



**CENTRAL GROUND WATER BOARD
MINISTRY OF WATER RESOURCES,
RIVER DEVELOPMENT AND GANGA REJUVINATION
GOVERNMENT OF INDIA**

**GROUND WATER YEAR BOOK
PUNJAB AND CHANDIGARH (UT)
2016-2017**

North Western Region

Chandigarh

September 2017

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2016-2017**

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**North Western Region
Chandigarh
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FOREWORD

Central Ground Water Board, the National Apex Organization is regularly monitoring ground water levels and ground water quality since 1968. These are most important aspects to depict the spatial and temporal variation of ground water regime. The changes in water levels and quality are attributed to the development patterns of ground water resources for irrigation and drinking water needs. Analyses of water level fluctuations are aimed at observing seasonal, annual, and decadal variations. Therefore, the accurate monitoring of the ground water levels and its quality, both in space and time, are the main pre-requisites for assessment, scientific development and planning of this vital resource.

Central Ground Water Board, North Western Region, Chandigarh has established numerous Ground Water Observation Wells in Punjab State and in Chandigarh (UT) for monitoring the water levels. During annual action plan (2016–2017), 956 observation wells (170 dug wells and 786 piezometers) were monitored in Punjab and 18 observation wells (1 dug wells and 17 Piezometers) in Chandigarh installed in phreatic aquifers, in Addition to this, 57 deep piezometers in Punjab and 7 deep piezometers in Chandigarh are installed to monitor behaviour of water levels in deeper aquifers.

In order to strengthen the ground water monitoring network for better insight into ground water development scenario, additional ground water observation wells are being established in Punjab state. As a result, there were 964 Ground Water Observation Wells on 31.03.2017, which included 170 dug wells and 794 piezometers for monitoring phreatic aquifers and 57 deep piezometers for monitoring deeper aquifers in Punjab. About 80% of the Ground water observation wells fall in the command areas of various canal systems, the areas falling out of the major canal commands is part of Pathankot, Hoshiarpur, Nawanshahr, Ropar and SAS Nagar districts. This report presents the observations and findings for the period May 2016 to January 2017.

Shri M. L. Angurala, Scientist 'D' has put concerted efforts to compile and analyse the water level data to interpret the behaviour of water levels in time and space. Mrs. B. P. Singh, Scientist 'D' (Senior Chemist) has very keenly brought out various aspects ground water quality. Their sincere efforts have led to bring the report in its present form by Chapter on Chemical Quality of ground water has been compiled by I sincerely hope that this report presenting various analysis and data on ground water level behaviour and quality will be of immense use to the user agencies and other stakeholders.

**(Dr. S. K. Jain)
Regional Director**

Ground Water Year Book
Punjab State and Chandigarh (UT)
2016-2017
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GROUND WATER YEAR BOOK

PUNJAB STATE AND CHANDIGARH (UT)

(2016– 2017)

1.0 INTRODUCTION

The Punjab State is located between North latitudes $29^{\circ} 32'$ and $32^{\circ} 28'$ and East longitudes $73^{\circ} 50'$ and $77^{\circ} 00'$. The total geographical area of the state is 50362 sq. km. It is surrounded by the states of Himachal Pradesh in the northeast, Jammu and Kashmir in the north and Haryana and Rajasthan in the south and southwest respectively. The State has a flat alluvial plain except a narrow belt along the southwestern parts where stable sand dunes are seen dotting the landscape. The area occupied by the mountains (Himalayan foothills) in northeast, is about 1243 sq km. Perennial Rivers Sutlej, Beas, Ravi and ephemeral river Ghaggar drain the state. It has a vast network of canal system. With the inception of canals, the fertile land of the State started converting into green fields and experienced spectacular achievement in agricultural production with emphasis on cultivation of paddy and high yielding varieties of crops, as a consequence demand for water increased manifold resulting in over exploitation of ground water resources.

The State has been divided into four main divisions viz. Jalandhar, Patiala, Ferozpur and Faridkot, which are further sub-divided into 22 districts, which are further divided into 77 sub-divisions /tehsils, 76 Sub- tehsils and 146 community development blocks.

1.1 Physiography

The State forms a part of vast Indo-Genetic alluvial plain. Physiographically, the State can be divided into seven distinct units, which run parallel to each other.

- I Hilly area: Siwalik Hills on the north and northeastern part.
- ii Eroded hills with flat land (Plateau): forms top of hills.
- iii Intermountain valleys
- IV Piedmont area: (Kandi zone) immediately southwest of hills.
- v. Sirowal zone: lies further southwest of Kandi area which merges with the alluvium of Ravi, Beas, Sutlej and Ghaggar rivers.
- vi. Alluvial plains:
 - a) Active/recent flood plains include meanders and present flood plains.
 - b) Abandoned flood plains include terraces of rivers, abandoned during Recent age.
 - c) Bar upland areas: Higher elevated land which remained beyond the reach of rivers but are composed of ancient river channels deposits (older alluvium) plains.
- vii. Sand Dunes: Covering southwest part.

i) **Hilly area :**

The outermost low lying Siwalik Hills of the Himalayas occupy the NE part. These are the deposits of the Indus River and comprised of alluvial, derived from the higher mountains, which were swept down by their numerous rivers systems and part of Siwalik rock formations have been involved in the latest Himalayan tectonic movements by which they have been folded, faulted and elevated into their outermost foothills. These occupy northern and northeastern part of Gurdaspur, Hoshiarpur, Nawanshahr and Ropar (Roop nagar) districts. These hills traverse NW – SE direction and forms the boundary with neighboring State of Himachal Pradesh. In Gurdaspur district, the hills extend from Ravi River on northwest to Beas River on the southeast. In Hoshiarpur and Nawanshahr districts, the hills cover northeast parts and extend from Beas to Satluj Rivers. These foot hills separate the main Himalayan ranges from the vast Indo- Genetic alluvial plains. The hilly region is intersected with numerous streams which remain dry during major part of the year except during rainy season when these carry flood water. The highest peak in the area is 900 m above M.S.L. The hills present uneven topography and at places are highly eroded. The gradient is varying in the hilly areas.

ii) **Eroded hills with flat land:**

These areas lie within Upper Siwalik formations and locally known as 'Beet' meaning waterless. The flat surface lands (plate or table lands) occur in Hoshiarpur district and these are fertile land composed of sandy clay and support irrigational activities.

iii) **Intermountain valleys:**

Intermountain Satluj valleys extend from Nagal to Roper along the Satluj River. It is a longitudinal valley and about 40 Km. in length having an average width of 5 Km. High land river terraces are seen on the north east and eastern part of the area which have been deeply eroded and furrowed to form "bad land" topography. The thickness of valley fill is very limited and here an average of 50 m below ground level. Another valley known as "Soon nadir valley" is an intermountain valley in the outer Himalayas extending from Daulatpur in Himachal Pradesh to Hazipur (Punjab). It runs in southeast-northwest direction and follows the general strike direction of the mountain ranges. It has a length of 20 Km and

width ranges between 1.5 km to 3 km and in Punjab State. This valley portion extend along the left bank of Soon nadir and along its right bank, Siwalik Hills are exposed.

iv) **Piedmont areas:**

The transitional area between the alluvial plains and mountainous range of the Himalayan foot hills forms the Piedmont area shown in Plate-1.2. These consist of alluvial fans which have been dissected by hill torrents and small perennial streams; much of the detritus material has been reworked separately by sheet flooding. The lower southeast slopes of the piedmont forms 'Sirowal zone'. In Punjab State, piedmont area is known as "Kandi", and occupies Southwest part of lower Siwalik Hills. The gradient is steeper near the hills and gentler towards plains. The width of 'Kandi belt' varies from 6-10 km. having rolling type of the topography. In Gurdaspur district, the spring line runs parallel to the southwestern boundary with 'Sirowal zone'. But in Hoshiarpur, and Ropar districts, the spring line (auto flow) do not exist hence boundary between Kandi and Sirowal could not be precisely demarcated.

v) **Sirowal Zone:**

It lies further southwest of Kandi belt. The topographic gradient is gentler as compared to Kandi and presents very low relief. In Gurdaspur district, the Sirowal zones occupy immediately SW of spring line and have an undulating topography.

vi) **Alluvial Plains:**

This forms a dominant physiographic unit and consists of alluvium of the Indus River with its present and ancestral tributaries. The alluvium was deposited by Ravi, Satluj, Beas and Ghaggar rivers. The plains have altitude of less than 300 m above M.S.L. The master slope is towards southwest and matches with the course of the rivers. The alluvial plains have been further divided into three sub-physiographic units based on the present relationship of the surface features to the rivers. These are as follows:

- Recent Flood Plains
- Abandoned Flood Plains
- Bar Upland Areas

Recent Flood Plains: These include the meandering zone and present flood plains of the rivers. The meanders, scars, sandbars, natural levees and back water swamps are the

conspicuous features of the flood plains. Along the major rivers, there are low flood plains locally called 'Bet'. The recent flood plains are often separated from the upland plains by steep slopes. The water levels are shallow in 'Bet' area.

Abandoned Flood Plains: These are parallel to the rivers and are a few meters higher than the recent flood plains. They represent flood plains that have been abandoned in recent times by the major rivers.

Bar Uplands: These are large areas of relatively older alluvium and found in the Upper Bari Doab area and are elevated lands above the bordering flood plains. These remain beyond the reach of flood waters of the present river systems and are termed as "Bar Uplands". These are the most significant physiographic features of the alluvial plain. Typically, the bar uplands rise abruptly from the abandoned flood plains and are bordered by steep scarps. In Gurdaspur district, bar upland areas are characterized by undulating topography, dendritic drainage pattern and predominance of nodular "kankar".

vii) **Sand Dunes:**

These occupy southwestern part of the state which experiences semiarid type of climate and constitute about 28% of the area. These are spread over about 10-15 percent of the area and cover parts of Firozpur, Mansa, Bathinda, Muktsar, Kapurthala, Sangrur, Faridkot and Patiala districts. The area is bounded by $29^{\circ}33'$ and $30^{\circ}36'$ north latitudes and $74^{\circ}18'$ & $76^{\circ}12'$ east longitudes. These dunes are mostly isolated type and vary in size and height. The sand dunes form a thin layer over the alluvium.

1.2 Drainage:

The Ravi, Beas, Satluj and Ghaggar rivers along with West and East Beins and the non-perennial choes and Khads drain the Punjab State. The Ravi flows along the northwestern boundary and forms the international boundary with the Pakistan. The Satluj forms the international boundary with Pakistan in the south-western part of the State. Ghaggar river flows along the southeast boundary of the State and forms the boundary with Haryana State except at a few places where villages of Punjab lies on the left bank of Ghaggar river and Haryana villages occupy right bank of the river. All rivers flow in the southwest direction except the Satluj River which roughly flows from east to west up to Harike and from Harike it assumes southwesterly trend upto Fazilka. The Satluj and Beas

rivers have been dammed by construction of Bhakra dam and Pong dam respectively. After the Construction of Ropar headworks barrage, the Satluj River has water only during the rainy season on downstream of Ropar. At Harike Patten, it carries the flow regenerated by ground water effluent seepages. Soon nadir originates near Daulatpur (H.P) and all the choes from the Western slopes of Chinta Purni range (H.P.) flow into it. The Soan nadir joins the Satluj near village Bhalan. All the rivers rise from Himalayas and after traversing long courses, they debouch into the plains. Apart from the perennial rivers, there are other important seasonal streams, choes and drains. The sub-mountainous zone is traversed by a number of choes. Some of them contribute to the rivers while others terminate without merging into any river. These 'choes' remain dry for most part of the year. Their discharge is irregular and runoff during the monsoon period.

In Upper Bari Doab tract, Chakki Khad a perennial tributary of the Beas drains mainly the 'Kandi' belt. The Naumuni and Kiran are two tributaries of the Ravi and drain north western parts of this tract. The Patti nala drains the southwestern part of the area and joins the Satluj River. The Kiran nadir originates in north of village Isarampur in the close vicinity of Keshopur Chhamb. It is fed by ground water seepage and the excess water of Upper Bari Doab canal is also diverted into it. In addition to these tributaries, there are several khads traversing 'Kandi' belt which remain dry except during rainy season. Some of the major Khads like 'Pungotri Khad' traverse even beyond the spring line. Such Khads gain water through ground water effluent seepage. The Bist Doab tract is traversed by about 85 hill torrents known as choes, which debouch into plains. There are two main drainage patterns in this tract and both are perennial.

- I) Eastern or White Bein
- ii) The Western or Black Bein.

The eastern or White Bein originates near Garhshankar village of Hoshiarpur district and joins Satluj River near Lohian after traversing the Bist Doab tract. The Nasrala, Mehlan wali, Rajni Devi, Mehandpur, Jaijon choes join the east Bein at different places. The Western or Black Bein rises at Chhamb near Dasuya in Hoshiarpur district and joins the Beas river near Durgapur which is located upstream of its confluence with Satluj at Harike. Janauri, Mehngerwala and Kingranwala join the West Bein. In Ropar district Budki Nadi,

Haripur nala, Sugh Rao, Siswan Nadi, Jainti Devi Ki Rao and Patiali Ki Rao forms the major drainage system. These all meets Satluj River except Patiali Ki Rao and Jainti Devi Ki Rao which gives water to Ghaggar River. The third zone forming the southeastern part of the State is drained by Ghaggar River which is perennial. Tangri nadir, Budha nala and Lissara nala are the main seasonal streams in the area. In south western part, some of the important drains are the Phidda drain, Chand Bhanja drain and Jallalabad drain etc.

1.3 Soils

The soils of Punjab have largely developed on alluvium- the material laid by the rivers, under the dominant influence of climate followed by topography and time. The details of the soils found in the state are as follows.

Reddish Chestnut Soils:

These soils occur on stable terraces in the north and north eastern Parts of the state and are found in Pathankot Tehsil of Gurdaspur district, parts of Hoshiarpur, Dasuya and Garh Shankar Tehsil of Hoshiarpur district, Balachaur Tehsil of Nawanshahr district and Ropar, Anandpur Sahib and Kharar Tehsils of Ropar district. These soils are loamy to clay – loamy in nature and are decalcified. Erosion of soils due to water is a very serious problem. The soils are mildly acidic to neutral in reaction. These soils are found in areas having normal rainfall of 800 to 1000mm.

Tropical Arid Brown Soils (Weakly Solonised):

These soils are found in remaining areas of Gurdaspur, Hoshiarpur, Nawanshahr and Ropar districts and most parts of Jalandhar, Kapurthala, Patiala, and whole of Ludhiana, Fatehgarh Sahib Districts and in parts of Amritsar and Sangrur districts. These soils are found in areas having normal annual rainfall of 750 to 1000mm.

Arid Brown Soils, (Solonised):

These soils are found in lower parts of Amritsar, Kapurthala, Jalandhar, Patiala, Sangrur, Ferozpur districts and entire Moga district where the normal rainfall varies from 500 to 700mm. Salinity and alkalinity are the serious problem in these soils. These soils are calcareous in nature and in most cases Kankar layer occurs at 1.0 to 1.5m depth.

Sierozem Soils:

These soils are found in Bathinda, Faridkot, Ferozpur, Mansa and Muktsar districts, where normal rainfall varies 300-500mm. Salinity and alkalinity are the serious problems particularly in the canal irrigated areas. Wind erosion is also a common feature in this soil. These soils are calcareous in nature and usually have a massive Kankar layer at a depth of 0.75 to 1.25m.

Desert Soils:

These soils are found in southern parts of Ferozpur and Muktsar districts where the normal annual rain fall is less than 300mm. Wind erosion is a serious problem here.

2.0 GENERAL GEOLOGY

The great Indo-Gangetic plain with an area of about 8,50,00 sq. km lies between the Peninsular India and the Himalayas. On the basis of seismic and borehole data, Rao (1973) divided the Indo-Gangetic Plain into five parts, which from west to east are (I) The Indus Basin in Pakistan, (ii) the Punjab Basin in Punjab and Haryana, (iii) The Ganga Basin in Uttar Pradesh and Bihar, (iv) The Brahmaputra Basin in Assam, and (v) The Ganga-Brahmaputra Basin in West Bengal and Bangladesh. These basins have been delineated on the basis of subsurface ridges or highs. In the Punjab Basin the Quaternary alluvium has been deposited at places on semi-consolidated Tertiary rocks (Siwalik Group) or on a basement of metamorphic and igneous rocks of Precambrian age. The alluvial sediments were laid down by the rivers since Pleistocene in the "fore deep" or a down warp formed in front of the rising Himalayan ranges and thus represents the younger geological formation.

2.1 Geological Set Up

The rock formations ranging in age from middle Miocene to Recent are exposed. They are represented by Siwaliks and Alluvium deposits. The Siwaliks (Middle Miocene to Pleistocene) form hilly tract running in northern and northeastern part of the State. The alluvium deposits (Pleistocene to Recent) constitute the plains of Punjab. The Siwaliks are divided into three lower, middle and upper on the basis of lithology and vertebrate fossils. The Siwalik formations have been folded and faulted due to tectonic activities. The various stratigraphic units exposed in the state are given in table as under:

2.1.1 Aeolian Sand (Wind Blown Sand)

These are medium to fine grained and buff colored sand. They occur in the form of

Dunes which are formed as the disintegrated product of the older rocks and found in the southwestern part of the State. The dunes are elongated in shape and are blown sand forming fixed dunes and sandy flats. The dunes are oriented in N-S direction forms ridges which rise from a meter to about ten meters above the surrounding land surface. These sands are brought from the Rajasthan desert and ultimately deposited and shaped by the southwesterly winds which blow across the area from April to June. Generally, the sand dunes contain loose and unconsolidated sand and at places where vegetation has come up these have been fixed. The sand grains are generally well rounded in shape and mainly consist of quartz and ferromagnesian minerals with flakes of mica.

2.1.2 Alluvium

The greater part of Punjab is occupied by alluvial plains, which are very fertile. The Quaternary alluvial sediments were deposited on semi-consolidated Tertiary rocks and conceals underneath the fringes of Peninsular and extra- Peninsular rocks. Out of the total area of 50362 Km². of the State, alluvial cover about 38500 Km² spreading over about 76% of the area. This vast expanse of plains is constituted by fluvial sediments of Indus river system. Beneath thick alluvium cover, there are southwestern extensions of Siwalik, which are exposed only in northeastern hilly tract of the State. The Siwalik rocks are expected to extend Bathinda which in fact separates the northeastern Punjab plains form Southwestern Rajasthan plains. Based on O.N.G.C. data, the contact between the plains and the Siwalik Hills is believed to be normal in Gurdaspur district and is faulted in Hoshiarpur and Ropar district areas.

The thickness of alluvium varies from place to places due to irregularities and undulations .The maximum thickness of 4500 m has been reported near Dasuya in Hoshiarpur district. The thickness of alluvium increases towards northeast. It is comparatively less in the southwestern parts where the rocks of Pre- Cambrian age occur as buried ridges. In the intermountain valleys in north east part, the valley fill is estimated to be around 200 m thick underlain by rocks of Siwalik system. The alluvium comprising sand, gravel and clay is deposited by the Indus river system. In accordance with their mode of deposition by large constantly shifting river, the alluvial deposits are heterogeneous in nature and individual strata have limited horizontal and vertical continuity. The alluvial complex of Pleistocene and

Recent age represents the latest phase of sedimentation. It consists principally of fine to medium sand, silt and clay. Beds of gravel and coarse sand are uncommon. It is also associated with fine grained strata, concretionary zones or nodules of kankar. The sand gravel or sand bodies embodied in the clay- silt mixture in the alluvial deposits are usually either small or big lentoid bodies with longitudinal part either normal or nearly normal to the Himalayan and Siwalik strike i.e. NW-SE. Sheet like bodies of sand, sand and gravel had been deposited in the central part of the State and are regionally extensive. In southwestern and southern parts of the State, ground water is brackish to saline. The rivers have deposited their coarser material in higher reaches, so the flood plain deposits developed in southwestern parts were richer in finer sediments. The alluvium is normally divided in two groups viz:

I) Newer Alluvium, ii) Older Alluvium. It is not possible to clearly indicate any distinct /demarcation line of separation Between the two units

I) Newer Alluvium (Khaddar)

It occurs in the active flood plains of present day river courses and is generally confined to the neighborhood of river channels. Along the major rivers in plain areas, there exist low flood plain areas which are locally called khaddar or 'bet'. These flood plains are often separated from upland plains by a steep slope of the order of 1m to 2m per km. The Newer alluvium is light colored and poor in calcareous matter. It consists of coarse gravel near the foot hills and ventricular beds of sand and clay along the old river course and silt and clay in the flatter parts of the river plains. It is of Upper Pleistocene to Recent age. The aquifers comprised of medium to coarse sand and gravel. The clays serve as aquitards. The various aquifers are interconnected. However, the deeper horizons show confined to semi-confined conditions. There is wide variation of the hydraulic conductivity and Transmissivity of the aquifers due to rapid changes in their texture and thickness.

ii) Older Alluvium (Bhangar):

It is confined to the abandoned flood plains and bar upland regions. It consists of sandy clay, clay-silt and fine to medium sand. It consists of pale reddish brown colored beds of clay. Kankar is found disseminated more or less throughout the beds of sand and clays. The kankar bands are generally more in the older alluvium. At places extensive and

massive beds of kankar also exist. It is of middle to Upper Pleistocene in age. Older alluvium forms good ground water reservoir/aquifer.

2.1.3 Upper Siwaliks

These formations are exposed throughout the hilly tract starting right from northwest of Pathankot through Hoshiarpur, Ropar to Chandigarh. They are composed of soft grey medium to coarse-grained sandstones, yellowish brown and brown clays. The sandstones are poorly lithified, soft and friable. They are brownish grey in colour and contain a large proportion of mica flakes and concretions of clay. They also consist of conglomerates, boulders and pebbles of quartzite and yellowish clays. The conglomerates consist mainly of cobbles and pebbles of quartzites. The pebbles of granite limestone, sandstone and lumps of claystones are also present. The conglomerate beds do not show clear stratification and occur as wedge shaped or lenticular bands. The formations of Upper Siwaliks are prone to easy weathering and there is considerable collection of sand as talus cones. These formations yield good to moderate supplies of water.

2.1.4 Middle Siwaliks

These are exposed in Dhar and Dunera area of Pathankot Tehsil of Pathankot district, north and northeast of Kiratpur in Ropar district. These are comprised of grey micaceous, medium grained soft sandstones interbedded with red, orange and yellowish (buff colored) clays. The sandstones occasionally contain pebbles of calcareous clay, shale and quartzite. The Middle Siwaliks are poor in yields of ground water due to poor permeability.

2.1.5 Lower Siwaliks

These are exposed in Dhar and Dunera area of Pathankot Tehsil of Pathankot district, constitute massive grey to light grey, micaceous sandstones interbedded with dark red to maroon clays grading upward in to micaceous sandstone with thick beds of red clays. The rocks of Lower Siwaliks have poor yields of ground water. However small springs of low discharge occur on the hill slopes they confine their position at the bedding contacts where the argillaceous bed is underlain by arenaceous bed.

