1130	"	1008.5	1003.7	-	27.2	22.7	20.0	24.6	66	-	3.8	-	9.9	0	32	323	1	63	168	35	25	21	10	6	11	26
	1730	"	1005.7	1000.8	-	25.9	22.4	20.5	25.2	73	-	3.5	-	3.0	0	4	130	2	27	57	13	11	15	6	3	232	0
Raiganj	0830	26	1008.1	1005.1	-	25.0	21.8	19.8	24.3	74	-	3.6	-	4.0	0	0	325	39	36	54	73	48	37	17	18	41	3
	1730	"	1004.3	1001.4	-	27.2	22.7	20.0	24.4	65	-	3.1	-	2.4	0	0	213	9	13	32	75	27	33	13	4	153	7
Balda	0830	31	1008.9	1005.3	-0.5	25.0	21.6	19.6	24.2	72	0	3.5	+0.8	3.2	0	0	317	47	45	49	50	44	34	9	39	49	0
	1730	"	1005.2	1001.7	-	28.0	22.7	19.5	24.1	63	-	3.1	-	2.5	0	0	259	29	26	42	43	24	12	11	72	107	0
DARJEELING WEST BENGAL																											
Bagdogra	0830	19	1006.5	1006.3	-0.9	25.0	22.1	20.3	25.3	77	+2	3.6	-0.1	(d) 2.0	0	0	199	10	6	63	10	73	12	24	1	163	0
	1730	"	1004.8	1002.4	-	28.0	23.7	19.6	24.0	64	-	3.4	-	(d) 1.3	0	0	128	6	0	60	3	41	6	10	2	234	0
Bari	0830	77	-	-	-	25.7	21.5	18.8	23.2	67	-	3.3	-	4.2	0	0	361	53	17	53	34	107	19	59	19	5	0
Aagmani	0230	118	1006.5	992.1	-	21.8	19.8	18.5	22.6	81	-	2.6	-	#	-	-	-	2	6	23	28	44	18	6	39	199	1
	0530	"	1007.1	992.6	-	21.2	19.5	18.3	22.5	84	-	3.3	-	#	-	-	-	12	15	19	30	33	20	26	39	171	1
	0830	"	1008.7	994.5	-0.1	25.6	21.4	18.8	23.0	67	-2	3.1	-0.4	#	-	-	-	23	29	21	48	44	28	63	68	42	0
	1130	"	1007.5	993.5	-	30.5	22.6	17.7	21.7	49	-	3.2	-	#	-	-	-	40	45	36	45	44	34	42	68	9	1
	#1430	"																									
	1730	"	1004.9	993.8	-	28.6	22.0	17.8	21.6	56	-	3.5	-	#	-	-	-	27	27	33	32	44	13	27	69	91	1
	2330	"	1007.4	993.0	-	22.9	20.2	18.5	22.6	77	-	2.7	-	#	-	-	-	13	7	28	40	53	20	14	4	145	0
Shanti Niketan	0830	59	1009.0	1002.3	-	25.5	21.8	19.5	24.0	71	-	3.3	-	7.4	0	13	314	56	36	20	30	81	39	14	51	39	0
	1130	"	1008.2	1001.6	-	28.6	22.7	18.4	22.7	54	-	3.0	-	6.5	0	13	327	39	45	35	39	57	39	19	47	26	0
	1730	"	1005.2	998.6	-	27.7	22.2	18.8	23.0	62	-	3.5	-	5.5	0	11	272	38	31	19	41	68	25	21	31	83	0
Kalimpong	0830	15	1008.9	1007.3	-0.3	24.1	22.8	20.9	24.0	74	0	2.3	+1.2	1.1	0	0	125	14	6	7	10	28	5	1	4	246	0
	1730	"	1004.3	1002.9	-	26.5	23.3	20.4	24.8	64	-	2.7	-	[illegible]	0	0	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]

Data not available for complete years; hence no normal values. (d) Data available for 182 days.

Table XII - Summary of Observations on Thunderstorms for the year 1951

Sub-Division and Station	Hour of observation G.M.T.	Station elevation in metres	Mean Pressure in millibars: At mean sea level or in the plane of the mean sea level, whichever is higher	At station level	Departure from normal	Mean Temperature deg. C: Dry Bulb	Wet Bulb	Dew Point	Vapour pressure in mb.	Relative humidity	Departure from normal	Cloud Amount (Octas): Mean Amount	Departure from normal	Mean wind speed (Kts.): Mean wind speed	01 or less	02 to 10	11 to 21	No. of observations: Wind Direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
CAMPBELL MEM. BENGAL (CONTD.)																											
Purulia	0830	255	1008.8	980.3	-0.3	25.1	20.2	16.9	20.7	63	0	4.3	+1.1	4.7	0	0	321	35	29	5	81	25	41	17	118	15	0
	1730	"	1004.7	976.6	-	26.6	21.3	16.6	20.1	53	-	4.6	-	3.6	0	2	290	28	33	3	86	24	31	7	88	74	0
Bankura	0830	180	1008.1	996.8	-	25.7	21.4	18.8	22.2	67	-	2.3	-	1.5	0	0	224	30	44	15	18	23	30	23	39	142	2
	1730	"	1004.5	993.4	-	25.5	22.5	18.1	22.1	55	-	2.9	-	(a) 1.2	0	0	167	17	34	13	19	25	15	5	38	198	1
Burdwan	0830	32	1008.6	1004.8	-0.6	26.4	22.7	20.6	25.5	71	-3	2.6	-1.1	2.6	0	1	210	27	14	44	16	39	41	14	16	155	0
	1730	"	1004.8	1001.1	-	28.0	23.6	20.5	23.4	62	-	2.8	-	5.2	0	12	229	25	6	64	22	82	11	19	17	123	0
Berhampore (A)	0330	7	1007.3	1006.5	-	22.4	21.5	21.0	25.8	91	-	3.8	-	4.7	0	6	199	18	16	32	26	36	52	9	16	161	0
	0830	"	1009.1	1008.3	-0.1	23.9	23.1	21.7	26.9	78	+2	3.8	0	7.8	0	12	299	41	24	46	28	40	77	28	27	55	0
	1130	"	1008.2	1007.5	-	28.6	23.9	20.8	25.7	61	-	3.7	-	9.6	0	16	328	48	24	40	35	45	72	37	42	22	1
	1730	"	1005.6	1004.9	-	27.7	23.8	21.7	26.7	72	-	3.7	-	5.6	0	16	233	23	5	16	33	79	48	14	29	117	0
	2330	"	1007.8	1007.1	-	23.7	22.2	21.4	26.3	87	-	4.6	-	4.6	0	1	180	2	7	12	23	69	53	8	7	185	0
Calcutta (Dum Dum)	0230	6	1006.2	1005.3	-	23.1	22.0	21.5	26.3	90	-	3.4	-	4.3	0	6	238	24	15	20	38	83	38	9	11	122	0
	0530	"	1006.7	1006.0	-	22.5	21.6	21.1	26.0	91	-	4.5	-	3.5	0	1	229	26	19	31	35	57	43	7	12	136	0
	0830	"	1006.5	1007.8	-0.6	26.0	23.1	21.5	26.6	77	+2	4.4	+0.5	6.7	0	12	330	47	31	35	46	68	66	15	34	24	0
	1130	"	1007.7	1006.9	-	28.7	23.9	20.8	25.8	68	-	4.3	-	7.8	0	14	342	52	34	28	57	69	60	14	42	10	0
	$1430	"																									
	1730	"	1005.1	1004.4	-	27.9	23.7	21.4	26.3	69	-	4.2	-	4.9	0	6	244	20	8	23	43	100	41	7	8	116	0
	$2030	"																									
	2330	"	1007.2	1006.5	-	28.7	22.4	21.6	26.7	88	-	3.1	-	4.8	0	4	247	15	11	19	52	98	39	9	8	115	0
Calcutta	0830	6	1008.4	1007.7	-0.8	26.5	23.1	21.2	26.2	73	-6	3.6	-0.2	6.3	0	5	332	25	30	30	44	75	66	18	49	29	0
	1130	"	1007.4	1006.7	-	30.2	23.8	20.3	24.9	57	-	3.7	-	7.7	0	10	345	21	31	33	45	70	65	30	60	11	0
	1730	"	1004.9	1004.2	-	28.2	23.4	20.7	25.4	66	-	3.6	-	5.8	0	7	273	13	12	20	37	121	24	10	43	86	0
Midnapore	0830	45	1008.4	1003.3	-0.7	25.8	22.0	19.8	24.3	70	-1	2.6	-0.5	3.6	0	1	295	43	72	20	4	86	50	7	3	70	11
	1730	"	1004.9	999.8	-	28.2	22.8	18.9	23.2	59	-	3.4	-	3.6	0	7	221	29	30	5	7	116	35	6	0	138	0
Contai	0830	11	1008.4	1007.2	-0.1	26.5	23.5	21.9	27.1	77	0	2.8	+0.6	4.8	0	27	286	92	10	11	18	60	100	16	8	53	0
	1730	"	1005.2	1004.0	-	27.3	24.2	22.6	27.8	73	-	2.3	-	7.9	0	40	257	8	3	10	39	153	57	6	1	89	0
Sagar Island	0830	3	1008.1	1007.8	-0.9	26.5	24.2	22.1	28.9	81	+3	4.2	-0.1	20.1	0	280	160	53	49	18	14	62	114	21	29	6	0
	1730	"	1004.9	1004.6	-	27.3	24.6	23.3	29.2	79	-	3.9	-	19.7	1	187	168	31	20	11	54	122	90	10	18	10	0
Sandheads	0330	10	1006.2	1005.1	-	26.6	24.3	23.1	28.[illegible]	81	-	4.2	-	16.7	1	112	233	40	43	2	12	65	141	23	20	20	0
	0830	"	1008.1	1007.0	-1.2	27.7	24.7	23.4	29.1	77	+4	3.8	+0.[illegible]	16.2	2	116	233	47	42	12	12	43	145	25	23	15	0
	1130	"	1007.7	1006.6	-	28.7	25.1	23.3	29.1	74	-	3.9	-	15.8	0	104	254	42	49	17	18	43	142	26	23	8	0
	1730	"	1005.2	1004.1	-	27.7	24.7	23.2	28.8	77	-	4.0	-	16.3	0	212	121	31	29	17	22	79	116	12	6	33	1
	2330	"	1006.9	1005.8	-	26.9	24.4	23.2	28.8	80	-	2.1	-	17.0	0	133	207	30	31	18	24	66	152	15	12	26	0
ORISSA																											
Baripada	0830	34	1008.3	1003.2	-	25.9	23.8	20.1	25.0	71	-	3.1	-	4.0	0	1	305	74	49	7	11	32	56	19	34	68	4
	1730	"	1005.9	999.7	-	28.2	28.3	20.5	25.2	66	-	3.7	-	3.0	0	0	218	14	18	23	58	59	38	9	9	146	6
Jharsuguda	0230	230	1006.3	989.2	-	22.7	19.6	17.5	21.0	73	-	3.2	-	4.4	0	3	196	31	32	26	35	34	21	15	7	165	0
	0530	"	1006.8	988.6	-	23.4	19.1	17.5	21.0	80	-	3.7	-	4.0	0	1	185	37	44	21	28	30	22	13	3	179	0
	0830	"	1008.5	983.6	-0.4	25.1	20.4	17.3	20.8	65	-1	3.7	+0.2	7.6	0	3	298	68	72	24	25	39	37	39	5	42	0
	1130	"	1007.3	981.2	-	28.9	21.7	16.4	19.8	48	-	3.6	-	8.9	0	30	300	34	39	35	11	40	73	58	32	38	0
	1730	"	1004.1	978.6	-	30.0	21.3	13.4	18.1	40	-	4.3	-	4.2	1	17	287	14	18	26	19	31	41	66	23	111	0
	2330	"	1007.0	981.0	-	26.1	20.1	17.4	20.8	70	-	3.4	-	3.4	0	7	206	31	28	35	48	42	26	16	9	186	0
Khaniharguda	0830	468	1008.0	954.8	-	25.8	20.8	18.4	21.7	68	-	3.8	-	2.0	0	6	341	74	35	38	28	19	9	86	68	23	1
	1730	"	1006.3	952.8	-	27.8	21.7	18.3	21.6	61	-	3.1	-	2.8	0	6	320	46	37	34	26	34	28	130	25	32	0

(A) Aerodrome. * Data not available for complete year, hence not [illegible]

Table XIII – Summary of Climatological Observations for the year [illegible]

Sub-Division and Station	Hour of observation (Hours I.S.T.)	Station elevation in metres	Mean Barometer for millibars: At mean sea level or in c.p.s. of station level (Mean monthly pressure)	At station level	Departures from normal	Mean Temperature (Degrees F.): Dry Bulb	Wet Bulb	Dew Point	Vapour tension in mm.	Relative humidity	Departures from normal	Cloud amt. (Tenths): Mean amount	Departures from normal	Mean wind speed in m.p.h.	Wind speed (m.p.h.): % of hours wind blew at 1 or less	11 or less	19 or less	Number of observations: Wind Direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
ORISSA (Contd.)																											
Balasore *	0830	20	1008.4	1006.1	-0.2	28.1	22.0	21.2	26.1	75	+1	(c)	-	(c)	0	51	288	96	21	2	11	74	103	9	23	15	0
	1730	"	1005.0	1002.8	-	27.5	24.0	22.2	22.4	74	-	4.4	-	(c)	0	53	244	16	11	7	75	120	57	7	4	57	0
Sambalpur	0830	148	1006.1	991.5	-0.0	26.3	21.6	19.1	22.5	66	-2	2.9	-0.3	#	-	-	-	24	39	19	25	51	64	13	4	105	0
	1730	"	1004.6	989.1	-	29.6	22.8	17.2	20.7	55	-	2.8	-	#	-	-	-	19	21	5	14	28	63	5	14	197	0
Angul	0830	139	1008.7	993.0	-0.4	25.6	22.6	20.9	25.4	76	+4	4.5	+0.8	4.1	0	0	343	25	36	22	44	24	27	108	39	21	0
	1730	"	#	#	-	29.1	23.5	20.6	24.8	61	-	4.0	-	4.0	0	0	343	32	55	26	65	26	30	65	44	23	0
Cuttack	0830	27	1008.8	1005.8	-0.7	26.3	23.5	21.9	27.0	76	0	3.9	+0.2	3.7	0	8	246	10	25	16	6	31	92	37	37	112	0
	1730	"	1005.2	1002.2	-	29.7	24.4	21.7	24.4	64	-	4.1	-	7.3	0	21	230	1	18	29	18	103	67	22	13	95	0
Chandbali	0830	6	1008.8	1008.1	-0.3	26.4	23.3	22.0	22.2	77	+1	3.9	+0.1	7.8	0	15	332	45	14	25	32	51	83	30	67	19	0
	1730	"	1005.3	1004.8	-	27.8	23.8	21.8	24.7	71	-	4.0	-	9.5	0	38	309	13	52	79	116	37	30	5	15	19	0
Bolangir	0830	190	1008.7	987.2	-	26.8	22.4	20.0	24.1	68	-	3.3	-	5.0 (a)	0	0	356	49	37	14	50	109	75	6	16	5	0
	1730	"	1004.6	983.5	-	30.2	23.4	19.7	23.6	57	-	4.0	-	4.5 (a)	0	0	348	73	53	15	30	72	57	13	32	13	3
Phulbani	0830	464	1007.1	955.4	-	23.4	20.3	18.6	22.0	76	-	2.7	-	0.3	0	0	31	0	2	0	2	1	15	11	0	335	0
	1730	"	1002.7	952.1	-	27.8	21.6	18.0	21.1	59	-	3.1	-	0.2	0	0	19	1	0	0	4	1	8	5	0	347	0
Titlagarh	0830	211	1008.9	985.2	-	26.6	22.0	19.3	23.0	67	-	2.4	-	3.6	0	0	343	11	38	6	57	41	168	0	22	23	0
	1730	"	1004.7	981.4	-	30.5	23.2	19.1	22.7	55	-	3.0	-	3.4	0	0	307	20	84	2	31	13	99	1	57	59	0
Bhubaneswar	0230	46	1006.5	1001.3	-	23.9	22.5	21.8	26.7	88	-	2.9	-	11.5	0	60	258	17	21	19	7	50	159	16	27	48	0
	0530	"	1007.1	1001.8	-	23.4	22.2	21.5	26.4	90	-	3.6	-	9.2	0	43	282	29	30	17	10	47	112	41	39	41	0
	0830	"	1008.9	1003.7	0	27.0	23.5	21.7	26.6	73	-1	3.8	-0.2	12.9	0	82	266	33	44	12	7	44	132	35	40	18	1
	1130	"	1008.1	1002.9	-	30.3	23.9	20.4	26.7	57	-	3.7	-	15.2	0	108	248	23	42	37	13	50	134	27	30	10	0
	#1430	"																									
	1730	"	1005.6	1000.2	-	28.3	23.6	21.1	25.7	67	-	4.1	-	16.0	0	125	229	17	20	35	21	117	99	17	27	12	1
	2330	"	1007.7	1002.5	-	24.8	23.1	22.2	27.4	86	-	2.8	-	12.0	0	73	263	12	31	20	20	65	149	23	15	30	1
Puri	0830	6	1008.9	1008.1	-0.4	27.1	24.4	22.9	28.5	77	-1	4.0	+0.6	12.2	0	55	307	71	30	7	11	24	175	21	23	4	0
	1730	"	1005.7	1005.0	-	27.7	24.7	23.3	29.1	77	-	4.1	-	14.8	0	111	242	23	26	15	32	105	138	12	2	13	0
Gopalpur	0530	17	1007.0	1002.1	-	24.0	22.7	22.1	27.1	89	-	4.0	-	9.9	0	70	218	46	2	2	3	49	100	8	78	78	0
	0830	"	1009.0	1007.1	-0.2	26.1	23.7	22.5	27.8	81	+4	4.0	+1.3	12.6	0	91	228	68	1	5	3	71	102	2	67	-	0
	1130	"	1008.3	1006.4	-	29.2	24.9	22.8	28.4	68	-	3.9	-	15.9	0	111	245	33	18	32	42	131	78	3	19	10	0
	1730	"	1005.9	1003.8	-	27.5	24.6	23.2	29.0	78	-	4.7	-	17.5	0	144	207	9	17	44	43	124	97	10	6	15	1
	2330	"	1007.8	1005.9	-	25.4	23.8	23.0	28.5	88	-	3.5	-	12.5	0	106	182	23	3	7	10	72	126	9	38	78	0
Koraput (R)	0830	913																									
	1730	"																									
BIHAR PLATEAU																											
Banka	0830	149	1008.7	991.8	-0.5	24.9	21.1	18.8	23.0	70	+3	2.7	-0.1	4.5	0	0	250	16	24	28	92	14	39	25	12	116	0
	1730	"	1004.8	988.1	-	28.0	22.1	18.5	22.4	60	-	2.6	-	3.8	0	0	208	4	18	43	66	11	28	18	20	158	0
Daltonganj	#0830	221																									
	#1730	"																									
Hazaribagh	0830	611	-	948.6	-0.4	#	#	#	#	#	-	3.1	-0.3	8.0	0	9	298	22	26	15	33	39	58	26	88	59	0
	1730	"	-	937.6	-	#	#	#	#	#	-	3.6	-	4.8	0	16	324	59	22	26	26	30	16	9	152	26	0
Giridih	0830	257	1008.9	979.8	-	24.6	20.2	17.1	21.1	65	-	2.4	-	(b) 2.8	0	0	262	11	23	7	82	8	28	48	39	96	16
	1730	"	1004.6	976.1	-	27.9	23.0	16.3	19.9	53	-	2.6	-	(b) 2.8	0	0	143	4	18	22	37	8	4	13	24	221	11
Ranchi	0830	655	1007.9	933.6	-0.5	22.9	20.2	14.8	18.1	68	48	3.1	-0.2	1.5	0	0	289	35	32	27	8	28	23	5	58	137	0
	1730	"	1004.3	932.3	-	28.2	18.8	14.6	17.8	52	-	2.6	-	1.1	0	0	188	20	36	28	8	28	12	2	68	157	0

* Data not available for complete year, hence no normal values. (a) Data available for 334 days. (b) Data for 306 days.
(c) Data for 3[illegible] days. # Data not available.

Table XII - Summary of Observations at Field Bases for the year 1964

Sub-Division and Station	Hour of observation (Hrs. I.S.T.)	Station elevation in metres	Mean Pressure in millibars: At mean sea level or at the 8-p.m. (mean sea level) level, whichever is higher	At station level	Departure from normal	Mean Temperature in °F: Dry Bulb	Wet Bulb	Dew Point	Vapour pressure in mm.	Relative Humidity %	Departure from normal	Cloud Amt. (Oktas): Mean Amount	Departure from normal	Mean wind speed in m.p.h.	Wind speed (m.p.h.): 0 to 6	7 to 19	20 to 61	1 to 19	No. of observations: Wind Direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
BIHAR PLATEAU (Contd.)																												
Ranchi (A)	0530	652	1007.0	984.0	-	19.6	16.8	14.5	17.8	75	-	3.3	-	7.5	0	9	292	63	19	14	12	29	73	37	54	65	0
	0830	"	1008.0	986.0	-	23.0	18.3	14.9	18.4	64	-	3.4	-	8.5	0	23	312	53	43	22	15	40	68	36	58	31	0
	1130	"	1006.6	985.6	-	26.8	19.4	13.9	17.5	50	-	3.5	-	14.0	0	73	283	65	38	36	17	44	49	48	57	10	2
	#1430	"																										
	1730	"	1003.8	982.9	-	26.5	19.1	13.5	17.7	52	-	3.7	-	11.0	0	37	321	79	31	40	28	32	38	26	84	8	0
Jamshedpur	0830	129	1008.4	993.8	-0.6	25.0	20.9	18.4	22.3	68	-2	3.1	-0.4	4.0	0	0	298	16	15	35	18	8	35	114	57	68	0
	1730	"	1004.1	989.8	-	29.7	22.2	17.8	21.0	53	-	3.9	-	3.7	0	3	235	18	19	51	29	10	17	62	32	128	0
Jamshedpur (E.R.O.)	0530	142	1006.9	990.7	-	21.8	19.5	18.0	21.8	80	-	3.2	-	2.5	0	4	146	3	23	17	11	21	26	24	25	216	0
	0830	"	1008.6	992.7	-	25.3	20.7	17.8	21.6	65	-	3.2	-	4.6	0	3	267	7	27	15	19	40	55	55	52	96	0
	1130	"	1007.3	991.5	-	29.7	21.9	16.9	20.2	50	-	3.2	-	6.1	0	0	323	25	25	33	19	30	51	47	73	43	0
	#1430	"																										
	1730	"	1004.3	988.5	-	29.2	21.6	16.7	20.2	53	-	4.1	-	4.3	0	7	217	23	41	41	17	9	21	34	38	142	0
	2330	"	1007.1	991.0	-	24.0	20.5	18.3	22.1	73	-	2.8	-	3.1	0	2	186	5	47	38	10	19	16	17	36	178	0
Chaibasa	0830	226	1008.3	982.8	-0.5	24.9	20.9	18.5	22.3	69	-2	3.5	+0.2	2.8	0	0	264	0	50	0	21	6	172	4	11	102	0
	1730	"	1004.1	979.0	-	29.0	22.5	18.6	22.4	56	-	4.1	-	1.9	0	0	188	1	45	0	21	3	69	9	32	186	0
BIHAR PLAINS																												
Motihari	0830	66	1008.5	1000.9	-0.4	23.7	20.7	19.0	23.4	76	+4	2.7	-	(a) 2.2	0	0	233	9	31	103	40	2	11	19	18	116	0
	1730	"	1004.8	997.3	-	27.2	22.5	19.8	24.3	66	-	1.9	-	(b) 0.6	0	1	56	1	1	29	4	1	3	14	4	301	0
Forbesganj	0830	61	1009.1	1002.1	-	23.5	20.7	19.1	23.2	77	-	3.3	-	5.3	0	12	316	4	50	191	26	1	6	46	4	38	0
	1730	"	1005.0	998.2	-	27.3	22.3	19.4	23.5	63	-	2.7	-	3.4	0	2	263	1	14	95	35	1	6	102	11	101	0
Darbhanga	0830	49	1009.4	1003.8	+0.3	25.4	22.1	20.2	24.9	73	0	2.5	-0.3	4.3	0	5	287	2	41	94	21	6	5	33	10	154	0
	1730	"	1005.8	1000.3	-	28.8	24.9	23.1	29.5	72	-	2.3	-	3.6	0	3	127	1	24	56	11	1	1	19	17	236	0
Chapra	0830	58	1008.8	1002.2	-	25.3	21.2	18.7	23.0	69	-	2.5	-	3.3	0	0	302	11	74	38	48	1	86	11	35	64	0
	1730	"	1006.4	999.9	-	27.5	22.3	19.2	23.5	63	-	1.9	-	4.0	0	0	333	11	65	37	30	1	108	42	39	33	0
Purnea	0830	38	1009.1	1004.8	-0.4	23.9	21.0	19.3	23.7	76	-2	2.9	-0.1	3.3	0	1	304	6	30	176	6	7	31	47	2	61	0
	1730	"	1004.9	1000.7	-	27.4	22.3	19.4	23.7	64	-	2.6	-	3.4	0	0	247	10	33	85	17	12	30	53	7	119	0
Patna	0830	53	1008.5	1002.5	-0.5	24.2	20.3	17.8	21.7	69	+2	2.8	-0.1	7.0	0	6	341	9	98	55	21	26	59	64	15	[illegible]	0
	1730	"	1004.8	998.8	-	29.1	21.8	17.2	20.9	53	-	2.5	-	6.3	0	4	290	20	86	37	3	9	19	93	27	72	0
Patna (A)	0530	60	1006.3	999.4	-	20.5	18.7	17.5	21.5	83	-	3.0	-	#	-	-	-	8	18	70	30	15	23	31	11	160	0
	0830	"	1008.1	1001.3	-	24.3	20.3	17.7	22.2	68	-	3.0	-	#	-	-	-	8	17	81	35	14	44	56	33	55	3
	1130	"	1007.5	1000.7	-	28.9	21.6	16.9	20.9	52	-	3.1	-	#	-	-	-	21	33	75	51	12	36	57	57	22	2
	#1430	"												#														
	1730	"	1004.3	997.6	-	28.5	21.5	17.0	20.8	54	-	2.9	-	#	-	-	-	11	21	71	16	3	7	42	65	128	2
	2330	"	1006.6	999.7	-	22.8	19.9	18.0	22.1	76	-	2.1	-	#	-	-	-	4	9	73	29	8	11	28	23	181	0
Bhagalpur	0530	49	1007.1	1001.5	-	21.2	19.7	18.5	22.8	84	-	3.9	-	4.2	0	4	244	2	13	79	58	30	45	19	2	118	0
	0830	"	1008.8	1003.4	-0.1	24.8	21.1	18.9	23.3	71	+1	3.9	+0.7	5.9	0	15	278	3	16	82	63	18	53	33	19	73	0
	1130	"	1008.2	1002.7	-	28.8	22.3	18.3	22.8	56	-	3.8	-	8.3	0	31	312	7	25	94	58	11	34	75	38	23	1
	1730	"	1005.1	999.6	-	27.8	21.9	18.2	22.1	59	-	3.9	-	6.6	0	11	295	7	16	68	49	8	43	89	25	60	1
	2330	"	1007.5	1003.0	-	23.6	20.6	18.7	22.9	73	-	3.0	-	4.7	0	4	269	0	11	79	75	16	71	17	4	93	0
Bahsar	0830	37	1008.8	1004.5	-0.2	24.2	21.5	20.0	24.7	77	+4	3.4	-0.1	5.5	0	5	320	14	22	97	37	19	39	66	30	41	1
	1730	"	1004.9	1000.7	-	28.1	23.3	20.6	25.3	64	-	3.3	-	4.6	0	1	264	12	19	87	16	11	5	43	72	101	0
Ismail	0830	82	1008.2	999.8	-	23.2	21.7	19.6	24.2	74	-	1.8	-	3.3	0	0	341	8	33	131	37	8	0	56	66	23	0
	1730	"	1005.5	996.1	-	27.3	22.4	19.6	24.1	66	-	0.9	-	3.2	0	0	342	10	32	133	87	10	1	88	50	24	0
Banki	0830	107	1008.1	998.9	-	25.3	20.3	17.1	20.8	64	-	2.7	-	3.1	0	0	330	14	18	31	[illegible]	[illegible]	35	51	23	16	0
	1730	"	1004.2	995.2	-	28.7	23.3	15.8	19.7	48	-	[illegible]	-	4.6	0	0	336	44	37	48	[illegible]	4	17	159	[illegible]	[illegible]	0