2.2 Basement Configuration

The Punjab Wedge i.e. the Achaean basement rocks either outcropping or occurring under moderate thickness of alluvium in Lahore- Sargodha area in Pakistan separates the Indus basin in the west, from the Punjab depression in the east. The Punjab depression follows a NW-SE ESE and WNW direction in conformity with the trends of the Siwalik Hills. The seismic surveys by the Oil and Natural Gas Commission, (Data et al., 1964) have indicated that the basement rocks as well as the sediments of the alluvium, dip gently towards the Himalayan foothills. The basement, however, becomes deeper as the foothills are approached with a corresponding increase in the thickness of the sediments. The maximum depth of this depression, about 4500 m was at Dasuya in Punjab State. Furthermore, the Punjab Basin which is fairly deep and wide in the northwestern portions becomes narrower to the southwest and the basement topography rises gradually in that direction. A basement high occurs in the subsurface corresponding to the present water divide between the rivers of the Punjab and the Yamuna belonging to the Ganga system. According to Rao (1973), it has been long assumed that two ridges extending from Delhi, one to the northwest towards Lahore, and the other to north towards Dehradun are concealed under the alluvium of the plains. These isolated outcrops of Achaean rocks seen at Karana hills, and Sargodha extending in WNW direction from Lahore has been taken to indicate that a subsurface ridge extends under alluvium from Delhi in India to Lahore in Pakistan About 5km north of Jagadhari (near Ambala in Haryana State), the basement was encountered at a depth of 2800 m and it remains fairly flat at that level till the foothills (Nath, 1964, Rao, 1973). This basement high, often referred to as Delhi- Lahore- Sargodha Buried Ridge based on the inference that it represents the northwesterly extension of the Aravalli Mountain system, trending NW - SE . As shown by the contours, the northwestern flank of the ridge dips steeply and the depth to the bedrock increased sharply in that direction. The contours also indicate that the slopes to the southwest are less steep and the average depth of the bedrock over the crest of the ridge is about 400-500 m. The basement in Punjab basin is known to slope from south to north, and it is rather irregular and must locally contain hills and valleys. The basement seems to have a shape of asymmetrical basin. Both longitudinal and transverse faults are present in the basement, which forms a monocline with gentle northeasterly dip and no major structural feature were noticed. Based on seismic surveys carried out by O.N.G.C. indicated that the thickness of unconsolidated sediments in the southern part of the State is 154 m and near Jalandhar it is about 3000m and increases towards north. Near Dasuya it is about 4500 m, being the maximum. The basement rocks have been encountered in number of boreholes drilled by CGWB. The basin is shallowest in the southern part, in Bathinda district and the bed rock was encountered at a depth of 333 m below ground level at Kumharwala. At 333 m depth hard clay top of Palana series was encountered and 416 m claystone of Nagaur series was encountered during drilling of borehole down to 422 depth m. At Kheliwala, the bed rock comprised of Delhi quartzite was encountered at a depth of 533 m below ground level and the borehole was drilled down to 545 m. The thickness of unconsolidated material is maximum in the northeastern part.

3.0 GROUND WATER REGIME MONITORING

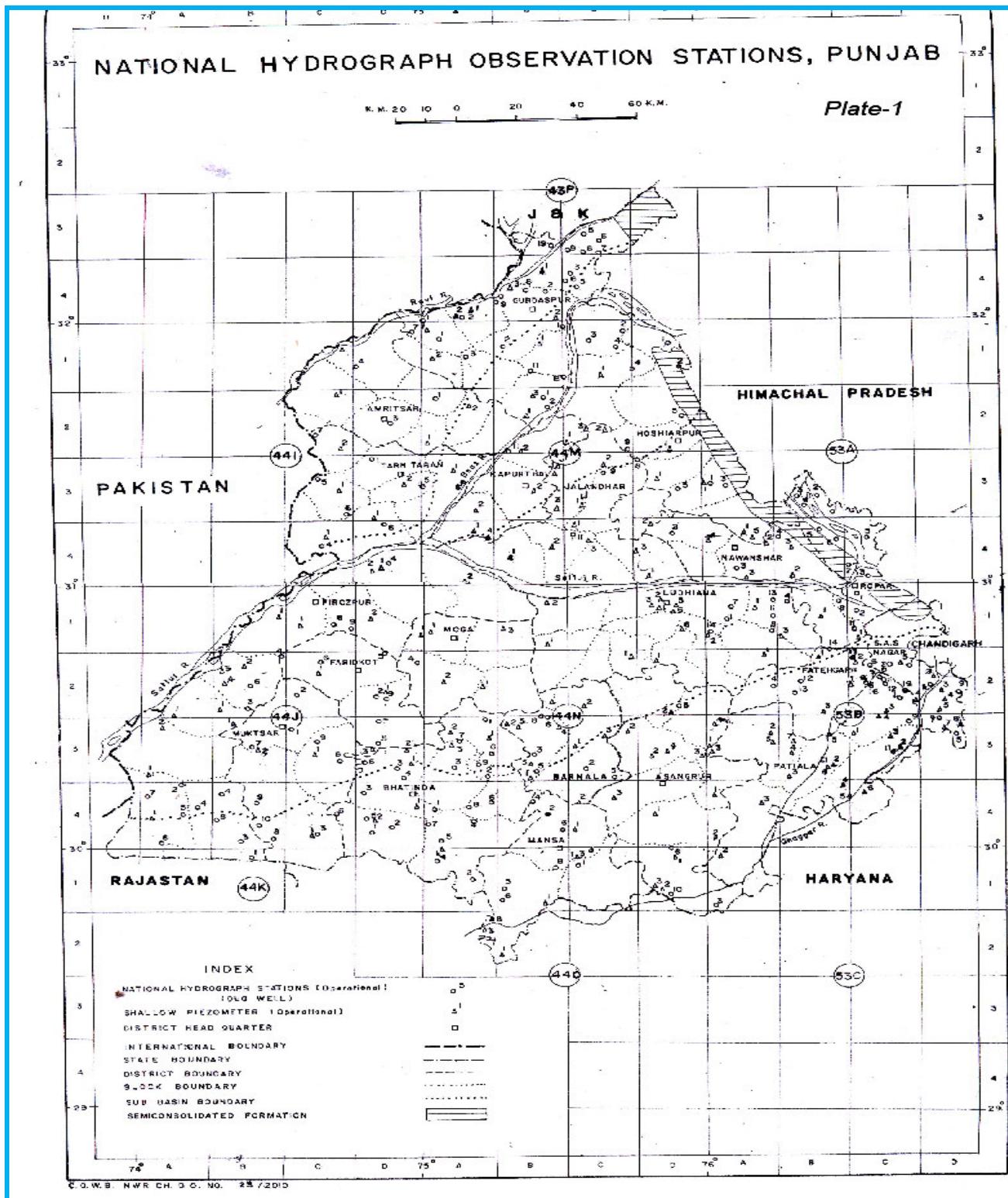
The Central Ground Water Board, North Western Region, has established Ground water observation wells in Punjab State and Union Territory of Chandigarh for monitoring water level. For this purpose, during 2016–2017, 956 observation wells in Punjab (170 dug wells and 786 piezometers) were monitored in Punjab including 38 deep piezometers to monitor behaviour of deeper aquifers. There are 25 observation wells in Chandigarh (1 dug wells and 17 Piezometers for monitoring phreatic aquifer) and 7 deep piezometers to monitor behaviour of deeper aquifers. In order to strengthen the ground water monitoring in Punjab state, additional ground water observation wells were established added to the existing water level monitoring network. During aquifer mapping and re-grouping of various aquifers, some piezometers which were earlier considered to be in First Unconfined Aquifer have now been put in Aquifer Group-II/III (Confined)

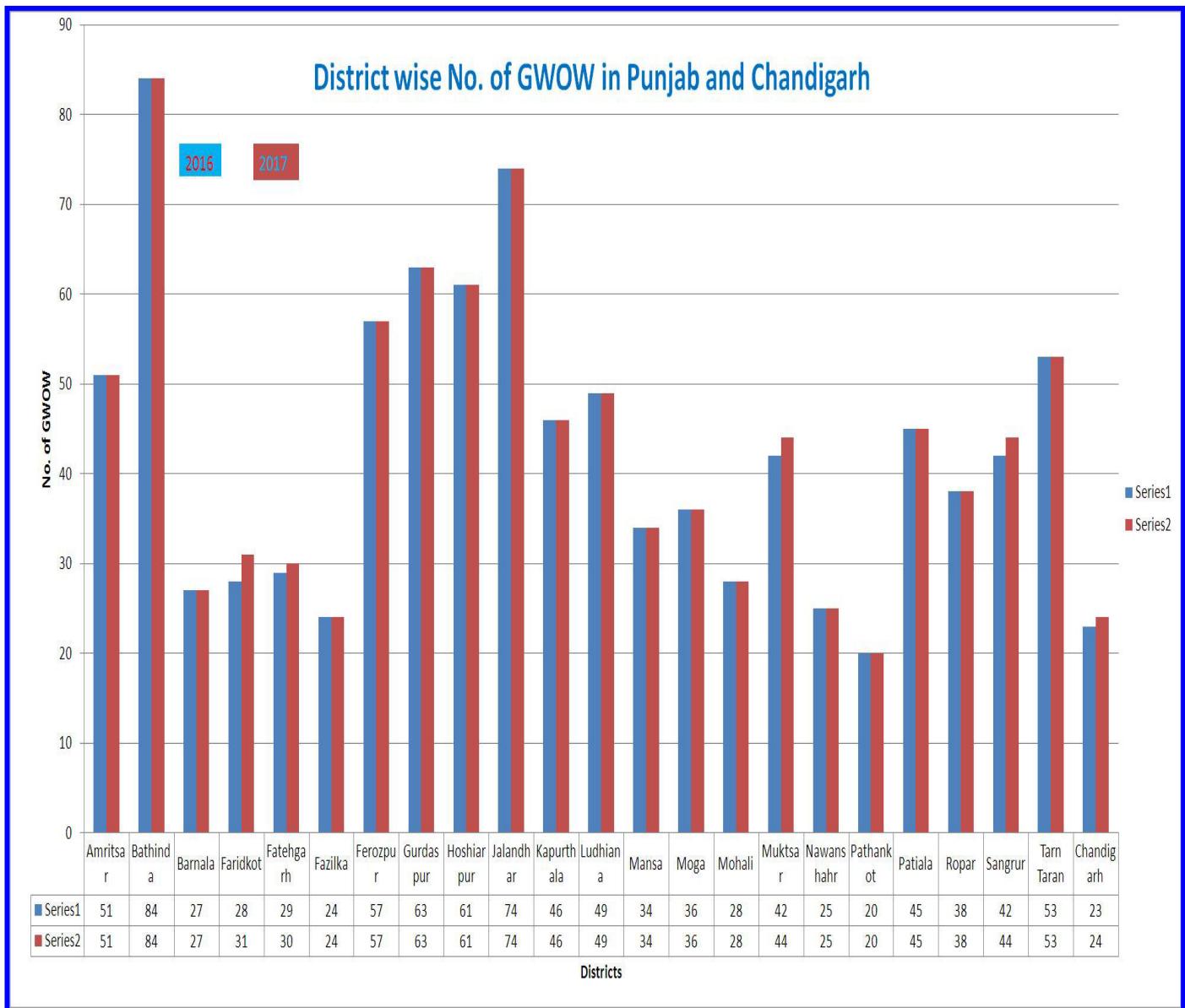
As a result, there were 964 Ground Water Observation Wells in Punjab on 31.03.2017, which included 170 dug wells and 737 piezometers for monitoring phreatic aquifers and 57 deep piezometers for monitoring deeper aquifers in Punjab. About 80% of the Ground water observation wells fall in the canal command areas of various canal systems, the areas falling out of the major command is part of Pathankot, Hoshiarpur, Nawanshahr, Ropar and SAS Nagar districts, parts of Gurdaspur, Jalandhar and Ludhiana districts. The district wise details of Ground water observation wells are given in **Table 1** and location of these Ground water observation wells is shown in Plate 1.

Table- 1 District wise ground water observation wells, Punjab State and Chandigarh

S. No.	Districts	No. of Ground water observation wells as on 31.3.2016			No. of Ground water observation wells as on 31.3.2017		
		DW	PZ	TOTAL	DW	PZ	TOTAL
1	Amritsar	6	45	51	6	45	51
2	Bathinda	29	55	84	29	55	84
3	Barnala	0	27	27	0	27	27
4	Faridkot	8	20	28	8	23	31
5	Fatehgarh	5	24	29	5	25	30
6	Fazilka	9	15	24	9	15	24
7	Ferozpur	8	49	57	8	49	57
8	Gurdaspur	17	46	63	17	46	63
9	Hoshiarpur	11	50	61	11	50	61
10	Jalandhar	3	71	74	3	71	74
11	Kapurthala	1	45	46	1	45	46
12	Ludhiana	9	40	49	9	40	49
13	Mansa	7	27	34	7	27	34
14	Moga	1	35	36	1	35	36
15	Mohali	11	17	28	11	17	28
16	Muktsar	10	32	42	10	34	44
17	Nawanshahr	2	23	25	2	23	25
18	Pathankot	11	9	20	11	9	20
19	Patiala	4	41	45	4	41	45
20	Ropar	10	28	38	10	28	38
21	Sangrur	3	39	42	3	41	44
22	Tarn Taran	5	48	53	5	48	53
Punjab State Total		170	786	956	170	794	964
1	Chandigarh	1	23	24	1	23	24
Total Punjab & Chandigarh		171	809	980	171	817	988

Plate 1: Location of ground water observation wells in Punjab State.





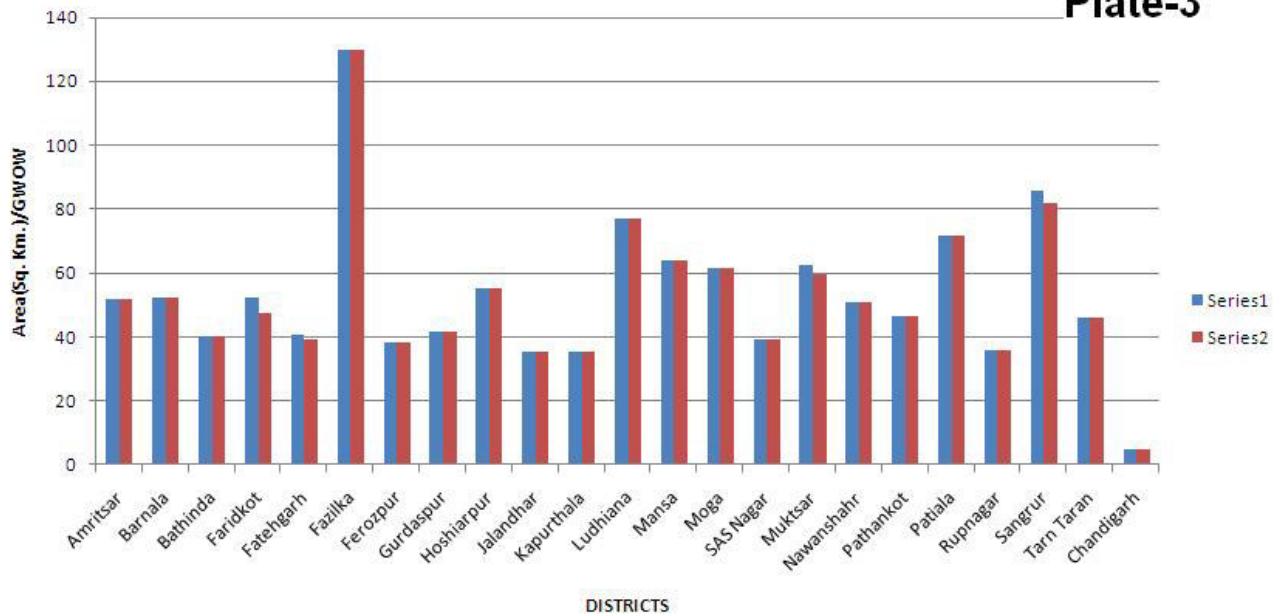
The area represented by single shallow Ground water observation wells being monitored in the state of Punjab and Chandigarh is given in **Table 2** and depicted in Plate 3.

Table 2. Area represented by single shallow ground water observation well.

S. No.	Districts	Area (km ²)	No. of Shallow Ground water observation wells		Density; Area represented by one GWOW (area/no. of well)	
			as on 31.3.2016	as on 31.3.2017	as on 31.3.2016	as on 31.3.2017
1	Amritsar	2647	51	51	52	52
2	Barnala	1410	27	27	52	52
3	Bathinda	3385	84	84	40	40
4	Faridkot	1469	28	31	51	46
5	Fatehgarh	1180	29	30	40	39
6	Fazilka	3113	24	24	133	133
7	Ferozpur	2190	57	57	46	46
8	Gurdaspur	2635	63	63	36	36
9	Hoshiarpur	3365	61	61	56	56
10	Jalandhar	2632	74	74	36	36
11	Kapurthala	1632	46	46	35	35
12	Ludhiana	3767	49	49	75	75
13	Mansa	2171	34	34	64	64
14	Moga	2216	36	36	47	47
15	SAS Nagar	1093	28	28	40	40
16	Muktsar	2615	42	44	63	60
17	Nawanshahr	1267	25	25	48	48
18	Pathankot	929	20	20	64	64
19	Patiala	3218	45	45	73	73
20	Rupnagar	1369	38	38	38	38
21	Sangrur	3610	42	44	86	82
22	Tarn Taran	2449	53	53	45	45
23	Chandigarh	114	24	24	5	5

**Area represented by single Ground Water Observation
Well in 2016 & 2017**

Plate-3



3.1 BEHAVIOUR OF WATER LEVEL

In order to assess the quantitative change in ground water resources, water levels were monitored as a routine of four times in a year. The behaviour of water level in May 2016, August 2016, November 2016 and January 2017 is discussed in following paragraphs. The maximum and minimum water levels recorded in different season is given below in Table 3.

Table3. The maximum and minimum water levels during all four seasons

Range	May 2016	August 2016	November 2016	January 2017
Minimum	0.58 m bgl Kondal (Fazilka district)	0.33 m bgl Mukerian (Hoshiarpur district)	0.52m bgl Doda (Muktsar district)	0.26m bgl Balocha Khera (Muktsar district)
Maximum	60.40m bgl Kharkan (Hoshiarpur District)	43.58m bgl Ghanauri Kalan (Sangrur District)	60.10m bgl Kharkan (Hoshiarpur District)	60.50m bgl Kharkan (Hoshiarpur district)

It is evident from the above table-3 that shallowest water level conditions prevail in southwest parts mainly in Faridkot, Muktsar, Ferozpur districts and south west Punjab and Flood plains of beas river in Mukerian block of Hoshiarpur district. While deepest water level conditions exist in the central and north eastern parts of the state covering Fatehgarh Sahib, Ludhiana, Rupnagar, Sangrur and Kandi areas of Hoshiarpur district. The water level data of all four seasons is discussed below and given in annexure-I:

3.1.1 MAY 2016

The behavioral pattern of water level in May 2016 along with depth to water level map (Fig. 1) is discussed below and data is presented in Annexure-I (Col. 4).

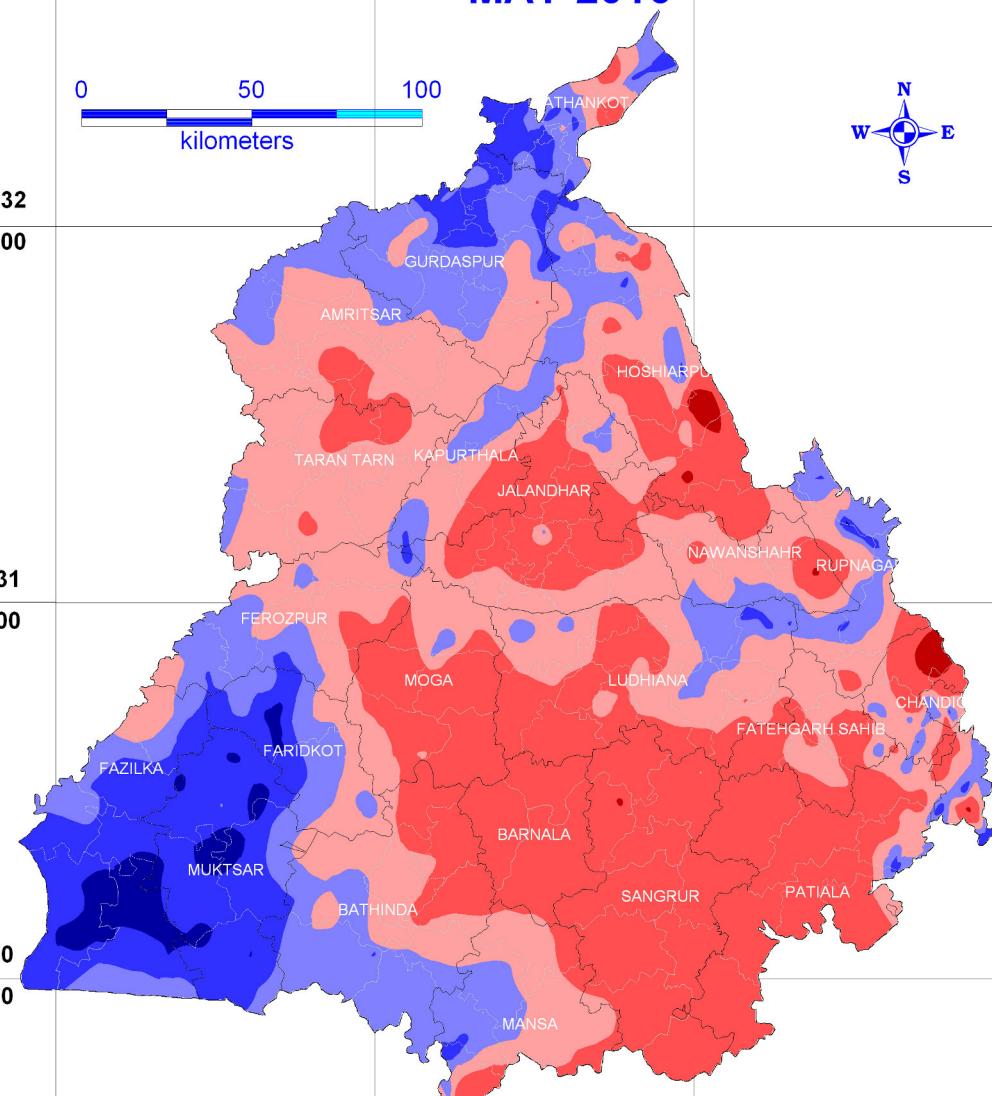
The depth to water level lies between 0.58m bgl at Kondal in Ferozpur district and 60.40m bgl at Kharkan in Hoshiarpur district. Very shallow water levels of 0-2 m (causing water logging) occur in more than 3% of wells and cover nearly 2% area of the state in south western parts in Muktsar and Fazilka districts. Shallow water levels of 2-5 m have been observed in 11% of the wells and more than 10% of the total area that lies in south western parts of Muktsar, Fazilka, Faridkot, and in northern parts of Gurdaspur & Pathankot districts and few isolated patches in north eastern parts. These are mainly canal command areas and use canal water for their agricultural needs. The water levels between 5-10 m are observed in the northern parts (Pathankot, Gurdaspur, Amritsar, and Hoshiarpur districts), south and south western parts (Fazilka, Ferozpur, Faridkot, Muktsar, Bathinda and Mansa districts), eastern parts of Ropar and SAS Nagar districts. About 22% of wells and 19% of the area fall in this range. Moderately Deep water levels (10-20 m) are predominant and observed in 32% wells covering about 33% area of the State in central parts. Deep water levels (20-40 m) are also observed covering parts of Jalandhar, Moga, Ludhiana, Fatehgarh, Patiala, Sangrur, Barnala and Nawanshahr districts and observed in 31% wells covering about 35% area of the State in central part. Very deep water levels (>40 m) are also observed covering parts of Kandi belt in Hoshiarpur and SAS Nagar districts and observed in 1% wells covering about 1% area of the State. Summarized details of depth to water level in different ranges are given in table below.