(A) Accelerated. # Data not available for complete year, hence no normal values. (a) Data available for 360 days. (b) Data available for [illegible] days. Full month data are not available for [illegible]

Table III - Summary of Observations at Pilot Bases for the year 1944

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean Pressure in millibars: At mean sea level or ht. at 6 p.m. of nearest station level, inches level	Mean Pressure in millibars: At station level	Mean Pressure in millibars: Departure from normal	Mean Temperature °C: Dry Bulb	Mean Temperature °C: Wet Bulb	Mean Temperature °C: Dew Point	Vapour pressure in mm.	Relative Humidity %	Departure from normal	Cloud Amt. (Octas): Mean Amount	Cloud Amt. (Octas): Departure from normal	Mean wind speed in m. per hour	Wind speed (m.p.h.): 61 or more	Wind speed (m.p.h.): 30 to 61	Wind speed (m.p.h.): 1 to 10	No. of observations Wind Direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
BIHAR PLAINS (Contd.)																											
Gaya	0230	116	1006.6	993.3	-	21.3	18.7	17.0	20.9	78	-	1.8	-	3.4	0	5	216	3	8	39	35	46	49	13	8	145	0
	0530	"	1006.9	993.5	-	20.3	18.1	16.6	20.5	81	-	2.4	-	3.8	0	3	237	2	10	43	41	65	58	14	7	126	0
	0830	"	1005.6	993.4	-0.1	24.9	20.3	17.3	21.2	66	+8	2.6	+0.1	6.6	0	23	280	2	8	48	47	76	97	50	21	63	0
	1130	"	1007.9	994.9	-	29.9	21.7	16.3	20.1	45	-	2.7	-	9.5	0	48	296	29	32	57	39	15	21	48	100	22	3
	1730	"	1004.7	991.7	-	29.2	21.4	16.3	20.1	52	-	2.9	-	7.6	0	36	270	32	60	46	[illegible]	8	3	20	109	60	0
	2330	"	1007.3	994.0	-	22.8	19.4	17.2	21.1	73	-	1.9	-	3.9	1	11	209	2	5	52	49	37	45	20	11	145	0
UTTAR PRADESH (EAST)																											
Kheri	0830	147	1008.5	990.7	-1.0	21.6	18.3	16.0	20.0	73	0	2.1	-0.3	2.6	0	0	279	5	8	110	15	0	3	133	5	87	0
	1730	"	1004.0	987.5	-	28.3	21.5	16.9	20.8	56	-	2.6	-	2.8	0	0	250	5	8	83	4	2	0	142	6	116	0
Bahraich	0830	124	1008.5	994.3	0	23.1	19.1	16.4	20.2	69	-1	2.9	+0.9	6.6	0	21	239	5	5	128	16	0	7	80	19	106	0
	1730	"	1004.9	991.0	-	28.5	21.3	16.4	20.1	52	-	3.0	-	4.6	0	8	216	5	2	63	11	1	10	117	15	142	0
Nutaqma	0830	99	1007.8	996.5	-	23.0	19.4	17.5	21.3	74	-	2.3	-	3.6	0	0	301	6	35	113	62	9	26		21	65	0
	1730	"	1004.4	993.4	-	28.6	21.4	16.7	20.4	54	-	1.9	-	2.5	0	0	242	3	25	67	34	4	58	19	32	124	0
Mardoi	0830	142	#	#	-	#	#	#	#	#	-	#	-	#	-	-	-	-	-	-	-	-	-	-	-	-	-
	1730	"	#	#	-	#	#	#	#	#	-	#	-	#	-	-	-	-	-	-	-	-	-	-	-	-	-
Gonda	0830	110	1008.5	996.9	-	24.2	19.3	16.8	20.8	67	-2	2.2	-0.6	2.8	0	0	258	7	0	140	0	0	2	31	78	108	0
	1730	"	1004.7	984.1	-	28.2	21.6	17.3	21.3	57	-	2.1	-	1.4	0	0	139	2	2	64	0	2	1	22	46	227	0
Lucknow	0830	111	1007.8	995.2	-0.7	22.9	19.0	16.3	20.1	70	+4	2.2	-0.2	240 (h)	0	0	238	3	34	30	23	13	12	97	26	120	0
	1730	"	1004.4	992.2	-	29.7	21.4	15.6	19.4	47	-	2.3	-	128 (g)	0	0	186	4	27	16	12	2	8	104	13	173	0
Lucknow (Amausi)	0230	128	1006.1	991.4	-	19.9	17.3	15.2	19.0	76	-	1.9	-	5.6	1	10	235	19	28	51	1[illegible]	6	14	65	49	120	0
	0530	"	1006.3	991.6	-	18.7	16.6	15.0	18.9	81	-	2.2	-	5.6	0	12	232	9	29	53	14	5	34	65	35	122	0
	0830	"	1008.1	993.4	-0.7	23.2	18.9	15.7	19.3	66	-7	2.5	+0.1	9.6	0	50	259	20	18	66	36	13	22	81	52	57	1
	1130	"	1007.7	993.4	-	29.2	20.9	14.8	18.6	47	-	2.6	-	13.3	1	100	246	26	18	50	53	26	19	79	76	19	0
	1430	"	#	#	-	#	#	#	#	#	-	#	-	#	-	-	-	-	-	-	-	-	-	-	-	-	-
	1730	"	1004.4	990.2	-	29.0	20.9	15.0	19.4	49	-	2.7	-	10.1	0	65	252	22	21	40	25	14	15	81	99	49	0
	2030	"	#	#	-	#	#	#	#	#	-	#	-	#	-	-	-	-	-	-	-	-	-	-	-	-	-
	2330	"	1006.1	992.2	-	21.4	18.1	15.7	19.3	73	-	1.8	-	3.3	0	21	224	18	20	41	20	10	21	76	39	121	0
Faizabad	0830	102	1007.9	996.3	-	23.2	19.3	16.6	20.6	69	-	2.7	-	3.4	0	0	259	10	22	35	70	9	11	75	14	118	4
	1730	"	1004.8	989.2	-	27.8	21.4	17.2	21.1	57	-	2.9	-	2.5	0	0	182	4	22	22	36	1	21	58	18	184	0
Gorakhpur	0830	77	1008.0	998.2	-0.8	24.6	20.1	17.1	21.2	63	-6	2.5	+0.4	2.5	0	0	297	16	44	101	16	13	32	59	15	69	1
	1730	"	1003.9	993.7	-	29.7	21.7	16.3	20.1	49	-	2.4	-	2.2	0	0	288	16	23	59	9	9	43	108	21	78	0
Gorakhpur (R.R.S.)	0230	78	1006.1	997.1	-	22.3	#	#	#	#	-	1.8	-	4.6	0	4	221	17	57	48	18	8	8	52	17	141	0
	0530	"	1006.9	997.8	-	21.2	#	#	#	#	-	2.3	-	4.6	0	2	230	30	63	46	13	9	8	44	19	134	0
	1130	"	1007.9	998.0	-	28.4	#	#	#	#	-	2.7	-	8.1	0	14	335	10	36	55	75	33	28	71	21	17	0
	1430	"	#	#	-	#	#	#	#	#	-	#	-	#	-	-	-	-	-	-	-	-	-	-	-	-	-
	2030	"	#	#	-	#	#	#	#	#	-	#	-	#	-	-	-	-	-	-	-	-	-	-	-	-	-
	2330	"	1006.9	997.2	-	23.7	-	-	-	-	-	1.6	-	4.1	0	6	215	24	45	38	23	14	17	49	11	145	0
Kanpur	0830	126	1008.2	993.3	-0.8	22.7	18.6	15.7	19.5	67	+2	2.0	+0.3	6.1	0	4	290	39	17	69	18	11	29	78	33	72	0
	1730	"	1003.9	990.5	-	30.2	21.4	15.4	19.1	43	-	2.1	-	7.7	0	16	302	57	10	61	4	10	16	113	47	48	0
Kanpur (A)	0530	126	1006.5	992.0	-	20.0	16.7	13.8	17.3	71	-	2.5	-	7.3	0	6	278	32	23	44	22	9	19	104	38	82	1
	0830	"	1006.2	992.7	-	23.9	18.6	14.2	18.0	59	-	2.6	-	11.3	0	28	303	32	19	38	42	16	25	118	29	33	2
	1130	"	1007.8	993.0	-	30.0	20.4	12.6	16.6	41	-	2.8	-	14.1	0	55	303	49	24	51	49	19	24	86	56	8	0
	1730	"	1004.6	990.6	-	29.9	20.0	11.7	15.8	41	-	2.9	-	12.2	0	45	308	48	27	49	22	5	18	92	96	13	1
	2330	"	1006.9	992.5	-	22.2	18.1	14.0	17.9	62	-	2.1	-	7.2	0	8	253	25	13	54	18	12	14	84	48	185	0
Sultanpur	0830	97	1009.7	998.0	-	20.8	19.4	16.3	20.3	83	-	2.1	-	[illegible]	0	8	287	1	15	48	31	0	24	38	15	118	0
	1730	"	1004.8	993.8	-	28.7	22.8	18.4	20.9	51	-	2.4	-	[illegible]	0	8	186	1	18	38	18	0	8	17	24	180	0

(h) Anemometer. (g) Dust storm, applicable for duration years, hours or minutes [illegible]

Table III - Summary of Observations at Field Stations for the year 1968

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean Pressure in millibars: At mean sea level or ht. in g.p.m. of standard isobaric level	Mean Pressure in millibars: At station level	Mean Pressure in millibars: Departure from normal	Mean Temperature °C: Dry Bulb	Mean Temperature °C: Wet Bulb	Mean Temperature °C: Dew Point	Vapour pressure in mb.	Relative Humidity %	Departure from normal	Cloud Amt. (Oktas): Mean Amount	Cloud Amt. (Oktas): Departure from normal	Mean wind speed km. per hour	Wind speed (km.p.h.): 48 or more	Wind speed (km.p.h.): 20 to 41	Wind speed (km.p.h.): 1 to 19	No. of observations Wind Direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
UTTAR PRADESH (EAST) (Contd.)																											
Azamgarh	0830	78	1008.0	999.1	-	25.6	20.9	19.2	24.3	78	-	2.4	-	6.8	0	1	360	26	23	104	3	5	7	190	3	5	0
	1730	"	1004.3	995.8	-	29.1	23.9	20.9	26.7	64	-	3.1	-	5.7	0	0	362	27	7	197	0	6	1	213	1	4	0
Fatehpur	0830	114	1009.4	993.4	-	24.0	19.0	15.3	19.0	62	-3	2.2	-0.3	5.7	0	2	320	12	36	50	26	15	60	74	49	44	0
	1730	"	1004.8	991.9	-	29.8	21.1	14.6	18.5	46	-	2.4	-	6.5	0	23	253	17	37	34	21	4	20	39	104	90	0
Ballia	0830	64	1009.3	1002.0	-	24.8	21.0	18.7	23.1	69	-	2.6	-	2.1	0	0	230	2	19	83	20	5	20	56	25	136	0
	1730	"	1005.7	998.4	-	28.6	23.4	20.3	25.2	62	-	2.5	-	(a) 1.3	0	0	148	1	12	59	12	1	6	42	15	217	0
Banda	0830	121	1009.2	995.3	-	24.9	19.1	14.8	18.7	59	-	2.0	-	2.2	0	0	300	2	32	4	46	9	142	27	38	66	0
	1730	"	1003.3	991.7	-	30.7	21.8	15.6	19.4	47	-	2.1	-	2.7	0	0	310	2	54	6	32	0	105	23	88	56	0
Allahabad (Kamrauli)	0230	98	1006.3	995.0	-	21.4	17.8	15.0	18.8	71	-	2.1	-	1.8	0	0	167	6	26	26	4	15	26	50	14	199	0
	0530	"	1006.6	944.8	-	20.3	17.3	14.9	19.2	74	-	2.5	-	2.1	0	1	193	10	36	26	14	17	30	52	9	172	0
	0830	"	1008.3	997.1	-0.6	24.1	18.9	15.0	18.8	62	-2	2.8	-0.1	3.8	0	1	283	9	34	46	12	23	43	103	14	82	0
	1130	"	1007.9	996.9	-	30.6	20.8	13.4	17.5	42	-	2.6	-	5.7	0	1	332	30	45	44	27	19	29	101	38	33	0
	#1430	"																									
	1730	"	1004.6	993.7	-	30.0	21.0	14.0	17.9	45	-	2.9	-	4.3	0	3	275	47	40	23	7	7	24	49	81	88	0
	#2030	"																									
	2330	"	1006.9	995.7	-	23.0	18.5	15.2	18.8	66	-	2.1	-	1.7	0	0	155	11	26	23	13	8	20	34	20	211	0
Varanasi (Babatpur)	0530	85	1007.5	997.5	-	21.0	17.8	15.1	18.8	72	-	2.4	-	4.4	0	5	206	1	24	52	9	12	64	42	2	155	5
	0830	"	1009.2	999.3	0.	24.4	19.7	16.4	20.3	66	+1	2.4	-0.4	9.0	0	16	304	3	21	57	28	11	89	77	19	46	15
	1130	"	1008.7	998.9	-	29.2	21.2	15.5	19.3	48	-	2.6	-	11.6	0	44	288	9	20	52	30	2	52	94	48	34	25
	1730	"	1005.5	995.8	-	29.6	21.3	15.4	19.1	49	-	2.6	-	9.6	0	23	292	18	22	48	23	2	19	109	57	51	17
	2330	"	1007.7	997.6	-	24.0	19.1	15.5	19.3	64	-	1.8	-	4.2	0	8	177	1	15	69	6	2	22	81	8	181	1
Varanasi	0830	76	1007.9	999.4	-0.7	23.8	19.8	17.0	20.9	68	+2	2.5	-0.2	2.3	0	0	347	8	47	27	24	11	48	157	25	19	0
	1730	"	1004.3	995.9	-	30.1	21.9	16.5	20.3	50	-	2.7	-	2.2	0	0	306	27	57	24	4	6	18	136	33	60	1
UTTAR PRADESH (WEST)																											
Mukhim	0830	-	-	-	-	14.8	10.6	6.2	10.7	62	-	3.3	-	#	-	-	-	-	-	-	-	-	-	-	-	-	-
	1730	-	-	-	-	16.0	11.2	6.5	10.8	58	-	3.7	-	#	-	-	-	-	-	-	-	-	-	-	-	-	-
Tehri	0830	-	-	-	-	17.6	14.7	12.7	15.8	76	-	2.8	-	0.6	0	0	66	21	15	14	1	7	5	1	2	300	0
	1130	-	-	-	-	24.1	16.8	11.4	14.7	49	-	3.0	-	1.5	0	0	143	28	21	16	19	24	13	12	8	3	2
	1730	-	-	-	-	25.9	17.3	11.1	14.4	44	-	5.7	-	3.8	0	1	231	13	12	13	51	60	40	24	15	134	4
Mussoorie	0830	-	-	-	-	12.9	8.9	4.4	9.5	59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1730	-	-	-	-	13.1	9.4	5.7	10.2	63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dehra Dun	0530	682	1007.8	931.0	-	17.0	14.3	12.1	15.3	75	-	3.3	-	1.2	0	1	124	56	50	2	3	2	1	7	4	241	0
	0830	"	1008.3	932.3	-0.4	19.9	15.9	13.0	16.3	68	0	3.1	-0.1	1.0	0	0	152	41	24	6	11	20	13	28	9	214	0
	1130	"	1007.5	932.8	-	25.4	18.0	12.6	15.8	50	-	3.4	-	2.3	0	0	243	11	6	5	42	46	58	53	12	123	0
	1730	"	1004.6	930.0	-	25.4	18.4	13.4	16.7	53	-	3.5	-	2.3	0	0	240	25	11	5	10	21	65	91	12	126	0
	2330	"	1008.1	931.4	-	19.4	15.8	13.1	16.3	69	-	2.7	-	1.9	0	1	168	66	67	10	4	5	4	9	4	197	0
[illegible]	0830	274	1008.8	977.4	-0.2	20.7	16.8	13.8	17.2	68	-1	2.9	+0.5	1.1	0	0	191	0	13	0	74	2	1	1	100	175	0
	1730	"	1003.3	974.9	-	27.7	19.6	13.4	17.1	47	-	2.8	-	1.3	0	0	218	0	9	1	51	0	1	0	156	148	0
[illegible]	0830	220	1008.8	977.9	-	20.5	16.9	14.5	18.0	72	-	2.8	-	3.4	0	0	258	12	16	89	49	1	6	46	38	108	0
	1730	"	1006.3	976.2	-	27.6	19.9	14.4	18.1	48	-	2.7	-	4.5	0	2	320	0	3	59	41	0	8	132	79	44	0
Mussoorie	0830	222	1009.6	983.7	+0.4	22.5	#	#	#	#	-	1.8	-0.8	(b) 1.1	0	10	320	35	10	80	30	23	2	80	88	34	2
Kotagiri	0830	173	1008.2	982.4	-0.5	22.9	18.5	15.4	18.1	67	-3	2.3	-0.3	4.1	0	18	320	35	33	31	77	29	12	24	78	26	0
	1730	"	1004.5	981.2	-	28.5	20.7	15.3	18.9	50	-	2.4	-	3.2	0	3	289	43	8	19	33	28	8	44	100	85	0

Data not available for complete year; hours as actual available. (a) Data for 365 days. (b) Data for 366 days.

Table III - Summary of Observations at Pilot Stations for the year 1964

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean Pressure in millibars: At mean sea level or ht. in m.p.m. of nearest standard isobaric level	Mean Pressure in millibars: At station level	Mean Pressure in millibars: Departure from normal	Mean Temperature °C: Dry Bulb	Mean Temperature °C: Wet Bulb	Mean Temperature °C: Dew Point	Vapour pressure in mb.	Relative Humidity %	Departure from normal	Cloud Amt. (Octas): Mean Amount	Cloud Amt. (Octas): Departure from normal	Mean wind speed in m. per hour	Wind speed (m.p.h.): 61 or more	Wind speed (m.p.h.): 20 to 61	Wind speed (m.p.h.): 1 to 19	No. of observations Wind Direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
UTTAR PRADESH (WEST) (Contd.)																											
Bareilly (P.B.O.)	0230	172	1006.3	986.9	-	21.9	17.6	14.6	18.2	66	-	1.6	-	4.0	0	3	28	22	22	86	13	4	3	87	46	83	0
	0530	"	1006.4	987.2	-	20.6	16.7	14.5	18.1	70	-	2.1	-	4.0	0	1	285	12	32	86	8	2	5	91	50	80	0
	1130	"	1007.9	985.5	-	27.4	19.8	15.2	18.9	51	-	2.6	-	6.6	0	16	329	21	12	84	48	7	12	75	86	21	0
	#1430	"																									
	#2030	"																									
	2330	"	1006.9	987.2	-	23.3	18.2	14.9	18.4	62	-	1.7	-	4.1	0	4	270	16	23	69	16	4	7	97	40	92	0
Aligarh	0830	187	1006.5	986.7	-	22.3	17.5	13.8	17.4	63	+6	2.6	+0.7	3.2	0	0	324	33	9	59	20	12	24	125	41	42	0
	1730	"	1005.0	983.7	-	29.4	20.3	13.5	17.0	43	-	2.8	-	2.7	0	0	312	70	5	45	3	20	6	118	44	54	1
Mainpuri	#0830	157																									
	#1730	"																									
Agra	0830	169	1008.7	989.6	0.0	23.0	18.2	14.6	18.6	62	+7	1.2	-1.1	0.3	0	0	18	0	0	1	1	0	2	0	13	348	1
	1730	"	1004.9	985.9	-	29.6	21.5	16.1	20.0	48	-	2.1	-	1.0	0	1	46	2	6	3	5	0	5	1	25	319	0
Agra (A)	0530	169	1007.0	987.5	-	18.6	16.2	14.1	18.1	78	-	2.1	-	6.5	0	9	235	24	17	31	19	8	12	[illegible]	76	122	1
	0830	"	1008.6	989.3	-	22.2	18.2	15.2	19.1	68	-	2.4	-	9.5	0	37	255	32	19	21	29	10	19	[illegible]	95	74	2
	1130	"	1008.3	989.4	-	29.2	21.1	15.4	19.7	47	-	2.5	-	14.0	0	77	267	64	18	25	36	21	18	[illegible]	105	22	3
	1730	"	1004.9	986.2	-	29.1	20.9	15.1	19.4	48	-	2.8	-	12.2	0	58	263	82	28	31	16	7	9	[illegible]	109	45	1
	2330	"	1007.3	988.2	-	21.7	17.9	15.2	18.8	70	-	1.9	-	6.8	0	25	191	32	17	76	31	2	10	[illegible]	43	150	4
Orai	0830	141	1010.5	994.5	-	25.8	20.6	17.3	21.4	62	-	2.0	-	2.3	0	0	354	10	104	1	29	2	53	7	143	12	0
	1730	"	1005.8	989.8	-	30.1	21.9	15.9	20.1	48	-	1.1	-	2.3	0	0	365	10	72	3	20	2	22	8	228	1	0
Jhansi	0830	252	1009.5	981.0	+0.1	24.0	17.9	13.0	16.6	54	-1	1.9	-0.2	1.6	0	0	244	97	8	40	0	6	10	19	64	122	0
	1730	"	1005.0	977.3	-	31.1	20.4	11.8	15.5	38	-	2.3	-	1.6	0	1	220	85	3	75	0	15	0	20	23	145	0
PUNJAB (INDIA) (including Delhi)																											
Pathankot	0530	312	1007.5	974.2	-	18.3	15.1	12.5	15.7	73	-	3.0	-	3.8	0	3	124	23	59	24	5	7	5	1	3	239	0
	0830	"	1008.6	973.1	+0.1	21.2	16.3	12.4	15.7	63	+2	2.5	-0.8	5.4	0	12	203	25	76	50	22	14	8	9	10	151	1
	1130	"	1008.6	973.6	-	26.3	16.7	12.0	15.5	46	-	3.5	-	8.7	0	18	305	19	39	28	24	85	75	30	19	43	4
	1730	"	1005.5	970.8	-	27.2	18.5	11.2	14.8	43	-	3.6	-	10.2	1	27	271	35	24	13	7	19	53	122	26	67	0
	2330	"	1007.9	972.3	-	20.4	16.3	13.2	16.5	68	-	2.7	-	4.2	0	14	120	18	59	26	5	6	7	8	5	232	0
Amritsar (Rajasansi)	0530	234	1007.5	980.3	-	16.4	14.6	13.2	16.9	83	-	2.4	-	5.7	0	12	198	28	18	71	26	3	14	13	40	156	0
	0830	"	1008.7	981.7	0.0	19.7	16.3	13.9	17.[illegible]	72	-	2.7	+0.2	6.5	0	21	210	21	20	57	48	14	11	22	38	135	0
	1130	"	1008.8	982.4	-	26.5	19.1	13.8	17.3	49	-	2.9	-	9.5	0	37	256	21	19	43	49	24	19	40	78	73	0
	#1430	"																									
	1730	"	1005.5	979.4	-	27.6	19.2	13.0	16.5	43	-	3.0	-	9.7	0	37	256	23	19	34	29	10	16	51	120	73	1
	#2030	"																									
Adampur (A)	0830	238	1004.9	980.1	-	19.4	16.2	14.5	16.2	77	-	3.0	-	6.9	0	26	170	26	14	35	62	11	4	10	33	170	1
	1730	"	1005.7	977.9	-	26.1	19.2	15.7	18.3	53	-	3.2	-	12.9	0	51	275	22	8	18	32	24	9	69	144	40	0
Ludhiana	0830	247	1008.3	979.9	-0.5	20.3	16.4	13.4	17.0	68	+4	2.5	+0.4	1.8	0	0	219	12	36	19	48	20	13	33	38	147	0
	1730	"	1005.1	977.6	-	28.1	20.0	14.2	17.5	49	-	2.3	-	2.9	0	1	296	26	30	15	45	7	23	27	124	69	0
Ferozepur	0830	200	1008.9	986.7	-	20.5	17.0	14.6	18.2	71	-	1.6	-	1.7	0	0	218	25	68	9	14	18	22	3	59	148	0
	1730	"	1006.2	983.7	-	27.3	20.2	15.4	19.0	32	-	1.3	-	1.6	0	1	221	49	51	11	6	5	5	2	93	144	0
Halwara (A)	0830	242	1009.3	981.6	-	20.4	16.6	13.9	17.4	70	-	2.6	-	[illegible]	0	26	258	30	18	29	61	22	16	20	88	83	0
	1730	"	1006.5	979.6	-	27.6	19.0	12.5	16.0	44	-	2.8	-	[illegible]	0	27	321	53	20	18	39	23	3	25	168	18	0
Chandigarh	0830	347	1008.0	968.3	-0.3	22.9	17.0	12.1	15.7	58	-5	2.0	[illegible]	2.1	0	0	169	0	18	0	48	0	0	0	111	[illegible]	0
	1730	"	1004.8	965.8	-	27.5	18.9	11.9	15.6	42	-	2.4	-	2.2	0	0	238	0	17	0	62	0	1	0	158	[illegible]	0
Ambala	0830	272	1007.9	977.1	-0.1	21.8	16.8	13.0	16.4	60	-2	1.8	-0.1	[illegible]	0	2	190	4	[illegible]	[illegible]	[illegible]	0	17	5	38	[illegible]	0
	1730	"	1004.8	974.2	-	28.0	19.7	13.5	16.9	46	-	0.8	-	[illegible]	0	[illegible]	[illegible]	[illegible]	49	[illegible]	[illegible]	[illegible]	[illegible]	12	89	[illegible]	0

(A) Aerodrome. # Data not available for complete year, hence not shown.