Depth to water level range	Wells monitored		Area covered	
	No.	%age	Sq. Km.	%age
0-2	19	3	390	2
2-5	83	11	5294	10
5-10	160	22	9786	19
10-20	239	32	16839	33
20-40	227	31	17791	35
>40	8	1	376	1
Total	736	100	50476	100

Fig:-1

**DEPTH TO WATER LEVEL MAP
PUNJAB STATE & CHANDIGARH(UT)
MAY 2016**

0 50 100
kilometers



DEPTH TO WATER LEVEL m (bgl)

[Dark Blue Box]	0-2
[Medium Blue Box]	2-5
[Light Blue Box]	5-10
[Pink Box]	10-20
[Red Box]	20-40
[Dark Red Box]	>40.0

Block Boundary

District Boundary

State Boundary

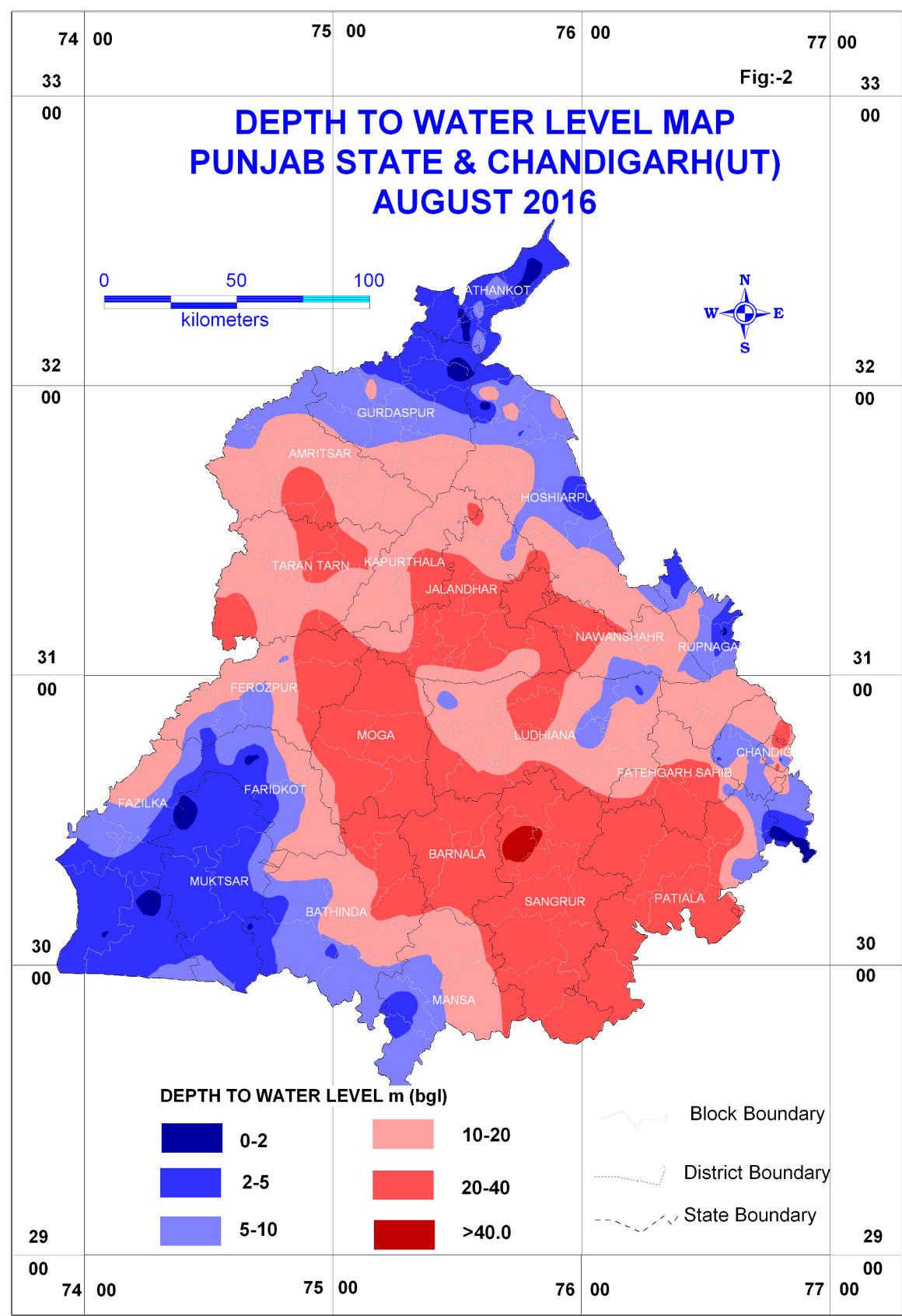
3.1.2 August 2016

The behavioral pattern of water level in August 2016 along with depth to water level map (Fig.2) is discussed below and data is presented in Annexure-1 (Col. 5).

The depth to water level lies between 0.33m bgl at Mukerian in Hoshiarpur district and 43.58m bgl at Ghanauri Kalan in Sangrur district. Very shallow water levels of 0-2 m (causing water logging) occur in more than 6% of wells and cover nearly 1% area of the state in south western parts in Pathankot, Hoshiarpur, Muktsar and Fazilka districts. Shallow water levels of 2-5 m have been observed in 20% of the wells and more than 14% of the total area that lies in south and south western parts of the state in (Muktsar, Fazilka, Faridkot) and in northern parts (Hoshiarpur, Gurdaspur & Pathankot) districts and few isolated patches in north eastern parts. The water levels between 5-10 m are observed in the northern parts (Gurdaspur, Amritsar, and Hoshiarpur districts), south and south western parts (Fazilka, Ferozpur, Faridkot, Muktsar, Bathinda and Mansa districts), eastern parts of Ropar and SAS Nagar districts. About 21% of wells and 17% of the area fall in this range. Moderately Deep water levels (10-20 m) are predominant and observed in 27% wells covering about 33% area of the State in parts Amritsar, Tarntaran, Kapurthala, Jalandhar, Hoshiarpur, Nawanshahr, Ludhiana, Fatehgarh Sahib, Ropar, Chandigarh, Patiala, Ferozpur, Faridkot, Bathinda and Mansa districts. Deep water levels (20-40 m) are also observed covering parts of Jalandhar, Moga, Ludhiana, Fatehgarh Sahib, Patiala, Sangrur and Nawanshahr districts and observed in 25% wells covering about 34% area of the State in central part. Very deep water levels (>40 m) are also observed in small patch in Sangrur district in <0.5% wells covering about <0.5% area of the State. Summarized details of depth to water level in different ranges are given in table below.

Depth to water level range	Wells monitored		Area covered	
	No.	%age	Sq. Km.	%age
0-2	16	6	478	1
2-5	51	20	7181	14
5-10	53	21	8544	17
10-20	68	27	16831	33
20-40	64	25	17199	34
>40	1	0	243	0
Total	253	100	50476	100

Fig:-2

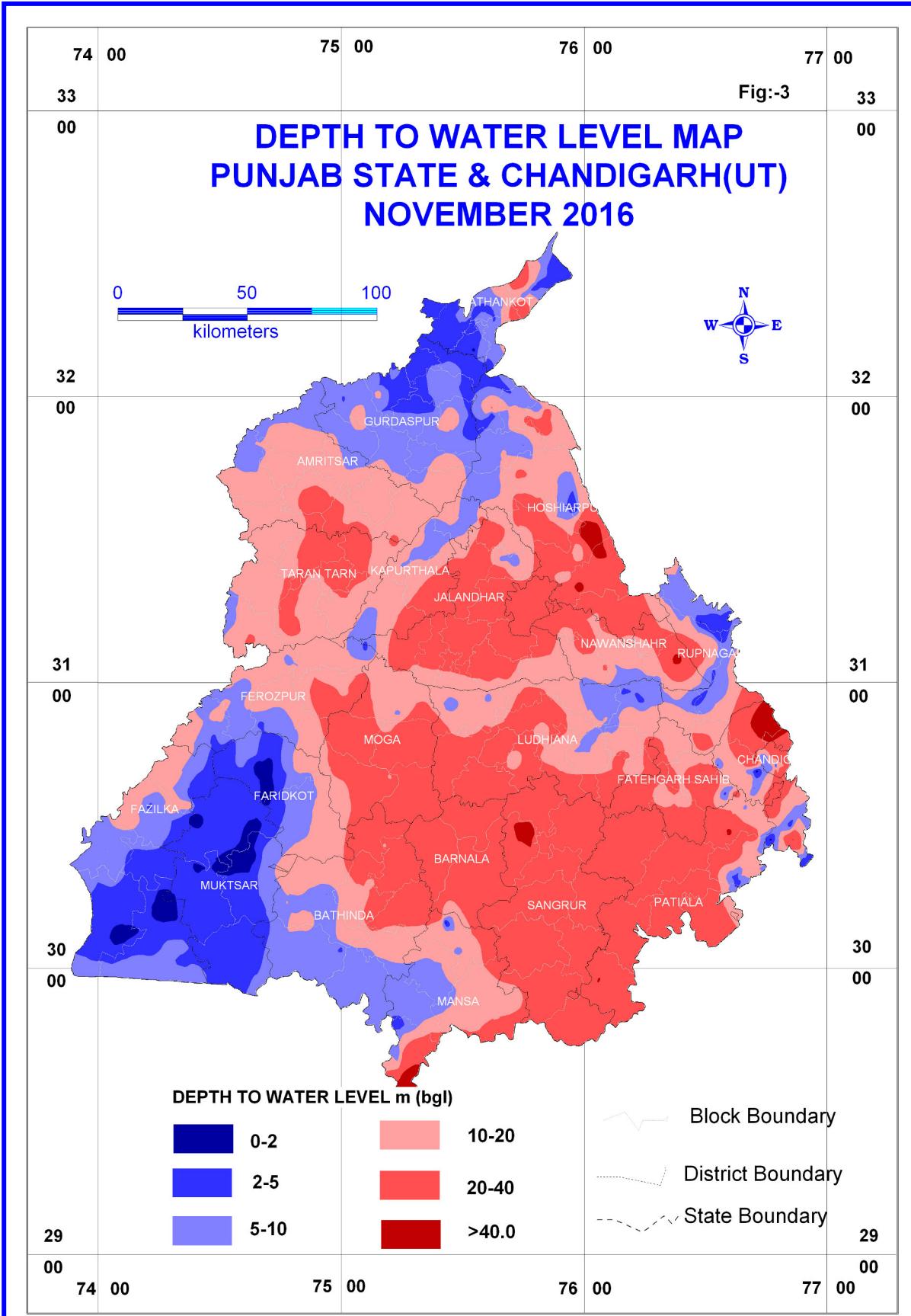


3.1.3 NOVEMBER 2016

The behavioral pattern of water level in November 2016 along with depth to water level map (Fig.3) is discussed below and data is presented in Annexure-I (Col. 6).

The depth to water level lies between 0.52m bgl at Doda in Muktsar district and 60.10m bgl at Kharkan in Hoshiarpur district. Very shallow water levels of 0-2 m (causing water logging) occur in more than 2% of wells and cover nearly 1% area of the state in south western parts in Ferozpur, Faridkot, Muktsar and Fazilka districts. Shallow water levels of 2-5 m have been observed in 12% of the wells and 11% of the total area in south western parts of state covering Muktsar, Fazilka, Faridkot, and Ferozpur districts, in north, parts of Gurdaspur & Pathankot districts and few isolated patches in north eastern parts. The water levels in range of 5-10m are observed in north covering Pathankot, Gurdaspur, Amritsar, Kapurthala and Hoshiarpur districts, in south and south west, the Fazilka, Ferozpur, Faridkot, Muktsar, Bathinda and Mansa districts and in the east, parts of Ropar and SAS Nagar districts covering 23% of wells and 20% of the area of the state. Moderately Deep water levels (10-20 m) are predominant and observed in 29% wells covering about 31% area of the State in central parts covering Gurdaspur, Amritsar, Tarntaran, Kapurthala, Jalandhar, Hoshiarpur, Nawanshahr, Ropar, Fatehgarh Sahib, Ludhiana, Moga, Ferozpur, Bathinda, Barnala and Mansa Districts. Deep water levels (20-40 m) are also observed covering parts of Jalandhar, Nawanshahr, Hoshiarpur, Moga, Barnala, Bathinda, Mansa, Sangrur, Ludhiana, Patiala, and Fatehgarh sahib, districts and observed in 33% wells covering about 36% area of the State. Very deep water levels (>40 m) are also observed in small patch in Sangrur, Hoshiarpur and SAS Nagar districts in 1% wells covering about 1% area of the State. Summarized details of depth to water level in different ranges are given in table below.

Depth to water level range	Wells monitored		Area covered	
	No.	%age	Sq. Km.	%age
0-2	21	3	534	1
2-5	102	13	5325	11
5-10	163	21	9236	18
10-20	226	28	15237	30
20-40	271	34	19748	39
>40	7	01	396	1



3.1.4 January 2017

The behavioral pattern of water level in January 2017 along with depth to water level map (Fig.4) is discussed below and data is presented in Annexure-I (Col. 7).

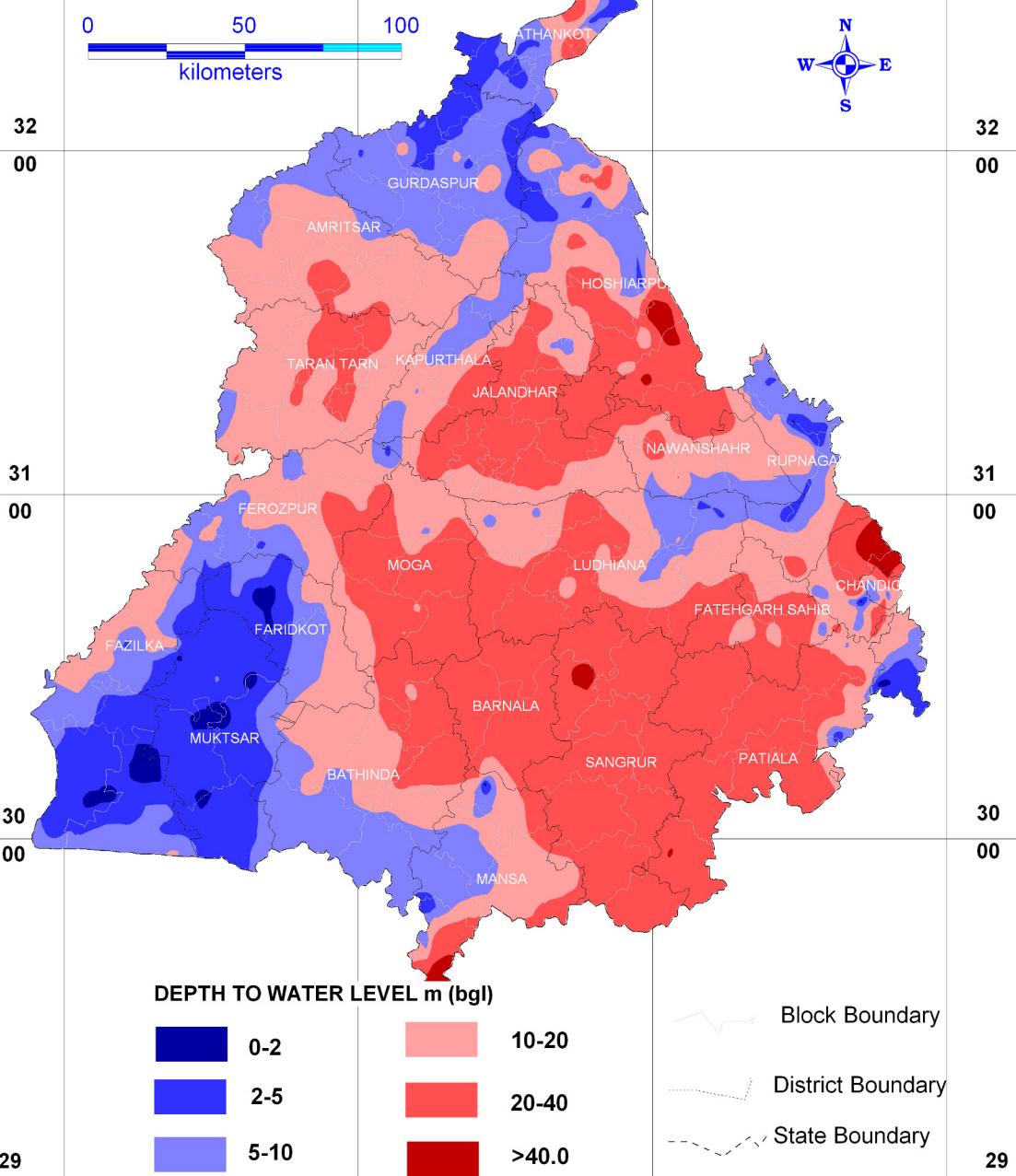
The depth to water level lies between 0.75m bgl at Balocha Khera in Muktsar district and 60.50m bgl at Kharkan Pz in Hoshiarpur district. Very shallow water levels of 0-2 m (causing water logging) occur in more than 3% of wells and cover nearly 4% area of the state in south western parts in Muktsar and Fazilka districts. Shallow water levels of 2-5 m have been observed in 13% of the wells and 11% of the total area that lies in south western parts of Muktsar, Fazilka, Faridkot, and in northern parts of Gurdaspur & Pathankot districts and few isolated patches in north eastern parts. These are mainly canal command areas and use canal water for their agricultural needs. The water levels between 5-10 m are observed in the northern parts (Pathankot, Gurdaspur, Amritsar, Hoshiarpur districts), south and south western parts (Fazilka, Ferozpur, Faridkot, Muktsar, Bathinda and Mansa districts), eastern parts of Ropar and SAS Nagar districts. About 21% of wells and 18% of the area fall in this range. Moderately Deep water levels (10-20 m) are predominant and observed in 32% wells covering about 32% area of the State in parts of Gurdaspur, Amritsar, Tarntaran, kapurthala, Jalandhar, Hoshiarpur, Nawanshahr, Ropar, Fatehgarh Sahib, Ludhiana, Moga, Ferozpur, Bathinda and Mansa Districts. Deep water levels (20-40 m) are also observed covering parts of Jalandhar, Nawanshahr, Fatehgarh, Moga, Barnala, Ludhiana, Patiala and Sangrur districts and observed in 30% wells covering about 34% area of the State in central part. Very deep water levels (>40 m) are also observed covering parts of Kandi belt in Hoshiarpur and SAS Nagar districts and observed in <0.5% wells covering about <0.5% area of the State.

Depth to water level range	Wells monitored		Area covered	
	No.	%age	Sq. Km.	%age
0-2	16	2	395	1
2-5	98	12	5429	11
5-10	182	23	10157	20
10-20	226	29	15734	31
20-40	260	33	18376	36
>40	8	1	385	1

Fig:-4

**DEPTH TO WATER LEVEL MAP
PUNJAB STATE & CHANDIGARH(UT)
JANUARY 2017**

0 50 100
kilometers



3.2 GROUND WATER ELEVATION AND FLOW DIRECTIONS

Ground water flows from areas of high hydraulic head (high water-level elevation) to areas of low head (low water level elevation). Because hydraulic heads vary laterally and vertically in a ground-water system, ground-water movements generally have a vertical as well as a horizontal component. Contour maps of heads in aquifers are constructed to determine the horizontal direction of flow. A contour map of the water table represents the elevation of the top of the saturated part of the uppermost unconfined aquifer.

The horizontal direction of ground-water flow is generally perpendicular to the contour lines and water flows down the slope of the contours in a manner analogous to the flow of water down the slope of the land surface. Water-table maps are prepared from water levels measured in ground water observation wells the elevation of the water-table surface.

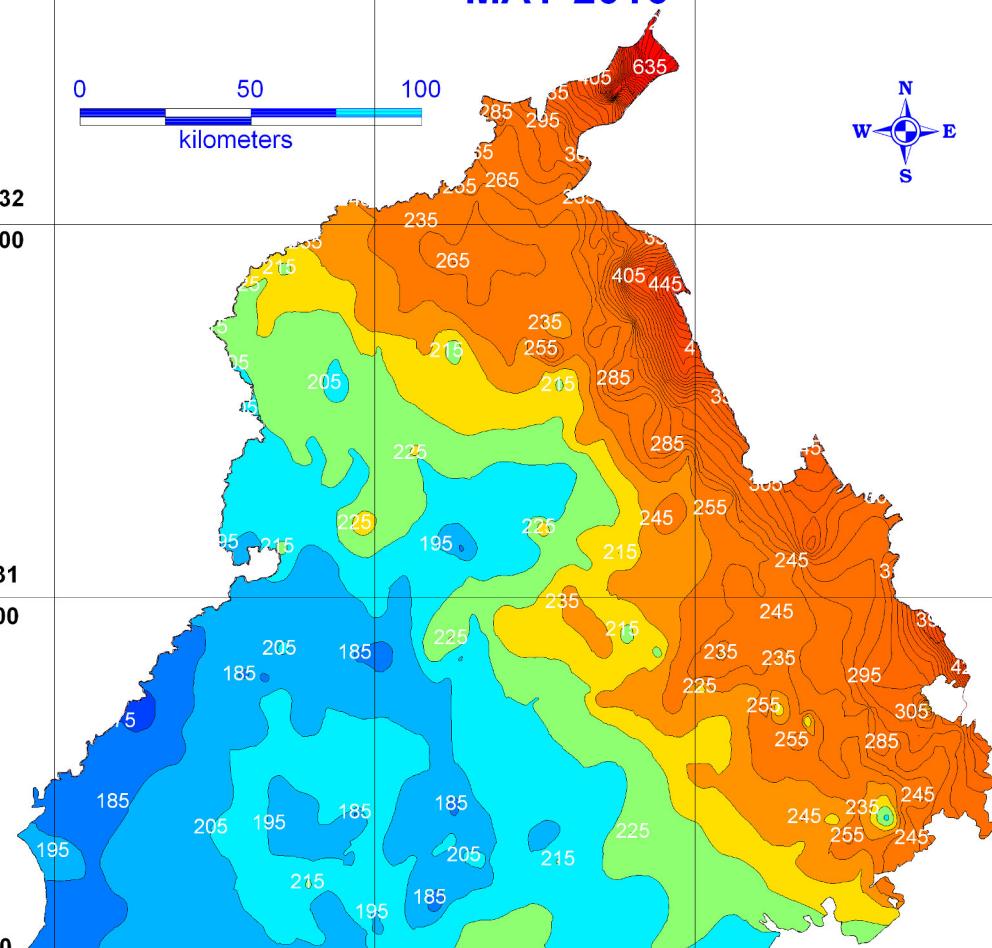
3.2.1 May 2016

The water table elevation (May, 2016) contours have a maximum value of 635 m amsl rising in the northeastern parts in Dhar Kalan Block of Pathankot district along the Himalayas to 155 m AMSL in southwestern part in the Punjab plains (Sardulgarh Block in Mansa district). The map helps in determining the hydraulic gradient and direction of ground water flow. The general ground water flow direction follows the natural slope. There is not much change in the ground water flow direction which still remains northeast to southwest, but the ground water gradient between contour level 195 m and 185 m in Muktsar/Fazilka districts has become gentle indicating slowing of ground water movement resulting in spreading of water logged areas to adjoining areas of other districts. The water table elevation map for May 2016 is shown in Map (Fig. 5).

Fig:-5

**WATER TABLE ELEVATION MAP
PUNJAB STATE & CHANDIGARH(UT)
MAY 2016**

0 50 100
kilometers



Water Table Elevation m(AMSL)



4.3 SEASONAL FLUCTUATIONS:

On comparing Water level data of current measurement with previous measurement data is termed as seasonal water level fluctuations. The water level data of all four measurements are compared to previous measurement and seasonal water level fluctuations are determined.

3.3.1 JANUARY 2016 - MAY 2016

The behavioral pattern of this seasonal fluctuation is discussed along with fluctuation map (Fig. 6) below and the data are presented in Annexure-II (Col.4). The seasonal fluctuation shows that there is a general decline of water levels in 73% of wells monitored and covering 74% area of the State. The decline has been observed in all districts except some isolated patches scattered over the state. Water level decline in the range of 0-2 m is observed in 68% of wells and 71% of area. Water level decline in the range of 2-4 m is observed in 4% of wells and 3% of area. Water level decline of >4m is observed in 1% of wells and less than 1% of area during the period.

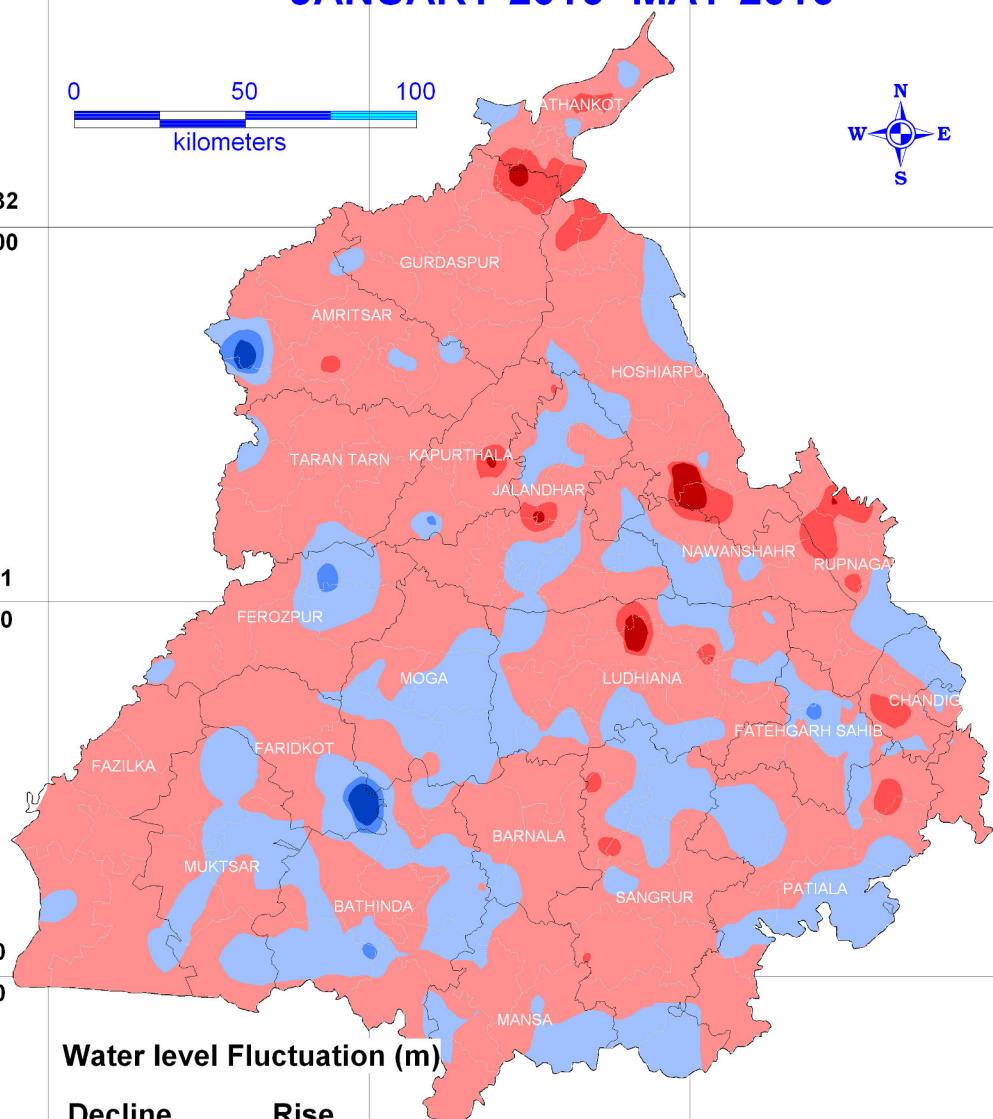
The water level rise has been recorded in 27% of wells monitored and covering 26% area of the State. Water level rise in the range of 0-2 m is observed in 26% of wells and 25% of the area. Water level rise 2-4m is observed in 1% wells and less than 1% of area during the period. The water level has been reported in small patches in all districts in south western parts of the state. Water level rise of more than 4m is observed in 1% wells and less than 1% of area in small patches in all districts in south western parts of the state.

water level fluctuation range		Wells monitored		Area covered	
		No.	%age	Sq. Km.	%age
Decline	0-2	377	68	35849	71
	2-4	20	4	1352	4
	>4.0	7	1	229	0
Rise	0-2	143	26	12661	25
	2-4	7	1	247	0
	>4.0	2	0	138	0
Total		556	100	50476	100

Fig:-6

**WATER LEVEL FLUCTUATION MAP
PUNJAB STATE & CHANDIGARH(UT)
JANUARY 2016- MAY 2016**

0 50 100
kilometers



Water level Fluctuation (m)

Decline Rise

>4.0 >0

4-2 0

2-0 0

Block Boundary

District Boundary

State Boundary

3.3.2 MAY 2016 - AUGUST 2016

Water level data of August 2016 is compared with water level data of May 2016 to determine seasonal water level fluctuations. The behavioral pattern of this seasonal fluctuation is discussed along with fluctuation map (Fig. 7) below and the data are presented in Annexure-II (Col.5).

The seasonal fluctuation shows decline of water levels in 63% of wells monitored and covering 74% area of the State. The decline has been observed in all districts of the state. Water level decline in the range of 0-2 m is observed in 50% of wells and 58% of area. Water level decline of 2-4m is observed in 7% of wells and 13% of area. Water level decline more than 4m is observed in 6% wells and 3% of area during the period.

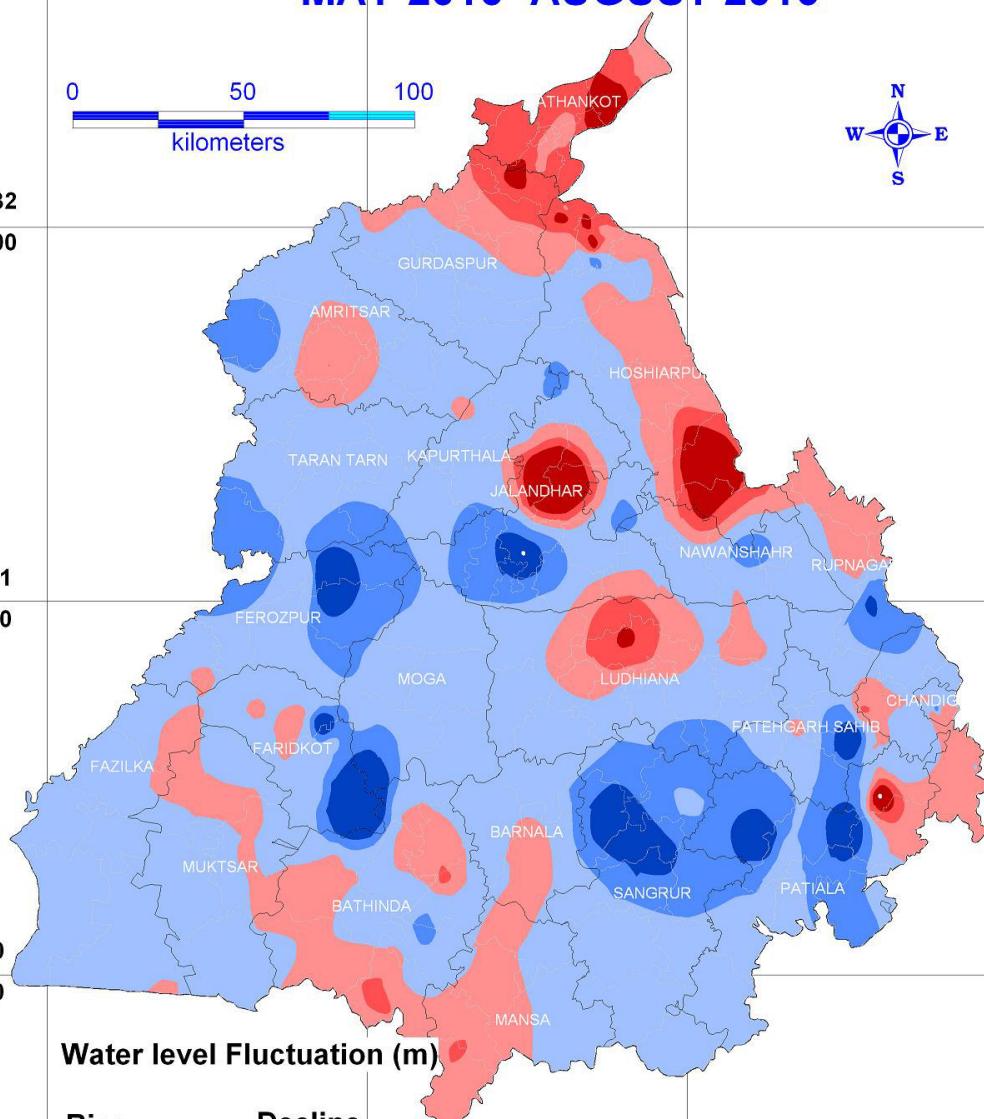
The water level rise has been recorded in 37% of wells monitored and covering 26% area of the State. Water level rise in the range of 0-2 m is observed in 27% of wells and 20% of the area in all districts. Water level rise in the range of 2-4m is observed in 6% wells and 4% of area in parts of Kapurthala, Jalandhar, Nawanshahr, Ludhiana, Moga, Bathinda and Fatehgarh Sahib Districts during the period. Water level rise more than 4m is observed in 4% wells and 2% of area during the period. in all districts in south western parts of the state.

water level fluctuation range		Wells monitored		Area covered		remarks
		No.	%age	Sq. Km.	%age	
Decline	0-2	117	50	29189	58	
	2-4	16	7	6635	13	
	>4.0	14	6	1665	3	
Rise	0-2	63	27	9898	20	
	2-4	14	6	2111	4	
	>4.0	9	4	978	2	
Total		233	100	50476	100	

Fig:-7

**WATER LEVEL FLUCTUATION MAP
PUNJAB STATE & CHANDIGARH(UT)
MAY 2016- AUGUST 2016**

0 50 100
kilometers



Water level Fluctuation (m)

Rise	Decline
Dark Red	>4.0
Medium Red	4-2
Light Red	2-0

Block Boundary

District Boundary

State Boundary

3.3.3 May 2016 - November 2016

Water level data of November 2016 is compared with Water level data of May 2016 to determine the seasonal water level fluctuation. The behavioral pattern of this seasonal fluctuation is discussed along with fluctuation map (Fig. 8) below and the data are presented in Annexure-II (Col.6).

The seasonal fluctuation shows a general decline of water levels in 83% of wells monitored and covering 86% area of the State. The decline has been observed in all districts. Water level decline in the range of 0-2 m is observed in 69% of wells and 73% of area. Water level decline in the range of 2-4 m is observed in 11% of wells and 11% of area in parts of Jalandhar, Fatehgarh Sahib, Ludhiana, Sangrur, Moga, Barnala and Bathinda districts, whereas, water level decline of >4m is observed in 3% of wells and 2% of area during the period.

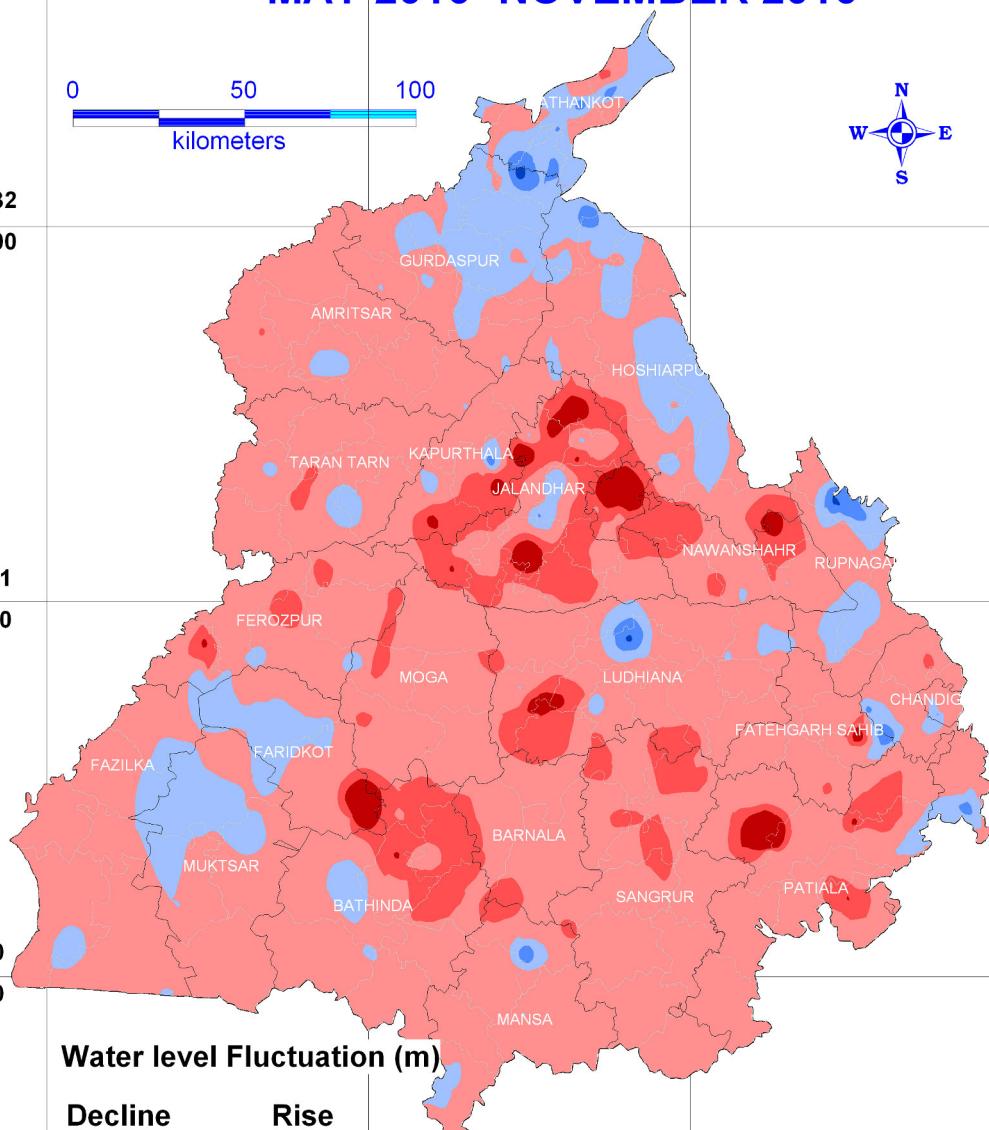
The water level rise has been recorded in 17% of wells monitored and covering 14% area of the State. Water level rise in the range of 0-2 m is observed in 15% of wells and 13% of the area. Water level rise 2-4m is observed in 2% wells and 1% of area, whereas, water level decline of >4m is observed in less than 1% of wells and less than 1% of area during the period.

Water Level Fluctuation Range		Wells Monitored		Area Covered	
		No.	%age	Sq. Km.	%age
Decline	0-2	467	69	36996	73
	2-4	72	11	5477	11
	>4.0	23	3	779	2
Rise	0-2	100	15	6766	13
	2-4	16	2	395	1
	>4.0	3	0	63	0
Total		681	50576	50476	100

Fig:-8

**WATER LEVEL FLUCTUATION MAP
PUNJAB STATE & CHANDIGARH(UT)
MAY 2016- NOVEMBER 2016**

0 50 100
kilometers



Water level Fluctuation (m)

Decline	Rise
Red	>4.0
Orange	4-2
Light Orange	2-0

Block Boundary

District Boundary

State Boundary

3.3.4 May 2016 - January 2017

Water level data of January 2017 is compared with Water level data of May 2016 to determine the seasonal water level fluctuation. The behavioral pattern of this seasonal fluctuation is discussed along with fluctuation map (Fig. 9) below and the data are presented in Annexure-II (Col.7).

The seasonal fluctuation between May 2016 and January 2017 shows that there is a general decline of water levels in 71% of wells monitored and covering 79% area of the State. The decline has been observed in all districts. Water level decline in the range of 0-2 m is observed in 64% of wells and 75% of area. Water level decline in the range of 2-4 m is observed in 6% of wells and 4% of area whereas, water level decline of >4m is observed in 1% of wells and <1% of area during the period.

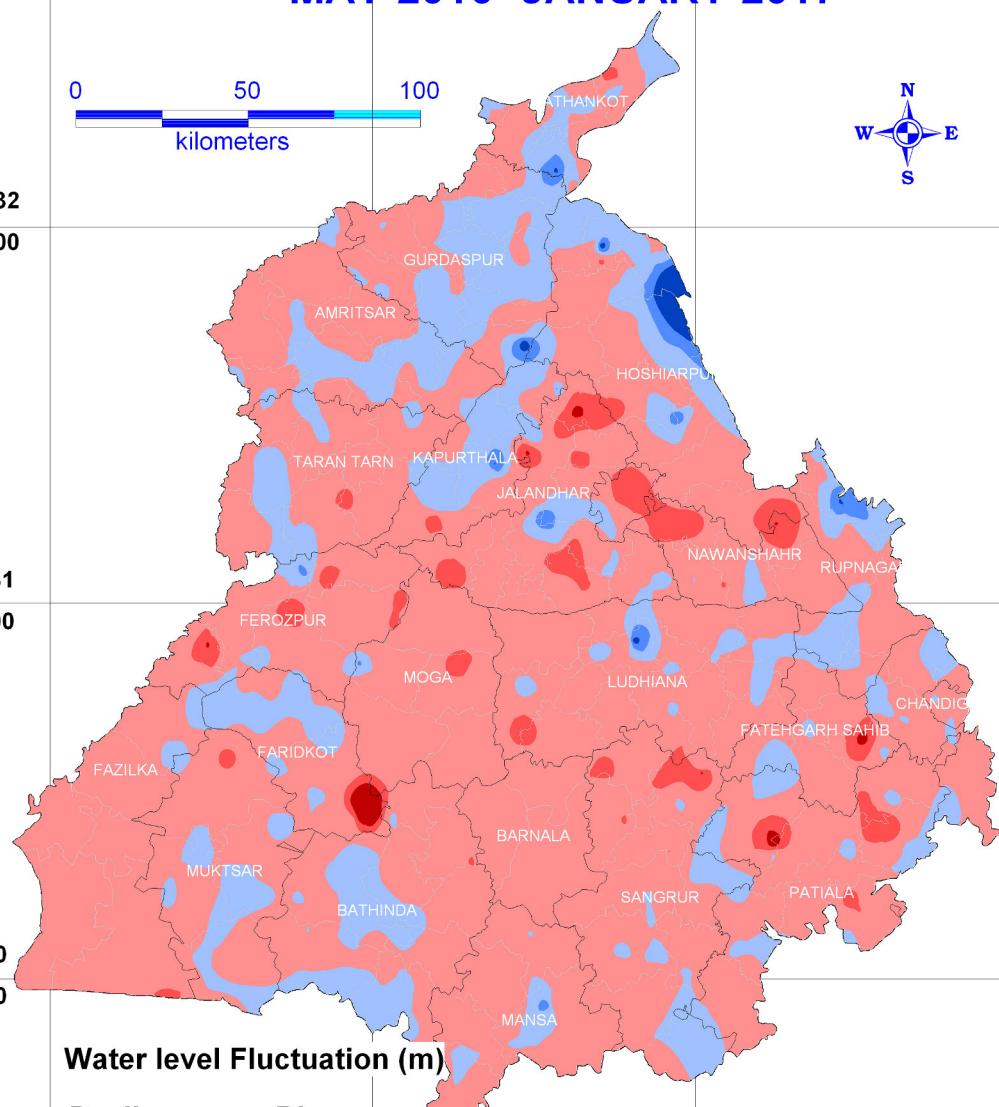
The water level rise has been recorded in 29% of wells monitored and covering 21% area of the State. Water level rise in the range of 0-2 m is observed in 27% of wells and 20% of the area. Water level rise 2-4m is observed in 1% wells and 1% of area, whereas, water level decline of >4m is observed in 1% of wells and <1% of area during the period.

Water Level Fluctuation Range		Wells Monitored		Area Covered	
		No.	%age	Sq. Km.	%age
Decline	0-2	429	64	37719	75
	2-4	39	6	1890	4
	>4.0	9	1	186	0
Rise	0-2	180	27	10046	20
	2-4	8	1	445	1
	>4.0	6	1	190	0
Total		671	100	50476	100

Fig:-9

**WATER LEVEL FLUCTUATION MAP
PUNJAB STATE & CHANDIGARH(UT)
MAY 2016- JANUARY 2017**

0 50 100
kilometers



Water level Fluctuation (m)

Decline

>4.0

4-2

2-0

Rise

0-2

2-4

4-6

Block Boundary

District Boundary

State Boundary

3.4 ANNUAL WATER LEVEL FLUCTUATIONS

In order to know the impact of rainfall and ground water withdrawal during last one year, annual water level data for given period in current year is compared with water level data of corresponding period of last year and annual water level fluctuations are determined.