Table III - Summary of Observations at Fixed Hours for the year 1964

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean Pressure in millibars: At mean sea level or ht. in g.p.m. of mean isobaric surf. indicated	Mean Pressure in millibars: At station level	Mean Pressure in millibars: Departure from normal	Mean Temperature °C: Dry Bulb	Mean Temperature °C: Wet Bulb	Mean Temperature °C: Dew Point	Vapour pressure in mb.	Relative humidity %	Relative humidity %: Departure from normal	Cloud Amt. (Oktas): Mean Amount	Cloud Amt. (Oktas): Departure from normal	Mean wind speed km. per hour	Wind speed (km.p.h.): 41 or more	Wind speed (km.p.h.): 20 to 41	Wind speed (km.p.h.): 1 to 19	No. of observations Wind Direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
PUNJAB (INDIA) (including Delhi) (Contd.)																											
Ambala (F.B.O.)	0230	278	#	#	-	#	#	#	#	#	-	1.9	-	6.3	0	18	213	25	10	12	62	2	5	25	90	135	0
	0530	"	#	#	-	#	#	#	#	#	-	2.4	-	6.0	0	14	206	26	9	13	55	4	4	20	89	146	0
	1130	"	#	#	-	#	#	#	#	#	-	3.0	-	8.8	0	36	246	19	6	15	95	1	9	28	110	84	0
	1430	"	#	#	-	#	#	#	#	#	-	#	-	#	-	-	-	-	-	-	-	-	-	-	-	-	-
	2030	"	#	#	-	#	#	#	#	#	-	#	-	#		-	-	-	-	-	-	-	-	-	-	-	-
	2330	"	#	#	-	#	#	#	#	#	-	1.7	-	7.0	0	14	243	18	11	17	55	2	8	12	133	109	1
Ambala (A)	0530	274	1006.9	975.2	-	17.2	15.1	13.4	17.0	81	-	2.3	-	6.8	0	30	158	7	8	45	23	3	1	32	65	178	4
	0830	"	1008.0	976.7	-	20.6	16.8	14.0	17.5	71	-	2.8	-	9.5	0	46	209	13	9	40	58	6	3	25	93	111	8
	1130	"	1007.8	977.2	-	27.0	19.5	13.5	17.4	50	-	2.9	-	15.2	0	106	218	11	11	29	76	13	12	38	121	42	13
	1730	"	1004.7	974.1	-	27.4	19.4	13.2	17.0	48	-	2.8	-	13.9	0	78	232	5	7	27	28	13	7	78	136	56	7
	2330	"	1007.0	975.8	-	19.9	16.6	13.9	17.5	72	-	1.8	-	7.5	1	24	181	6	5	38	24	4	2	43	82	160	2
Patiala	0830	251	1008.7	980.1	-	21.6	17.3	14.2	17.4	66	-	2.8	-	7.0	0	12	222	4	4	3	85	0	1	0	137	132	0
	1730	"	1005.5	977.5	-	27.7	19.6	13.7	17.2	48	-	2.7	-	7.3	0	11	219	7	0	1	47	0	0	1	174	136	0
Bhatinda	0830	211	1008.5	984.4	-	23.8	19.5	16.9	20.8	66	-	1.3	-	2.1	0	3	172	1	19	2	67	2	16	2	66	191	0
	1730	"	1003.7	982.0	-	29.0	22.6	18.6	22.8	55	-	1.0	-	1.8	0	1	170	14	21	12	75	0	9	2	78	195	0
Karnal	0830	249	1008.0	980.1	-	22.7	17.9	14.4	18.1	62	-	#	-	#	-	-	-	-	-	-	-	-	-	-	-	-	-
	1730	"	1004.2	976.5	-	27.9	20.0	14.3	18.0	53	-	#	-	#	-	-	-	-	-	-	-	-	-	-	-	-	-
Hissar	0530	221	1007.5	981.9	-	18.0	15.9	14.3	18.1	80	-	2.0	-	3.4	0	1	260	21	17	25	38	19	37	53	51	105	0
	0830	"	1008.0	983.6	0.0	20.7	17.5	15.3	19.5	73	+16	2.0	+0.3	4.0	0	6	297	16	13	30	41	38	31	60	24	63	0
	1130	"	1008.5	983.8	-	28.4	21.6	17.3	21.8	54	-	2.4	-	5.3	0	4	336	28	23	30	59	22	52	56	70	26	0
	1730	"	1005.3	980.7	-	29.3	22.2	17.3	22.0	52	-	2.5	-	5.3	1	8	301	50	23	33	21	12	22	63	86	56	0
	2330	"	1007.6	982.4	-	21.2	17.7	15.1	19.0	70	-	1.5	-	4.0	0	2	254	28	28	37	30	11	17	38	67	110	0
New Delhi (Safdarjung)	0230	216	1007.0	982.2	-	20.8	17.0	13.8	18.3	67	-	1.8	-	6.3	0	15	255	14	17	33	24	7	41	71	63	96	0
	0530	"	1007.0	982.1	-	19.7	16.2	13.5	17.1	70	-	2.1	-	6.1	0	13	271	6	17	44	16	7	60	77	57	82	0
	0830	"	1008.7	983.9	-0.2	21.7	17.1	13.5	17.2	63	+ 5	2.6	0.0	9.4	0	39	298	8	20	43	25	11	51	121	58	29	0
	1130	"	1008.4	984.1	-	28.0	19.5	13.3	16.9	44	-	2.7	-	13.1	0	90	261	16	17	51	30	11	29	79	117	15	1
	#1430	"																									
	1730	"	1005.1	981.0	-	29.2	19.9	12.9	16.5	42	-	2.9	-	10.1	0	55	271	21	31	33	14	7	12	64	144	40	0
	#2030	"																									
	2330	"	1007.4	982.7	-	22.4	17.7	14.1	17.6	63	-	1.7	-	6.4	0	20	235	14	15	42	23	10	31	46	[illegible]	111	0
Palam (A)	0230	233	1006.5	980.2	-	20.2	16.1	13.0	16.9	65	-	1.7	-	8.4 (a)	0	21	290	33	25	29	60	19	57	58	30	54	0
	0530	"	1006.7	979.8	-	18.6	15.4	12.9	17.0	71	-	2.1	-	8.3	0	16	301	22	14	31	57	11	79	75	28	49	0
	0830	"	1011.1	982.1	-	21.1	17.0	13.5	17.2	66	-	2.7	-	8.9	0	28	300	15	8	23	50	17	72	93	50	38	0
	1130	"	1008.5	982.6	-	27.8	19.7	13.9	17.3	47	-	2.6	-	13.6	0	63	294	53	9	22	48	22	27	74	100	9	2
	#1430	"																									
	1730	"	1005.3	987.8	-	24.3	20.0	12.9	16.4	42	-	2.9	-	13.3	0	58	302	80	31	30	37	7	8	52	115	6	0
	#2030	"																									
	2330	"	1007.3	980.1	-	22.3	17.4	13.4	16.8	60	-	1.7	-	9.3	0	29	287	46	34	32	70	19	34	41	40	50	0
HIMACHAL PRADESH																											
Mandi	0830	761	1010.3	924.7	0.0	16.3	13.9	11.7	15.4	79	-3	3.6	0.0	0.2	0	0	20	0	3	0	6	0	[illegible]	0	7	346	0
	1730	"	1005.4	922.4	-	23.8	17.2	12.3	15.6	53	-	4.0	-	0.5	0	0	43	1	2	0	9	1	10	1	19	323	0
Bilaspur	0830	587	1009.1	934.5	-	18.8	16.1	14.3	17.4	77	-	#	-	2.3 (a)	0	0	21	0	3	8	2	1	7	0	0	340	0
	1730	"	1006.1	933.3	-	27.2	20.2	14.3	19.4	54	-	#	-	4.1 (d)	0	0	11	0	3	3	0	2	2	1	0	351	0
JAMMU AND KASHMIR																											
Srinagar	(B)0830	-																									
	(B)1730																										

Data not available for complete year, hours or normal period. (B) Between sub sunrise. (a) Data for 365 days. (d) Data for 366 days.

(A) Aerodrome.

Table XII - Summary of Observations at Fixed Hours for the year 19[illegible]

Sub-Division and Station	Hours of observation I.S.T.	Station elevation in metres	Mean Pressure in millibars: At mean sea level or ht. in g.p.m. of nearest standard isobaric level	Mean Pressure in millibars: At station level	Mean Pressure in millibars: Departure from normal	Mean Temperature °C: Dry Bulb	Mean Temperature °C: Wet Bulb	Mean Temperature °C: Dew Point	Vapour pressure in mbs.	Relative Humidity %	Departure from normal	Cloud Amt. (Octas): Mean Amount	Cloud Amt. (Octas): Departure from normal	Mean wind speed kts. per hour	Wind speed (km.p.h.): 63 or more	Wind speed (km.p.h.): 30 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations Wind Direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
JAMMU AND KASHMIR (Contd.)																											
Gilgit	(R)0830	-																									
	(R)1730	-																									
Skardu	(R)0830	-																									
	(R)1730	-																									
Leh	0530	3514	3112.3	665.9	-	-2.9	-5.9	-11.6	2.6	51	-	2.6	-	(a) 3.1	0	0	301	128	140	3	4	12	9	3	2	64	0
	0830	"	3115.3	665.8	+0.7	4.2	-0.7	-7.6	3.7	44	-8	2.8	-1.1	2.3	0	0	178	6	17	3	6	106	33	4	[illegible]	188	0
	1730	"	#	#	#	#	#	#	#	#	-	3.7	-	3.8	0	0	349	4	46	4	20	49	125	36	65	17	0
Srinagar	0830	1587	1503.5	841.8	+0.4	9.6	7.8	6.5	10.8	82	-2	3.8	0.0	2.0	0	0	185	10	6	23	66	13	4	20	41	181	0
	1130	"	1447.3	841.6	-	14.4	10.3	7.0	11.1	64	-	4.0	-	2.7	0	0	237	39	[illegible]	19	22	28	4	35	78	129	0
	#1430	"																									
	1730	"	1426.5	839.3	-	15.6	10.6	7.0	11.0	58	-	4.3	-	3.4	0	2	251	45	10	9	31	15	16	40	87	113	0
	#2030	"																									
Srinagar (A)	0530	1666	1490.1	832.3	-	7.6	6.0	4.4	9.3	80	-	3.9	-	1.7	0	1	102	4	4	8	8	20	15	15	29	263	0
	0830	"	1496.0	833.5	-	10.0	7.4	5.1	9.8	73	-	4.2	-	2.3	0	0	173	18	23	16	23	20	5	13	55	193	0
	1130	"	1497.3	833.7	-	13.8	9.4	5.9	10.2	62	-	4.2	-	3.6	0	3	211	43	36	24	18	7	4	13	71	152	0
	1730	"	1469.3	831.1	-	15.4	9.8	5.1	9.5	53	-	4.6	-	5.8	0	19	208	31	14	15	15	11	8	22	116	139	1
	2330	"	1487.5	832.6	-	9.9	7.4	5.2	9.8	74	-	3.3	-	1.2	0	0	66	10	4	3	5	5	2	8	28	300	1
Gulmarg	%0830																										
	%1730																										
Quazigund	0830	-	-	-	-	#	#	#	#	#	-	4.3	-	1.7	0	0	221	4	15	8	103	21	32	23	15	145	0
	1730	-	-	-	-	14.6	#	#	#	#	-	4.8	-	4.8	0	14	270	7	24	9	50	30	93	42	29	82	0
Banihal	0830	-	-	-	-	11.6	#	#	#	#	-	3.4	-	4.2	3	20	61	17	2	7	0	6	0	2	50	282	0
	1730	-	-	-	-	[illegible].7	11.4	6.7	10.6	51	-	4.3	-	6.4	0	19	194	14	0	13	18	63	5	13	85	153	0
Jammu	0830	272	-	-	-	20.8	16.1	12.6	16.0	65	+7	3.0	+0.5	6.6	0	0	343	88	133	19	13	17	7	4	11	23	51
	1730	"	-	-	-	26.3	19.0	13.4	16.7	49	-	2.9	-	3.4	0	0	260	36	39	6	12	38	28	45	37	106	19
Jammu (A)	0530	292	1007.5	973.7	-	18.9	15.1	11.8	15.1	67	-	2.9	-	6.3	0	7	249	15	167	32	16	11	3	6	6	110	0
	0830	"	1008.5	975.1	-	20.6	16.1	12.5	15.9	63	-	3.3	-	6.6	0	10	287	17	157	42	34	15	8	8	15	69	1
	1130	"	1008.7	975.7	-	25.5	17.9	12.4	15.8	49	-	3.4	-	7.5	0	19	279	15	41	15	49	62	31	48	37	68	0
	1730	"	1005.7	972.9	-	26.9	18.8	12.7	15.8	47	-	3.5	-	7.0	0	19	247	12	26	8	19	29	34	98	40	100	0
	2330	"	1007.8	974.2	-	20.8	16.3	12.6	15.9	63	-	2.3	-	4.8	0	13	209	12	146	33	13	6	1	7	4	144	0
RAJASTHAN (WEST)																											
Ganganagar	0530	177	1007.0	986.6	-	17.6	15.4	12.6	16.4	72	-	1.8	-	2.8	0	1	175	14	26	31	29	18	39	8	11	190	0
	0830	"	1008.3	986.0	-	20.3	16.2	13.1	16.9	66	-5	1.7	+0.1	3.3	0	3	243	19	27	38	49	23	62	14	14	120	0
	1130	"	1008.4	986.5	-	28.7	19.7	13.0	16.7	41	-	2.6	-	6.1	0	5	316	29	38	29	48	35	56	43	43	45	0
	1730	"	1004.9	983.2	-	30.5	20.1	13.0	16.2	38	-	2.1	-	3.2	0	0	238	49	23	23	17	6	36	22	62	128	0
	2330	"	1007.3	987.0	-	22.0	17.0	13.3	16.8	61	-	1.2	-	3.0		2	182	31	40	40	24	12	25	4	8	182	0
Anupgarh	#0830																										
	#1730																										
Mahajan	#0830																										
	#1730																										
Churu	0630	291	1009.2	975.8	-	21.0	15.7	11.2	15.6	59	-	2.0	-	7.4	0	39	243	14	3	52	18	58	40	88	17	84	0
	1730	"	1005.0	972.8	-	30.5	20.2	10.9	14.0	35	-	2.5	-	9.6	0	38	306	132	17	21	4	15	11	80	64	22	0
Bikaner	0830	224	1008.6	982.9	-0.3	21.3	15.5	9.6	15.0	51	-2	0.9	-0.8	3.8	0	6	260	13	21	13	56	15	79	46	23	100	0
	1730	"	1004.5	979.8	-	31.9	19.3	8.5	13.7	30	-	1.0	-	5.0	0	9	317	55	45	11	22	4	75	40	68	46	0

(a) Anemometer. # Data not available for complete year, known for usual months. Cal Data for 365 days. (R) Reduced and Retarded.

% Seasonal Data June to September.

Table III - Summary of Observations at Fixed Hours for the year 1956

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean Pressure in millibars: At mean sea level or ht. in c.p.m. of nearest standard isobaric level	Mean Pressure in millibars: At station level	Mean Pressure in millibars: Departure from normal	Mean Temperature °C: Dry Bulb	Mean Temperature °C: Wet Bulb	Mean Temperature °C: Dew Point	Vapour pressure in mm.	Relative Humidity %	Departure from normal	Cloud Amt. (Octas): Mean Amount	Cloud Amt. (Octas): Departure from normal	Mean wind speed in m. per hour	Wind speed (m.p.h.): 65 or more	Wind speed (m.p.h.): 30 to 61	Wind speed (m.p.h.): 1 to 19	No. of observations Wind Direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
RAJASTHAN (WEST) (Contd.)																											
Bikaner (P.B.O.)	0530	224	1007.1	981.2	-	18.8	14.3	9.7	14.4	59	-	1.7	-	2.6	0	5	125	9	8	1	5	18	64	16	7	236	2
	1130	"	1008.2	983.1	-	29.6	18.8	9.4	14.2	34	-	2.1	-	5.6	0	5	289	20	40	10	34	46	75	44	17	72	8
	2330	"	1007.3	981.7	-	23.0	16.1	10.0	14.1	47	-	1.5	-	4.4	0	3	174	22	37	8	11	20	57	9	13	189	0
Nagaur	0830	29	1008.9	975.2	-	24.6	18.8	14.4	18.0	56	-	2.0	-	7.3	0	11	351	32	40	39	42	67	85	32	23	4	0
	1730	"	1004.7	971.9	-	30.4	21.8	17.4	20.2	47	-	2.4	-	7.3	0	15	351	51	37	17	11	60	80	44	66	0	0
Phalodi	0830	234	1008.8	982.1	-	21.7	16.3	11.4	16.8	55	-	1.9	-	8.4	0	28	306	26	22	17	45	64	104	46	10	32	0
	1730	"	1003.6	980.0	-	32.0	20.6	11.8	13.8	32	-	2.1	-	11.8	0	51	310	61	51	13	11	24	91	68	42	5	0
Jaisalmer	0830	242	1008.0	980.5	-	20.7	16.6	12.8	16.2	58	-	2.1	-	10.7	0	50	230	36	25	13	8	101	86	11	0	56	0
	1730	"	1004.1	977.5	-	32.1	23.8	17.1	21.5	44	-	2.3	-	12.0 (a)	0	50	294	80	35	2	4	92	84	18	29	21	0
Jodhpur	0230	224	1006.9	981.5	-	23.0	16.3	10.4	14.7	47	-	1.7	-	9.4	0	28	301	57	100	3	5	16	83	61	4	37	0
	0530	"	1007.2	973.2	-	21.2	15.6	10.2	15.0	54	-	2.2	-	8.2	0	16	308	43	116	7	2	11	85	54	6	42	0
	0830	"	1008.9	983.3	+0.9	22.5	16.6	10.4	15.5	51	-1	2.5	-0.1	8.9	0	18	287	25	109	4	6	9	91	55	5	61	1
	1130	"	1008.7	983.7	-	29.4	19.4	10.7	15.5	39	-	2.4	-	10.0	0	35	289	13	47	46	24	21	105	51	16	42	1
	#1430	"																									
	1730	"	1004.8	971.7	-	32.4	20.1	9.5	14.1	30	-	2.6	-	10.0	0	36	297	39	47	13	7	11	102	74	40	33	0
	#2030	"																									
	2330	"	1007.5	981.7	-	25.3	17.0	9.8	14.6	43	-	2.0	-	9.0	0	19	306	56	91	5	4	10	92	55	12	41	0
Barmer	0530	194	1006.5	984.4	-	22.0	18.0	14.4	18.9	65	-	1.4	-	3.8	0	0	293	17	5	2	7	16	54	76	116	73	0
	0830	"	1008.3	986.1	-0.5	22.8	18.7	15.3	19.8	65	+4	2.1	-0.2	3.4	0	1	285	21	3	1	12	13	69	46	121	80	0
	1130	"	1008.2	986.5	-	29.4	21.8	16.6	21.1	49	-	2.1	-	4.1	0	1	325	46	41	17	27	29	84	34	48	40	0
	1730	"	1004.4	982.9	-	32.7	23.4	17.5	21.9	44	-	2.4	-	3.2	0	3	300	35	23	9	13	27	91	45	80	63	0
	2330	"	1007.0	985.1	-	26.1	19.9	16.1	19.7	54	-	1.0	-	3.8	0	2	285	16	5	3	4	8	75	54	112	79	0
Munabao	#0830	301																									
	#1730	"																									
RAJASTHAN (EAST)																											
Pilani	#0830	301																									
	#1730	"																									
Sikar	0830	433	1008.7	960.2	-	22.6	16.9	12.0	15.1	54	-	1.5	-	1.0	0	0	137	11	9	5	35	0	14	53	10	229	0
	1730	"	1004.2	957.0	-	30.0	19.5	9.9	14.6	36	-	2.1	-	1.7	0	0	211	35	7	14	7	6	9	83	30	155	0
Alwar	0830	271	1007.6	976.8	-	22.6	18.4	15.5	19.2	66	-	2.4	-	1.4	0	0	160	16	42	18	12	15	25	10	15	204	4
	1730	"	1004.5	974.5	-	29.5	21.7	16.9	20.4	50	-	2.9	-	1.1	0	0	162	37	23	10	9	1	25	15	39	204	3
Jaipur (Sanganer)	0230	390	1006.8	962.6	-	20.7	15.4	10.2	14.5	55	-	1.5	-	3.8	0	2	204	46	41	55	3	1	10	19	31	160	0
	0530	"	1007.2	962.7	-	19.4	14.8	10.3	14.6	59	-	1.9	-	3.4	0	1	187	40	21	59	3	1	4	21	33	178	1
	0830	"	1008.5	964.5	1.0	22.8	16.5	11.0	15.0	51	-2	2.2	0.0	5.9	0	16	213	16	17	66	10	3	6	45	66	137	0
	1130	"	1007.8	964.7	-	28.5	18.7	9.8	14.3	36	-	2.4	-	8.7	0	2	318	27	9	46	45	23	21	72	74	46	2
	#1430	"																									
	1730	"	1004.2	961.3	-	29.8	18.8	8.9	13.2	33	-	2.9	-	6.1	0	2	253	28	12	21	6	6	16	67	99	111	0
	#2030	"																									
	2330	"	1007.3	963.3	-	22.2	16.1	10.3	14.5	50	-	1.8	-	3.5	0	3	181	45	28	48	1	0	11	24	27	182	0
Dholpur	0830	176	1008.2	988.1	-	23.0	17.6	13.3	17.2	59	-	2.1	-	3.7	0	6	225	21	15	5	25	18	19	73	55	135	0
	1730	"	1004.0	984.7	-	30.1	20.3	12.5	16.6	43	-	2.5	-	3.9	0	5	215	42	26	7	10	6	10	63	56	148	0
Ajmer	0830	486	1009.3	954.6	-0.6	21.4	15.6	10.8	14.7	55	+2	2.6	+0.5	7.2	0	47	187	8	25	6	10	76	70	24	15	132	0
	1730	"	1004.6	951.6	-	29.7	18.1	8.4	13.0	32	-	3.1	-	8.9	0	25	272	34	26	2	17	18	78	83	49	58	0
Tonk	0830	272	1008.0	976.9	-	22.2	17.9	14.5	18.8	63	-	2.2	-	6.6	0	3	338	22	24	21	44	10	36	86	119	4	0
	1730	"	1003.5	973.6	-	30.5	22.1	16.7	20.4	47	-	2.4	-	4.9	0	3	358	39	28	23	21	14	33	84	126	4	0

Data not available for complete year, based on several years.

(a) Data for 266 days.

Table XII - Monthly of Observations at Field Stations for the year 1964

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean Pressure in millibars: At mean sea level or ht. in c.p.s. of nearest standard isobaric level	At station level	Departure from normal	Mean Temperature °C: Dry Bulb	Wet Bulb	Dew Point	Vapour pressure in mb.	Relative Humidity %	Departure from normal	Cloud Amt. (Okta): Mean Amount	Departure from normal	Mean wind speed kn. per hour	Wind speed (kn. p.h.): 48 or more	48 to 41	1 to 19	No. of observations: Wind Direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
RAJASTHAN (EAST) (Contd.)																											
Bhilwara	0830	425	1009.2	961.4	-	22.7	16.3	10.0	14.4	48	-	3.6	-	5.9	0	11	236	36	30	4	9	14	86	29	38	120	0
	1730	"	1004.8	932.3	-	30.4	19.0	8.3	13.0	33	-	3.8	-	6.4	0	15	271	80	32	38	16	8	21	67	41	80	1
Kota (A)	0530	274	1007.2	973.4	-	21.4	14.0	10.1	14.5	53	-	2.2	-	8.9	0	38	193	7	16	10	3	14	107	156	18	33	0
	0830	"	1009.0	978.1	-	24.3	16.8	10.5	14.8	47	-	2.7	-	9.8	0	44	272	17	19	34	14	3	44	138	47	30	0
	1130	"	1008.6	978.2	-	29.2	18.8	9.9	14.3	35	-	2.7	-	11.5	0	56	303	32	39	88	28	7	27	73	65	7	0
	1730	"	1004.8	974.6	-	31.3	19.3	8.5	13.0	31	-	3.3	-	13.0	0	44	305	69	80	34	5	4	51	61	45	17	0
	2330	"	1007.6	974.1	-	24.4	16.9	9.6	14.7	45	-	2.3	-	9.5	0	39	300	7	10	22	10	21	122	120	27	27	0
Kota	0830	257	1008.8	979.7	-0.6	24.7	18.0	12.6	16.6	52	+1	2.6	+0.3	6.8	0	28	179	9	7	10	8	6	23	75	69	159	0
	1730	"	1004.8	976.5	-	30.8	20.3	12.0	15.7	37	-	3.1	-	6.3	0	22	184	(a) 30	18	9	2	3	44	47	52	160	0
Bringpura (Jamwa Dam)	0830	295	1009.0	975.7	-	22.3	18.4	15.7	19.0	68	-	2.3	-	3.7	0	3	195	3	3	4	9	111	44	24	0	168	0
	1730	"	1005.4	972.7	-	29.7	22.7	18.9	22.3	54	-	2.4	-	3.6	0	2	230	36	5	2	6	38	39	88	17	134	1
Chambal (Rawat Bhatt Dam)	0830	351	1009.2	969.5	-	22.3	17.1	12.6	16.4	57	-	1.9	-	3.6	0	9	172	15	15	1	6	9	41	33	51	135	0
	1730	"	1004.6	966.2	-	30.8	19.8	10.4	14.5	35	-	2.4	-	1.7	0	23	327	37	76	15	16	27	52	38	89	16	0
Udaipur	0230	582	1008.7	950.0	-	19.7	15.7	12.6	16.0	67	-	1.8	-	1.4	0	0	169	4	1	0	3	17	31	9	4	297	0
	0530	"	1008.7	943.1	-	18.2	14.9	12.3	15.7	70	-	1.9	-	1.2	0	0	54	3	1	2	3	9	22	7	6	312	1
	0830	"	1009.6	944.7	-0.3	22.0	16.5	12.3	15.8	58	0	2.3	+0.5	1.4	0	0	98	11	5	1	0	19	35	15	12	268	0
	1130	"	1008.4	944.9	-	28.6	18.9	11.8	15.3	43	-	2.4	-	3.3	0	0	245	13	27	40	11	42	59	37	15	121	1
	1730	"	1005.2	942.0	-	28.9	19.3	12.4	15.9	42	-	3.1	-	3.8	0	0	232	12	23	12	6	32	89	35	22	134	0
	2330	"	1009.0	943.9	-	21.3	16.5	12.9	16.2	63	-	1.7	-	1.5	0	2	79	3	2	2	0	12	45	11	6	283	0
Jhalawar	0830	321	1008.6	972.3	-0.7	22.9	17.0	12.1	15.1	55	-4	1.7	-0.8	5.6	0	17	251	28	26	13	10	9	67	72	43	98	0
	1730	"	1004.0	968.7	-	31.4	19.5	8.9	13.6	32	-	2.2	-	8.0	0	29	313	53	63	6	8	5	64	87	56	24	0
MADHYA PRADESH (WEST)																											
Gwalior	0230	207	1006.7	983.0	-	20.1	15.3	12.4	16.3	66	-	2.0	-	3.4	0	11	159	13	6	13	16	28	33	37	24	196	0
	0530	"	1007.0	983.1	-	19.1	15.4	12.1	16.1	69	-	2.5	-	3.3	0	5	197	12	8	13	20	40	35	40	32	164	1
	0830	"	1008.5	985.0	-0.2	23.9	17.7	12.7	16.7	55	0	2.7	+0.3	4.7	0	6	235	23	15	12	22	31	24	51	63	125	0
	1130	"	1008.1	985.0	-	29.7	19.7	11.6	15.8	39	-	2.8	-	9.1	0	23	321	60	33	28	29	23	27	47	97	22	0
	#1430	"																									
	1730	"	1004.7	981.7	-	30.0	20.0	11.9	16.0	40	-	3.1	-	7.5	0	20	301	74	52	20	17	10	12	33	97	45	0
	#2030	"																									
	2330	"	1007.4	983.7	-	21.6	16.7	12.6	16.5	62	-	2.1	-	3.7	0	7	176	18	3	16	21	25	38	35	27	183	0
Shivpuri	0830	235	1008.9	982.1	-0.1	22.5	17.1	12.5	16.5	58	-2	2.4	-0.7	5.8	0	10	295	37	29	15	44	74	53	29	22		2
	1730	"	1004.5	978.5	-	30.7	20.1	11.4	15.7	38	-	3.2	-	9.7	0	33	316	115	35	10	7	17	34	61	69	17	1
Shivpuri	0830	466	1008.5	956.6	-	23.4	16.4	10.5	14.8	51	-	2.1	-	6.5	0	15	270	22	42	29	27	18	41	73	32	81	1
	1730	"	1004.4	953.6	-	28.8	18.1	9.1	13.8	37	-	2.8	-	6.2	0	5	324	37	75	14	7	3	15	64	113	37	1
Lowgong	0830	229	1008.7	982.6	-0.6	22.5	17.7	13.9	17.7	63	-1	2.7	-0.2	(a) 4.1	0	1	238	5	15	20	6	45	98	32	18	126	0
	1730	"	1004.8	979.5	-	30.1	20.3	12.4	16.7	42	-	2.7	-	2.6	0	0	195	19	33	6	2	0	45	23	67	171	0
Guna	0530	476	1008.0	953.5	-	17.9	14.3	11.1	15.1	69	-	2.6	-	3.9	0	23	263	13	20	70	78	20	40	70	15	80	0
	0830	"	1008.8	955.4	-0.4	23.5	17.1	11.8	16.0	54	-5	2.7	+0.5	6.8	0	26	317	23	19	73	61	32	13	103	17	23	0
	1130	"	1007.6	955.3	-	28.7	19.5	11.7	16.0	40	-	3.0	-	11.4	0	58	305	30	33	51	37	17	2	79	81	3	8
	1730	"	1004.2	952.1	-	29.7	19.3	11.2	15.6	40	-	3.4	-	11.0	0	51	307	65	34	18	22	13	26	82	98	8	0
	2330	"	1008.2	954.3	-	20.8	15.8	11.7	15.7	61	-	2.0	-	5.2	0	14	264	27	22	30	49	38	34	57	23	86	0
Bilaspur	0830	496	1009.7	954.1	-0.3	22.3	15.9	10.1	14.6	51	-6	2.9	+0.5	9.3	0	48	284	11	87	46	10	6	36	103	12	34	21
	1730	"	1005.1	951.1	-	30.1	18.4	8.3	13.2	33	-	3.2	-	10.7	0	55	281	11	78	14	2	2	55	119	29	30	26
Raipur	0830	382	1009.2	966.0	-	21.7	16.9	12.8	16.7	62	-	2.0	-	4.1	0	17	285	62	11	29	24	32	29	88	27	64	0
	1730	"	1004.9	963.1	-	30.6	20.5	12.3	16.3	40	-	1.7	-	7.1	0	12	339	138	20	22	8	14	26	98	30	15	0

Data not available for complete year, hence no annual means. (A) Aerodrome (a) Data for 363 days.

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean Pressure in millibars: At mean sea level or at the level of the mean station level	Mean Pressure in millibars: At station level	Mean Pressure in millibars: Departure from normal	Mean Temperature °C: Dry Bulb	Mean Temperature °C: Wet Bulb	Mean Temperature °C: Dew Point	Vapour pressure in mm.	Relative Humidity %	Departure from normal	Cloud Amt. (Octas): Mean Amount	Cloud Amt. (Octas): Departure from normal	Mean wind speed kt. per hour	Wind speed (m.p.h.): 43 or more	Wind speed (m.p.h.): 20 to 42	Wind speed (m.p.h.): 1 to 19	No. of observations Wind Direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
MADHYA BHARAT (WEST) (Contd.)																											
Sagar	0830	551	1008.5	947.3	-0.4	23.7	16.8	10.7	15.0	51	-3	2.6	-0.1	#	-	-	-	-	-	-	-	-	-	-	-	-	-
	1730	"	1004.2	944.3	-	28.7	18.1	9.1	13.8	38	-	3.0	-	#	-	-	-	-	-	-	-	-	-	-	-	-	-
Satna	0830	486	1009.5	955.0	-0.1	22.7	18.0	14.5	18.2	65	-2	3.0	-0.5	11.0	0	42	307	17	78	55	13	13	51	102	20	17	0
	1730	"	1005.0	952.1	-	30.2	21.3	15.8	19.2	46	-	3.6	-	11.0	0	24	335	26	73	25	3	3	79	95	35	7	0
Bhopal (Sehoreganj)	0230	523	1007.3	948.6	-	21.0	15.6	10.7	14.6	57	-	2.6	-	9.0	0	29	298	51	52	23	28	15	44	75	39	39	0
	0530	"	1007.8	948.9	-	19.8	15.1	10.9	14.7	62	-	3.2	-	8.7	0	19	305	37	57	23	30	12	45	81	39	42	0
	0830	"	1009.0	930.8	-0.4	23.7	17.1	11.8	15.7	52	-5	3.4	+0.6	11.7	0	66	257	18	51	25	47	10	29	80	63	43	0
	1130	"	1007.9	950.7	-	28.9	19.0	11.5	15.4	40	-	3.3	-	13.4	0	73	288	27	48	39	60	19	35	72	61	5	0
	#1430	"																									
	1730	"	1004.4	947.5	-	28.7	18.9	10.5	14.5	37	-	3.9	-	12.0	0	68	282	71	53	12	15	12	37	72	78	16	0
	#2030	"																									
	2330	"	1007.8	949.8	-	22.8	16.4	10.9	14.8	53	-	2.8	-	9.0	0	16	308	58	67	19	20	23	52	60	5	42	0
Ujjain	0830	488	1009.6	954.6	-	21.7	17.0	13.5	17.1	63	-	3.3	-	(a) 11.1	0	79	223	8	19	37	31	11	10	89	80	63	17
	1730	-	1004.7	951.4	-	29.9	#	#	#	#	-	3.4	-	13.4	0	95	258	38	54	18	6	8	9	118	97	13	5
Narsinghpur	0830	356	1008.9	968.8	-	23.1	18.2	14.5	18.0	63	-	2.5	-	4.8	0	3	345	43	56	47	24	31	11	97	22	18	17
	1730	"	1004.2	965.2	-	30.5	21.6	15.7	18.9	46	-	2.9	-	3.2	0	0	324	39	41	26	10	33	22	109	24	42	0
Raisingpur	0830	302	1009.3	973.1	-0.8	23.2	18.7	15.3	19.0	65	+6	2.9	0.0	5.2	0	1	358	16	47	46	23	41	110	62	12	7	2
	1730	"	1004.4	971.2	-	30.9	22.2	16.4	20.4	48	-	3.1	-	4.7	0	3	349	34	59	26	17	14	116	50	35	14	1
Indore	0530	567	1008.2	944.3	-	18.9	14.7	10.7	14.8	64	-	2.4	-	9.9	0	51	246	14	34	40	4	9	107	70	19	69	0
	0830	"	1009.4	946.2	-0.5	22.3	16.6	11.8	15.8	57	-2	2.7	-0.2	12.8	0	96	208	10	35	41	8	19	81	87	23	62	0
	1130	"	1008.1	946.1	-	28.5	18.8	11.2	15.4	41	-	2.6	-	16.5	0	135	218	26	48	68	9	27	74	68	29	13	4
	1730	"	1004.4	942.9	-	29.5	18.7	10.0	14.2	37	-	2.9	-	15.4	0	102	253	46	67	24	3	14	79	82	35	11	5
	2330	"	1008.4	945.1	-	21.9	15.9	10.5	14.6	53	-	2.3	-	11.8	0	55	273	(a) 18	50	36	3	14	103	77	26	38	0
Rajpur (Jhabua)	0830	293	1010.1	976.7	-	21.9	18.1	14.9	18.9	67	-	2.9	-	6.8	0	22	206	0	3	25	2	0	41	154	5	138	0
	1730	"	1005.4	973.2	-	31.2	21.0	13.2	17.1	40	-	2.7	-	9.4	0	54	238	9	4	11	2	0	28	220	18	74	0
Chhindwara	0830	685	1008.7	932.9	-0.5	22.5	17.5	13.8	16.9	62	0	2.6	-0.5	6.0	0	23	230	27	49	21	5	9	17	55	70	113	0
	1730	"	1003.7	929.7	-	28.6	19.8	13.6	17.0	46	-	3.5	-	8.5	0	21	314	52	30	21	8	20	21	93	90	31	0
Seoni	0830	619	1008.7	940.2	-0.5	23.6	18.0	13.8	17.3	59	+1	3.0	+0.2	6.7	0	2	323	71	61	20	14	14	47	44	54	41	0
	1730	"	1003.9	937.0	-	28.9	20.1	14.1	17.7	47	-	3.8	-	8.0	0	2	358	53	54	30	36	29	58	33	67	6	0
Betul	0830	653	1009.4	937.0	-0.1	22.4	16.8	12.2	15.6	58	-4	3.2	-0.4	4.3	0	0	311	9	35	43	56	7	16	70	75	55	0
	1730	"	1004.2	933.6	-	28.8	18.7	10.5	14.7	41	-	3.4	-	5.9	0	2	336	71	66	7	14	9	17	69	105	8	0
Khandwa	0830	318	1009.5	973.6	-0.4	23.7	18.0	14.1	17.0	56	-2	2.7	+0.1	3.1	0	0	316	16	35	11	15	19	83	57	76	30	0
	1730	"	1004.5	969.7	-	31.9	20.8	12.1	15.9	36	-	3.1	-	4.2	0	0	365	10	89	3	17	12	84	20	130	1	0
MADHYA BHARAT (EAST)																											
Satna	0330	317	1007.1	970.9	-	19.6	16.2	13.2	17.1	71	-	2.2	-	(b) 4.0	0	1	222	29	13	34	12	33	40	52	10	141	0
	0830	"	1006.4	972.7	-0.3	23.5	18.0	13.5	17.8	58	-2	2.5	-0.3	2.0	0	1	234	9	3	38	2	15	34	115	19	131	0
	1130	"	1007.6	972.6	-	29.2	20.2	12.7	17.2	43	-	2.5	-	(a) 4.0	0	2	300	26	13	53	15	34	51	83	26	65	1
	1730	"	1004.3	969.3	-	29.5	20.2	12.3	16.9	43	-	2.4	-	(b) 3.7	0	1	297	43	13	35	6	8	32	80	81	56	0
	2330	"	1007.2	971.4	-	22.9	17.9	13.5	18.3	61	-	2.2	-	(c) 2.5	0	0	233	24	11	31	17	42	41	32	15	130	0
Rewa #	0930																										
	1730																										
Sidhi	0830	271	1007.9	972.1	-	23.2	18.3	14.8	18.4	64	-	2.3	-	1.7	0	0	279	30	18	33	5	22	63	108	17	51	0
	1730	"	1004.0	973.2	-	28.7	20.6	13.6	17.5	45	-	2.6	-	2.1	0	6	303	33	32	38	4	19	16	85	43	65	0

Data not published for sunlight, sunshine, hours, or cloud amount. (a) Data for 360 degrs. (b) Data for 360 degrs. (c) Data for [illegible] degrs.

Table [illegible] - Monthly [illegible] for the year [illegible]

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean Pressure in millibars: At mean sea level or ht. in c.p.s. of normal standard isobaric level	At station level	Departure from normal	Mean Temperature °C: Dry Bulb	Wet Bulb	Dew Point	Vapour pressure in mb.	Relative Humidity %	Departure from normal	Cloud Amt. (Oktas): Mean Amount	Departure from normal	Mean wind speed kt. per hour	Wind speed (kn. p.h.): 63 or more	50 to 61	1 to 19	No. of observations: Wind Direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
MADHYA PRADESH (EAST) (Contd.)																											
Umaria	0830	458	1008.9	957.4	-	22.5	18.0	14.9	18.4	67	+ 6	2.9	-0.5	2.7	0	0	197	17	12	14	40	5	43	31	27	169	8
	1730	"	1004.0	953.8	-	29.1	20.9	15.7	19.3	51	-	3.5	-	4.5	0	0	271	46	31	8	7	2	30	38	104	95	5
Jabalpur	0530	393	1007.7	963.0	-	19.5	16.4	13.7	17.2	74	-	2.8	-	1.7	0	2	135	7	10	4	28	19	24	40	5	229	0
	0830	"	1009.1	965.0	0.0	23.8	18.2	13.6	17.3	59	-4	2.9	+0.1	3.2	0	2	248	20	18	7	39	49	32	75	10	116	0
	1130	"	1007.7	964.5	-	29.7	20.2	12.8	16.7	43	-	3.0	-	5.0	0	0	337	48	58	12	23	37	41	81	37	29	0
	#1430	"																									
	1730	"	1004.3	961.3	-	29.7	20.2	12.7	16.5	43	-	3.7	-	4.5	0	*	296	66	51	17	8	16	31	78	30	69	0
	2330	"	1007.7	963.5	-	22.3	17.9	14.4	17.0	66	-	2.5	-	2.1	0	0	159	10	26	14	23	28	12	74	5	207	0
Amarkantak	0830	611	1008.9	941.0	-0.3	22.5	18.1	15.3	18.5	68	+1	2.9	+0.4	3.3	0	0	196	21	40	13	9	19	52	38	4	170	0
	1730	"	100 4.2	937.7	-	27.4	19.5	13.9	17.5	51	-	3.5	-	6.9	0	6	322	128	64	12	8	8	32	47	29	38	0
Jashpurnagar %	0830																										
	1730																										
Bendra	0530	625	1007.5	937.8	-	19.9	16.0	12.6	16.1	68	-	2.9	-	4.5	0	14	254	72	10	4	4	49	34	32	63	98	0
	0830	"	1008.7	939.7	-0.4	23.4	17.8	13.4	16.9	60	-1	3.1	+0.2	6.6	0	17	295	95	15	8	6	76	32	26	49	54	3
	1130	"	1007.2	939.2	-	27.7	19.1	12.8	16.5	47	-	3.2	-	9.0	0	24	330	110	34	10	12	56	45	29	49	12	9
	#1430	"																									
	1730	"	1004.3	936.4	-	27.2	19.0	12.6	16.5	50	-	3.6	-	7.4	0	18	301	118	16	1	10	51	35	33	52	47	3
	2330	"	1007.9	938.5	-	21.9	17.0	13.0	16.5	64	-	2.6	-	5.2	0	13	282	63	5	4	3	32	47	49	72	71	0
Mandla	0830	443	1009.1	959.4	-0.3	22.3	18.0	14.7	18.2	67	-5	2.6	-0.8	(a) 1.0	0	1	69	24	0	0	1	21	2	3	19	295	0
	1730	"	1004.1	955.6	-	28.7	20.3	13.5	17.6	48	-	3.3	-	2.1	0	4	126	57	0	1	0	26	2	13	31	236	0
Chanpa	0830	245	1008.8	981.1	-0.3	24.5	19.9	16.6	20.2	66	+1	3.5	0.0	4.4	0	5	309	121	15	31	14	8	35	58	32	52	0
	1730	"	1004.3	977.3	-	30.5	21.8	15.8	19.5	49	-	4.1	-	5.5	0	15	301	79	16	26	10	8	47	71	59	50	0
Raigarh	0830	220	1009.4	983.6	-0.4	25.8	20.4	16.7	20.3	62	-1	3.3	-0.3	3.4	0	0	347	13	149	26	43	18	61	20	17	19	0
	1730	"	1003.9	979.5	-	30.8	21.6	14.8	18.7	46	-	3.6	-	(a) 1.8	0	0	183	47	52	4	10	3	43	11	12	182	1
Raipur	0530	298	1006.9	973.2	-	22.4	18.6	15.7	19.0	70	-	3.3	-	5.3	0	6	272	42	27	10	15	41	64	42	35	88	2
	0830	"	1008.8	975.3	-0.3	25.4	19.9	15.8	19.3	60	-1	3.2	+0.2	7.5	0	6	334	53	53	21	20	28	77	61	25	26	2
	1130	"	1007.8	974.8	-	30.0	21.3	14.9	18.7	47	-	3.2	-	8.8	0	8	345	40	63	18	19	24	64	69	44	13	12
	#1430	"																									
	1730	"	1004.3	971.5	-	30.5	21.3	14.4	18.2	46	-	4.0	-	7.3	0	10	308	45	52	13	11	26	62	65	43	48	1
	2330	"	1007.1	97[illegible].7	-	25.2	19.7	15.4	19.0	61	-	3.0	-	7.1	0	11	308	28	21	38	31	66	84	38	13	47	0
Kanker	0830	402	1008.8	964.2	-0.1	25.6	21.2	18.6	22.0	67	-1	3.0	-0.7	1.4	0	0	110	2	4	0	0	2	58	35	9	[illegible]	0
	1730	"	1004.4	960.5	-	29.8	22.8	18.8	22.5	56	-	3.4	-	1.8	0	0	215	18	15	0	2	1	88	49	42	121	0
Jagdalpur	0530	553	1007.5	945.7	-	20.4	18.5	17.4	20.4	84	-	3.6	-	2.0	0	2	99	4	3	7	15	11	43	8	10	265	0
	0830	"	1008.9	947.7	-0.5	23.7	19.9	17.8	20.8	71	-2	3.6	+0.3	4.7	0	4	233	12	24	6	14	42	59	29	11	129	0
	1130	"	1007.2	947.1	-	28.8	21.1	16.6	19.8	52	-	3.5	-	8.3	0	12	337	27	64	19	11	23	116	32	37	17	0
	1730	"	1004.3	944.2	-	28.2	21.0	16.7	19.8	55	-	4.8	-	5.7	0	8	282	28	44	5	14	40	115	30	11	76	0
	2330	"	1007.8	946.5	-	22.8	19.6	17.7	20.8	75	-	3.0	-	2.7	0	3	124	0	8	5	12	37	49	10	8	239	0
ORISSA																											
Baripada	0830	136	1009.5	993.8	-0.3	22.6	17.3	12.6	17.1	56	-	1.9	-	(a) 3.7	0	3	354	4	132	12	48	26	66	18	51	8	0
	1730	"	1005.7	990.6	-	32.1	20.6	11.0	15.8	34	-	1.9	-	6.0	0	3	356	4	32	3	41	25	104	57	92	7	1
Balasore	0830	30	1009.4	1003.9	-	22.9	19.6	17.2	21.8	72	-	#	-	5.3	0	2	339	39	33	15	25	11	143	7	68	25	0
	1730	"	1005.9	1002.5	-	32.2	23.7	18.9	23.0	48	-	#	-	6.0	0	5	348	23	25	6	15	1	158	31	94	13	0
Jaipur	0830	219	1009.1	984.3	-	24.3	18.2	12.0	17.1	53	-	2.8	-	4.1	0	1	297	50	56	19	17	8	64	62	22	68	0
	1730	"	1005.2	981.1	-	31.3	20.4	11.5	16.2	38	-	2.7	-	3.5	0	0	305	15	12	11	15	8	69	154	21	61	0
Angul	0230	35	1007.5	1001.0	-	22.7	18.4	14.8	18.9	63	-	1.8	-	8.4	0	13	279	36	38	13	0	12	57	82	54	74	0
	0530	"	1007.5	1001.1	-	21.2	17.8	14.8	18.0	69	-	1.9	-	7.8	0	6	271	18	40	25	4	10	54	56	72	89	0

(a) Data for 365 days. # Data not available for complete years, hence no normal years. % The observatory started functioning with effect from 30.12.64.