3.4.1 MAY 2015 - MAY 2016

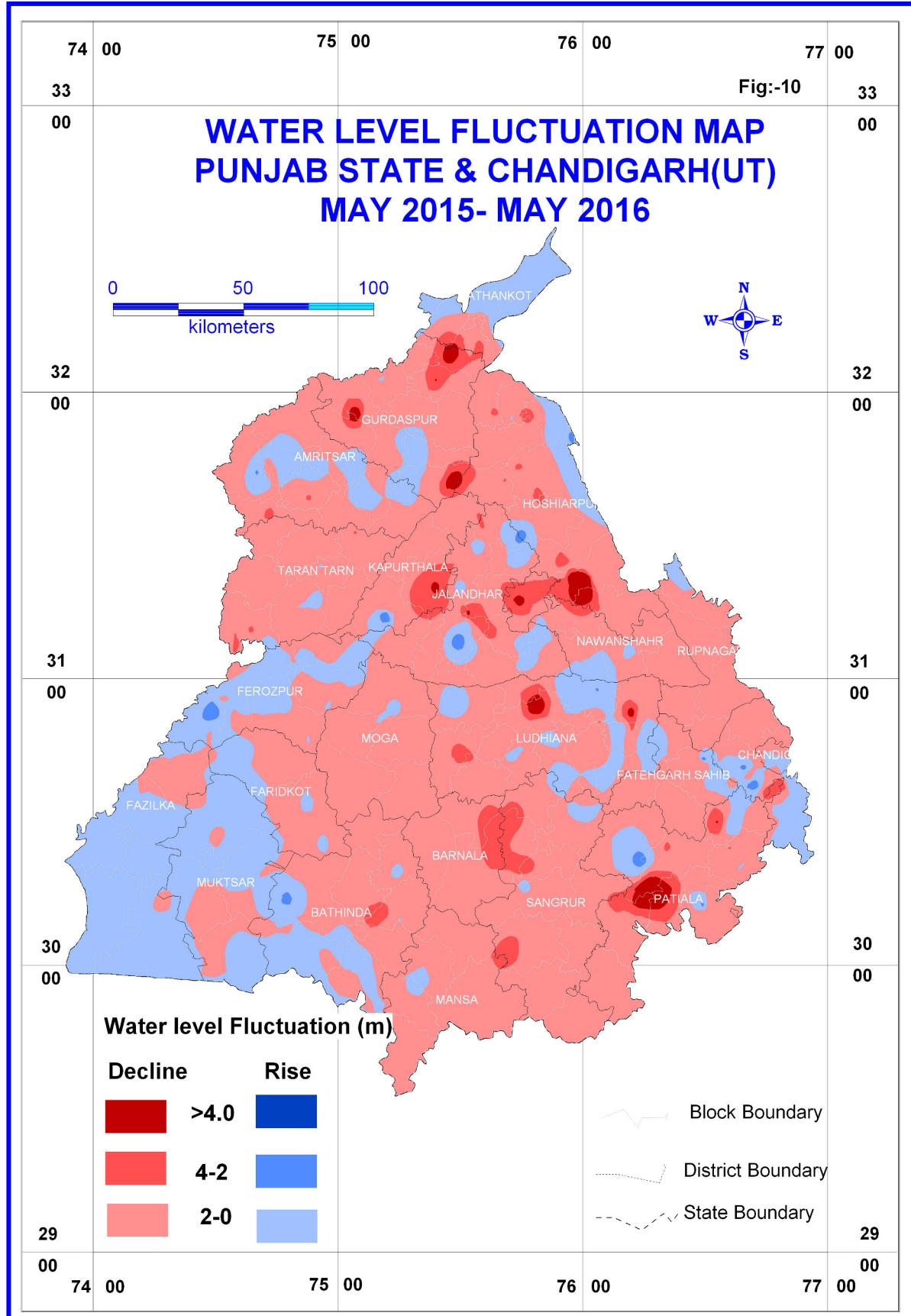
The behavioral pattern of annual fluctuation in Premonsoon season is discussed in the following paragraph along with fluctuation map (**Fig. 10**). Water level fluctuations data are given in the Annexure-III (Col-4).

The annual fluctuation depicts general decline of water levels in 74% of wells monitored and covering 76% area of the State. The decline has been observed in south-central Punjab, covering the parts of Jalandhar, Ludhiana, Fatehgarh Sahib, Moga, Barnala, Sangrur, Patiala and Mansa districts. Water level decline in the range of 0-2 m is observed in 64% of wells and 70% of the area. Water level decline in the range of 2-4 m is observed in 8% of wells and 5% of the area, whereas, the water level decline of >4m is observed in 2% of wells and 1% of the area during the period.

The water level rise has been recorded in 26% of wells monitored and covering 24% area of the State. The water levels rise has been observed in isolated patches in Pathankot, Gurdaspur, Amritsar, Hoshiarpur, Jalandhar, and SAS Nagar districts. Rise is also observed in Ferozpur, Fazilka, Muktsar and Bathinda districts of south western parts of the state. Water level rise in the range of decline 0-2 m is observed in 23% wells and 23% of area. Water level rise 2-4m is observed in 3% wells and <1% of area. The water level rise of >4m is not observed in the state during the period.

Water Level Fluctuation Range		Wells Monitored		Area Covered	
		No.	%age	Sq. Km.	%age
Decline	0-2	363	64	35584	70
	2-4	47	8	2514	5
	>4.0	11	2	496	1
Rise	0-2	128	23	11682	23
	2-4	16	3	200	0
	>4.0	1	0	0	0
Total		566	100	50476	100

Fig:-10



3.4.2 AUGUST 2015 - AUGUST 2016

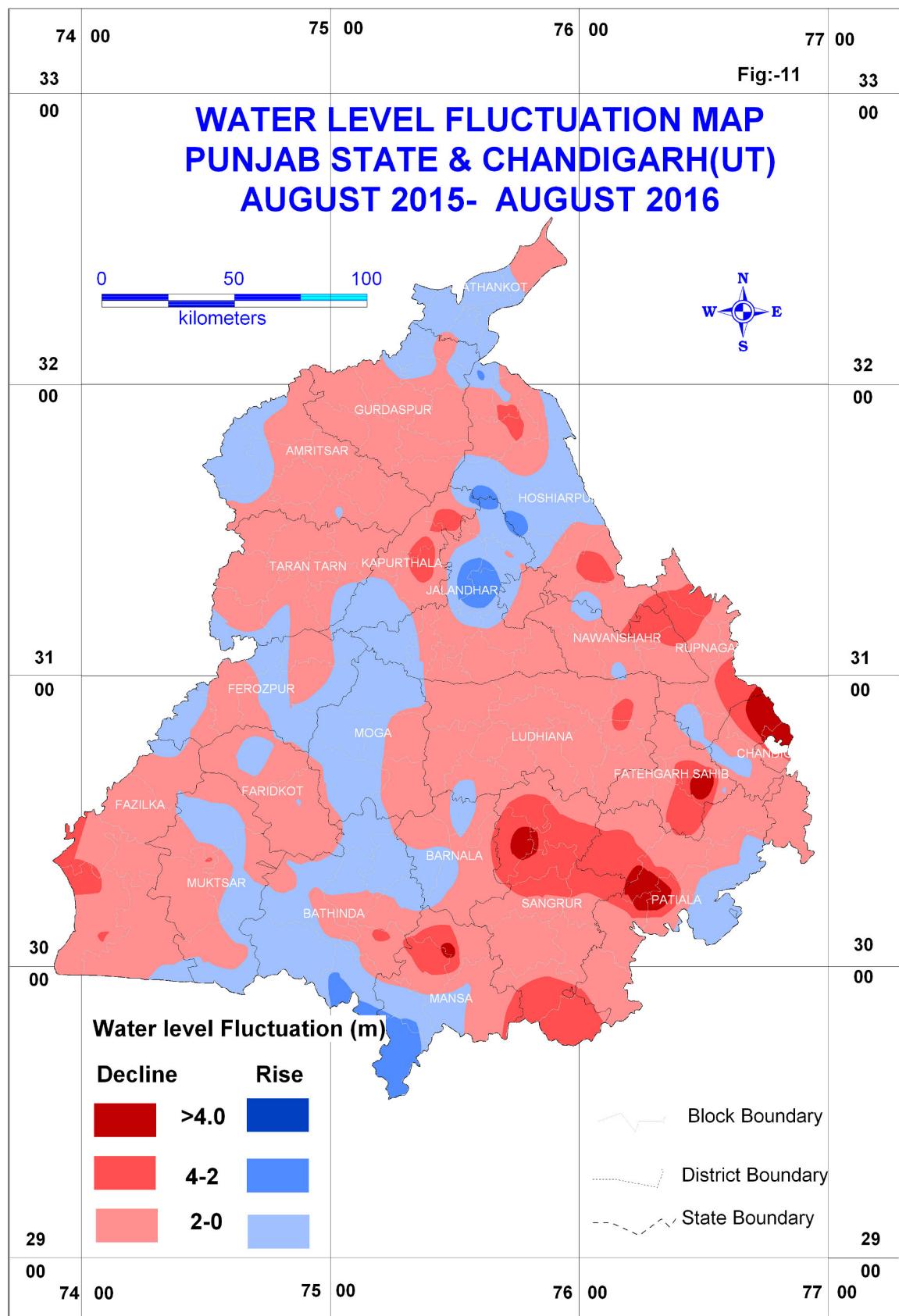
The behavioral pattern of annual fluctuation in Monsoon season is discussed in the following paragraph along with fluctuation map (**Fig. 11**). Water level fluctuations data are given in the Annexure-III (Col-5).

The annual fluctuation depicts general decline of water levels in 65% of wells monitored and covering 67% area of the State. Water level decline the range of 0-2 m is observed in 49% of wells and 57% of the area in all districts in the state. Water level decline in the range of 2-4 m is observed in 12% of wells and 8% of the area covering the parts of Kapurthala, Jalandhar, Hoshiarpur, Ludhiana, Fatehgarh Sahib, Moga, Barnala, Sangrur, Patiala and Mansa districts. Water level decline >4m is observed in 4% of wells and 1% of the area during the period.

The water level rise has been recorded in 35% of wells monitored and covering 33% area of the State. The water levels rise has been observed in Pathankot, Gurdaspur, Amritsar, Hoshiarpur, Jalandhar, Moga, Bathinda, Mansa and Muktsar districts. Water level rise in the range of decline 0-2 m is observed in 29% wells and 27% of area. Water level rise 2-4m is observed in 3% wells and 4% of area. The water level rise of >4m is observed in 3% of wells and 21% of the area during the period.

Water Level Fluctuation Range		Wells Monitored		Area Covered	
		No.	%age	Sq. Km.	%age
Decline	0-2	92	49	28951	57
	2-4	22	12	3984	8
	>4.0	7	4	660	1
Rise	0-2	55	29	13674	27
	2-4	5	3	1992	4
	>4.0	6	3	1210	2
Total		187	100	50471	100

Fig:-11



3.4.3 November 2015 - November 2016

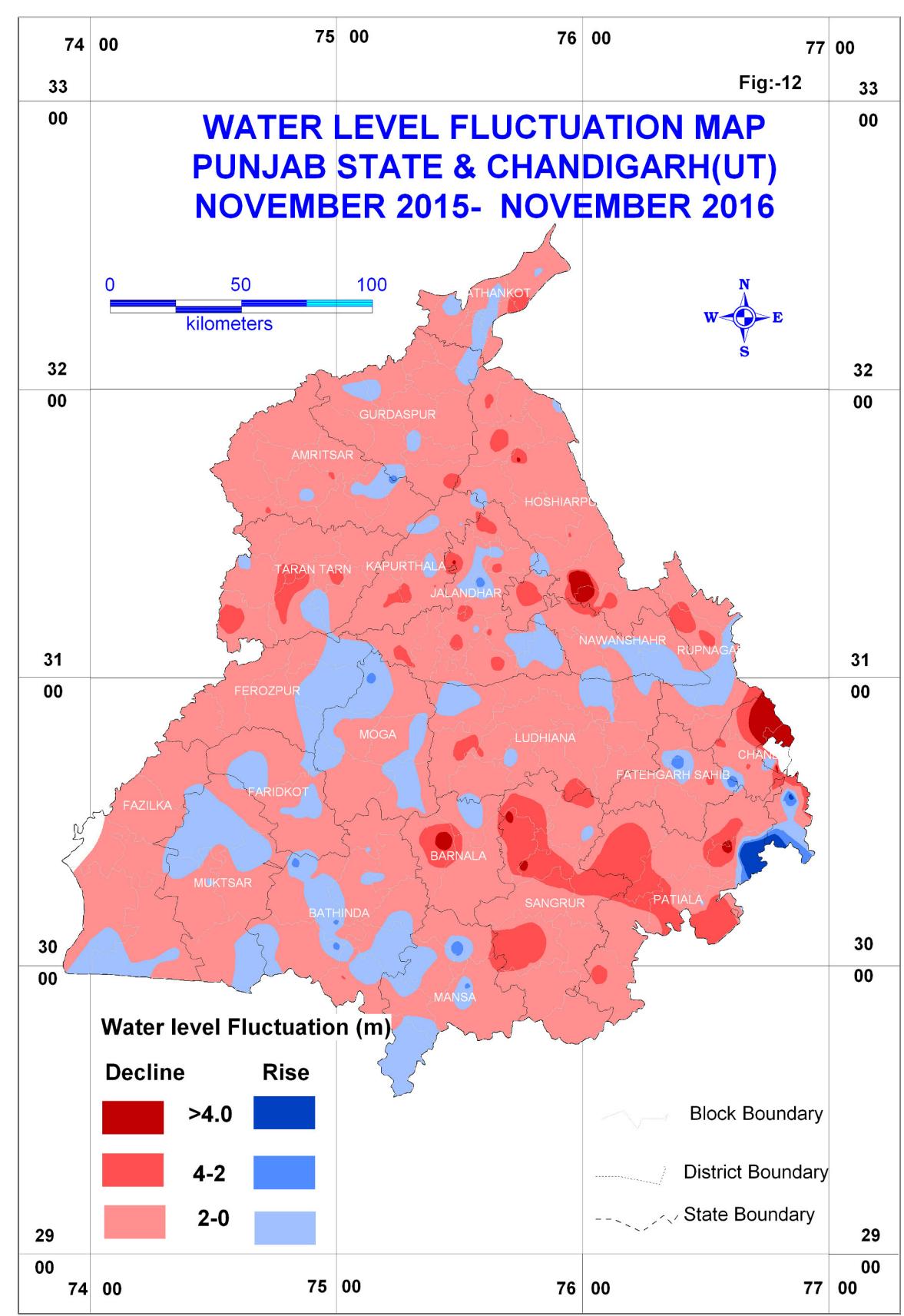
The behavioral pattern of annual fluctuations Post-Monsoon season is discussed in the following paragraph along with fluctuation map (**Fig. 12**). Water level fluctuations data are given in the Annexure-III (Col-6).

The annual fluctuation depicts general decline of water levels in 81% of wells monitored and covering 84% area of the State. The decline has been observed in all districts except few patches in Fazilka, Muktsar, Bathinda and Mansa districts in south-western parts of the state. Water level decline in the range of 0-2 m is observed in 68% of wells and 75% of the area. Water level decline in the range of 2-4 m is observed in 11% of wells and 8% of the area whereas, water level decline >4m is observed in 2% of wells and 1% of the area during the period.

The water level rise has been recorded in 19% of wells monitored and covering 16% area of the State. The water levels rise has been observed in Fazilka, Muktsar, Bathinda and Mansa districts in south-western parts of the state. Rise in water level is also observed in isolated patches in other districts of the state. Water level rise in the range of decline 0-2 m is observed in 17% wells and 16% of area. Water level rise of 2-4m is observed in 2% wells and <1% of area. The water level rise of >4m is not observed during the period.

Water Level Fluctuation Range		Wells Monitored		Area Covered	
		No.	%age	Sq. Km.	%age
Decline	0-2	396	68	37771	75
	2-4	65	11	3888	8
	>4.0	11	2	451	1
Rise	0-2	99	17	7998	16
	2-4	11	2	214	0
	>4.0	2	0	154	0
Total		584	100	50476	100

Fig:-12



3.4.4 January 2016 - January 2017

The behavioral pattern of annual fluctuations is discussed in the following paragraph along with fluctuation map (**Fig. 13**). Water level fluctuations data are given in the Annexure-III (Col-7).

The annual fluctuation shows that there is a general decline of water levels in 86% of wells monitored and covering 90% area of the State. The decline has been observed in all districts in the state. Water level decline in the range of 0-2 m is observed in 75% of wells and 82% of the area. Water level decline in the range of 2-4 m is observed in 10% of wells and 8% of the area. The water level decline of >4m is observed in 1% of wells and 1% of the area during the period.

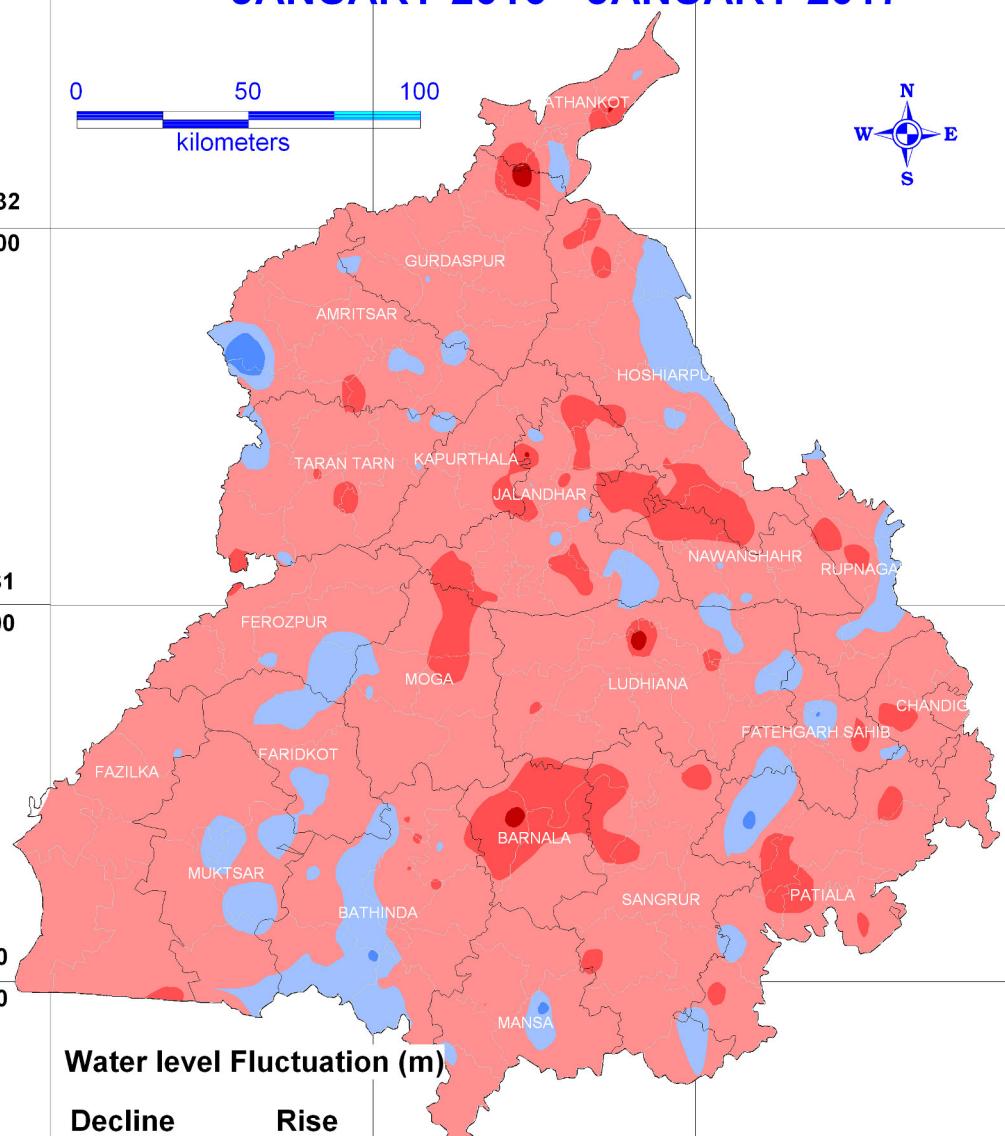
The water level rise has been recorded in 14% of wells monitored and covering 10% area of the State. The water levels rise has been observed in parts of Ferozpur, Muktsar, and Bathinda south western parts of the state. Rise in water level is also observed in isolated patches in other districts of the state. Water level rise in the range of decline 0-2 m is observed in 12% wells and 9% of area. Water level rise 2-4m is observed in 1% wells and <1% of area. The water level decline of >4m is observed at few locations only affecting negligible area during the period.

water level fluctuation range		Wells monitored		Area covered	
		No.	%age	Sq. Km.	%age
Decline	0-2	435	75	41244	82
	2-4	57	10	3851	8
	>4.0	7	1	229	0
Rise	0-2	71	12	4674	9
	2-4	5	1	246	1
	>4.0	2	0	232	0
Total		577	99	50476	100

Fig:-13

WATER LEVEL FLUCTUATION MAP PUNJAB STATE & CHANDIGARH(UT) JANUARY 2016- JANUARY 2017

0 50 100
kilometers



Water level Fluctuation (m)

Decline Rise

>4.0 Blue

4-2 Blue

2-0 Blue

Block Boundary

District Boundary

State Boundary

3.5 DECADAL MEAN WATER LEVEL FLUCTUATION

Changes in water level behaviour since last one decade are determined using decadal mean data. Water level mean of past one decade for each ground water observation well is computed and compared with the respective water level data of the given monitoring to determine the decadal mean water level fluctuation.

3.5.1 Mean of May (2006:2015) & May 2016

The behavioral pattern of decadal mean fluctuations during of aforesaid period is discussed in the following paragraph along with fluctuation map (**Fig. 14**). Water level fluctuations data are given in the Annexure-IV (Col-4).

The decadal mean fluctuations show that decline in 79% of observation wells monitored covering about 82% area of the state. The decline has been observed in south and central parts of the state covering the parts of Amritsar, Tarntaran, Kapurthala, Jalandhar, Ludhiana, Fatehgarh Sahib, Moga, Barnala, Sangrur, Patiala and Mansa districts. The decline of 0-2 m has been observed in about 55% of wells and 55% of area. Water level decline of 2-4 m is observed in 17% of the wells and 21% of the area. Water level decline of >4m is observed in about 7% of the wells and 6% of area.