Table III - Summary of Observations at Fixed Hours for the year 1964

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean Pressure in millibars: At mean sea level or ht. in g.p.m. of nearest standard isobaric level	Mean Pressure in millibars: At station level	Mean Pressure in millibars: Departure from normal	Mean Temperature °C: Dry Bulb	Mean Temperature °C: Wet Bulb	Mean Temperature °C: Dew Point	Vapour pressure in mbs.	Relative Humidity %	Relative Humidity %: Departure from normal	Cloud Amt. (Oktas): Mean Amount	Cloud Amt. (Oktas): Departure from normal	Mean wind speed km. per hour	Wind speed (km.p.h.): 63 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations Wind Direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
GUJARAT (Contd.)																											
Ahmedabad (contd.)	0830	55	1009.4	1003.0	-0.8	23.2	18.7	15.1	19.3	63	-1	2.9	+0.3	10.8	0	36	277	22	32	60	9	13	50	56	69	5	0
	1130	"	1009.4	1003.2	-	30.2	21.3	14.7	18.9	44	-	2.7	-	14.0	0	88	209	22	25	73	41	20	49	58	65	9	2
	#1430	"																									
	1730	"	1005.6	999.4	-	32.7	21.7	13.3	17.6	37	-	2.8	-	12.7	0	60	279	35	20	24	14	34	61	81	69	27	1
	#2030	"																									
	2330	"	1008.2	1001.8	-	24.4	19.2	15.1	19.2	60	-	1.8	-	8.5	0	23	254	34	20	4	2	25	79	63	50	89	0
Dohad	0830	233	1009.4	971.8	-0.5	23.0	17.7	12.7	17.1	57	-8	4.7	[illegible]	11.3	0	84	243	6	27	55	21	29	81	97	11	39	0
	1730	"	1005.1	968.6	-	31.5	20.0	9.8	14.7	34	-	2.2	-	11.9	0	87	281	21	26	9	8	4	176	82	22	18	0
Vallabh Vidyanagar	0830	44	1009.2	1004.2	-	22.0	18.7	16.1	20.5	71	-	2.6	-	7.3	0	2	[illegible]	45	67	14	23	40	85	35	34	20	1
	1730	"	1005.6	1000.8	-	32.1	22.3	15.6	19.5	43	-	2.2	-	7.8	0	14	341	61	30	1	10	46	93	30	62	11	2
Baroda (A)	0830	38	1009.6	1005.2	-	23.4	19.3	16.0	20.3	65	-	2.6	-	8.7	0	19	286	44	25	11	14	46	102	34	36	61	3
	1130	"	1009.4	1005.2	-	30.3	21.8	14.7	18.8	44	-	2.4	-	[illegible]	[illegible]	42	298	33	45	34	17	27	67	49	32	27	5
	1730	"	1005.6	1001.5	-	32.0	21.5	13.7	17.9	40	-	2.5	-	[illegible]		27	292	40	29	5	3	27	70	38	32	18	2
Baroda	0530	34	1007.8	1003.8	-	21.3	18.8	16.7	21.0	77	-	1.7	-	[illegible]	0	0	51	0	11	0	0	1	27	9	3	313	0
	0830	"	1009.7	1005.7	0.0	22.8	19.5	17.0	21.4	71	0	2.4	-0.2	[illegible]	0	0	114	0	24	0	2	2	41	4	2	252	0
	1130	"	1009.6	1005.7	-	30.9	22.2	16.3	20.5	46	-	2.2	-	[illegible]	0	0	191	3	37	10	11	3	52	59	16	175	0
	1730	"	1006.0	1002.1	-	32.9	23.0	16.5	20.4	43	-	2.2	-	2.3	0	0	217	5	23	1	3	8	49	91	37	149	0
	2330	"	1008.5	1004.5	-	24.4	20.2	17.2	21.4	67	-	1.6	-	1.7	0	0	150	3	19	1	1	3	74	45	4	216	0
Broach	0830	17	1009.0	1007.0	-0.4	22.3	19.2	16.7	21.0	72	+1	2.7	-0.2	5.2	0	0	364	15	71	9	24	32	150	10	32	3	0
	1730	"	1005.5	1003.6	-	32.8	22.3	14.8	1[illegible].0	40	-	2.2	-	6.3	0	1	363	5	83	2	23	12	162	16	63	0	0
Surat	0530	12	1007.8	1006.4	-	22.4	20.1	18.4	22.6	79	-	2.4	-	7.7	0	12	317	40	74	6	77	[illegible]	73	15	14	37	0
	0830	"	1009.7	1008.3	-0.3	24.[illegible]	20.8	18.6	22.9	72	+4	3.3	+0.2	7.1	0	5	319	20	82	13	54	29	91	8	27	42	0
	1130	"	1006.[illegible]	1008.5	-	3[illegible].2	22.7	19.0	22.2	52	-	3.2	-	9.0	0	16	342	39	73	13	23	14	112	29	55	8	0
	1730	"	1006.[illegible]	100[illegible].1	-	30.7	23.3	18.8	23.0	53	-	3.0	-	9.0	0	23	338	3	35	2	9	10	178	17	109	3	1
	2330	"	1008.8	1007.4	-	24.7	21.5	19.2	23.7	73	-	2.0	-	10.5	0	38	310	28	66	3	14	50	138	24	25	18	0
SAURASHTRA AND KUTCH																											
Bhavnagar Bhimnath #																											
Maliya	0830	21	1009.0	1006.6	-	21.7	19.4	17.4	22.4	78	-	3.1	-	8.9	2	43	210	24	45	10	6	19	101	36	15	109	1
	1730	"	1006.4	1004.0	-	29.3	22.7	18.2	23.1	55	-	3.0	-	12.1	0	59	297	16	48	1	1	26	181	64	19	10	0
Bhuj (Aerodrome)	0230	80	1007.7	998.5	-	21.9	18.5	15.4	20.0	70	-	1.3	-	7.4	0	15	304	17	2	1	1	0	73	103	18	147	0
	0530	"	1007.6	998.3	-	20.5	17.9	15.3	20.0	75	-	1.7	-	5.7	0	11	168	9	2	2	1	3	69	74	19	187	0
	0830	"	1009.2	1000.0	-0.2	22.3	18.8	15.8	20.[illegible]	69	+11	2.5	+0.1	8.1	0	34	170	10	4	1	1	2	58	103	25	162	0
	1130	"	1009.3	1000.3	-	29.3	20.6	15.7	18.2	44	-	2.5	-	14.5	0	76	253	38	77	11	3	2	49	102	47	37	0
	#1430	"																									
	1730	"	1005.9	997.0	-	31.5	21.1	12.5	17.2	38	-	2.6	-	17.3	0	120	228	31	68	7	7	4	[illegible]	113	31	18	0
	#2030	"																									
	2330	"	1008.5	999.3	-	23.5	19.2	15.3	20.1	64	-	1.3	-	10.1	0	33	230	29	2	1	1	0	38	124	18	103	0
Kandla (A)	0830	15	1009.5	1005.5	-	23.8	19.1	14.8	19.8	6[illegible]	-	2.2	-	18.6	1	15[illegible]	200	46	7	1	3	13	111	56	115	14	0
	1130	"	1009.7	1005.8	-	30.2	20.7	12.8	17.9	[illegible]	-	2.5	-	20.5	0	17[illegible]	173	61	56	20	6	17	96	62	34	14	0
	1730	"	1006.2	1002.5	-	32.0	21.2	12.1	17.2	36	-	2.1	-	24.6	0	239	119	63	12	20	7	48	146	35	27	8	0
New Kandla	0830	14	1009.7	1008.0	-	23.6	19.3	16.0	19.0	65	-	3.1	-	15.1	0	77	284	98	23	3	7	7	61	102	60	5	0
	1730	"	1006.7	1005.1	-	29.9	21.9	16.4	20.7	47	-	2.7	-	22.4	0	202	158	42	15	11	11	27	132	98	4	6	0
Mandvi	0130	9	1009.4	1008.3	-0.2	23.4	20.1	17.5	22.5	73	-4	3.6	+0.7	(b) 15.7	2	151	209	40	96	14	1	6	67	46	61	2	31
	1730	"	1007.0	1003.9	-	27.8	21.8	20.3	27.0	71	-	3.0	-	(a) 28.8	1	279	82	6	13	7	6	11	127	135	5	3	32

(a) Data for 363 days. (b) Data for 364 days. # Data not available for complete year, hence no annual means. (A) Aerodrome.
Closed on 1.4.1964.

Table 11a - Summary of Observations at Fixed Hours for the year 1964

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean Pressure in millibars: At mean sea level or ht. in m.p.m. of nearest standard isobaric level	Mean Pressure in millibars: At station level	Mean Pressure in millibars: Departure from normal	Mean Temperature °C: Dry Bulb	Mean Temperature °C: Wet Bulb	Mean Temperature °C: Dew Point	Vapour pressure in mbs.	Relative Humidity %	Departure from normal	Cloud Amt. (Oktas): Mean Amount	Cloud Amt. (Oktas): Departure from normal	Mean wind speed km. per hour	Wind speed (km.p.h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind Direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
SAURASHTRA & KUTCH (Contd.)																											
Surendranagar	0730	74	1009.4	1000.9	-0.2	24.1	20.0	16.9	21.5	67	+1	2.4	-0.3	(b) 11.0	0	27	296	57	15	8	5	9	40	114	75	31	0
	1730	"	1002.6	997.3	-	33.0	23.1	16.9	20.8	42	-	1.9	-	11.1	0	46	295	55	11	17	11	9	18	152	68	25	0
Gida	0530	7	1008.0	1007.2	-	24.3	22.4	21.2	26.2	84	-	2.1	-	(a) 22.0	1	217	137	64	37	5	2	5	82	82	78	10	0
	0830	"	1009.7	1008.9	-	25.0	22.6	21.0	26.3	80	-	3.0	-	19.5	2	184	176	55	51	16	1	8	82	69	90	4	0
	1130	"	1010.4	1009.6	-	26.6	23.2	21.2	26.6	74	-	2.8	-	21.3	2	197	166	44	52	28	1	1	69	85	85	1	0
	1730	"	1007.2	1006.4	-	28.7	23.9	22.3	28.0	78	-	2.7	-	22.3	0	226	144	18	11	3	1	0	61	139	125	4	0
	2330	"	1009.0	1008.2	-	24.9	23.1	21.9	27.3	85	-	1.7	-	20.9	1	192	168	44	17	2	1	2	90	172	93	5	0
Jamnagar (A)	0530	23	1007.8	1005.2	-	20.6	18.8	17.2	21.8	82	-	1.9	-	(a) 12.0	0	71	215	15	28	4	10	10	94	111	14	79	0
	0830	"	1009.5	1006.9	-0.2	22.8	20.1	17.8	22.9	75	+6	2.9	+0.7	12.9	0	91	198	19	26	11	6	13	88	101	22	77	3
	1130	"	1009.8	1007.3	-	28.6	21.7	16.0	21.5	55	-	2.7	-	20.8	0	193	166	49	75	11	2	4	36	128	52	7	0
	1730	"	1006.6	1004.1	-	29.1	21.7	16.0	21.0	51	-	2.5	-	25.1	0	254	98	62	51	2	1	4	17	152	75	1	0
	2330	"	1008.9	1006.3	-	22.4	20.9	19.1	23.7	73	-	1.6	-	16.0	0	109	191	36	23	0	5	1	55	183	24	39	0
Dwarka	0830	11	1009.4	1006.1	-0.6	24.1	22.0	20.7	25.9	82	+5	2.8	-0.2	14.7	1	94	236	109	25	12	1	5	45	127	27	15	0
	1730	"	1007.1	1005.8	-	27.2	23.6	21.4	24.9	73	-	2.3	-	16.0	0	157	209	63	14	5	0	0	54	171	59	0	0
Rajkot	0530	138	1007.9	992.0	-	20.2	17.2	15.3	18.0	77	-	[illegible]		9.6	0	64	213	17	30	3	8	26	125	53	23	79	2
	0830	"	1009.4	993.7	-0.6	22.6	19.4	14.4	22.3	70	0	1.7	-0.3	14.7	0	107	140	15	36	6	5	19	110	83	42	69	2
	1130	"	1009.2	993.8	-	[illegible]	[illegible]	19.7	[illegible]	80	-	[illegible]	-	20.0	1	155	170	48	72	11	7	12	92	47	67	10	0
	1730	"	1005.7	990.5	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	[illegible]	-	20.3	[illegible]	219	142	32	37	4	4	21	73	56	111	6	3
Bhavnagar (A)	0330	11	1009.7	1008.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	78	+4	[illegible]	+0.7	18.5	[illegible]	94	[illegible]	33	5	2	0	17	85	87	168	17	7
	1130	"	1009.8	1008.6	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	[illegible]	-	17.7	0	236	223	91	105	36	21	12	60	33	15	5	3
	1730	"	1006.0	1004.8	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	[illegible]	-	24.6	4	219	141	15	78	48	43	102	38	15	4	2	1
Porbander (A)	0830	7	1009.5	1008.7	-0.1	[illegible]	[illegible]	17.7	[illegible]	72	[illegible]	[illegible]	[illegible]	12.1	0	31	225	32	23	16	11	4	69	57	76	48	0
	1130	"	1009.9	1009.1	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	[illegible]	-	18.1	0	183	180	36	53	26	11	5	101	77	52	3	2
	1730	"	1006.9	1006.1	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	[illegible]	-	22.1	1	263	101	34	14	2	1	3	88	202	21	1	0
Keshod	0830	51	1009.7	1008.8	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	-	12.1	0	60	235	45	90	49	4	5	78	42	19	21	13
	1130	"	1009.9	1004.2	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	[illegible]	-	18.0	1	161	204	80	66	28	1	2	72	69	35	0	13
	1730	"	1006.8	1001.0	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	[illegible]	-	26.8	2	275	89	36	21	7	0	8	92	172	29	0	1
Mahuva	0830	9	1009.1	1008.1	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	[illegible]	-	3.2	0	0	279	49	47	0	7	13	80	27	56	36	0
	1730	"	1006.3	[illegible]	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	[illegible]	-	6.3	0	0	355	11	19	19	68	46	168	10	12	11	0
Veraval	0230	8	1007.8	1006.9	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	[illegible]	-	17.1	3	137	215	113	60	2	2	2	33	82	65	7	0
	0530	"	1007.6	1006.7	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	[illegible]	-	18.2	3	131	232	123	62	5	0	2	34	79	51	10	0
	0830	"	1009.4	1008.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	+0.1	17.1	2	128	225	91	90	8	3	5	31	74	63	11	0
	1130	"	1009.8	1008.9	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	[illegible]	-	20.2	1	179	185	39	40	7	6	25	58	132	55	1	3
	1430	"																									
	1730	"	1006.9	1006.0	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	[illegible]	-	25.8	0	253	113	10	6	3	6	12	64	178	87	0	0
	#2030	"																									
	2330	"	1009.0	1008.1	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	[illegible]	-	17.6	1	135	217	79	38	8	1	3	38	88	98	13	0
KUTCH																											
Bhuj	0830	5	1005.2	1008.7	-0.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	+2	[illegible]	-0.9	(f) 10.3	1	40	286	10	38	109	76	7	39	37	9	27	8
	1730	"	1006.8	1006.3	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	[illegible]	-	(c) 17.9	0	133	203	98	0	5	3	5	58	110	74	5	0
Bombay (Santacruz)	0230	15	1007.9	1008.2	-	[illegible]	[illegible]	[illegible]	[illegible]	82	-	[illegible]	-	6.6	0	35	130	31	40	30	9	14	23	55	23	141	0
	0530	"	1007.8	1006.1	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	[illegible]	-	6.8	0	35	120	30	48	61	20	8	22	51	15	111	0
	0830	"	1009.7	1008.0	-0.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	+0.3	7.3	0	36	236	15	35	77	26	20	22	56	20	94	1
	1130	"	1009.8	1006.2	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	[illegible]	-	13.9	0	69	285	22	22	35	28	14	41	124	68	12	0
	#1430	"																									
	1730	"	1006.9	1005.3	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	[illegible]	-	16.8	0	109	255	40	3	2	1	6	26	108	178	2	0
	#2030	"																									
	2330	"	1009.1	1007.5	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	[illegible]	-	8.5	0	29	224	39	38	11	9	11	38	[illegible]	39	113	0

(f) Aerodrome. # Data not available for complete year, hence no annual means. (a) Data for 365 days. (b) Data for 364 days. (c) Data for 363 days.
(f) Data for 360 days.

Table III - Summary of Observations at Final Hours for the year 1961

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean Pressure in millibars: At mean sea level or ht. in 8-p.m. of nearest standard isobaric level	Mean Pressure in millibars: At station level	Mean Pressure in millibars: Departure from normal	Mean Temperature °C: Dry Bulb	Mean Temperature °C: Wet Bulb	Mean Temperature °C: Dew Point	Vapour pressure in mm.	Relative Humidity %	Departure from normal	Cloud Amt. (Oktas): Mean Amount	Cloud Amt. (Oktas): Departure from normal	Wind speed (km. p. h.): Mean wind speed km. per hour	Wind speed (km. p. h.): 61 or more	Wind speed (km. p. h.): 30 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations Wind Direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
KONKAN (Contd.)																											
Bombay	0830	11	1009.7	1008.5	-0.7	25.5	22.8	21.3	26.0	78	+2	3.6	+0.2	(a) 8.1	0	12	304	36	50	60	37	16	38	52	26	47	4
	1130	"	1009.9	1008.7	-	29.0	24.0	21.3	26.8	65	-	3.2	-	(b) 5.2	0	6	341	19	21	47	36	29	44	76	64	18	12
	1730	"	1007.1	1005.9	-	28.1	24.1	22.1	27.0	71	-	3.3	-	(c) 10.4	0	26	334	38	0	0	3	10	40	116	155	4	0
Alibag	0830	7	1009.7	1008.9	-0.6	25.0	22.3	20.7	25.4	78	+5	3.1	-0.6	18.6	1	62	276	69	41	40	37	30	43	34	44	27	1
Bhira	0830	96	1009.5	998.5	-	23.5	20.9	19.2	23.1	79	-	3.3	-	1.7	0	0	164	5	25	8	39	14	28	7	38	202	0
	1730	"	1005.9	995.2	-	30.4	23.7	19.7	23.9	59	-	3.5	-	3.3	0	0	294	7	7	4	58	26	117	38	37	72	0
Harnai	0830	20	1009.5	1007.3	-0.1	26.0	22.6	20.5	25.0	74	+1	4.4	+0.7	(d) 10.6	0	58	233	32	22	81	20	36	15	55	10	50	0
	1730	"	1007.1	1004.8	-	27.4	24.4	23.0	28.3	77	-	4.3	-	(e) 25.2	0	209	141	28	1	0	3	20	25	119	154	1	0
Ratnagiri	0830	35	1009.7	1005.7	-0.7	25.0	22.3	20.7	25.0	78	-	3.8	-	9.2	0	42	312	14	33	82	110	9	19	54	33	12	0
	1730	"	1007.1	1003.1	-	28.3	24.3	22.3	27.1	71	-	4.0	-	13.9	0	73	292	43	1	0	5	7	35	112	162	1	0
Devgarh	0830	36	1009.7	1005.7	-0.3	25.3	23.0	21.8	26.7	82	+3	3.7	-0.5	12.6	1	69	278	17	44	144	21	10	14	50	48	18	0
	1730	"	1007.1	1003.1	-	28.4	25.2	23.7	29.3	77	-	3.7	-	23.5	1	200	165	7	1	2	5	5	24	79	243	0	0
Vengurla	0230	9	1008.4	1007.4	-	23.7	22.3	21.6	26.0	88	-	3.4	-	#	(g) 0	4	89	34	3	1	1	3	13	29	17	265	0
	0530	"	1008.4	1007.4	-	23.0	21.8	21.2	25.6	90	-	3.6	-	#	(i) 0	4	135	67	4	8	7	4	19	28	12	217	0
	0830	"	1010.3	1009.3	-0.2	24.6	22.6	21.4	26.0	83	+3	3.6	-0.4	#	(m) 0	5	155	53	13	10	22	9	20	31	16	192	0
	1130	"	1010.4	1009.4	-	29.4	24.[illegible]	21.6	25.6	64	-	3.4	-	#	10	9	284	23	13	26	10	33	109	94	21	37	0
	1730	"	1007.4	1006.4	-	28.4	24.4	22.3	27.2	71	-	3.9	-	#	10	7	302	12	4	1	2	14	76	174	62	21	0
	2330	"	1009.8	1008.8	-	24.7	23.0	22.1	26.8	86	-	3.5	-	#	(g) 0	3	138	52	3	2	1	7	22	17	45	217	0
Panjim	#0530	57																									
	0830	"	1009.9	1003.5	-	24.6	22.5	21.3	25.6	81	-	4.1	-	7.9	0	27	265	32	39	96	25	19	13	45	23	74	0
	1130	"	1009.1	1003.6	-	29.0	23.7	20.7	25.0	63	-	3.8	-	11.7	0	53	284	16	23	28	15	19	35	144	57	29	0
	#1430	"																									
	1730	"	1007.0	1000.6	-	28.2	23.9	21.7	26.2	69	-	4.1	-	14.8	0	88	273	52	1	1	0	12	29	134	132	5	0
	#2030	"																									
	#2330	"																									
Marmugao	0530	62	1007.9	1000.9	-	24.8	22.9	21.9	26.5	84	-	4.1	-	13.6	0	73	269	42	63	74	37	18	35	43	30	24	0
	0830	"	1009.8	1002.8	-	25.9	23.2	21.8	26.5	79	-	4.3	-	12.9	1	69	284	32	78	76	28	23	44	41	32	12	0
	1130	"	1009.9	1003.0	-	28.2	23.9	21.6	26.4	70	-	4.0	-	14.8	0	85	278	23	26	24	20	28	80	92	70	3	0
	1730	"	1006.9	1000.0	-	27.9	24.4	22.7	27.7	74	-	4.2	-	19.7	1	161	201	22	4	0	5	8	79	113	132	3	0
Dabolim (N.A.S.) & MADHYA MAHARASHTRA [illegible]																											
	0830	206	1009.7	986.3	-	24.8	20.0	16.5	20.2	63	-	1.9	-	6.7	0	21	321	9	3	90	1	20	21	198	0	24	0
	1730	"	1005.5	982.7	-	31.8	22.8	16.9	20.6	46	-	1.9	-	4.9	0	6	320	26	3	41	1	12	15	225	2	40	0
Jalgaon	0830	201	1009.7	986.7	-0.1	23.7	18.0	13.9	18.0	61	-2	3.4	+0.6	12.8	0	71	255	4	10	61	31	13	44	121	42	40	0
	1730	"	1004.8	982.7	-	33.0	21.3	12.0	16.2	36	-	3.5	-	13.9	0	89	252	52	22	54	10	8	18	89	88	25	0
Malegaon	0830	437	1009.8	960.6	-0.6	22.4	17.3	12.9	16.8	58	0	3.1	+0.4	7.1	0	11	338	27	13	8	2	4	46	140	109	17	0
	1730	"	1004.6	957.1	-	31.6	20.6	11.7	15.7	37	-	3.6	-	12.9	0	79	281	57	63	54	9	12	19	79	67	6	0
Nevlali (A)	0830	571	1011.1	947.0	-	21.0	17.3	14.4	17.7	68	-	3.5	-	9.4	0	41	263	68	19	5	4	11	127	59	11	62	0
	1730	"	1006.2	944.1	-	28.0	19.9	13.4	16.8	46	-	3.7	-	16.3	0	111	236	20	29	27	7	4	113	93	54	19	0
Ahmednagar	0830	657	1009.8	937.0	-0.7	22.5	17.0	12.7	16.0	58	+2	3.1	+0.3	3.7	0	11	286	23	6	2	19	10	67	18	172	69	0
	1730	"	1004.0	933.5	-	30.7	19.7	11.9	15.0	38	-	4.2	-	18.6	0	38	319	25	94	2	32	5	84	11	183	9	1
Poona (A)	0230	583	1008.6	942.2	-	20.5	17.4	14.9	18.1	73	-	2.5	-	18.3	0	59	185	0	12	9	1	2	53	161	14	112	0
	0530	"	1008.2	942.1	-	19.3	16.8	14.7	17.8	77	-	2.6	-	8.7	0	47	193	5	11	13	6	3	49	145	17	126	0
	0830	"	1010.1	943.9	-	21.8	17.7	14.7	17.8	67	-	5.4	-	13.1	0	84	188	3	17	12	1	3	61	140	10	134	0

(A) Aerodrome. # Data not available for complete year, hence the normal missing. (a) Data for 365 days. (b) Data for 365 days. (c) Data for 365 days. (d) Data for 144 days. (e) Data for 365 days. (f) Data for 365 days. (g) Data for 365 days. (h) Data for 365 days. (i) Data for 365 days. (j) Data for 365 days. (k) Data for 365 days. (l) Data for 365 days. (m) Data for 365 days.