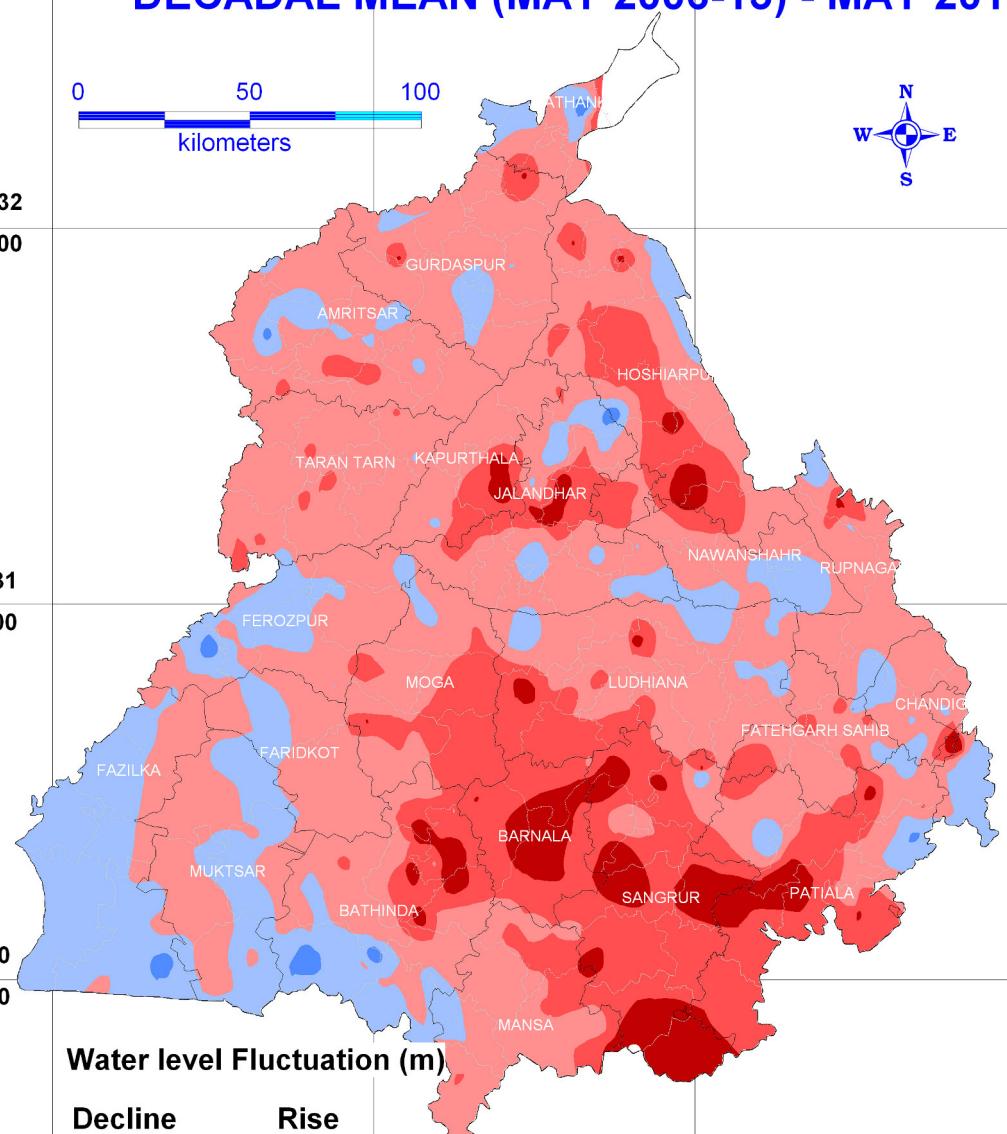
Rise in water level has also been observed in 21% of wells and 18% of area in Ferozpur, Fazilka, Muktsar, Bathinda and Faridkot districts. Rise in water level is also observed in isolated patches in Pathankot, Gurdaspur, Amritsar, Tarntaran, Hoshiarpur, Nawanshahr, Jalandhar, Ropar and SAS Nagar districts in north and north eastern parts. Water level rise in the range of 0-2 m is observed in 18% of wells and 17% of the area. Water level rise of 2-4m is observed in 3%of wells and 1% of the area. Water level rise of >4m is not observed in area.

Water Level Fluctuation Range		Wells Monitored		Area Covered	
		No.	%age	Sq. Km.	%age
Decline	0-2	342	55	27731	55
	2-4	108	17	10796	21
	>4.0	45	7	3072	6
Rise	0-2	115	18	8608	17
	2-4	13	3	269	1
	>4.0	0	0	0	0
Total		623	100	50476	100

Fig:-14

WATER LEVEL FLUCTUATION MAP PUNJAB STATE & CHANDIGARH(UT) DECadal Mean (MAY 2006-15) - MAY 2016

0 50 100
kilometers



Water level Fluctuation (m)

Decline	Rise
Red	>4.0
Orange	4-2
Light Red	2-0

Block Boundary

District Boundary

State Boundary

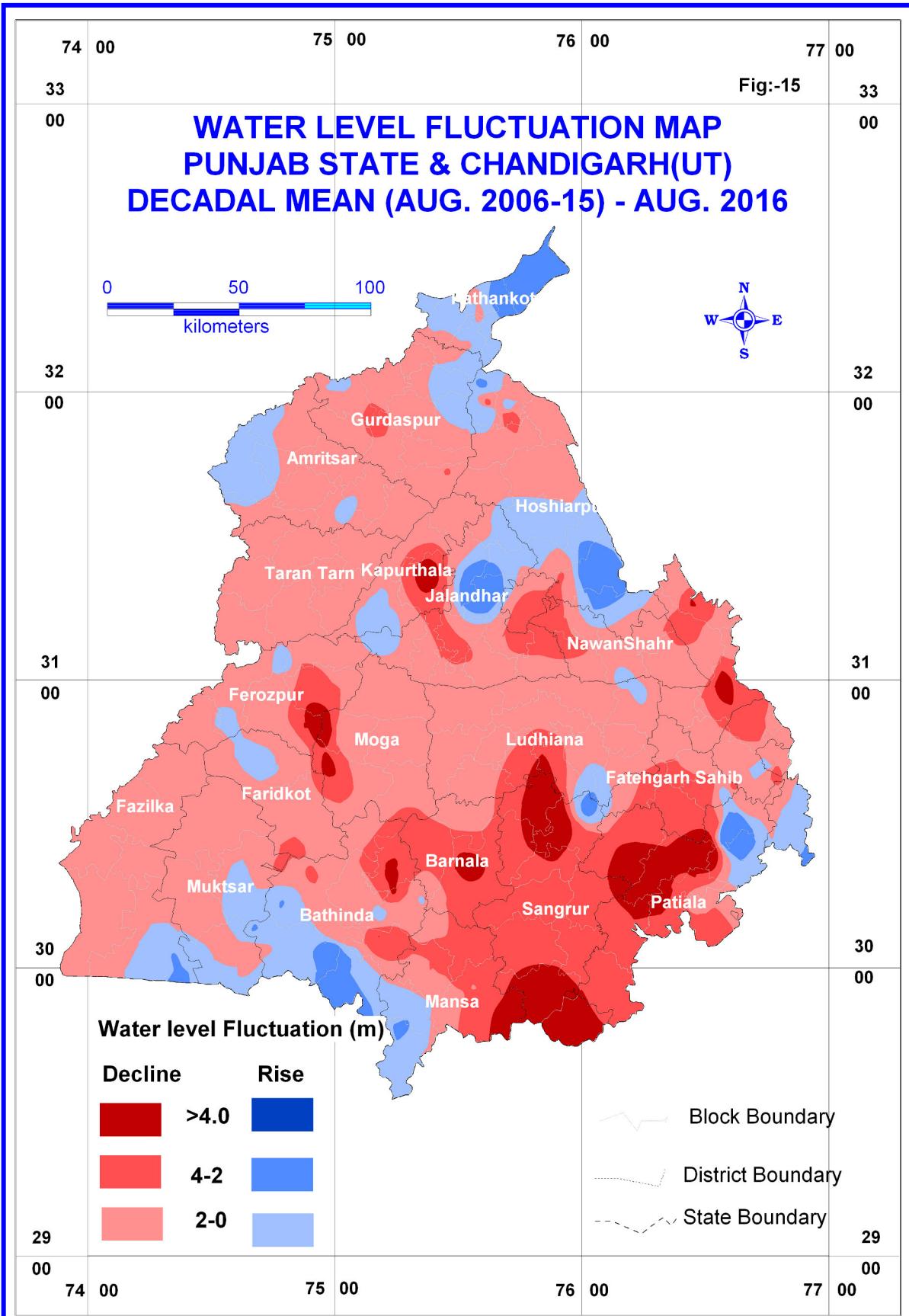
3.5.2 Mean of August (2006:2015) & August 2016

The behavioral pattern of decadal mean fluctuations of aforesaid period is discussed in the following paragraph along with fluctuation map (**Fig. 15**). Water level fluctuations data are given in the Annexure-IV (Col-5).

The decadal mean fluctuations show that decline in 75% of observation wells monitored covering about 81% area of the state. The decline has been observed in all districts of the state. The decline of 0-2 m has been observed in about 49% of wells and 55% of area. Water level decline of 2-4 m is observed in 17% of the wells and 20% of the area covering the parts of Hoshiarpur, Kapurthala, Jalandhar, Ludhiana, Fatehgarh Sahib, SAS Nagar, Chandigarh, Moga, Barnala, Sangrur and Patiala districts. Water level decline of >4m is observed in about 9% of the wells and 6% of area in isolated patches. The south central parts of the state are worst affected by the water level decline.

Rise in water level has also been observed in 25% of wells and 19% of area in isolated patches Gurdaspur, Pathankot, Hoshiarpur, Ropar and SAS Nagar districts in north and north eastern parts. Rise in water level is also observed in Ferozpur, Fazilka, Muktsar, Bathinda and Faridkot districts. Water level rise in the range of 0-2 m is observed in 18% of wells and 15% of the area. Water level rise of 2-4m is observed in 5%of wells and 3% of the area. Water level rise of >4m is observed in about 2% of the wells and 1% of area. Summarized details of seasonal water level fluctuation in different ranges are given in table below.

water level fluctuation range	Wells monitored		Area covered		
	No.	%age	Sq. Km.	%age	
Decline	0-2	115	49	27836	55
	2-4	39	17	10191	20
	>4.0	22	9	2885	6
Rise	0-2	42	18	7603	15
	2-4	12	5	1572	3
	>4.0	5	2	389	1
Total		235	100	50476	100



3.5.3 Decadal Mean November (2006:2015) & November 2016

The behavioral pattern of decadal mean fluctuations of aforesaid period is discussed in the following paragraph along with fluctuation map (**Fig. 15**). Water level fluctuations data are given in the Annexure-IV (Col-6).

The decadal mean fluctuations show that shows decline in 85% of observation wells monitored covering about 90% area of the state. The decline has been observed in all districts of the state. The water level decline in range of 0-2m has been observed in about 58% of wells and 58% of area. Water level decline in range of 2-4m is observed in 19% of the wells and 23% of the area in parts of Jalandhar, Hoshiarpur, Ludhiana, Moga, Barnala, Bathinda, Sangrur, Patiala and Fatehgarh Sahib districts. Water level decline of >4m is observed in about 8% of the wells and 9% of area in parts of Ludhiana, Moga, Barnala, Bathinda, Sangrur, Patiala and Fatehgarh Sahib districts.

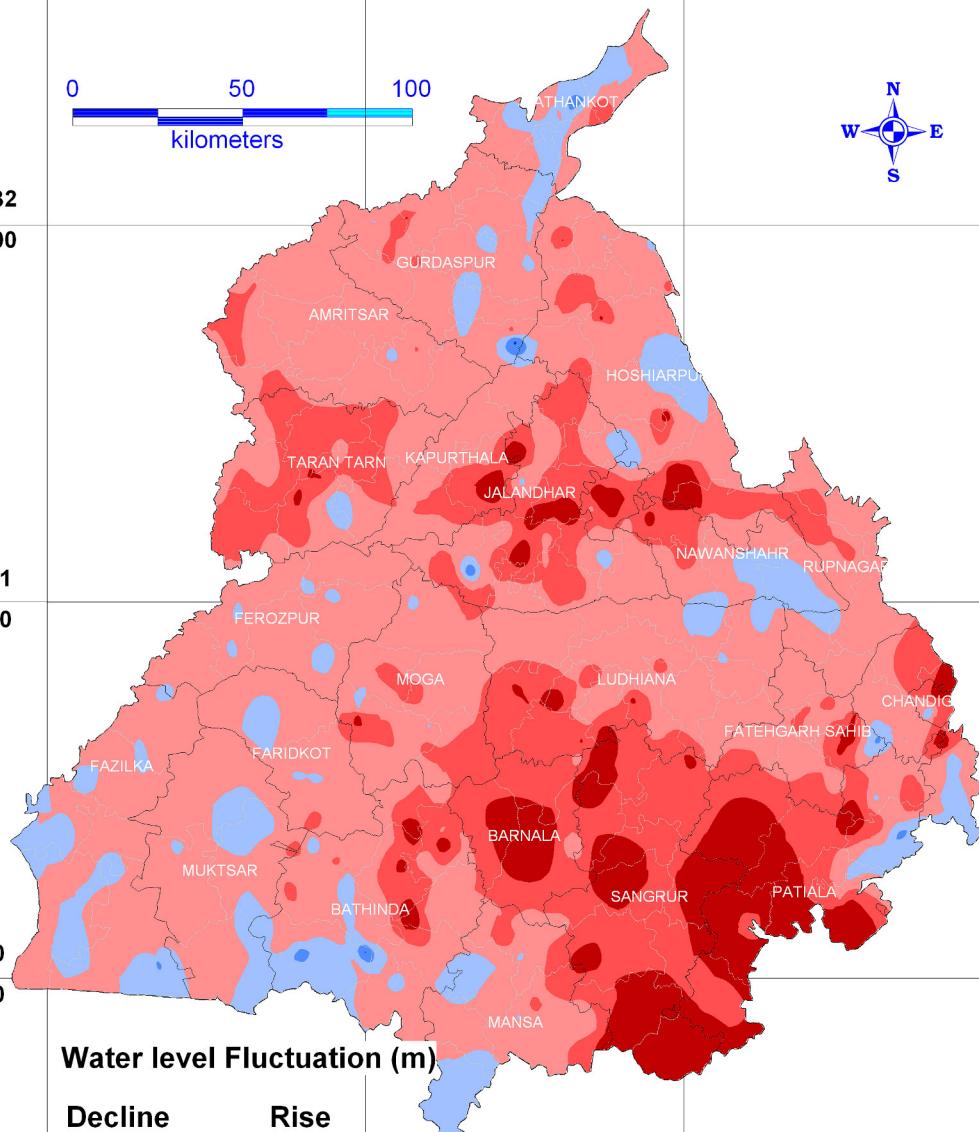
Rise in water level has also been observed in 15% of wells and 10% of area in Pathankot, Gurdaspur, Amritsar, Tarn Taran districts in north. Rise in water level is also observed in Ferozpur, Fazilka, Faridkot, Muktsar, Bathinda and Mansa districts. Water level rise in the range of 0-2 m is observed in 13% of wells and 10% of the area. Water level rise of 2-4m is observed in 1% of wells and <1% of the area. Water level rise of >4m is not observed during the period.

Water Level Fluctuation Range		Wells Monitored		Area Covered		Remarks
		No.	%age	Sq. Km.	%age	
Decline	0-2	397	58	29366	58	
	2-4	126	19	11613	23	
	>4.0	57	8	4356	9	
Rise	0-2	91	14	4998	10	
	2-4	6	1	143	0	
	>4.0	2	0	0	0	
		679	100	50476	100	

Fig:-16

**WATER LEVEL FLUCTUATION MAP
PUNJAB STATE & CHANDIGARH(UT)
DECadal Mean (Nov. 2006-15) - Nov. 2016**

0 50 100
kilometers



Water level Fluctuation (m)

Decline	Rise
Dark Red	>4.0
Red	4-2
Light Red	2-0

Block Boundary

District Boundary

State Boundary

3.4.4 Decadal Mean of January (2007:2016) & January 2017

The behavioral pattern of decadal mean fluctuations of aforesaid period is discussed in the following paragraph along with fluctuation map (**Fig. 17**). Water level fluctuations data are given in the Annexure-IV (Col-7).

The decadal mean fluctuations show that decline in 90% of observation wells monitored covering about 91% area of the state. The decline has been observed in all districts in the state. The decline of 0-2 m has been observed in about 60% of wells and 58% of area. Water level decline of 2-4 m is observed in 23% of the wells and 26% of the area. Water level decline of >4m is observed in about 7% of the wells and 7% of area.

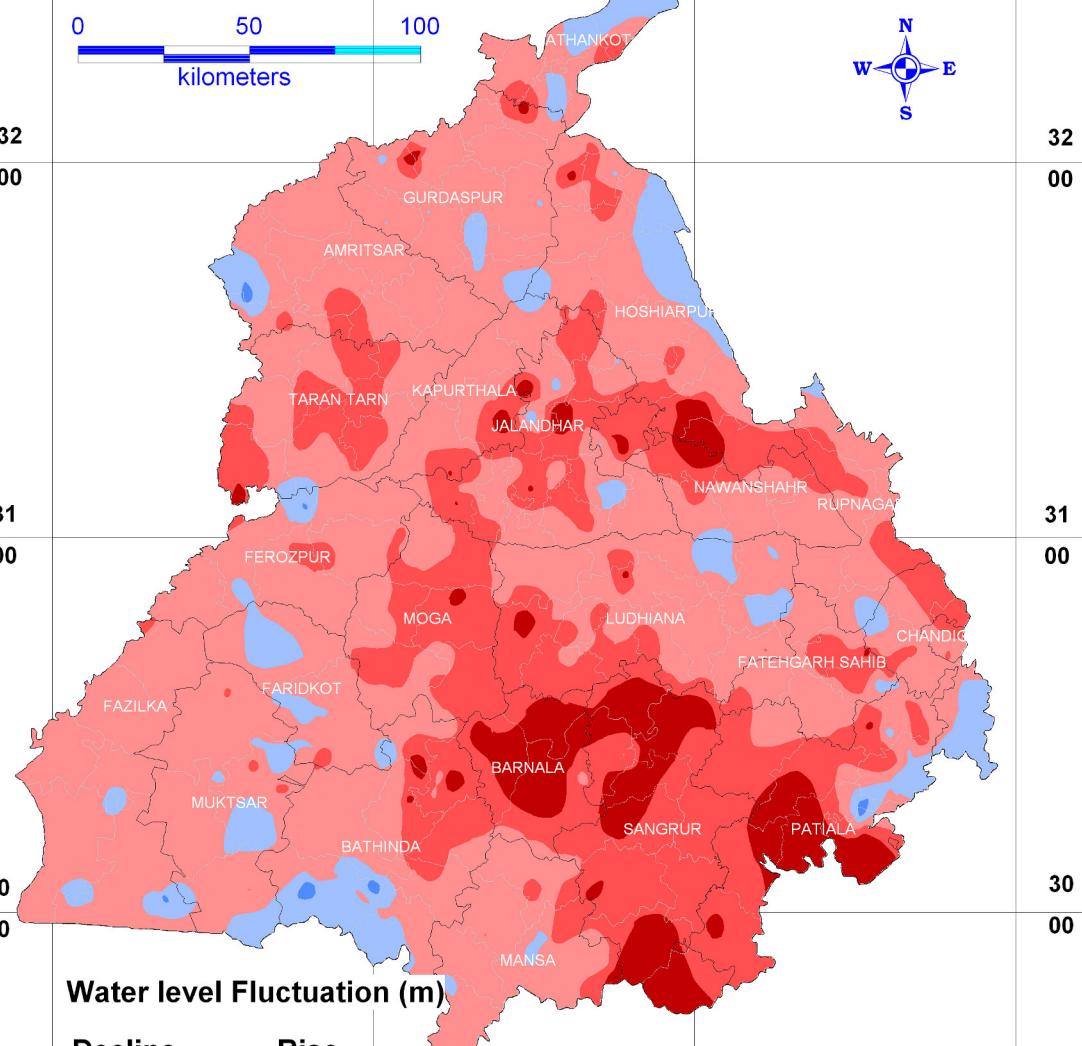
Rise in water level has also been observed in 10% of wells and 9% of area in Pathankot, Gurdaspur, Amritsar, Tarntaran, Kapurthala, Hoshiarpur, Nawanshahr, Ropar and SAS Nagar districts in north and north eastern parts. Rise in water level is also observed in Ferozpur, Fazilka, Muktsar, Bathinda and Faridkot districts. Water level rise in the range of 0-2 m is observed in 9% of wells and 8% of the area. Water level rise of 2-4m is observed in 1%of wells and 1% of the area. Water level rise of >4m is not observed during the period in the area.

Water Level Fluctuation Range		Wells Monitored		Area Covered	
		No.	%age	Sq. Km.	%age
Decline	0-2	399	60	29349	58
	2-4	153	23	13116	26
	>4.0	44	7	3483	7
Rise	0-2	66	9	4145	8
	2-4	6	1	209	1
	>4.0	2	0	174	0
Total		670	100	50476	100

Fig:-17

**WATER LEVEL FLUCTUATION MAP
PUNJAB STATE & CHANDIGARH(UT)
DECadal Mean (Jan. 2007-16) -Jan. 2017**

0 50 100
kilometers



Water level Fluctuation (m)

Decline	Rise
Red	Blue
>4.0	
4-2	
2-0	

Block Boundary

District Boundary

State Boundary

Annexure-1

Sr. No.	District	Location	Depth to water level (m)			
			May 2016	August 2016	November 2016	January 2017
1	Chandigarh	Burail	2.72	2.66	2.82	
2		Csio-S				22.05
3		Csio-Combined	20.32	20.32		
4		Maloya	9.50	11.07	10.13	
5		New Indust Area	23.64	23.44	23.68	23.40
6		Sec-27, Ar Well				41.01
7		Sect 10c (D)	28.75	29.01	28.85	28.38
8		Sect 10c (S)	14.88	16.22		17.20
9		Sect 31d (D)	15.52	22.06	19.12	19.02
10		Sect 31d (S)	11.64	11.33	9.15	11.48
11		Sect 37d (S)	5.10	4.46	5.06	4.89
12		Sect 39d (S)	5.85	5.75	6.24	5.85
13		Sect 44d (S)	3.49	3.03		3.95
14		Sector 52- Pz		12.10		
15		Sector-46 (Shallow)	7.68	7.13	5.52	7.18
16	Amritsar & Tarntaran	Aima Khurd-Pz	14.20		14.60	14.00
17		Ajnala	11.20	11.93	12.22	11.90
18		Amritsar1	27.06	25.04	25.25	25.72
19		Attari-Pz	17.70		18.20	17.60
20		Bakipur-Pz	21.80		22.50	21.60
21		Bal Kalan-Pz	17.20		18.80	18.00
22		Bath-Pz	20.50		21.70	20.50
23		Beas07	14.67	14.47	14.60	14.50
24		Bhagala-Pz	11.40			12.70
25		Bhagwanpur-Pz	15.80		17.50	16.80
26		Bhalaipur-Pz			21.50	20.30
27		Bhankar Kalan-Pz	16.80		17.80	16.90
28		Bhattaywad-Pz	13.20		14.30	13.60
29		Bhikiwind- Pz	16.51	16.75	16.18	15.80
30		Bhura-Pz	14.90		16.60	15.80
31		Bhure-Pz	17.90		19.50	18.40
32		Bhusse-Pz	16.40		17.10	16.00
33		Boparai Khurd-Pz	16.10		16.90	16.10
34		Brahmpur-Pz	19.20		20.30	19.70
35		Chak Dogra-Pz	10.20		11.50	11.10
36		Chakkare Khan-Pz	19.80		20.20	19.10
37		Chogwan- Pz	8.07	11.29	10.19	9.75
38		Chola Sahib-Pz	17.75	19.29	18.30	18.05
39		Choudhary Wala-Pz	19.20		20.60	19.80
40		Chuselawad-Pz	19.70		22.20	21.10
41		Dholan-Pz	8.00		8.90	8.60
42		Dhulika-Pz	16.60		16.70	16.00
43		Dohan-Pz	18.70		19.40	19.20
44		Ekalgoda-Pz	23.40		24.60	23.70