Table III - Summary of Observations at Pilot Balloon for the year 1956

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean Pressure in millibars: At mean sea level or ht. in g.p.m. of nearest standard isobaric level	At station Level	Departure from normal	Mean Temperature °C: Dry Bulb	Wet Bulb	Dew Point	Vapour pressure in mbs.	Relative Humidity	Departure from normal	Cloud Amt. (Oktas): Mean Amount	Departure from normal	Mean wind speed km. per hour	Wind speed (km.p.h.): 41 or more	20 to 41	1 to 19	No. of observations: Wind Direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
MAHYA MAHARASHTRA (Contd.)																											
Poona (Contd.)	1130	593	1008.6	943.9	-	28.4	19.4	12.8	16.0	44	-	3.4	-	19.3	0	171	175	8	48	83	19	7	51	112	18	20	0
	1730	"	1005.0	940.7	-	29.3	19.9	13.0	16.5	44	-	3.8	-	23.7	0	234	118	11	37	41	6	7	50	177	23	14	0
	2330	"	1009.4	943.2	-	22.1	18.1	15.1	18.4	68	-	2.8	-	13.5	0	71	251	0	11	14	4	2	56	214	21	44	0
Poona	0530	559	1009.1	945.9	-	18.4	16.1	14.2	17.3	78	-	2.6	-	2.4	0	7	95	0	0	0	0	1	8	92	1	264	0
	0830	"	1010.3	947.8	-0.5	21.8	18.0	13.4	18.4	69	+4	3.2	+0.1	2.8		8	112	1	0	5	1	1	11	95	6	246	0
	1130	"	1008.6	947.5	-	28.5	19.9	14.0	17.2	47	-	3.3	-	5.8	0	8	266	9	17	79	10	2	18	114	25	92	0
	#1430	"																									
	1730	"	1005.1	944.4	-	29.3	20.2	14.0	17.3	46	-	3.7	-	7.8	0	29	254	6	9	20	5	0	13	154	32	57	0
	#2030	"																									
	2330	"	1009.5	947.0	-	21.7	17.9	15.2	18.3	70	-	2.6	-	3.2	0	3	132	0	1	2	1	0	11	137	3	211	0
Jeur	0830	521	1009.7	951.4	-0.4	22.6	17.7	14.0	17.4	62	-1	3.4	+0.4	8.4	0	42	254	36	37	22	8	21	26	77	39	70	0
	1730	"	1003.8	947.6	-	31.7	20.3	12.4	15.7	37	-	4.1	-	12.6	0	88	262	46	41	49	23	23	28	71	69	16	0
Baramati	0330	551	1009.9	948.5	-0.3	22.5	18.0	14.9	18.1	64	-1	2.6	-0.6	7.8	0	21	312	34	18	28	19	11	35	103	55	33	0
	1730	"	1004.3	945.0	-	31.2	20.8	14.3	17.2	41	-	3.1	-	15.3	0	118	239	27	28	51	25	26	44	[illegible]	43	9	0
Sholapur	0530	479	1008.3	954.6	-	21.7	17.7	14.8	17.8	68	-	2.8	-	6.4	0	1	324	32	58	25	30	6	80	43	[illegible]	41	0
	0830	"	1009.9	956.6	-0.3	24.6	19.6	16.8	19.6	62	+6	2.8	-0.1	7.0	0	1	354	23	74	14	50	10	94	[illegible]	[illegible]	11	0
	1130	"	1008.3	956.1	-	30.5	21.3	16.0	19.0	46	-	3.3	-	11.0	0	16	348	46	27	31	69	21	79	37	[illegible]	2	0
	1730	"	1004.1	952.4	-	32.0	21.8	15.8	18.9	42	-	3.8	-	9.7	0	26	332	56	41	18	76	9	69	39	30	8	0
	2330	"	1008.3	955.2	-	25.5	19.3	15.2	18.3	57	-	3.4	-	9.8	0	9	344	29	59	36	46	12	74	[illegible]	43	13	0
Miraj	0830	554	1010.6	948.8	-0.3	22.0	18.7	16.3	19.5	71	+2	4.2	+0.5	-	-	-	-	1	1	26	2	0	5	[illegible]	5	214	0
	1730	"	1005.1	945.2	-	30.3	21.1	15.1	18.5	46	-	4.7	-	-	-	-	-	5	3	49	5	0	22	160	15	109	0
Kolhapur	0530	570	1008.5	944.7	-	20.0	17.9	16.4	19.5	81	-	2.9	-	6.9	0	30	222	0	8	42	3	5	28	161	5	114	0
	0830	"	1010.0	946.6	-0.5	22.3	18.9	16.6	19.8	72	-1	3.2	0.0	5.5	0	3	247	1	17	63	6	4	9	142	8	116	0
	1130	"	1008.6	946.5	-	[illegible]	20.5	15.4	18.5	50	-	2.9	-	9.3	0	24	304	9	28	102	15	11	4	146	13	38	0
	1730	"	1005.1	943.3	-	28.7	20.8	15.7	19.0	52	-	3.6	-	13.5	0	75	277	4	19	66	7	3	10	230	13	14	0
	2330	"	1009.4	945.9	-	22.3	19.2	17.2	20.3	75	-	2.6	-	10.7	0	48	273	2	6	32	4	8	19	240	[illegible]	45	0
MARATHWADA																											
Aurangabad	0830	581	1009.9	945.5	-0.6	24.1	17.7	12.6	16.2	54	-2	3.3	+0.1	8.0	0	43	209	23	22	49	2	7	24	108	[illegible]	[illegible]	0
	1730	"	1004.5	941.9	-	30.8	19.6	11.1	14.9	37	-	3.9	-	10.8	0	74	238	43	27	27	5	10	32	12[illegible]	39	54	0
Aurangabad (Chikalthan)	0230	579	1008.2	942.3	-	19.9	15.8	12.4	15.8	65	-	2.4	-	7.4	0	29	164	12	4	1	4	0	14	140	38	173	0
	0530	"	1008.6	943.3	-	18.5	15.1	12.2	15.6	69	-	2.6	-	6.4	0	13	165	8	3	0	3	1	7	119	37	184	0
	0830	"	1009.3	945.2	-	24.0	18.2	14.0	17.3	57	-	3.1	-	8.9	0	33	191	25	3	14	10	1	11	106	54	[illegible]	0
	1130	"	1008.0	945.0	-	29.6	20.5	14.7	17.6	45	-	3.0	-	15.8	0	100	200	37	30	51	62	14	20	91	45	16	0
	#1430	"																									
	1730	"	1004.1	941.0	-	30.[illegible]	20.9	14.7	17.8	43	-	3.9	-	13.7	0	84	221	50	21	23	18	3	27	112	51	61	0
	#2030	"																									
	2330	"	1008.9	944.3	-	21.9	16.8	12.9	16.2	61	-	2.7	-	8.7	0	34	184	29	3	3	3	3	8	116	53	148	0
Parbhani	0830	423	1010.0	962.5	+0.4	23.8	17.9	12.6	16.4	55	-5	2.9	-0.3	7.3	0	10	321	28	37	15	13	5	33	110	84	35	0
	1730		1004.5	958.5	-	32.0	20.8	11.5	15.7	36	-	3.8	-	9.2	0	28	320	43	75	35	19	10	17	9	60	18	0
Nander	0830	358	1009.5	969.3	-	25.2	19.5	15.4	18.5	59	-	2.3	-	4.0	0	0	213	6	18	3	17	3	49	66	51	153	0
	1730	"	1005.0	965.8	-	32.1	21.9	14.8	18.1	41	-	3.0	-	5.0	0	0	270	14	46	9	34	9	56	39	63	96	0
Bir	0830	319	1010.2	952.4	-	23.7	19.2	16.5	19.5	66	-	2.9	-	6.0	0	6	273	7	12	1	29	22	60	1[illegible]	125	87	6
	1730	"	1005.1	948.9	-	31.1	22.2	17.3	20.4	48	-	2.9	-	7.0	0	9	317	11	97	9	25	3	68	1[illegible]	101	40	1
VIDARBHA																											
Gondia	0830	313	1009.1	973.9	-0.2	24.5	19.2	15.1	18.6	62	-4	3.2	0.0	3.2 (a)	0	0	281	51	38	11	22	26	82	12	35	85	4
	1730	"	1004.4	970.1	-	30.9	21.1	13.3	17.3	43	-	3.6	-	[illegible]	0	2	266	81	11	12	8	38	42	51	23	97	0

Data not available for one or more years, hence no normal means. (a) Data for 28 days.

Table III - Summary of Observations on Fixed Hours for the year [illegible]

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean Pressure in millibars: At mean sea level or ht. in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean Temperature °C: Dry Bulb	Wet Bulb	Dew Point	Vapour pressure in mb.	Relative Humidity %	Departure from normal	Cloud Amt. (Oktas): Mean Amount	Departure from normal	Mean wind speed km. per hour	Wind speed (km.p.h.): 62 or more	30 to 61	1 to 19	No. of observations: Wind Direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
VIDARBHA (Contd.)																											
Bapur (Sonagaon)	0230	310	1006.6	971.6	-	22.6	17.6	12.9	16.3	62	-	2.7	-	8.6	0	14	295	80	21	5	6	14	49	42	92	57	0
	0530	"	1007.2	972.0	-	21.3	16.9	12.8	16.8	65	-	3.1	-	6.5	0	9	303	83	21	5	5	10	47	42	99	54	0
	0830	"	1008.9	974.0	-0.6	24.9	18.5	13.0	16.9	53	-4	3.3	+0.2	8.9	0	36	301	77	43	30	7	10	39	50	81	29	0
	1130	"	1007.7	973.5	-	30.6	20.6	12.7	16.7	41	-	3.3	-	10.3	0	46	295	34	52	61	31	18	38	47	60	25	0
	#1430	"																									
	1730	"	1004.1	970.1	-	31.0	20.5	11.5	15.9	40	-	4.0	-	10.3	0	45	310	23	57	66	28	22	48	60	51	11	0
	#2030	"																									
	2330	"	1007.4	972.5	-	24.1	18.3	13.0	16.7	58	-	2.9	-	6.7	0	10	300	69	28	14	16	10	46	48	79	56	0
Amroti	0830	370	1009.2	967.9	-0.2	25.2	18.2	11.8	15.9	50	-5	2.8	-0.1	5.0	0	0	349	24	101	31	9	24	99	41	20	17	0
	1730	"	1004.2	964.0	-	31.7	20.3	10.5	14.9	36	-	3.4	-	6.7	0	12	348	42	30	39	33	15	67	76	58	6	0
Akola (A)	0530	309	1006.9	971.8	-	21.5	16.8	12.3	16.3	60	-	3.0	-	9.9	0	16	330	30	32	27	24	13	64	97	59	20	0
	0830	"	1008.6	973.7	-	24.4	18.4	13.3	17.2	54	-	3.3	-	9.0	0	9	349	14	42	39	18	12	40	96	97	8	0
	1130	"	1007.7	973.6	-	30.3	20.8	13.4	17.3	41	-	3.4	-	10.6	0	16	349	31	39	45	23	8	35	84	100	1	0
	1730	"	1003.6	969.8	-	32.2	21.0	12.3	16.3	37	-	4.0	-	10.3	0	23	341	38	44	19	12	9	43	64	135	2	0
	2330	"	1007.0	972.4	-	25.1	18.2	12.0	16.1	51	-	2.9	-	10.2	0	19	343	40	29	31	32	19	54	74	83	4	0
Akola	0830	282	1009.2	977.3	-0.7	24.2	18.8	14.5	18.2	58	+2	2.5	-0.5	1.1	0	0	130	0	4	1	1	0	7	7	41	236	0
	1730	"	1005.9	973.2	-	32.7	22.0	14.6	18.2	40	-	3.7	-	1.4	0	0	209	8	11	8	5	2	10	113	52	157	0
Brahmapuri	0830	229	1009.2	983.2	-	24.8	20.2	17.0	20.4	67	-	3.3	-	3.5	0	0	317	53	39	18	32	68	43	43	21	49	0
	1730	"	1004.5	979.3	-	31.6	22.1	15.3	19.1	46	-	3.5	-	3.4	0	0	324	62	36	24	28	66	34	45	29	42	0
Buldana	0830	650	1009.2	937.3	0.0	23.1	17.3	12.6	15.9	56	-5	2.8	-0.6	8.5	0	31	297	50	34	6	23	8	61	11	135	38	0
	1730	"	1004.3	934.2	-	29.7	19.2	11.5	14.9	39	-	3.3	-	6.5	0	7	319	63	57	6	18	5	31	10	136	40	0
Yeotmal	0830	451	1008.5	958.4	-0.4	25.3	18.3	12.1	15.7	51	-8	3.3	-0.3	10.3	0	36	326	45	33	70	8	29	23	122	32	4	0
	1730	"	1003.8	954.8	-	31.2	20.0	9.8	14.6	37	-	4.1	-	9.1	0	24	337	63	43	53	11	25	24	112	30	5	0
Chanda	0830	193	1008.9	987.0	-0.9	25.0	20.3	17.3	20.7	66	+4	3.3	+0.4	7.5	0	24	312	34	32	33	33	41	40	58	65	30	0
	1730	"	1004.2	983.0	-	31.6	22.3	16.1	19.8	47	-	4.0	-	8.0	0	15	336	40	75	62	26	22	25	51	49	15	1
Basad	0830	334	1009.8	972.3	-	24.5	19.1	15.2	18.4	60	-	3.1	-	8.1	0	33	297	31	22	9	16	10	44	79	118	36	1
	1730	"	1005.0	968.5	-	32.3	22.5	16.1	19.3	44	-	4.1	-	8.8	0	17	341	39	61	33	34	13	42	66	70	8	0
Sironcha	0830	123	1009.8	995.8	-0.1	25.9	21.9	19.7	23.5	71	-1	3.3	-0.3	3.9	0	1	355	30	41	28	142	11	52	7	45	10	0
	1730	"	1005.1	991.4	-	32.4	23.3	17.9	21.4	48	-	3.7	-	4.7	0	2	340	30	57	28	91	14	55	13	53	24	1
COASTAL ANDHRA PRADESH																											
Kalingapatam	0830	6	1009.2	1008.5	-0.2	26.7	24.3	23.2	29.0	82	+4	3.1	-0.2	[illegible] (a)	0	37	309	55	14	2	8	56	80	42	69	13	19
	1730	"	1006.0	1005.3	-	28.1	25.4	24.1	30.	79	-	2.8	-	15.5 (b)	0	72	285	18 (b)	20	14	25	108	102	14	15	9	27
Vishakhapatnam	0230	3	1007.1	1006.6	-	25.1	23.1	22.1	27.0	84	-	3.3	-	3.7	0	7	132	6	8	10	3	5	46	38	23	227	0
	0530	"	1007.5	1007.1	-	24.5	22.6	21.7	26.3	85	-	3.6	-	3.4	0	11	113	11	7	5	1	5	36	46	15	242	0
	0830	"	1009.2	1008.9	-0.3	27.5	23.7	21.7	26.3	71	-5	3.7	-0.6	7.8	0	28	212	12	19	10	6	9	77	78	26	126	3
	1130	"	1008.6	1008.2	-	30.8	24.4	21.1	25.6	58	-	3.9	-	13.4	0	79	250	7	21	32	39	35	139	42	12	37	2
	#1430	"																									
	1730	"	1006.1	1005.7	-	28.5	24.0	21.8	26.4	68	-	4.0	-	12.7	0	40	305	2	5	45	69	43	144	25	11	21	1
	#2030	"																									
	2330	"	1008.4	1008.0	-	25.9	23.6	22.5	27.5	82	-	3.5	-	4.[illegible]	0	11	145	7	7	9	5	7	64	43	14	210	0
Kakinada	0830	8	1009.5	1008.6	-0.4	26.4	23.9	22.7	27.9	81	+6	3.9	-0.3	9.8	0	7	356	0	137	[illegible]	31	0	129	1	36	3	0
	1730	"	1005.9	1005.0	-	29.5	24.6	22.3	27.3	67	-	3.3	-	13.6	0	13	353	0	64	14	224	2	48	0	14	0	0
Nidadavole	0830	12	1009.5	1008.1	-	25.9	23.3	22.4	27.3	81	-	5.1	-	5.8	0	0	309	31	80	43	18	11	48	48	35	57	0
	1730	"	1005.5	1004.1	-	30.3	24.8	22.3	27.1	68	-	5.1	-	5.8	0	1	336	5	33	64	30	41	83	36	23	29	0
Bapatla	0830	106	1009.4	997.3	-	27.0	22.9	20.6	24.7	68	-	3.7	-	1.9	0	0	257	14	0	18	17	87	18	115	4	109	0
	1730	"	1004.8	995.2	-	32.8	22.3	18.1	23.4	45	-	3.8	-	1.9	0	0	397	27	3	63	4[illegible]	27	8	107	2	38	0

(A) Aerodromes.

Readings [illegible] are [illegible] hours as annual means.

(a) Data for [illegible] days. (b) Data for [illegible] days. (c) Data for [illegible] days.

Table III - Summary of Observations at Final Hours for the year [illegible]

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean Pressure in millibars: At mean sea level or ht. in s.p.m. of nearest standard isobaric level	Mean Pressure in millibars: At station level	Mean Pressure in millibars: Departure from normal	Mean Temperature °C: Dry Bulb	Mean Temperature °C: Wet Bulb	Mean Temperature °C: Dew Point	Vapour pressure in mb.	Relative Humidity %	Relative Humidity %: Departure from normal	Cloud Amt. (Octas): Mean Amount	Cloud Amt. (Octas): Departure from normal	Mean wind speed km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations Wind Direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
COASTAL ANDHRA PRADESH (Contd.)																											
Gannavaram	0230	24	1007.2	1004.4	-	24.5	23.9	22.7	27.9	89	-	3.0	-	5.7	0	13	231	46	15	36	17	41	34	34	21	122	0
	0530	"	1007.5	1004.8	-	24.2	22.9	22.3	27.3	90	-	3.7	-	6.7	0	20	245	54	28	59	20	19	26	41	18	101	0
	0830	"	1009.6	1006.9	+0.1	26.9	24.1	22.0	28.0	79	+4	4.3	+0.2	10.3	0	36	300	37	26	77	30	57	33	49	27	30	0
	1130	"	1008.9	1006.1	-	30.7	24.7	21.8	26.4	61	-	4.4	-	14.0	0	73	283	28	12	83	41	69	35	65	22	10	1
	#1430	"																									
	1730	"	1005.7	1003.0	-	30.7	24.4	21.1	25.7	60	-	3.9	-	13.0	0	63	288	22	8	55	90	99	17	43	17	15	0
	#2030	"																									
	2330	"	1008.5	1005.7	-	25.4	23.6	22.7	27.8	85	-	3.1	-	6.7	0	8	254	37	11	49	21	75	33	23	23	94	0
Nagarjuna Konda (E)																											
Masulipatam	0830	3	1009.5	1009.1	-0.6	26.6	24.0	22.9	28.1	81	+3	5.3	+1.6	3.2	0	0	520	52	34	31	4	80	52	41	12	46	14
	1730	"	1006.0	1005.7	-	29.2	24.8	22.7	27.1	69	-	4.5	-	4.5	0	0	354	9	6	89	83	53	29	25	3	12	57
Ongole	0830	12	1009.3	1008.0	-	27.6	24.8	23.7	29.2	78	-	3.9	-	2.7 (c)	0	0	268	19	42	15	54	10	26	78	24	95	0
	1730	"	1005.7	1004.4	-	30.6	25.9	23.8	29.8	69	-	3.7	-	4.5 (c)	0	1	345	28	17	113	67	8	10	98	5	19	0
Nellore	0530	20	1007.7	1006.0	-	24.8	22.9	22.0	26.6	85	-	4.2	-	2.7	0	2	185	7	3	11	37	9	20	59	41	179	0
	0830	"	1009.5	1007.3	-0.5	27.4	23.9	22.2	26.9	75	+2	4.9	+0.6	3.7	0	1	260	2	4	2	57	8	33	86	[illegible]	105	0
	1130	"	1009.0	1006.7	-	31.9	24.6	21.1	25.1	55	-	4.7	-	6.3	0	10	342	18	65	29	60	12	31	86	51	14	0
	1730	"	1005.9	1003.6	-	30.8	24.8	21.9	26.4	61	-	4.3	-	6.6	0	1	352	1	136	5	104	0	66	8	31	13	0
	2330	"	1008.9	1006.4	-	26.3	24.1	23.0	28.2	83	-	3.8	-	2.7	0	2	175	8	16	13	66	10	14	34	15	189	0
TELANGANA																											
Ramgundam	0830	156	1008.9	991.2	-0.6	25.5	21.4	18.9	22.5	69	+4	3.1	-0.6	4.5	0	8	294	36	41	21	49	54	39	45	17	64	0
	1730	"	1004.5	987.2	-	33.0	22.8	16.9	20.3	43	-	3.6	-	4.4	0	3	312	62	49	35	56	25	36	41	11	51	0
Hanamkonda	0830	381	1009.3	966.7	-0.5	23.6	20.1	16.7	19.6	62	-1	2.8	0.0	0.8	0	0	95	3	14	5	7	6	45	12	2	271	0
	1730	"	1004.2	962.7	-	32.3	22.9	16.6	20.4	47	-	3.7	-	2.0	0	0	170	1	93	0	8	0	43	8	17	196	0
	0830	269	1009.2	979.0	-0.8	24.5	21.8	19.8	23.4	73	+6	2.9	-0.7	2.3	0	0	335	57	2	8	40	142	2	76	3	31	0
	1730	"	1005.6	976.3	-	31.7	22.7	17.3	20.5	47	-	2.9	-	1.8	0	0	352	96	20	31	74	39	17	62	13	14	0
Bakimpet (A)	0530	613	1007.8	939.7	-	21.6	#	-	-	-	-	3.8	-	14.3	0	84	243	17	25	29	83	26	31	88	27	39	1
	0830	"	1008.7	941.2	-	24.4	#	-	-	-	-	4.0	-	16.8	0	123	229	24	30	17	78	37	30	95	41	14	0
	1130	"	1007.6	941.1	-	29.0	#	-	-	-	-	3.9	-	19.0	0	116	245	31	40	22	73	37	31	83	41	5	3
	1730	"	1004.8	938.5	-	29.3	#	-	-	-	-	4.5	-	16.0	0	87	258	48	34	45	83	9	23	68	32	21	1
	#2330	"																									
Bhadrachalam	0830	111	1009.3	994.7	-0.7	26.0	23.1	21.6	26.2	77	+2	5.2	+0.8	4.5	0	1	350	13	123	24	48	20	88	4	31	[illegible]	0
	1730	"	1004.7	992.3	-	31.0	23.6	19.4	23.2	55	-	4.3	-	3.7	0	0	350	17	122	11	72	15	84	10	19	10	0
Hyderabad (Begumpet)	0230	545	1007.3	946.7	-	22.3	18.8	16.6	19.3	72	-	3.4	-	7.1	0	29	207	12	7	21	67	10	17	79	23	130	0
	0530	"	1007.9	947.0	-	21.1	18.4	16.7	19.5	78	-	3.7	-	6.8	0	37	187	13	9	18	46	5	19	75	39	142	0
	0830	"	1009.5	949.1	-0.2	23.9	19.6	16.9	19.7	68	0	4.0	+0.5	9.2	0	62	225	15	17	15	59	19	22	86	54	79	0
	1130	"	1007.9	948.7	-	29.2	20.7	15.4	18.2	47	-	3.9	-	14.2	0	84	273	21	34	24	78	34	43	74	48	9	1
	1730	"	1004.4	945.5	-	29.9	20.3	14.1	17.0	44	-	4.8	-	11.7	0	43	312	45	31	48	84	25	33	57	31	11	1
	2330	"	1008.3	947.9	-	23.0	19.3	16.5	19.3	67	-	3.5	-	7.9	0	34	241	18	25	29	89	13	22	59	19	91	1
Khammam	0830	112	1009.4	996.8	-	26.3	23.3	21.8	26.5	77	-	4.5	-	3.7	0	1	260	18	3	49	71	42	22	53	9	105	0
	1730	"	1004.6	992.3	-	32.0	23.6	18.9	22.7	[illegible]	-	4.5	-	(a) 3.0	0	3	246	28	6	93	25	32	5	57	3	114	0
Mahbubnagar	0830	583	1009.2	953.3	-	25.3	20.4	17.4	20.3	65	-	3.8	-	8.9	0	6	342	9	42	85	24	5	65	67	51	18	0
	1730	"	1004.4	949.6	-	30.4	20.9	14.2	17.9	45	-	4.6	-	5.4	0	0	339	23	38	92	34	25	32	60	35	27	0
RAYALASEEMA																											
Kurnool	0830	281	1009.7	978.1	-0.5	25.1	21.0	18.5	21.7	68	+3	3.4	+0.1	11.7	0	69	293	0	34	0	98	1	149	3	77	4	0
	1730	"	1004.3	973.8	-	32.4	22.4	16.1	19.1	42	-	4.0	-	10.4	2	53	295	6	36	3	118	2	94	3	79	16	7

Data not available for complete year, hence no annual means. (A) Aerodrome. (a) Data for 365 days. (c) Data for 363 days. (#) Returns not received.

Table XII - Summary of Observations at Fixed Hours for the year 1961

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean Pressure in millibars: At mean sea level or ht. in c.p.s. of mainst standard isobaric level	Mean Pressure in millibars: At station level	Mean Pressure in millibars: Departure from normal	Mean Temperature °C: Dry Bulb	Mean Temperature °C: Wet Bulb	Mean Temperature °C: Dew Point	Vapour pressure in mb.	Relative Humidity %	Relative Humidity %: Departure from normal	Cloud Amt. (Octas): Mean Amount	Cloud Amt. (Octas): Departure from normal	Mean wind speed in m. per hour	Wind speed (m.p.h.): 4 or more	Wind speed (m.p.h.): 20 to 41	Wind speed (m.p.h.): 1 to 19	No. of observations Wind Direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
RAYALASEEMA (contd.)																											
Bandval	(R)0830 (R)1730																										
Anantapur	0530	330	1008.1	968.6	-	22.5	19.9	18.2	21.3	77	-	3.6	-	7.6	0	33	174	3	5	18	10	7	42	112	10	159	0
	0830	"	1009.8	970.6	-0.1	25.2	21.2	18.9	22.0	69	+7	3.7	+0.1	9.6	0	49	212	5	10	25	13	14	51	134	9	105	0
	1130	"	1008.6	970.0	-	29.9	22.2	17.6	20.7	50	-	3.5	-	13.8	0	77	271	9	41	74	28	11	42	115	28	18	0
	#1430	"																									
	1730	"	1004.5	966.4	-	31.5	22.1	16.2	19.3	44	-	4.2	-	13.1	0	71	254	19	54	97	13	1	16	91	34	41	0
	#2030	"																									
	2330	"	1008.3	969.4	-	26.4	20.9	17.4	20.5	61	-	3.3	-	14.5	0	86	246	3	10	112	46	8	46	96	11	34	0
Cuddapah	0830	130	1010.1	995.4	-0.4	26.9	22.9	20.9	24.9	70	+4	3.1	-0.5	1.2	0	0	91	0	0	29	0	0	0	54	8	275	0
	1730	"	1005.3	990.9	-	32.4	24.4	20.2	24.1	51	-	3.7	-	3.0	0	0	217	0	7	136	2	0	1	48	23	149	0
Arogyavaram	0830	701	1009.9	932.6	-	23.4	19.5	17.3	19.7	70	-	3.7	-	7.2	0	10	313	36	10	13	44	83	16	85	34	43	2
	1730	"	1005.0	929.5	-	28.5	20.0	14.7	17.1	47	-	4.1	-	9.1	0	2	358	71	48	107	17	14	13	52	38	6	0
MADRAS STATE																											
Madras	0830	6	1007.9	1009.2	-	27.6	24.0	22.3	26.9	74	-	4.5	-	7.3	0	17	285	31	15	6	6	27	96	100	14	64	7
Madras (Meenambakkam)	0230	16	1007.7	1005.9	-	25.6	23.4	22.3	27.2	83	-	3.5	-	6.4	0	21	229	17	2	6	6	75	35	81	28	116	0
	0530	"	1008.0	1006.2	-	24.9	22.9	21.9	26.5	84	-	3.9	-	6.3	0	13	257	17	2	4	5	60	50	96	36	96	0
	0830	"	1010.0	1008.2	-0.3	27.4	23.7	21.9	26.5	74	+1	4.7	+0.7	9.7	0	25	318	37	5	4	12	51	75	103	56	23	0
	1130	"	1009.2	1007.5	-	31.3	24.1	20.5	24.2	55	-	4.8	-	13.1	0	77	283	46	28	45	20	52	45	93	29	6	2
	#1430	"																									
	1730	"	1006.4	1004.7	-	30.0	24.4	21.7	26.2	63	-	4.3	-	13.7	0	65	295	36	38	86	95	55	24	20	6	6	1
	#2030	"																									
	2330	"	1009.2	1007.4	-	26.5	23.9	22.7	27.8	81	-	3.3	-	8.7	0	26	265	28	16	24	53	79	42	26	23	75	0
Vellore	0530	214	1008.5	984.2	-	23.2	21.2	18.5	23.7	78	-	4.0	-	1.2	0	0	103	1	6	8	11	20	11	38	10	261	0
	0830	"	1010.1	985.9	-0.2	25.3	22.0	20.3	23.9	75	0	4.8	+1.4	4.3	0	2	250	9	34	5	5	22	28	117	12	114	0
	1130	"	1009.3	985.5	-	30.1	23.2	19.6	22.9	55	-	4.6	-	6.1	0	1	333	23	44	21	21	24	32	118	51	32	0
	1730	"	1005.7	982.1	-	31.0	22.8	18.1	21.1	49	-	4.8	-	5.9	0	3	318	14	64	65	53	24	29	53	19	45	0
	2330	"	1009.5	985.4	-	26.0	22.4	20.6	24.3	73	-	3.4	-	(a) 3.0	0	0	203	7	26	38	44	15	11	53	9	162	0
Tambaram (A)	0830	29	1009.6	1006.3	-	27.7	25.1	23.9	29.8	81	-	5.0	-	13.1	0	48	295	27	8	2	7	34	112	85	68	23	0
	1730	"	1006.3	1003.1	-	30.2	25.7	23.7	29.7	70	-	4.5	-	21.1	0	174	190	32	68	58	118	25	34	17	12	2	0
Tirupattur	0830	390	1010.6	966.8	-	23.2	21.4	20.4	23.8	85	-	6.7	-	3.0	0	0	341	240	63	10	0	11	0	16	1	25	0
	1730	"	1003.6	962.9	-	29.7	23.3	19.9	23.4	57	-	6.9	-	7.0	0	0	364	189	99	25	1	15	3	31	1	2	0
Mettur Dam	0830	-	-	-	-	26.0	23.7	22.3	27.2	78	-	3.9	-	4.0	0	0	332	0	86	82	0	82	0	82	0	34	0
	1730	-	-	-	-	29.9	26.0	24.2	30.6	73	-	4.9	-	5.5	0	0	359	0	83	0	77	0	136	0	63	7	0
Cuddalore	0530	12	1007.7	1006.4	-	24.6	22.9	22.1	26.7	53	-	4.9	-	4.1	0	3	261	15	35	3	35	26	111	12	27	102	0
	0830	"	1009.9	1008.6	-0.5	27.1	23.9	22.3	27.0	76	-1	3.6	+ 1.6	3.9	0	0	335	25	43	3	31	23	141	17	52	31	0
	1130	"	1009.3	1007.9	-	30.9	24.7	21.7	25.9	59	-	5.0	-	9.9	0	15	349	18	80	12	33	10	116	14	21	2	0
	1730	"	1006.3	1005.1	-	29.3	25.1	23.0	28.5	70	-	4.5	-	13.2	0	69	293	4	96	33	161	11	47	1	9	4	0
	2330	"	1009.1	1007.7	-	26.9	24.1	22.9	27.2	79	-	4.5	-	7.3	0	3	324	11	77	10	96	20	94	4	15	39	0
Kallakurichchi	0830	127	1009.8	995.5	-	26.6	23.6	22.2	26.9	82	-	4.3	-	6.2	0	2	318	41	15	7	47	17	102	2	89	46	0
	1730	"	1005.8	993.2	-	31.5	24.3	21.5	26.0	58	-	4.6	-	9.3	0	14	337	11	103	62	60	10	79	10	16	15	0
Salem	0530	278	1008.5	977.1	-	23.0	20.8	19.5	22.8	81	-	4.4	-	2.5	0	1	185	1	25	60	7	14	36	40	3	180	0
	0830	"	1010.5	979.1	-0.5	25.5	21.7	19.7	23.1	71	-4	4.9	+1.2	2.1	0	0	159	3	15	41	7	27	16	44	6	207	0
	1130	"	1008.0	978.3	-	29.9	22.6	18.5	21.6	52	-	4.8	-	6.1	0	2	336	5	30	77	17	23	48	115	21	28	2
	1730	"	1005.1	974.7	-	31.0	22.4	17.3	[illegible]	47	-	5.2	-	6.0	0	3	270	4	33	104	17	9	41	60	5	88	0
	2330	"	1008.4	978.1	-	25.5	21.7	18.5	24.5	64	-	4.4	-	7.1	0	13	263	4	34	105	23	3	48	55	5	90	0

(R) Retrogress. # Data not available for complete year, hence not shown herein. (a) Data for 363 days. (R) Retrogress not recorded.

Table XXI - Summary of Observations at Fixed Hours for the year 1954

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean Pressure in millibars: At mean sea level or ht. in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean Temperature °C: Dry Bulb	Wet Bulb	Dew Point	Vapour pressure in mb.	Relative Humidity %	Departure from normal	Cloud Amt. (Octas): Mean Amount	Departure from normal	Mean wind speed km. per hour	Wind speed (km.p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind Direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
MADRAS STATE (Contd.)																											
Coimbatore (Pilamedu)	0530	399	1009.1	964.1	-	21.6	20.6	20.0	23.6	90	-	3.9	-	11.9	0	65	230	39	49	6	1	90	99	6	2	71	3
	0830	"	1010.7	966.1	-	24.1	21.8	20.5	24.3	81	-	4.4	-	13.8	0	79	240	22	79	22	2	91	94	4	2	47	3
	1130	"	1009.4	965.4	-	28.5	22.5	19.2	22.5	58	-	4.2	-	15.9	1	113	216	13	82	45	13	80	70	12	2	36	13
	1730	"	1006.0	962.2	-	28.8	21.9	17.6	20.4	55	-	4.4	-	21.4	0	180	181	6	57	85	8	79	115	7	1	3	3
	2330	"	1009.9	965.2	-	23.5	21.3	19.9	23.6	82	-	3.7	-	13.4	0	101	227	10	35	48	2	106	122	5	0	38	0
Coimbatore	0830	409	1010.7	965.0	-0.2	24.4	21.4	19.7	23.1	76	-3	3.2	-1.4	19.6	0	192	171	4	62	105	65	71	53	2	1	3	0
	‡1730	"																									
Aggapattinam	0830	9	1010.3	1009.2	-0.2	27.9	23.9	21.9	26.3	71	-3	4.9	+0.6	12.6	1	50	305	21	44	19	31	6	75	108	52	10	0
	1730	"	1006.7	1005.6	-	29.6	24.9	22.6	27.6	67	-	4.7	-	18.6	0	197	163	18	94	35	77	52	62	15	7	6	0
Tiruchchirapally	0230	88	1007.9	997.9	-	24.9	22.4	21.1	25.2	80	-	3.9	-	12.5	0	85	221	34	65	12	6	17	15	135	22	60	0
	0530	"	1008.1	998.1	-	24.2	22.2	21.1	25.1	83	-	4.2	-	10.8	0	69	197	31	44	6	1	10	11	149	14	100	0
	0830	"	1009.9	999.9	-1.0	26.8	23.2	21.4	25.5	73	+1	4.3	+0.6	16.4	0	126	211	50	48	11	11	15	22	167	13	29	0
	1130	"	1009.1	999.3	-	31.0	24.0	20.5	24.2	55	-	4.6	-	19.6	1	169	182	24	76	24	21	9	35	145	18	14	0
	‡1430	"																									
	1730	"	1005.6	995.9	-	31.8	23.8	19.5	22.9	50	-	4.7	-	17.5	1	127	213	9	54	84	39	14	32	74	32	25	3
	‡2030	"																									
	2330	"	1009.3	999.3	-	26.0	22.9	21.3	25.4	77	-	3.9	-	14.8	0	87	249	13	64	52	34	19	29	91	34	30	0
Vedaranniyam	0830	4	1010.1	1009.6	-	28.2	24.8	23.2	28.6	75	-	3.4	-	7.3	0	2	345	41	68	2	49	55	109	1	22	19	0
	1730	"	1006.9	1006.4	-	29.2	25.5	23.8	29.6	73	-	2.8	-	7.5	0	8	355	40	79	4	58	76	93	1	12	3	0
Atiramapattinam	0830	6	1009.9	1009.2	-	27.5	24.0	22.3	26.9	74	-	4.3	-	8.1	0	4	344	67	13	12	11	57	38	20	130	18	0
	1730	"	1006.4	1005.7	-	29.5	24.9	22.8	27.9	68	-	4.4	-	17.7	0	141	217	11	93	11	41	174	18	0	10	8	0
Madurai	0830	133	1010.3	995.4	-0.2	27.1	22.9	20.6	24.5	69	0	3.3	-1.2	(b) 4.7	0	0	348	99	36	15	6	4	17	45	112	16	14
	‡1730	"																									
Madurai (A)	0530	133	1008.5	993.5	-	24.3	22.0	20.6	24.6	82	-	3.9	-	6.5	0	18	258	51	99	11	5	9	13	51	38	90	1
	0830	"	1010.3	995.6	-	27.3	23.0	20.8	24.7	69	-	4.1	-	9.8	0	19	317	106	79	13	9	5	23	41	60	30	0
	1130	"	1009.3	994.7	-	31.1	23.7	19.8	23.3	52	-	4.3	-	13.0	0	63	289	48	102	32	14	13	38	60	42	14	3
	1730	"	1006.1	991.5	-	31.0	23.5	19.3	22.7	52	-	4.9	-	17.0	0	123	229	5	83	74	40	33	19	81	15	14	0
Tondi	0830	5	1010.3	1009.6	-	27.5	24.1	22.5	27.4	75	-	3.9	-	7.7	0	9	326	96	13	24	22	40	81	13	46	31	0
	1730	"	1006.8	1006.2	-	29.3	25.6	24.0	30.0	74	-	4.2	-	24.0	0	102	260	3	64	76	94	101	16	4	4	4	0
Rameswaram	0830	11	1010.1	1008.8	-0.3	28.0	25.3	24.2	30.2	80	+1	3.9	+0.8	(a) 8.3	0	31	296	37	53	25	27	31	98	36	20	38	0
	1730	"	1006.8	1005.5	-	28.3	25.8	24.6	30.9	79	-	3.7	-	(a) 10.0	0	44	313	18	107	13	19	99	92	4	5	8	0
Tuticorin	0830	4	1010.5	1010.1	-0.2	28.1	23.9	21.7	26.1	69	0	3.5	-0.1	11.8	0	54	309	104	45	7	6	11	38	121	31	3	0
	1730	"	1006.8	1006.4	-	29.9	24.9	22.5	27.6	66	-	4.2	-	22.4	0	225	140	4	32	89	56	66	22	92	4	1	0
Palayamkottai	0830	51	1010.3	1004.6	-0.1	28.2	23.4	20.9	24.8	66	-1	4.7	+1.1	(a) 8.0	0	23	231	114	3	2	0	4	6	104	20	111	1
	1730	"	1006.5	1000.9	-	30.8	23.8	20.2	23.7	54	-	5.1	-	(a) 11.3	0	31	293	14	27	81	30	24	12	120	23	21	13
Kayalpattinam	0830	37	1010.1	1006.0	-	27.1	23.6	21.9	26.2	73	-	4.4	-	19.1	0	198	168	60	72	3	1	1	12	177	40	0	0
	1730	"	1007.2	1003.1	-	28.1	24.6	22.7	27.7	73	-	4.7	-	19.3	0	200	166	12	57	43	10	3	30	188	23	0	0
COASTAL KERALA																											
Kannur	0830	4	1010.3	1009.9	-0.1	24.9	22.9	21.9	26.6	84	0	4.2	-0.1	8.5	0	43	309	3	45	130	22	3	2	17	50	14	80
	1730	"	1007.4	1006.9	-	24.5	25.0	23.3	28.8	73	-	4.7	-	(a) 14.5	0	101	257	2	7	4	9	6	22	31	220	7	57
Kozhikode	0830	26	1010.3	1007.5	-0.6	24.7	22.4	21.1	25.5	81	+2	5.1	+0.4	5.9	0	6	334	8	34	287	5	16	23	37	10	26	0
	1730	"	1007.3	1004.4	-	28.3	24.6	22.7	27.8	72	-	5.2	-	8.1	0	13	347	8	3	8	2	26	28	193	92	6	0
Mangalore (Bajpe)	0230	102	1006.4	996.2	-	24.2	23.4	22.1	26.7	[illegible]	-	4.2	-	4.4	0	7	228	8	35	87	11	6	22	34	27	151	1
	0830	"	1006.7	996.1	-	24.5	23.8	21.6	26.1	85	-	4.3	-	4.9	0	4	281	11	19	173	18	4	13	30	13	81	0

(A) Automatic. ‡ Data not available for complete year, hours in normal working. * Discontinued from [illegible]. (a) Based on [illegible] days. (b) Based on [illegible] days.

Table III - Summary of Observations on Upper Winds for the year 1946

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean Pressure in millibars: At mean sea level or ht. in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean Temperature °C: Dry Bulb	Wet Bulb	Dew Point	Vapour pressure in mb.	Relative Humidity %	Departure from normal.	Cloud Amt. (Okta): Mean Amount	Departure from normal	Mean wind speed km. per hour	Wind speed (km.p.h.): 48 or more	20 to 41	1 to 19	No. of observations Wind Direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
COASTAL MOBILE (Contd.)																											
Mangalore (Bajpe) (contd.)	0830	102	1018.5	999.0	-	25.6	23.1	21.7	26.3	80	-	4.3	-	5.5	0	3	328	10	31	193	24	4	13	31	22	35	3
	1130	"	1010.2	998.8	-	29.5	23.8	20.7	25.1	62	-	4.6	-	8.5	0	3	343	6	17	59	35	14	37	104	70	18	6
	#1430	"																									
	1730	"	1007.3	995.9	-	28.1	24.0	21.9	26.7	71	-	4.7	-	18.2	0	23	341	4	2	2	2	3	25	221	103	2	0
	#2030	"																									
	2330	"	1018.0	998.3	-	25.1	23.3	22.3	27.1	85	-	4.3	-	4.8	0	5	251	47	15	34	17	12	24	35	72	110	0
Mangalore	0830	22	1010.4	1007.9	-0.7	26.3	23.6	22.2	27.2	79	+1	4.9	+0.7	4.2	0	0	359	19	38	182	35	14	20	26	14	7	11
	1730	"	1007.4	1005.0	-	28.8	26.0	23.2	28.5	73	-	5.0	-	7.1	0	4	362	3	3	4	2	8	65	108	113	0	60
INTERIOR MOBILE SECTOR																											
Bidar	(A)0830																										
	(R)1730																										
Gulbarga	0830	458	1009.6	958.6	-0.5	25.0	19.4	15.7	18.7	60	-5	3.8	+1.0	(D)	0	20	251	21	26	54	13	16	26	91	22	93	0
	1730	"	1004.1	954.2	-	31.7	20.5	13.0	16.1	38	-	4.5	-	12.2	0	53	301	38	30	74	38	33	27	79	35	12	0
Bijapur	0830	594	1009.8	943.8	-0.7	22.8	19.0	16.7	19.6	70	+6	3.4	-0.4	2.3	0	0	257	36	2	12	25	14	30	102	36	109	0
	1730	"	1004.3	940.3	-	30.7	21.1	15.5	18.2	44	-	3.9	-	2.3	0	0	256	34	26	14	28	13	27	75	35	110	0
Raichur	0830	400	1009.5	965.0	-0.6	25.5	21.2	18.5	21.9	67	+3	4.5	+1.9	5.7	0	14	278	23	18	3	46	72	100	40	[illegible]	74	11
	1730	"	1004.5	961.1	-	31.9	22.4	16.7	19.7	43	-	4.8	-	7.0	0	4	349	2	126	6	97	1	55	5	61	13	0
Belgaum	0830	753	1010.1	926.9	-0.9	20.9	18.4	16.7	19.7	79	+6	3.8	+0.1	3.0	0	0	207	5	2	43	0	4	7	133	[illegible]	159	0
	1730	"	1005.3	924.1	-	26.1	20.3	15.8	19.2	58	-	4.4	-	6.6	0	0	357	2	9	55	17	6	13	196	52	9	7
Belgaum (Sawra)	0530	747	1008.9	925.9	-	19.4	17.1	15.4	18.3	80	-	3.7	-	6.3	0	29	208	5	25	21	24	10	47	92	12	129	1
	0830	"	1010.1	927.8	-	21.9	18.3	15.8	18.7	72	-	4.4	-	8.5	0	38	252	9	52	29	21	7	38	111	21	76	2
	1130	"	1008.7	927.7	-	26.9	19.3	13.9	17.0	51	-	4.1	-	12.4	0	71	285	26	55	42	48	19	38	93	34	10	1
	#1430	"																									
	1730	"	1005.3	924.8	-	27.4	19.8	14.5	17.7	52	-	4.7	-	13.2	0	103	256	14	49	22	23	6	55	158	28	7	4
	#2030	"																									
Gadag	0530	650	1008.9	936.5	-	20.7	18.8	17.5	20.5	83	-	3.6	-	6.1	0	7	245	2	7	36	12	9	42	144	0	114	0
	0830	"	1010.2	938.3	-0.4	22.6	19.6	17.9	20.9	76	+5	3.7	+0.4	6.4	0	2	306	1	26	47	14	5	50	153	10	58	0
	1130	"	1008.7	938.2	-	28.6	21.5	17.6	20.6	55	-	3.6	-	8.5	0	12	329	6	29	78	24	12	27	136	28	25	1
	#1430	"																									
	1730	"	1004.8	934.9	-	29.6	21.3	16.4	19.3	51	-	4.4	-	6.0	0	3	322	5	56	72	10	10	28	114	30	41	0
	#2030	"																									
	2330	"	1009.5	937.7	-	23.8	19.8	17.8	20.9	75	-	3.3	-	[illegible]	0	6	336	0	10	73	24	4	59	170	2	24	0
INTERIOR MOBILE SECTOR																											
Bellary	0830	449	1009.9	*935.8	-0.4	24.8	20.9	18.6	21.9	70	+9	3.2	-0.3	6.5	0	13	276	0	9	1	99	3	49	0	126	79	0
	1730	"	1004.6	933.8	-	31.2	23.1	18.5	21.7	49	-	4.4	-	7.8	0	9	328	0	17	3	124	1	46	0	146	29	0
Chitradurga	0830	733	1010.0	929.4	-0.3	22.3	19.4	17.4	18.7	75	+6	4.1	0.0	6.0	0	3	303	2	1	64	12	12	70	143	2	60	0
	1730	"	1004.6	925.9	-	28.8	20.4	15.2	17.9	48	-	4.3	-	4.2	0	0	274	7	19	88	5	0	17	129	9	92	0
Shimoga	0830	571	1010.4	946.7	-0.5	22.0	19.6	18.2	21.2	79	-2	#	-	-	#	-	-	10	16	23	10	15	94	81	14	103	0
	1730	"	1004.7	943.3	-	28.7	21.1	16.4	19.5	53	-	-	-	-	#	-	-	13	28	36	26	4	82	111	13	54	0
Agumbe	0830	-	-	-	-	21.2	19.8	19.0	22.3	88	-	-	-	3.4	0	0	366	7	38	27	44	42	72	53	33	0	0
Bangalore	0830	890	*	*	-	20.9	18.9	17.7	20.5	83	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kannur	0830	960	1384.3	905.7	-	19.9	18.2	16.3	19.9	85	+9	4.1	-0.1	3.2	0	0	324	24	4	85	2	4	30	174	1	42	0
	1730	"	1487.6	902.8	-	25.8	19.3	15.0	17.7	57	-	4.4	-	3.4	0	0	336	13	18	97	5	0	63	110	28	30	0
Mangalore	0230	882	1484.5	908.0	-	19.8	18.2	17.2	19.8	86	-	3.6	-	6.0	0	13	246	6	7	73	24	6	57	76	8	109	0
	0830	"	1303.7	909.8	-0.4	20.2	18.6	17.1	19.9	80	+3.3	4.6	+0.2	6.7	0	14	296	6	13	72	25	2	64	94	31	56	0

(A) Returns not received. # Data not available for complete year, hence no annual means. (D) Data for 364 days. * Data not available.

Table 121 - Summary of Observations at Fixed Hours for the year 1955

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean Pressure in millibars: At mean sea level or ht. in s.p.m. of nearest standard isobaric level	Mean Pressure in millibars: At station level	Mean Pressure in millibars: Departure from normal	Mean Temperature °C: Dry Bulb	Mean Temperature °C: Wet Bulb	Mean Temperature °C: Dew Point	Vapour pressure in mb.	Relative Humidity %	Relative Humidity %: Departure from normal	Cloud Amt. (Octas): Mean Amount	Cloud Amt. (Octas): Departure from normal	Mean wind speed km. per hour	Wind speed (km.p.h.): 61 or more	Wind speed (km.p.h.): 30 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations Wind Direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
DECCAN PLATEAU SOUTH (Contd.)																											
Bangalore (Contd.)	1130	921	1512.6	909.5	-	25.9	19.6	15.8	18.3	56	-	4.3	-	9.1	0	26	304	11	24	76	29	6	56	92	56	36	3
	#1430	"																									
	1730	"	1487.8	906.8	-	26.7	19.5	14.8	17.4	52	-	4.9	-	7.8	0	22	297	16	18	97	28	5	31	73	46	47	0
	#2030	"																									
Bangalore (A)	0530	897	1483.6	910.4	-	18.9	18.0	17.5	20.3	92	-	4.2	-	6.9	0	9	245	6	9	66	14	1	27	126	5	112	0
	0830	"	1504.9	912.4	-	21.0	19.0	17.8	20.6	83	-	4.8	-	9.8	0	25	284	8	14	69	15	9	29	148	17	57	0
	1130	"	1510.9	912.0	-	25.7	20.0	16.5	19.4	59	-	4.4	-	12.2	0	41	285	8	18	86	18	8	26	138	24	40	0
	#1430	"																									
	1730	"	1485.5	909.1	-	26.7	20.1	16.1	18.8	56	-	4.9	-	11.5	0	36	296	31	14	102	34	6	22	91	31	34	1
	#2030	"																									
	2330	"	1500.0	911.8	-	21.2	18.9	17.5	20.3	81	-	3.6	-	8.9	0	18	273	3	12	104	24	2	26	114	6	75	0
Mysore	0830	767	1010.9	926.3	-0.3	21.7	18.8	17.1	19.7	76	+1	3.0	-1.4	6.0	0	11	344	18	41	30	27	43	84	63	42	11	4
	1730	"	1005.8	923.3	-	27.7	19.5	14.0	16.8	49	-	4.2	-	8.1	0	19	344	30	55	67	30	12	69	71	27	3	2
KERALA																											
Calicut	0530	5	1009.3	1008.7	-	24.3	23.1	22.5	27.4	90	-	3.5	-	6.1	0	15	254	12	82	123	8	1	4	13	26	97	0
	0830	"	1010.9	1010.3	-0.3	25.0	23.7	22.5	27.5	82	-1	3.9	-0.5	5.9	0	7	293	24	32	138	9	1	3	14	39	66	0
	1130	"	1010.9	1010.3	-	29.1	25.0	23.1	28.5	72	-	3.9	-	9.5	0	22	327	3	-	4	6	19	84	134	93	17	0
	1730	"	1007.9	1007.3	-	28.6	25.3	23.8	29.4	76	-	4.2	-	12.6	0	37	296	4	5	3	0	11	20	176	133	13	0
	2330	"	1010.6	1010.0	-	29.0	24.2	23.3	28.7	85	-	3.6	-	(x) 7.1	0	37	225	44	56	56	7	1	7	29	82	103	0
Palghat	0830	97	1010.8	999.8	-	26.1	23.3	21.9	26.5	79	-	4.3	-	9.9	0	3	343	0	0	126	8	0	42	165	5	20	0
	1730	"	1006.7	995.8	-	29.3	23.7	20.5	24.2	62	-	4.2	-	11.4	0	15	335	1	2	99	2	0	12	225	9	16	0
Fort Cochin	0830	3	1010.8	1010.5	-0.6	28.5	24.2	23.0	28.5	81	+2	6.1	+ 1.9	5.0	0	1	303	27	136	87	15	1	7	14	17	62	0
	1730	"	1007.6	1007.3	-	28.1	25.2	23.7	29.6	78	-	6.2	-	8.9	0	11	336	12	8	4	0	1	38	141	242	20	0
Cochin (R.A.S.)	0230	3	1009.2	1008.9	-	24.9	23.8	23.2	28.5	90	-	5.0	-	1.7	0	2	51	3	6	2	2	2	4	13	21	313	0
	0530	"	1009.1	1008.8	-	24.2	23.3	22.8	27.8	92	-	4.7	-	1.9	0	3	64	6	12	15	3	1	4	9	16	299	1
	0830	"	1010.9	1010.6	-	26.5	24.1	22.8	28.1	81	-	4.7	-	2.2	0	1	90	13	16	30	6	1	4	5	12	275	4
	1130	"	1010.8	1010.5	-	29.4	24.8	22.3	27.7	68	-	4.8	-	8.3	0	13	251	6	10	16	5	9	41	73	95	102	9
	1730	"	1007.9	1007.6	-	28.5	24.8	23.0	28.2	73	-	5.3	-	11.7	0	12	293	3	0	2	1	6	58	145	89	61	1
	2330	"	1010.6	1010.3	-	25.8	24.3	23.5	29.1	87	-	5.3	-	2.8	0	4	96	8	9	9	5	5	5	26	33	266	0
Alleppey	0830	4	1010.9	1010.5	0.0	26.4	24.5	23.6	29.4	85	+3	5.1	-0.5	6.5	0	12	312	10	94	68	82	0	11	16	42	42	1
	1730	"	1007.9	1007.5	-	29.1	25.4	23.8	29.5	74	-	5.1	-	18.7	0	170	194	2	1	0	0	0	8	87	266	2	0
Munnar	0830	34	1010.9	1006.9	-	24.8	23.4	22.6	[illegible]	87	-	5.2	-	0.5	0	0	27	2	2	6	8	3	3	1	2	339	0
	1730	"	1008.1	1004.3	-	26.2	24.9	23.3	29.1	77	-	6.9	-	4.4	0	0	358	6	13	24	27	43	89	102	52	10	0
Trivandrum	0230	64	1008.8	1001.5	-	24.6	23.3	22.7	27.6	89	-	3.7	-	3.8	0	2	216	52	47	8	3	0	3	21	84	148	0
	0530	"	1008.9	1001.5	-	24.0	22.9	22.4	27.1	91	-	3.8	-	5.2	0	2	294	96	83	9	6	0	3	10	89	70	0
	0830	"	1010.8	1003.5	-0.4	25.9	23.7	22.7	27.6	83	+1	4.3	-0.3	5.4	0	4	309	68	81	16	15	0	2	12	119	53	0
	1130	"	1010.2	1003.0	-	29.5	24.4	21.9	26.5	65	-	5.1	-	9.2	0	19	322	33	14	8	8	10	43	84	140	25	1
	#1430	"																									
	1730	"	1007.9	1000.6	-	28.0	24.4	22.6	27.6	73	-	5.1	-	9.5	0	18	340	13	9	1	5	19	64	88	159	8	0
	#2030	"																									
	2330	"	1010.5	1003.2	-	23.4	23.8	23.0	28.3	87	-	4.2	-	6.0	0	3	311	101	49	6	12	1	3	19	123	32	0
Trivandrum (A)	0830	8	1011.1	1010.1	-	26.6	23.9	22.3	27.2	77	-	4.6	-	13.7	0	102	210	137	59	32	12	1	5	9	56	54	1
ARABIAN SEA ISLANDS																											
Andaman	0530	4	1008.8	1000.3	-	26.4	24.3	23.4	28.7	84	-	3.7	-	[illegible]	0	64	[illegible]	28	10	2	2	0	32	98	86	67	[illegible]
	0830	"	1010.8	1010.3	-	26.7	24.9	23.7	29.4	80	44	4.4	+0.1	[illegible]	0	43	[illegible]	18	12	5	3	2	30	81	100	[illegible]	[illegible]
	1130	"	1011.1	1010.6	-	[illegible]	25.6	25.6	[illegible]	69	-	4.4	-	[illegible]	0	37	[illegible]	53	[illegible]	[illegible]	[illegible]	4	31	8 6	[illegible]	[illegible]	[illegible]
	1730	"	1008.2	1007.8	-	29.2	25.4	23.7	29.2	73	-	4.4	-	[illegible]	0	[illegible]	[illegible]	[illegible]	5	[illegible]	[illegible]	[illegible]	[illegible]	126	[illegible]	[illegible]	[illegible]
	2330	"	1008.4	1010.0	-	27.0	24.7	23.6	29.1	82	-	[illegible]	-	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