45		Fatehabad- Pz	19.40		20.70	19.50
46		Gago Mahal- Pz	5.85	6.39	5.95	6.08
47		Gandi Wind-Pz	11.58	12.75	12.62	11.93
48		Gill Wali-Pz	20.30		21.20	20.80
49		Goindwal 07	19.96	20.27	20.01	19.65
50		Jalalabad-Pz			16.50	15.60
51		Jandiala Guru-Pz	19.27	19.49	19.43	18.85
52		Jandoke-Pz	19.30		21.50	21.00
53		Jasrur-Pz	8.90		10.10	9.50
54		Jethuwal-Pz	14.90		16.80	16.10
55		Kairon-Pz	16.70		17.70	17.00
56		Kalsia Kalan07	16.64	18.17	17.96	15.05
57		Kandowali-Pz	13.20		14.70	14.20
58		Karyl-Pz	8.90		9.70	9.00
59		Khadur Sahib-Pz	18.81	20.20	19.69	19.08
60		Khalra-Pz	13.40		14.20	13.50
61		Khilchian-Pz	15.80		16.70	16.30
62		Kotbudda-Pz	13.10		13.50	12.40
63		Kotli Sur Singh-Pz	17.00		18.10	17.70
64		Mahendipur-Pz	18.30		19.10	20.30
65		Mahima-Pz				19.50
66		Majitha- Pz	12.80		14.10	13.60
67		Makhan Windi-Pz	18.90		19.30	18.60
68		Marhona-Pz	19.00			19.90
69		Mari Kamboke-Pz	10.00		10.80	10.40
70		Mehleykey-Pz	8.20		9.00	8.60
71		Mehta			12.30	11.80
72		Mehta-Pz	14.20		14.50	14.10
73		Miran Chak-Pz	17.20		17.70	17.10
74		Mohawa	13.26	14.80	14.01	13.57
75		Nangal Sahaul-Pz	5.80		6.40	5.70
76		Nawan Tanal- Pz	11.25	11.95	12.60	11.00
77		Pakhpura-Pz	8.40		9.20	8.70
78		Pindan-Pz	17.10		17.60	17.20
79		Rajoke-Pz	7.90		8.90	
80		Ramdas-Dw	8.25	8.57		8.60
81		Rampura-Pz	13.10		14.00	13.20
82		Ratoke-Pz	19.35	23.25	21.34	20.11
83		Rupowal Brahmana-Pz	14.10		14.30	14.10
84		Sabran-Pz	21.60		23.10	
85		Sahab Pura- Pz	19.28	20.99	20.34	20.45
86		Sathiala-Pz	15.70		16.50	16.10
87		Shabura-Pz	11.80		12.80	16.18
88		Sham Nagar-Pz	7.90		8.80	8.20
89		Sheron-Pz	19.10		20.90	20.50
90		Sugga-Pz	18.80		20.10	19.50

91		Talwandi Dogra-Pz	20.00		20.30	19.70
92		Tarsika-Pz	16.30		16.60	16.20
93		Thatha- Pz	18.80		17.50	21.30
94		Ugar Aulakh-Pz	14.00		14.50	13.90
95		Vadala Kalan-Pz	15.50		16.30	15.60
96		Valtoha	14.95			15.50
97		Wandala Bittewad-Pz	15.90		16.70	15.60
98	Bathinda	Ablu	13.10	14.32	14.17	13.59
99		Aleke Jalal-Pz	24.25		27.73	25.94
100		Badiala-Pz	27.07	27.90	28.85	28.25
101		Bagher Mohabat Singh-Pz	8.70		9.20	8.72
102		Bahman Kaur Singh-Pz	9.55		9.80	9.60
103		Balianwali-Pz	22.84		25.67	24.01
104		Balluana1	5.09			5.00
105		Balluana-Pz	6.43	4.52	7.55	6.89
106		Banbhiha-Pz	4.81			
107		Bhagibandar	8.41	6.48	8.53	8.47
108		Bugran-Pz	26.85		29.45	28.91
109		Burj Gill-Pz	23.80		25.94	24.75
110		Burj-Pz	9.30		9.95	9.60
111		Deratapp	6.53	6.33	4.93	
112		Dhapali1	21.53	20.98	24.03	23.16
113		Dhapali-Pz		24.85	24.35	24.18
114		Dialpur Mirza	23.77	23.40	27.13	25.96
115		Dialpura Bhlaike	24.86	24.01	27.22	26.16
116		Dulle Wala-Pz	28.61		31.43	29.70
117		Ganga-Pz	14.50	16.12	14.75	15.00
118		Ghudda-Pz	9.70		10.46	9.63
119		Gill Patti-Dw			10.15	9.54
120		Gulabgarh 1 (Vs)	13.45			13.17
121		Gulabgarh 2 (S)			13.14	
122		Guru Sar-Pz	9.07	8.70	9.19	8.93
123		Harraipur-Pz	16.99		17.81	16.65
124		Jajjal	7.75	5.40	8.40	6.85
125		Jajjal_Dw			7.20	8.10
126		Jassi Bhagwali	5.68		6.37	5.84
127		Jassi Paowali-Pz	7.71		7.64	7.38
128		Jhanduke	22.34		24.52	21.77
129		Jhanduke-Pz	19.94	21.87	23.73	21.51
130		Kahan Singh Wala-Dw			19.43	18.02
131		Kalla Bandar	4.84	4.40	4.55	5.47
132		Kalyan Sukha-Pz	22.10		24.43	23.54
133		Koir Singh Wala-Pz	22.84		24.05	23.41
134		Kot Bhaktu-Pz	5.30		5.75	5.40
135		Kot Fatta-Dw			13.10	12.80
136		Kot Guru			6.31	6.06

137		Kot Shamir	13.56	15.46	14.28	13.76
138		Kothaguru-Pz	22.55	22.70	24.40	23.69
139		Lalliana-Pz	6.60		7.10	6.80
140		Lehra Dhulkot-Pz	21.28		24.16	22.80
141		Maihma Bhagwan-Pz	10.78		11.72	10.78
142		Maisar Khana	13.96	16.34	14.81	14.38
143		Maisar Khana-Pz	13.65		14.80	14.20
144		Maluka-Pz	19.81		22.03	19.31
145		Mandi Kalan-Pz	24.10		26.43	25.46
146		Mehraj-Pz	19.84		20.81	20.52
147		Mehta-Pz	6.72		7.11	6.43
148		Multania-Pz	6.99		7.51	6.84
149		Nahinwala	11.44	11.10	11.50	
150		Nathana-Pz	18.72		23.00	19.56
151		Nathena-Pz	5.55		6.10	5.70
152		Pathrala-Pz	6.72		6.87	6.63
153		Phul	24.15	22.95		
154		Phulla		15.80		
155		Phulla1	17.18		19.19	18.53
156		Puhla-Pz				20.54
157		Raike Kalan	2.01	1.86	2.06	
158		Rajgarh Kubey-Pz	7.70		9.65	9.10
159		Rampura	25.33	22.70		
160		Rayya-Pz	24.75		27.10	26.46
161		Salabatpur-Pz	28.97		31.00	29.85
162		Sangat -Pz	6.57	6.35		7.76
163		Seema-Dw			18.93	16.65
164		Sidhana			24.40	20.24
165		Sooch-Pz	18.94		20.94	20.26
166		Teona-Pz			5.46	5.26
167		Tungwali-Pz	15.86		16.45	15.40
168		Aryan Wala-Pz	1.50	1.70	1.32	1.40
169		Baja Khana	5.50	18.24	18.70	17.75
170		Bead Sikhanwala- Pz	9.10	9.99	8.95	9.06
171		Behabal Kalan-Pz	10.80		12.30	11.80
172		Bir Nathuwala-Pz	5.70	6.40		6.30
173		Chahd Baja	15.80	16.77	16.82	15.90
174		Chak Kalan-Pz	2.70		2.00	2.25
175		Deviwala Ii-Pz	6.65	8.10	7.38	7.22
176		Deviwala I-Pz	6.65			6.07
177		Deviwala-Pz	7.60	8.05	6.70	6.66
178		Dhaipai-Pz			7.20	7.40
179		Dhilwan Kalan	7.67	9.00	9.20	8.70
180		Dhudi-Pz	12.73		13.10	12.30
181		Dipsinghwala	4.72	4.73	4.09	3.40
182		Faridkot-Pz			4.35	3.95

183		Fatehgarh-Pz	15.90		17.70	17.10
184		Ghuiana-Pz	4.78		5.50	4.55
185		Jand Sahib-Pz	4.60	4.87	4.10	4.05
186		Karirwali	10.80	12.47	11.82	11.90
187		Killi-Pz	5.02	5.11	4.34	4.15
188		Koharwala- Dw			6.80	6.95
189		Kot Kapura	7.22	7.72	7.75	7.57
190		Matta	8.05	9.05	8.17	7.90
191		Mehmuana	1.80	1.25	0.80	1.01
192		Mumra-Pz	5.80	7.25	6.20	6.10
193		Nangal-Pz	8.53	15.13	7.65	7.60
194	Bathinda	Nawan Killa-Pz	1.50			
195		Pahluwala-Pz	4.35		4.90	4.05
196		Ratti Rori-Pz	1.40		1.00	1.80
197		Rorian Kapura-Pz	9.20		9.90	9.20
198		Sadiq-Pz	5.50	5.62	5.30	5.27
199		Sandhwan-Pz			7.65	6.00
200		Sher Singh Wala- Pz	3.31	4.08	3.23	3.28
201		Sukhwala-Pz	2.90	3.40	2.75	2.91
202		Tehna-Pz	9.12	8.50	9.05	9.10
203		Wara Dwarka-Pz	3.42	3.47	3.50	3.47
204		Alipur Sodhian-Pz	17.60		17.95	17.90
205		Badalialasingh	32.72	39.03	38.29	37.53
206		Bagga Kalan	24.25		24.50	24.75
207		Bassi Pathana	18.10	19.40	19.45	19.20
208		Bhagranा	4.78	4.70	3.83	4.43
209		Bhateri1	30.92		33.01	32.90
210		Burj	17.45		17.85	17.85
211		Chandiala-Pz	18.75		19.30	19.30
212		Chuni Khurd-Pz			17.50	17.85
213		Chunni Kalan	14.10	16.14	15.80	15.60
214		Fatehgarh Sahib			19.60	22.05
215		Fatehgarh Sahib-Pz	21.31	20.90	21.38	20.10
216		Jai Singh Wala	17.05		17.50	17.55
217		Jhambela	21.60		21.88	20.05
218		Khamanon-Pz	19.50		19.85	19.80
219		Khara	24.83		25.15	25.80
220		Lohar Majra	20.90		21.05	21.10
221		Mianpur-Pz	19.65		19.95	20.60
222		Nalini-Pz	20.15	22.63	22.49	21.25
223		Nandpur Kalaur-Pz	29.90		30.35	30.95
224		Pawala	13.44	13.20	9.35	14.70
225		Sado Majra	18.00		18.32	18.35
226		Shahpur	23.05		23.30	23.25
227		Sirhind-Pz	21.20		21.55	21.45
228		Tahalpur	22.80		23.12	23.80

229		Talwara	19.70		20.00	20.00
230		Timber Pur-Pz	23.85		24.02	23.90
231	Firozpur & Fazilka	Abohar	1.96	2.71	2.36	2.31
232		Alamgarh	1.13	2.14	1.89	1.49
233		Asifwala-Pz			6.18	6.12
234		Baman Wali-Pz			11.78	11.72
235		Bannawala	2.36	3.00		2.37
236		Bara Mansur Wala-Pz	26.20		27.86	27.76
237		Bazirdpura	7.97	7.80	7.90	10.40
238		Chak Kandhe Shah-Pz	10.30		11.42	11.30
239		Chak Khere Wala-Pz			7.48	7.40
240		Chak Pune Wala-Pz			11.89	11.82
241		Chamb-Pz	17.80		18.99	18.90
242		Danewal Satkosi	2.78	4.51	4.40	4.69
243		Danger Khera-Pz			3.24	3.22
244		Dipulana-Pz	5.55	6.57	6.08	5.86
245		Dulchi Ke-Pz	7.90		8.44	8.33
246		Fattu Wala-Pz			20.99	20.85
247		Fazilka-Pz			9.55	9.20
248		Ghananga Kalan-Pz	3.85		4.25	4.20
249		Giddran Wali-Pz				4.20
250		Godiwala-Pz			4.50	4.46
251		Gogiani-Pz	18.45		19.06	18.98
252		Guru Harsahai-Pz	6.00		6.60	6.50
253		Hamed Saidoke-Pz			15.25	15.19
254		Himmatpura-Pz	5.15		5.80	5.65
255		Jaimal Singhwala Pz	9.04	9.30	9.39	9.42
256		Jaimal Wala-Pz			9.54	9.49
257		Jand Wala Johian-Pz			5.07	5.04
258		Jandwala Watan-Pz	2.85		3.15	3.09
259		Jang-Pz	7.50		9.55	9.40
260		Kaler Khera-Pz			4.96	4.92
261		Kandh Wala-Pz			3.48	3.45
262		Kathgarh-Pz			14.75	14.68
263		Khere Ki Uttar-Pz	15.80		17.58	17.35
264		Khuiansarwar- Pz	1.10	1.93	0.62	1.45
265		Kundal1	0.58	1.36	0.98	1.08
266		Ladhuwala	1.75	0.60	1.30	1.77
267		Lauhke Kalan- Pz	16.45	22.55	19.52	19.70
268		Lohere Khurd-Pz	18.70		19.99	19.90
269		Machi Bugra/ Gujran-Pz	12.80		14.02	13.90
270		Mallanwala Khas-Pz	11.40		12.36	12.30
271		Malluwala-Pz	21.30		23.86	23.75
272		Malsian-Pz	10.82	11.76	11.62	11.83
273		Malukpur-Pz	1.80		2.25	2.20
274		Mana Singh Wala-Pz	4.50		5.57	5.48

275		Markhiwa Bhamni-Pz			7.10	
276		Mohkam Khan Wala-Pz	12.70		13.65	13.50
277		Mohre Wala-Pz	6.93	7.99	7.02	6.94
278		Motiwala 07pz	10.95	11.35		
279		Mudki-Pz	10.85		11.75	11.60
280		Muradwala Dal-Pz	1.25		1.95	1.93
281		Nihalkhera	1.34	2.59	2.69	2.82
282		Nure-Ki-Uttar 07pz	15.58	17.27	16.55	16.53
283		Pancha Wali-Pz			10.05	10.00
284		Pattiwalla-Pz			2.88	2.87
285		Piyarana	5.15	5.95	4.77	4.65
286		Rala Hazi- Pz	6.00		7.70	7.50
287		Ramsara-Pz	3.45		4.33	4.20
288		Roran Wala-Pz			4.05	4.00
289		Rukne Wala-Pz	8.00		8.68	5.58
290		Sadhusha Wala-Pz	10.60		13.80	13.60
291		Sham Singhwala-Pz	4.63	4.30	4.23	4.85
292		Shatriwala-Pz			4.25	4.23
293		Sherewala-Pz	8.30		9.05	8.90
294		Singhpura-Pz			3.23	3.19
295		Sitoganno	2.03	2.48	2.18	2.18
296		Sohangarh Ratte	3.72	2.18	1.93	2.03
297		Sultan Khan Wala Urf-Pz	9.40		11.35	11.28
298		Swah Wala- Pz	9.05	10.29	9.75	9.93
299		Talwandi Jalle Khan-Pz	26.70		28.97	28.85
300		Tibbi Kalan-Pz	6.60		10.99	10.80
301		Tibbi Taiwan Laluwalla-Pz	3.60		4.24	4.20
302		Wage Wala-Pz	9.90		10.55	10.40
303	Gurdaspur & Pathankot	Aulakhkalan	20.41			
304		Bamyal		3.68	4.50	4.85
305		Bariyar	9.80		9.80	9.60
306		Bhagowal	7.93	8.88	8.90	7.89
307		Bham	14.27	15.32	14.62	14.62
308		Bhoa	4.74	1.56	4.12	4.19
309		Bilasbal-Pz	17.20		17.10	16.90
310		Chahal Kalan-Pz	8.60		8.65	8.40
311		Chahgill-Pz	8.30		8.20	8.10
312		Chone-Pz	10.40		10.45	10.40
313		Dakoha-Pz	13.63	15.60	14.81	14.53
314		Dera Baba Nanak	5.99	5.89	6.33	6.72
315		Dhar Khurd			2.50	2.60
316		Dhianpur	15.56		15.62	
317		Dinanagar	6.61	3.53	3.88	8.70
318		Dostpur-Pz	5.10		5.20	5.10
319		Gajikort-Pz	5.30		5.30	5.40
320		Galri	5.63	3.58	4.68	

321		Ghania Ki Bangar- Pz	7.70	8.44	8.53	8.32
322		Gharotakalan	10.34	6.65	6.77	6.08
323		Ghoh Dw	11.97	9.30	8.60	9.68
324		Ghumani Khurd-Pz	7.00		7.00	7.05
325		Gurdaspur-Pz	9.00		8.70	
326		Hargobindpur	18.75	19.10	19.00	16.40
327		Hargobindpur1			4.40	4.55
328		Hassanpur Kalan-Pz	10.30		10.35	10.15
329		Jainpur-Pz	3.50		3.70	3.65
330		Jandwala	27.70		29.50	29.80
331		Jhabkra	3.90		4.00	4.10
332		Jhakolahri	2.77	1.56	2.51	2.46
333		Jhandalbana-Pz	3.30		3.30	3.10
334		Kahnuwan	16.20		16.30	16.50
335		Kala Afgana-Pz	8.80			8.80
336		Kalanaur-Dw	12.43	12.61	11.93	13.16
337		Kalanaur-Pz		7.60	8.40	9.50
338		Kaure-Pz	14.90		14.90	15.05
339		Khan Fatta-Pz	6.00		5.95	5.75
340		Khanikhui	2.52	1.51	1.78	
341		Khanmalik-Pz	9.90		9.90	9.80
342		Khatgarh-Pz	4.50		4.50	4.60
343		Khogaki Chaka-Pz	3.65		3.60	3.45
344		Kiari- Dw	3.05	0.88	2.33	4.20
345		Kirian Khurd-Pz	5.90		6.95	7.00
346		Kui-Dw	4.85	3.30	3.19	3.70
347		Kuther-Pz	24.50		25.75	25.80
348		Lakankala-Pz	4.30		4.30	4.30
349		Langurwal-Pz	8.00		7.90	7.85
350		Madipur Fatehgarhchuria	9.87	10.31	10.49	9.81
351		Malikpur			7.00	6.90
352		Malikpur-Pz	8.30		8.45	8.40
353		Mallewal-Pz			6.00	6.10
354		Maman-Pz	7.30		7.30	7.40
355		Masana-Pz	4.50		4.50	4.45
356		Massit-Pz	3.00		2.80	2.90
357		Matti-Pz	25.30		27.60	27.65
358		Mirthal	4.30		4.35	4.45
359		Mirthal-Dw			3.70	
360		Mirza Jaan-Pz			9.10	9.20
361		Mullowali 1(Vs)		4.71	4.68	
362		Mullowali 2(M)		5.69	3.99	3.74
363		Muthi			4.40	4.10
364		Nangal-Pz	3.80		3.50	3.60
365		Narot Jaimalsingh-Pz	4.10		5.00	5.10
366		Nawan Pind	6.30	3.36	5.60	6.06

367		Nishayara	5.32	5.68	5.18	5.27
368		Pandoritalab	3.72	0.64	2.57	3.49
369		Paniar				7.30
370		Parcha-Pz	6.40		6.40	6.50
371		Parmota-Dw	10.20	1.55	6.43	8.47
372		Pathankot1	3.67	2.67	4.25	4.93
373		Patti Atwal-Pz	11.45		11.65	11.65
374		Philora-Pz	4.10		4.15	4.10
375		Phulpiara			4.30	4.40
376		Rajpur	4.30		4.45	4.45
377		Rakawal-Pz	3.70		4.05	3.90
378		Rani Pur-Pz	10.20		10.50	10.60
379		Saidowal Kalan-Dw	4.47	3.20	4.06	3.98
380		Saleh Chak-S	3.25	3.27	3.34	3.45
381		Salehchak(Vs)		3.65	3.82	3.85
382		Sarna	10.94		8.70	9.60
383		Sarna1		7.07		
384		Sathial-Pz	12.40		11.93	11.91
385		Shahpur Jattan-Pz	5.70		5.70	5.80
386		Shahpur-Pz	5.00		4.90	5.00
387		Shezada Kalan-Pz	5.30		5.40	5.50
388		Shikar-Pz	7.75		7.50	7.45
389		Sohal				11.75
390		Sujanpur-Pz	4.80		4.65	4.60
391		Tikriwala-Pz	8.00		7.90	7.80
392	Hoshiarpur	Aallo Batti-Pz	4.90		5.15	5.20
393		Adowal Garhi-Pz	20.49	19.77	20.65	20.33
394		Argowal-Pz	23.10		23.20	23.32
395		Badla-Pz	24.20		24.60	24.62
396		Bagpur-Pz			9.78	9.90
397		Baichan-Pz	21.55		21.85	22.05
398		Bajwara			18.50	
399		Bajwara-Pz	17.22		17.45	17.50
400		Barota-Pz	4.90		5.15	5.15
401		Bersa	16.10		16.45	16.50
402		Bhalowal Gujran-Pz			36.00	36.10
403		Bhamnaur	14.85		15.75	5.17
404		Bhangala-Chhota-Dw	6.96	2.05	5.40	5.67
405		Bhanowal-Pz	14.80		14.90	15.05
406		Bhatolian-Pz	23.00		23.10	23.25
407		Boring-Pz	14.00		14.15	14.20
408		Budhi Pind-Pz	17.45		17.90	18.20
409		Chak Sheru-Dw	4.12	2.40	3.40	3.65
410		Chohal	3.92	3.70	1.87	3.91
411		Dadan-Pz	36.20		36.10	36.10
412		Dagan-Dw	13.52	8.67	12.33	8.36

413		Dallewal-Pz	18.10		18.20	18.35
414		Dasuya2 (S)	8.87		10.35	
415		Durimiwal	5.37	4.50	4.89	5.18
416		Dharampur1				4.30
417		Fattowal-Pz	24.40		24.70	24.82
418		Garh Di Wala-Pz		13.11	15.52	
419		Garhshankar (S)	23.66	19.11	24.30	23.45
420		Grahaya-Pz	23.00		23.15	23.30
421		Haler Rampur-Dw	4.04	4.95		3.82
422		Hazipur	8.87	7.07	7.97	8.58
423		Heer Beh-Pz	24.10		24.10	24.10
424		Ittian-Pz	9.95		10.00	10.00
425		Jahidpur-Pz	10.10		10.20	10.20
426		Jalalpur-Pz	6.70		6.70	
427		Jattpur-Pz	14.50		14.80	14.80
428		Jhir Da Khuh-Dw	6.92	5.25	5.94	6.08
429		Kharkan-Pz	60.40		60.10	60.50
430		Khera-Pz	44.50		44.75	44.80
431		Mahil Baltohian-Pz	35.70		35.85	35.90
432		Mahilpur-Pz	21.59	13.20	21.39	21.75
433		Maranwali-Pz	17.80		18.65	18.85
434		Mianipur-Pz	6.50		6.50	6.55
435		Mukerian Dw		0.33	3.52	
436		Naharpur-Pz	5.00		5.20	5.25
437		Namoli-Pz	27.00		27.00	26.90
438		Nangal Bihala- Dw	11.38	14.22	11.46	13.60
439		Nangal Thathal-Pz	19.40		19.50	19.50
440		Pan Khuh-Dw	7.59	3.19	4.34	6.11
441		Pandori Mehal-Pz	22.55		22.90	23.10
442		Parshote-Pz	23.50		23.70	23.70
443		Phuglana- Pz		27.79	23.93	24.91
444		Rampur Colony (Hsp) Pz-Medium	25.20		23.77	21.68
445		Samraj Tanda-Dw	5.45		4.41	
446		Satnoh-Pz.	38.00		38.30	38.55
447		Sham Chaurasi	9.46	9.65	13.16	13.35
448		Sibo Chak- Dw	9.05	7.90	8.18	8.08
449		Simibli- Ow	17.53	19.20	17.50	16.20
450		Simibli-Pz	16.43	21.43	17.96	17.95
451		Talwara1	11.64	10.98	11.15	11.66
452		Tanda	5.50		5.70	5.68
453		Thakarwala	12.54	12.26	11.05	12.83
454	Jalandhar	Adampur 3(S)	7.25	7.35	7.40	7.63
455		Adarman-Pz	17.75		18.75	17.85
456		Akalpur-Pz	16.65		18.00	17.10
457		Allawalpur	8.75		8.50	8.74
458		Bilga-Pz	19.50		23.10	21.85