(x) Beaufort. [illegible] Data not available for specified period. [illegible] per cent [illegible]. [illegible] Data for 30 days.

Table XIX - Summary of [illegible]

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean Pressure in millibars: At mean sea level or ht. in m.p.m. of nearest station having barometric level	Mean Pressure in millibars: At station level	Mean Pressure in millibars: Departure from normal	Mean Temperature °C: Dry Bulb	Mean Temperature °C: Wet Bulb	Mean Temperature °C: Dew Point	Vapour pressure in mb.	Relative Humidity %	Relative Humidity %: Departure from normal	Cloud Amt. (Oktas): Mean Amount	Cloud Amt. (Oktas): Departure from normal	Mean wind speed km. per hour	Wind speed (m.p.h.): 6 or more	Wind speed (m.p.h.): 20 to 61	Wind speed (m.p.h.): 1 to 19	No. of observations Wind Direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
ARABIAN SEA ISLANDS (Contd.)																											
Minicoy	0530	2	1009.2	1009.0	-	25.3	22.8	22.9	28.0	85	-	4.6	-	8.2	0	32	231	34	38	4	5	1	11	123	47	103	0
	0830	"	1011.1	1010.9	-0.2	27.4	24.7	23.4	28.9	79	+3	3.1	+1.1	8.4	0	33	256	46	31	9	5	2	11	122	62	77	1
	1130	"	1011.3	1011.1	-	29.1	25.3	23.6	29.1	72	-	5.2	-	11.1	0	32	321	49	41	30	9	2	10	137	75	13	0
	#1430	"																									
	1730	"	1008.6	1008.4	-	28.4	25.0	23.5	28.9	73	-	5.3	-	10.7	0	47	275	49	44	15	7	1	4	129	73	44	0
	#2030	"																									
	2330	"	1010.9	1010.7	-	26.3	24.1	23.1	28.3	83	-	4.1	-	10.6	0	74	239	29	39	15	5	0	15	119	73	73	0
HILL STATIONS EXCLUDING KASHMIR																											
Dalhousie	0830	1959	1577.1	798.6	0.0	13.5	9.8	6.0	10.2	64	-3	2.6	+0.2	2.2	0	0	238	12	88	18	44	6	17	17	15	128	21
	1730	"	1417.1	797.3	-	15.1	11.8	9.1	12.4	71	-	3.2	-	2.1	0	0	224	7	68	13	40	4	32	16	11	142	33
Dharamsala	0830	1211	1521.6	881.8	-0.4	18.3	13.3	8.7	12.2	57	0	3.8	+0.8	1.1	0	0	216	19	146	9	3	2	5	8	24	150	0
	1730	"	1518.8	881.3	-	21.8	14.9	10.0	13.6	53	-	4.7	-	2.0	0	0	351	9	10	6	4	5	273	28	16	15	0
Simla	0830	2202	1479.7	780.8	-0.1	13.5	8.7	1.9	8.6	55	+5	3.3	-0.1	1.7	0	1	280	40	34	7	51	101	25	6	14	85	3
	1730	"	1468.4	780.2	-	14.0	11.0	8.0	11.7	70	-	4.2	-	1.5	0	0	244	3	56	2	35	23	112	1	11	122	0
Lokpal	0830	-	-	-	-	-3.2	-4.9	-8.1	3.8	69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Badrinath (R)																											
Joshimath	#0830																										
	#1730																										
Mussoorie	0830	2042	*	-	-	14.1	9.9	5.2	10.0	65	+2	3.6	0.0	2.4	0	0	245	65	22	0	36	39	21	0	42	121	0
	1730	"	*	-	-	15.0	11.5	8.3	11.2	69	-	4.5	-	(a) 3.3	0	0	303	67	26	0	54	86	31	0	29	62	0
Nukteswar (Kumaon)	0830	2311	3123.7	771.9	-0.2	12.7	8.3	2.6	8.4	58	0	3.0	-0.3	6.7	0	21	310	5	56	66	15	8	21	92	82	33	0
	1730	"	3110.9	770.5	-	14.0	10.0	5.7	10.3	62	-	3.4	-	12.3	0	60	278	1	20	24	12	9	32	149	54	28	0
Naini Tal	0830	1953	-	803.6	-0.3	#	#	#	#	#	-	3.0	-	5.4	0	17	226	22	23	70	52	0	1	46	39	123	0
	1730	"	-	801.8	-	#	#	#	#	#	-	3.0	-	7.6	0	4	348	26	8	45	43	23	17	178	16	14	0
Kalimpong	0830		#	#	-	#	#	#	#	#	-	-	-	(1) 4.7	0	0	353	19	0	1	75	1	14	1	242	1	0
	1730		#	#	-	#	#	#	#	#	-	#	-	(b) 4.7	0	2	352	0	1	1	231	2	27	0	42	1	0
Darjeeling	0830	2126	1496.5	709.4	+1.1	13.1	11.5	10.2	13.1	84	+10	5.3	+0.6	1.1	0	0	94	51	9	0	1	1	16	6	4	272	6
	1730	"	1468.9	786.8	-	13.3	11.9	10.8	13.6	85	-	6.3	-	2.3	0	3	130	18	7	2	3	3	46	27	3	233	24
Kohima	0830	1406	1542.1	863.8	-	17.7	15.9	14.7	17.2	85	-	4.6	-	2.5	0	0	348	13	7	1	76	0	11	5	212	18	23
	(a)1730	"	1487.0	858.3	-	18.5	16.8	15.5	16.7	85	-	5.8	-	(a) 2.5	0	0	355	32	15	2	13	1	18	26	229	10	9
Shillong	0830	1500	1502.3	850.4	+0.9	16.9	15.5	12.8	15.7	69	0	4.4	+0.6	2.9	0	13	86	0	11	12	10	9	41	6	10	267	0
	(c)1730	"	1479.8	848.2	-	17.7	15.8	14.5	17.2	82	-	6.2	-	1.1	0	2	45	0	1	2	6	10	25	3	0	316	0
Cherrapunji	#0830																										
	#1730																										
Abu	0830	1195	1492.5	880.1	-0.3	16.9	13.9	8.4	[illegible]	59	+4	2.3	-0.5	(c) 3.9	0	0	107	7	2	0	2	4	34	38	20	256	0
	1730	"	1480.8	876.6	-	23.2	15.3	8.0	11.6	44	-	2.0	-	(c) 2.6	0	1	183	13	5	1	1	19	73	42	30	179	0
Alwar	#0830																										
	#1730																										
Bhuj	0830	1075	1500.5	893.1	-0.1	21.2	15.5	10.2	14.0	57	-5	3.1	-0.2	3.4	0	0	290	7	31	37	16	28	20	62	89	76	0
	1730	"	1481.0	890.5	-	25.0	16.6	8.9	13.3	46	-	3.7	-	3.5	0	0	325	22	52	9	2	8	12	84	126	41	0
Kandla/Bombay	0830	1382	1500.7	842.1	-0.5	18.6	14.5	10.3	13.8	66	-1	3.2	-0.5	11.3	0	5	361	9	104	5	88	1	112	0	52	0	0
	1730	"	1482.7	840.1	-	22.0	17.4	13.8	16.8	65	-	3.6	-	10.5	0	1	363	6	101	1	36	0	113	1	108	0	0

(R) Remarks not received. # Data not available for complete year, hence no normal shown. * Data not available. (a) Data for 243 days. (c) Data for 363 days.
(b) Data for 359 days. (1) Data for 354 days.

Table III - Summary of Observations on Fixed Hours for the year 1[illegible]

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean Pressure in millibars: At mean sea level or ht. in g.p.m. of nearest standard isobaric level	Mean Pressure in millibars: At station level	Mean Pressure in millibars: Departure from normal	Mean Temperature °C: Dry Bulb	Mean Temperature °C: Wet Bulb	Mean Temperature °C: Dew Point	Vapour pressure in mbs.	Relative Humidity %	Departure from normal	Cloud Amt. (Oktas): Mean Amount	Cloud Amt. (Oktas): Departure from normal	Mean wind speed km. per hour	Wind speed (km.p.h.): 61 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations Wind Direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
HILL STATIONS INCLUDING KASHMIR																											
Murree	0830	1152	1504.2	885.8	0	18.5	17.1	15.8	18.3	84	0	3.9	-1.1	11.2	0	30	315	38	49	83	1	6	12	132	30	[illegible]	4
	1730	"	1402.8	863.5	-	22.6	18.8	16.1	18.9	71	-	4.6	-	10.2	0	58	306	16	49	40	3	2	11	171	01	2	11
Gulmarg #	0830																										
	1730																										
Coonoor (R)																											
Kodaikanal	0830	2343	3151.3	771.2	+0.3	14.5	10.7	6.5	10.5	66	-1	4.5	+0.[illegible]	5.3	0	34	281	47	48	40	57	10	2	29	32	51	0
	1130	"	3161.0	771.3	-	17.4	12.9	9.0	12.1	62	-	5.1	-	10.1	0	+1	293	55	51	45	67	13	2	16	85	32	0
	1730	"	313[illegible].3	769.5	-	14.4	12.5	11.1	13.5	82	-	5.9	-	6.7	0	22	253	45	16	20	65	14	3	23	49	31	0
NEPAL																											
Katmandu	0830	1324	1487.8	866.8	-	15.8	13.7	12.2	15.3	80	-	3.8	-	0.4	0	0	34	6	6	3	2	1	0	4	12	332	0
	1130	"	1485.4	865.9	-	22.5	16.5	12.1	15.2	54	-	5.9	-	1.2	0	0	128	12	21	16	6	6	10	21	36	238	0
	1730	"	1461.9	863.9	-	20.5	16.2	13.0	16.1	65	-	4.1	-	1.5	0	0	109	12	11	5	6	4	22	19	30	257	0
SIKKIM																											
Lachen	(R)0830																										
HYDROMETEOROLOGICAL OBSERVATORIES																											
DAMODAR CATCHMENT																											
Tilaiya	0830	-	-	-	-	25.4	19.8	15.5	19.3	59	-	2.6	-	7.1	0	4	314	23	8	75	41	6	11	116	38	48	0
	1730	-	-	-	-	26.9	19.8	14.2	17.9	53	-	2.8	-	6.1	0	0	323	42	9	80	32	12	7	91	50	43	0
Hazaribagh	0830	615	1007.6	939.6	-	25.7	18.6	15.0	18.5	63	-	2.7	-	5.1	0	3	287	15	10	59	20	19	39	69	59	76	0
	1730	"	1004.2	936.7	-	24.9	19.0	14.7	18.3	60	-	3.1	-	3.7	0	0	247	37	6	46	18	8	10	49	73	119	0
Konar	0830	-	-	-	-			-	-	-	-	3.1	-	6.7	0	6	335	13	14	26	60	12	2	151	5	25	0
	1730	-	-	-	-			-	-	-	-	2.4	-	5.9	0	3	357	7	7	77	33	1	2	194	39	6	0
Bokaro	0830	242	1008.5	981.1	-	24.2	19.8	16.8	20.5	67	-	3.2	-	3.7	0	3	303	14	5	40	51	15	51	67	60	60	3
	1730	"	1004.7	977.9	-	27.7	20.9	15.5	19.6	55	-	3.7	-	5.0	0	5	315	58	28	36	59	8	19	30	80	46	2
Maithon	0830	-	-	-	-	26.[illegible]	21.5	18.5	22.5	64	-	3.2	-	3.5	0	1	345	28	20	9	76	37	92	41	43	20	0
	1730	-	-	-	-	29.7	22.4	18.1	21.6	54	-	3.2	-	3.6	0	0	347	15	24	4	94	21	85	33	71	19	0
Ramgarh	0830	-	-	-	-	24.1	20.4	18.0	22.2	71	-	3.3	-	2.1	0	0	256	6	30	36	26	5	79	53	21	130	0
	1730	-	-	-	-	27.9	22.5	18.6	23.	66	-	3.5	-	1.6	0	0	193	11	20	29	34	13	35	23	28	173	0
Panchet Hill	0830	119	-	-	-	25.[illegible]	21.2	18.5	22.9	67	-	2.7	-	4.8	0	0	279	0	36	0	64	0	122	0	57	87	0
	1730	"	-	-	-	28.3	21.7	17.4	21.2	57	-	2.9	-	2.6	0	1	172	0	34	1	56	0	33	0	47	193	0
Durgapur	0830	69	-	-	-	25.7	22.7	21.0	26.0	76	-	3.4	-	7.6	0	14	346	54	49	24	39	100	17	7	70	6	0
	1730	"	-	-	-	28.9	23.9	21.2	26.1	66	-	3.4	-	6.5	0	4	343	55	32	20	54	72	37	6	71	19	0
MAHANADI CATCHMENT																											
Cinabahar	0830	-	-	-	-	23.8	19.0	15.6	19.2	64	-	#	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hirakud	0830	-	1008.5	990.6	-	26.2	21.8	19.2	22.2	67	-	2.9	-	3.2	0	3	295	44	12	36	42	39	61	35	25	68	4
	1730	-	1004.3	986.6	-	30.5	22.5	17.8	21.2	51	-	3.4	-	2.2	0	0	213	7	11	0	32	24	51	30	47	153	2
Sambalpur	0830	-	-	-	-	23.9	20.9	19.0	22.8	75	-	3.8	-	1.8	0	0	168	25	0	2	16	21	23	7	74	198	0
	1730	-	-	-	-	27.6	21.5	17.7	20.2	59	-	4.3	-	1.5(b)	0	2	137	9	6	3	30	25	30	9	10	225	0
Rourkela	0830	-	-	-	-	26.2	22.4	20.8	25.1	74	-	#	-	5.3	0	5	324	35	19	72	21	61	42	70	4	27	37
Khiajuria	0830	-	-	-	-	24.1	20.2	17.7	20.9	71	-	1.9	-	3.6	0	1	287	13	31	13	33	34	55	33	17	64	3
	1730	-	-	-	-	28.3	21.2	19.4	19.1	51	-	1.9	-	4.0	0	0	323	27	44	4	28	43	32	32	69	42	1

(R) Returns not received. # Data not available for complete year, hourly wind speed [illegible]. [illegible]

Table III - Summary of Observations on Flood Stage for the year 1966

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean Pressure in millibars: At mean sea level or ht. in s.p.m. of mean standard isobaric level	Mean Pressure in millibars: At station level	Mean Pressure in millibars: Departure from normal	Mean Temperature °C: Dry Bulb	Mean Temperature °C: Wet Bulb	Mean Temperature °C: Dew Point	Vapour pressure in mb.	Relative Humidity %	Departure from normal	Cloud Amt. (Octas): Mean Amount	Cloud Amt. (Octas): Departure from normal	Mean wind speed km. per hour	Wind speed (km.p.h.): 46 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations Wind Direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
NARMADA CATCHMENT																											
Bagra Tawa	0830	-	-	-	-	23.7	17.8	12.6	16.7	56	-	2.7	-	(d) 8.2	0	1	324	4	62	22	4	8	135	76	14	37	0
	1730	-	-	-	-	30.2	20.3	12.2	16.3	42	-	3.3	-	(c) 5.7	0	0	274	11	35	18	15	10	66	74	45	89	0
Rumaa	∅0830																										
	∅1730																										
Thikri	0830	-	-	-	-	24.7	19.2	14.6	18.3	57	-	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SARASWATI CATCHMENT																											
Daroi	0830	-	-	-	-	23.4	17.9	13.8	16.9	56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1730	-	-	-	-	31.7	22.1	15.9	19.0	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GANDAK CATCHMENT																											
Jomosom	0830	2800	-	-	-	12.1	8.5	5.8	9.8	66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1730	"	-	-	-	12.4	9.3	6.9	9.1	71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kudi Bazar ∅	0830																										
	1730																										
Timure	0830	1676	-	-	-	14.0	10.5	7.2	11.5	66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1730	"	-	-	-	17.7	13.3	9.6	13.1	61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pokhara	0830	918	-	-	-	19.8	16.7	14.5	17.6	73	-	3.2	-	1.4	0	0	136	61	6	0	28	11	7	2	21	230	0
	1130	"	-	-	-	23.9	18.2	14.3	17.5	57	-	3.4	-	4.3	0	0	290	4	0	17	169	90	7	1	1	76	1
	1730	"	-	-	-	22.5	18.0	14.9	18.2	65	-	4.8	-	2.1	0	0	162	25	17	12	71	14	3	0	20	204	0
Gorkha	0830	1135	-	-	-	19.1	16.2	13.8	17.0	74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	∅1130	"																									
	1730	"	-	-	-	21.0	16.8	13.5	16.8	65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bunakot	0830	970	-	-	-	20.6	17.5	15.5	18.6	74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	∅1730	"																									
CHACHARA CATCHMENT (TRANS HIMALAYAN REGION)																											
Dailekh	0830	1304	-	-	-	18.0	15.3	13.3	16.3	74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1730	"	-	-	-	19.9	16.8	14.7	17.7	73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHACHARA CATCHMENT																											
Dadeldhura	0830	1837	-	-	-	15.0	11.1	7.1	11.4	63	-	2.8	-	4.0	0	0	312	18	15	92	112	20	13	14	26	54	0
	1130	"	-	-	-	17.8	12.5	7.6	11.9	56	-	3.2	-	4.8	0	0	344	93	21	34	44	7	14	8	121	22	2
	1730	"	-	-	-	16.4	12.1	8.1	12.2	62	-	3.3	-	4.5	0	2	328	28	7	12	23	15	63	38	145		1
Bujmal	0830	263		-	-	24.5	19.9	16.8	20.6	64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1730	"	-	-	-	27.3	21.5	18.0	21.9	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BAGMATI CATCHMENT																											
Kathmandu ∅																											
KOSI CATCHMENT																											
Chautara	0830	1676	-	-	-	16.7	14.1	12.1	15.3	76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1730	"	-	-	-	19.9	15.3	11.8	14.0	62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chagma ∅	0830																										
	1730																										
Nallungchung Gola	0830	3048	-	-	-	8.7	6.6	4.3	8.8	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1730	"	-	-	-	7.3	6.7	5.3	9.7	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Taplethok	0830	1372	-	-	-	17.8	14.7	12.1	15.2	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1730	"	-	-	-	18.7	15.1	11.9	15.2	67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

∅ Reduced to Class V from 1.12.1966. $ Data included under Nepal. (d) Data for 342 days. # Data not available for complete year, hence no annual means. (c) Data for 363 days.

Table III - Summary of Observations at Pilot Rooms for the year 1964

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean Pressure in millibars: At mean sea level or ht. in p.p.m. of mean standard isobaric level	Mean Pressure in millibars: At station level	Mean Pressure in millibars: Departure from normal	Mean Temperature °C: Dry Bulb	Mean Temperature °C: Wet Bulb	Mean Temperature °C: Dew Point	Vapour pressure in mb.	Relative Humidity %	Relative Humidity %: Departure from normal	Cloud Amt. (Oktas): Mean Amount	Cloud Amt. (Oktas): Departure from normal	Mean wind speed km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations Wind Direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
HYDROMETEOROLOGICAL OBSERVATORIES (Contd.) KOSI CATCHMENT (Contd.)																											
Bhojpur	0830	1524	-	-	-	17.4	15.5	12.5	15.5	74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1730	"	-	-	-	16.1	14.1	12.7	15.5	81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Taplejung	0830	1768	#	#	-	15.6	13.3	11.4	14.5	77	-	4.5	-	$	-	-	-	8	4	4	1	9	4	5	3	328	0
	1130	"	#	#	-	18.7	15.0	12.3	14.5	68	-	4.9	-	$	-	-	-	41	10	5	18	24	52	55	66	95	0
	1730	"	#	#	-	16.7	13.7	11.4	14.5	73	-	5.4	-	$	-	-	-	11	16	10	38	131	23	12	6	119	0
Okhaldhunga	0830	2103	-	-	-	15.7	13.1	10.8	14.1	74	-	3.0	-	1.0	0	0	89	5	1	9	13	15	14	23	3	377	1
	1130	"	-	-	-	18.6	14.4	10.9	14.5	64	-	3.2	-	2.5	0	3	168	6	2	8	5	30	39	61	19	195	1
	1730	"	-	-	-	15.8	13.3	11.1	14.3	76	-	4.0	-	4.3	0	8	211	6	2	7	8	14	11	146	25	147	0
Chainpur	0830	1329	-	-	-	18.5	16.1	14.3	17.1	77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1730	"	-	-	-	19.6	16.9	15.1	17.9	76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anghung	#0830																										
	#1730																										
Barahakshetra	0830	146	1009.5	992.9	-	22.6	19.5	17.3	21.2	74	-	3.0	-	3.5	0	1	283	18	35	20	24	18	98	18	47	82	6
	1130	"	1008.0	991.6	-	27.3	21.7	18.1	22.2	59	-	3.6	-	4.4	0	0	304	1	3	4	2	5	221	42	22	52	4
	1730	"	1005.4	988.9	-	25.5	21.1	18.3	22.4	68	-	3.6	-	3.0	0	0	263	4	23	59	56	13	74	17	8	103	9
TISTA CATCHMENT																											
Gangtok	0830	1812	1489.0	818.6	-	14.3	12.7	11.3	14.2	83	-	5.1	-	-	#	-	-	21	51	1	5	8	3	0	1	276	0
	1130	"	1479.6	818.0	-	17.9	14.7	12.4	15.3	72	-	5.1	-	-	#	-	-	14	30	1	16	56	83	22	4	140	0
	1730	"	1462.1	816.1	-	15.6	13.6	12.2	15.0	81	-	6.6	-	-	#	-	-	7	17	3	38	42	22	4	1	231	0
Gezing	0830	1524	-	-	-	16.8	14.8	13.4	16.3	81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1730	"	-	-	-	17.1	15.1	13.6	16.4	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Data not available for complete year, hence no annual means. $ Anemometer installed on 15.6.1964.