459		Billi Chahrami-Pz	32.10		33.60	33.00
460		Chania-Pz	23.65		24.80	22.90
461		Dhanda-Pz	31.60		33.15	32.20
462		Dhirowal-Pz			10.20	9.70
463		Fateh Jalal-Pz	25.00		31.30	29.30
464		Gehlan-Pz	16.10		19.10	18.00
465		Gillian-Pz	32.70		34.50	33.00
466		Gohiran	35.33		33.15	32.08
467		Hardo Pharwal-Pz	26.00		29.10	25.80
468		Hardo Sheikh-Pz	27.90		31.20	30.45
469		Jalandhar 3(Vs)	35.18	21.73	33.62	35.59
470		Jalbhe	11.74			11.94
471		Jandiala-Pz	28.22		31.26	30.56
472		Jandu Singha-Pz	26.70		31.00	29.60
473		Janian-Pz	24.75		29.00	28.40
474		Kakar Kalan-Pz			21.40	19.90
475		Kala-Pz	21.20		24.20	22.20
476		Kalyanpur-Pz	31.65		33.10	32.25
477		Kang Sahib Rai-Pz	30.60		32.00	31.00
478		Kartarpur 2(S)	18.76	19.22	18.64	17.69
479		Kharal Kalan Pz-S	14.49		15.45	14.78
480		Kot Wadal Khan-Pz	21.60		24.30	22.90
481		Kurla-Pz	20.40		23.60	21.80
482		Lallian Kalan Pz-S	34.11		35.36	34.77
483		Mahmuwal-Pz	31.50		33.10	31.90
484		Mehsampur-Pz	19.60		20.70	19.30
485		Nakodar 2(M)	27.33	32.88	34.28	32.25
486		Nangal Shaman	30.75		32.40	31.60
487		Nasirpur-Pz	9.60		10.75	10.00
488		Nussi-Pz	26.50		29.80	28.10
489		Pathial-Pz	15.00		17.10	16.20
490		Pharwala-Pz	21.00		23.80	22.85
491		Phillaur 2(S)		16.92	16.65	16.59
492		Rahimpur-Pz	22.50		27.30	24.80
493		Rurka Kalan- Pz	22.00		23.75	22.80
494	Jalandhar	Samarahi-Pz	18.50		20.10	19.10
495		Shahkot(S)			23.43	28.08
496		Shahkot-Pz-Pb	16.30		18.50	17.90
497		Skarar Pur-Pz	18.80		25.00	23.30
498		Sultanpur-Pz	16.90		17.50	16.50
499		Talwan-Pz	19.20		21.60	19.85
500		Thanda-Pz	21.50		22.60	21.40
501		Udhopur	8.40			
502	Kapurthala	Amanipur-Pz			14.25	11.75
503		Bauril Harnampur-Pz	13.68		16.04	13.34
504		Begowal-Pz	5.68		6.30	5.60

505		Bhanoki-Pz	24.87		26.80	24.70
506		Bhatnura Khurd- S	13.78	16.26	13.07	14.80
507		Bhawanipur-Pz	10.20		11.85	9.60
508		Bholath M	8.72	9.83	9.18	9.42
509		Bholath S	8.87	9.38	9.62	9.04
510		Chakoke-Pz	6.09		6.74	5.79
511		Dalla	22.00			22.23
512		Hamira-Pz	10.14		10.82	9.54
513		Hazipur-Pz	5.79		7.29	6.34
514		Hussainpura-S Pz	23.72	26.10	24.63	21.50
515		Hussainpura-Vs Pz		26.10		18.80
516		Kapurthala2 (S)	23.59	24.47	20.59	19.48
517		Karnail Ganju-Pz	7.12		8.36	7.31
518		Kishanpur	24.05		29.90	25.75
519		Maheru-Pz	21.50		23.30	20.30
520		Miani Bola-Pz	9.03		10.21	9.31
521		Mithra-Pz			16.10	13.40
522		Nathu Chahal-Pz	30.89		35.39	31.69
523		Nurpur Janoa-Pz	8.36		9.28	8.38
524		Paazian-Pz			21.35	17.80
525		Phagwara2 (S)	27.18	29.59	28.92	27.87
526		Rawalpindi-Pz	18.85		26.55	22.55
527		Saiflabad-Pz			9.75	8.65
528		Sangatpur-Pz			26.70	21.10
529		Shalapur Dona-Pz			31.65	28.70
530		Sheikh Manga-Pz	4.76			
531		Sultanpur2 (S)	12.40	14.00	17.04	16.02
532		Talwandi Chaudary -Pz	10.69	10.87	10.25	9.68
533		Thikriwali-Pz	8.04		8.50	7.75
534	Ludhiana	Alamgir-Pz	19.25		20.15	19.35
535		Aliwal-Pz	8.45		9.00	9.05
536		Begowal	9.72			
537		Bhagwanpur-Pz	14.25		15.65	14.90
538		Bhahlolpur-Dw	12.92	13.49	12.44	12.58
539		Bharthala Randhawa-Pz	23.20		24.40	23.35
540		Bhikhi Khatron-Pz	14.13		14.39	13.88
541		Bilaspur-Pz	9.45		9.95	9.85
542		Chaminala-Pz	21.35		22.90	22.10
543		Chankian Khurd-Pz	8.60		9.55	9.30
544		Chattar Singh Park-Ldh	38.79			39.71
545		Chaunta-Pz	5.65		6.32	5.95
546		Chhapar-Pz	22.90		24.70	24.00
547		Dinnamder-Pz	20.00		21.50	21.50
548		Dodpur-Pz	20.05		20.55	19.75
549		Doraha-Pz	7.07	7.25	7.32	7.30
550		Galibkalan-Pz	22.97		25.60	23.85

551		Gohaur-Pz	22.20		22.50	21.95
552		Gopalpur 2(S)	16.93	18.51	18.73	18.38
553		Hambowal-Pz	5.80		6.40	6.30
554		Harnampur	18.73		20.63	18.63
555		Hedon-Pz	17.85		18.90	18.10
556		Ikloha-Pz	21.77	22.70		22.15
557		Jagraon 2(S)	22.00		21.90	21.50
558		Kalsian	27.80		29.15	29.15
559		Katanikalan-Pz	9.30		9.70	9.50
560		Khandur	21.34		22.59	22.14
561		Kishangarh-Pz	20.10		21.60	20.40
562		Kishanpur-Pz	25.40		29.17	27.40
563		Lalan1	9.92		10.27	9.87
564		Lelon-Pz	5.00		4.80	5.45
565		Lil- li Pz	16.79	16.88	14.52	17.13
566		Lil-Pz lii	13.85	13.84	13.46	13.98
567		Lodhiwal-Pz	11.30		11.85	11.86
568		Lohara-Pz	29.25		29.75	29.52
569		Maksudra-Pz	10.77	12.32	11.76	
570		Manak Majra-Pz	21.20		22.55	22.60
571		Mangat-Pz	11.00		12.65	12.20
572		Manoke-Pz	27.08		30.26	29.70
573		Mehma Singh Wala-Pz	20.32		22.10	21.60
574		Mushkabad	12.98	12.78	12.67	12.53
575		Nurpur-Pz	27.50		29.80	28.50
576		P.A.U.Ludhiana 2(S)	32.47	27.97	28.10	27.72
577		Pabbian-Pz	17.65		19.50	18.90
578		Pandori-Pz	21.00		23.40	20.80
579		Payal-Pz	17.11		17.72	17.45
580		Punjeta			10.41	10.40
581		Ragba-Pz	19.87		21.00	20.10
582		Raikot-Pz	27.45		29.80	28.00
583		Rajona Khurd	25.08		29.78	25.88
584		Rashiana-Pz	22.00		24.10	23.40
585		Rashin	26.03		27.83	27.03
586		Rattewal-Pz	22.77		24.85	24.10
587		Roomi-Pz	25.30		29.85	26.00
588		Sajaywal-Pz	24.01		29.60	24.05
589		Samrala 2(S)	14.55	14.14	14.60	
590		Sanewal-Pz	16.30		16.70	16.50
591		Sangatpura-Pz	18.80		20.40	
592		Sherian	3.79	4.14	3.74	4.32
593		Sherpur-Pz	4.85		5.55	5.35
594		Sidhwian Bet-Pz	7.35	8.00	7.80	8.70
595		Talwandi Kalan-Pz	18.70		20.00	19.30
596		Udonwal-Pz	4.65		4.90	4.90

597		Upplan	9.05		9.25	8.75
598		Utlan	13.20		14.04	11.96
599	Mansa	Aklia-Pz	19.78		22.72	20.65
600		Alampur Mandran-Pz	10.54		11.50	10.48
601		Alisher Khurd-Pz	13.18		14.33	13.13
602		Bahadur Pur-Pz	14.87		16.00	15.18
603		Bareh-Pz	11.81		11.75	11.23
604		Behniwala-Pz	6.85		7.38	7.06
605		Bhamme Kalan-Pz	6.77		7.12	7.12
606		Bhikhi 1 (S)			16.96	16.95
607		Bhikhi 2 (S)	16.34	17.12		
608		Budhlada	13.24	13.46	13.63	10.31
609		Budhlada-Pz	14.20	14.65	14.62	14.45
610		Burj Bhalaike	4.44	2.77		
611		Burj Rathi-Pz	12.92		13.85	13.19
612		Fattamaluka	5.69	3.11	5.78	5.64
613		Gehlan-Pz			7.21	7.17
614		Gharangne-Pz	7.28		7.76	7.62
615		Hera Wala-Pz	10.15			
616		Hero Kalan-Pz	25.24		27.61	26.34
617		Hirke-Pz	19.81		18.93	20.00
618		Joga -Dp-Pz			1.24	1.11
619		Khiala Kalan-Pz	10.43		10.60	10.66
620		Khokhar Kalan-Pz	8.20		9.07	8.45
621		Kot Dhamru	7.73		8.15	8.22
622		Kotra	12.70	12.95	9.10	13.25
623		Kusla-Pz	3.67		4.02	3.67
624		Lakhial-Pz	18.46		19.50	18.92
625		Makha-[Pz	7.03		7.10	7.18
626		Mansa			9.55	9.78
627		Phaphare Bhaike-Pz	15.71		17.13	15.59
628		Raipur-Pz	7.40	6.90	6.75	7.90
629		Ralla	11.35	10.35	11.83	
630		Sangha-Pz	57.30		58.78	58.89
631		Tandian-Pz	7.38			
632		Tibbi Hari Singh-Pz	18.21		18.55	17.83
633	Moga	Baje Ke-Pz	15.37		15.65	15.99
634		Baraghari-Pz			22.30	21.70
635		Bilaspur-Pz	29.60		30.90	30.37
636		Bir Chirk-Pz			28.25	27.65
637		Budh Singh Wala-Pz	21.11	23.45	22.85	21.80
638		Chand Nawan-Pz	27.50		29.20	28.50
639		Chogawan-Pz	31.45	33.45	33.45	34.87
640		Dagru- Pz	31.52	32.25	34.15	32.32
641		Damru Khurd	19.20	20.73	21.73	20.26
642		Darapur 07pz	26.18	28.65	24.70	23.90

643		Daulatpur Niwan-Pz	27.20		29.10	28.10
644		Dhudi Ke-Pz	28.30		30.20	29.60
645		Dinna-Pz	25.70		27.20	26.70
646		Ghoha Khurd-Pz			19.20	18.70
647		Himatpura-Pz	28.20		29.75	29.05
648		Indergarh-Pz	19.45		19.72	19.60
649		Jhandewala-Pz	30.40		32.20	31.65
650		Kamalke-Pz	12.60		13.66	13.60
651		Khokri Kalan-Pz	26.15		28.00	27.30
652		Khosa Randhir-Pz	27.70		28.92	28.85
653		Mandar-Pz	8.50		9.70	9.60
654		Mangewala-Pz	22.10		23.30	22.60
655		Mari Mustfa-Pz			21.20	20.70
656		Meemana-Pz	29.80		31.25	30.60
657		Mehron-Pz	32.10		33.40	32.60
658		Nathu Wala-Pz	20.80		22.25	21.70
659		Nihalsinghwala-Pz	31.22	32.00	33.23	32.57
660		Raonke Kalan-Pz	26.60		28.15	27.65
661		Samad Bhai-Pz	18.60		20.15	19.70
662		Samalsar-Pz	17.20		18.60	18.00
663		Thathe Bhai-Pz	18.30		19.70	19.20
664		Tota Singh Wala-Pz	9.25		10.49	10.40
665	Muktsar	Abulkharana-Pz	2.30		2.55	2.05
666		Alam Wala			3.27	2.47
667		Balocha Khera(Rasoolpur)	0.65	2.35	0.95	0.75
668		Banwala-Pz			2.44	
669		Bhaliana	8.67	9.66	9.36	9.86
670		Bhiti Wala-Pz	2.24		3.10	2.10
671		Chaktam Kot-Pz	1.66		2.05	1.45
672		Dhalkot-Pz	6.59		7.00	6.10
673		Doda	2.53	2.22	0.52	4.49
674		Doda-Pz	2.53	2.22	1.86	3.10
675		Husnar-Pz	2.80		3.10	2.50
676		Jhurar-Pz			2.74	2.50
677		Kabar Wala	3.26	4.47	3.24	4.20
678		Kattianwali-Pz	3.00		3.00	2.80
679		Khirkian Wala-Pz	1.30		1.38	1.40
680		Khunde Halal-Pz	2.35	4.32	1.55	2.42
681		Killian Wali-Pz	5.58		5.60	5.50
682		Kolian Wali-Pz	1.53		2.10	1.70
683		Kot Bhai- Dw			6.93	5.40
684		Labanianwali	1.86	3.23	2.73	4.30
685		Lambi	1.95	3.52		3.51
686		Lambi-Pz	2.10	3.51	2.65	2.72
687		Muktsar	5.10	3.87	3.62	5.13
688		Phulu Khera-Pz	2.15		2.60	2.10

689		Ratta Khera Chota-Pz	2.24		2.15	2.70
690		Sheikh-Pz	2.59		3.05	2.60
691		Sohiwal-Pz			3.38	3.37
692	Nawanshahr	Alowal-Pz	6.10		6.50	6.00
693		Aur-Pz	10.00		10.90	10.00
694		Badhwan-Pz	15.90		17.30	
695		Baharam-Pz	17.40		20.50	20.30
696		Bahara-Pz	16.30		17.40	16.90
697		Bahlora Kallan- Pz	5.40	5.29	5.21	5.15
698		Bahua-Pz	20.00		22.10	21.00
699		Balachore	17.56		16.10	
700		Balaipur-Pz	18.10		21.30	20.30
701		Bhadi-Pz	24.50		26.50	
702		Dhan Wala-Pz	42.10		43.90	
703		Dugri Garol-Pz	7.00		8.50	
704		Hakimpur-Pz	15.80		17.90	16.80
705		Jethu Majra-Pz	16.70		17.65	16.80
706		Kariam-Pz	15.00		15.70	15.00
707		Langoya-Pz	16.80		17.30	16.30
708		Mahalpur-Pz	11.85		14.00	
709		Mauhra-Pz	34.49	34.20	34.87	33.72
710		Padmaiwal-Pz	16.50		20.00	19.00
711		Rahon	9.12	9.52	9.75	9.55
712		Raipur Dhaba-Pz	14.38	17.21	16.75	16.50
713		Torewal-Pz	18.90		23.80	23.00
714	Patiala & Sas Nagar	Antala	2.54	0.64	3.04	3.73
715		Ballopur	2.75		3.25	3.20
716		Barauli-Pz	43.45		40.70	
717		Bassma Pipla			7.18	
718		Bhankhar-Pz	28.90		29.40	29.20
719		Bhojo Majri 07pz		24.40	25.25	22.35
720		Birkauli	26.34	32.43	30.71	
721		Challeta-Pz	23.00		23.70	24.10
722		Chandiala-Pz	22.95		24.80	
723		Dera Bassi 07pz	12.22		12.35	12.27
724		Devigarh 1pz	31.21	27.81	35.52	33.66
725		Devigarh lipz	32.12	36.24	34.47	33.65
726		Devigarh-lii Pz	31.80	38.25	35.75	33.95
727		Dhakdaba 07	26.15	26.70	27.38	28.15
728		Dhaneta-Pz	33.15		33.55	32.80
729		Gharam-Pz	33.10		33.25	32.95
730		Gulwatti-Pz	29.60		29.85	29.25
731		Haluka	7.32	9.10	9.28	9.32
732		Handesaran-S	14.33		16.22	14.48
733		Hari Majra			4.78	
734		Harion Kalan-Pz	37.75		37.75	37.40

735		Jainagar-Pz	27.20		29.00	29.60
736		Joli	6.65	6.66	7.81	6.70
737		Kakrala-Pz	36.30		36.85	36.15
738		Kalyan 07pz	24.49	25.94	25.90	25.75
739		Kami Kalan	12.59	12.14	12.41	12.85
740		Kami Khurd-Pz	19.50		19.20	18.50
741		Kheri Pandte-Pz	25.50		26.30	27.75
742		Kulburcha-Pz	36.05		36.65	35.80
743		Kutha Kheri-Pz	33.90		36.90	37.65
744		Lacharu Kalan	5.21	5.01	5.19	
745		Lachkani-Pz	21.56	23.31	22.52	22.45
746		Mehmood Pur-Pz	26.80		28.75	28.25
747		Miranpur- Pz	27.22	30.92	31.34	29.90
748		Mongowal-Pz	25.30		25.70	25.25
749		Nanhera-Pz	24.70		25.20	25.00
750		Passiana-Pz	22.25		22.85	22.35
751		Patran-Pz	39.35	39.67	40.15	40.30
752		Rajpura-Pzst	36.18	31.17	41.40	37.35
753		Rasoolpur Jaura-Pz	28.10		28.75	29.30
754		Samana-Pz	33.62	34.91	35.32	35.30
755		Samaspur-Pz	25.25		25.80	24.75
756		Sangatpura-Pz	23.45	29.33	36.81	28.65
757		Sauja-Pz	29.45		29.50	29.30
758		Singhpura-Pz	28.60		30.35	
759		Sirsini	2.10	1.10	1.50	1.42
760		Surala Kalan-Pz	3.00		3.25	2.85
761		Thua	33.06	34.88	34.95	34.65
762	Rupnagar & Sas Nagar	Ahmedpur	6.34	10.84	6.09	7.71
763		Amrali-Pz	16.55		17.00	15.84
764		Attari-Pz	6.10		6.60	6.75
765		Bains	14.30		15.50	15.75
766		Balongi-Pz	40.70		42.65	42.40
767		Bera Chauta	4.33		3.58	3.83
768		Bhalan		4.55		6.02
769		Bhatto-Pz	5.20		5.90	5.90
770		Braham Pur	4.78	3.70	5.80	4.66
771		Chakdera	5.15	5.25	4.65	4.35
772		Dhair	13.44	12.04	8.89	9.19
773		Dheri	4.40	5.00	4.70	5.10
774		Dumewal	12.98	12.98	12.63	12.38
775		Gharoon	15.95		17.85	15.50
776		Ghoga	6.60	4.25	3.97	5.23
777		Hardinamoh	3.34	1.61	2.22	2.24
778		Klwan-Pz			9.40	9.30
779		Kotla	1.30		1.60	1.50
780		Kurrrha-Pz	20.90		21.40	21.05

781		Landran	4.40	5.08	5.64	5.48
782		Landran-Pz	16.25	16.88	16.95	16.11
783		Madhowal-Pz			6.54	6.76
784		Malkpur-Pz	7.30			7.15
785		Manoli-Pz	17.45		18.55	18.40
786		Morinda-Pz	23.40		23.87	23.75
787		Palheri-Pz	28.95		29.80	30.60
788		Pedol-Pz	49.65		51.80	49.15
789		Raipur Kalan	17.15		17.40	17.25
790		Rajgiri-Pz	17.40		18.90	19.40
791		Rampur-Pz			9.25	9.20
792		Rurki Heeran-Pz	18.98	19.81	18.81	18.30
793		Rurkan-Pz				24.35
794		Sohana-Pz			1.20	1.05
795	Sangrur & Barnala	Amla Singh Wala-Pz	36.20		37.50	37.30
796		Bagarian-Pz	29.06	30.45	30.48	30.00
797		Bakshiwala-Pz	32.95		33.10	32.85
798		Balang-Pz	31.30		31.70	31.35
799		Banbhaura-Pz	27.10			26.85
800		Barnala (S)	35.93	35.41	37.44	37.73
801		Bhadaur-Pz	26.37	27.60	28.35	27.67
802		Bhojowali-Pz	33.08	37.80	36.60	35.10
803		Bhunerheri-Pz	34.35		35.50	35.40
804		Bopla-Pz	34.15		37.70	37.60
805		Bugra 1	29.13		31.09	30.20
806		Chatha Nanhera-Pz	28.25		28.35	28.00
807		Chural Kalan M	26.78	28.58	28.66	28.16
808		Dhanaula	21.70			
809		Dhanaula-Pz			22.60	21.90
810		Dharamgarh-Pz	28.30		28.80	28.45
811		Ghaghlo-Pz	35.40		35.65	35.20
812		Ghanauri Kalan-Pz	38.21	43.58	39.90	39.60
813		Hassanpur-Pz	30.00		31.20	30.60
814		Isra-Pz			31.50	31.05
815		Kala Jhar-Pz	30.85		31.25	30.70
816		Khanpur Fakiran-Pz	28.55		30.25	30.55
817		Kheri Naran-Pz	31.65		31.80	31.60
818		Khurni-Pz	31.65		33.45	33.50
819		Kila Hakima	26.30		27.40	27.00
820		Kokahar-Pz	24.95		25.15	25.30
821		Kuler Khurd-Pz	33.05		33.15	32.85
822		Kurar-Pz	35.30		36.90	36.90
823		Ladda-Pz		33.41	33.51	33.51
824		Lehal Kalan-Pz	27.55		28.85	28.55
825		Lohgarh-Pz	26.70		28.20	27.60
826		Longowal-Pz	27.29	27.96	28.11	28.15

827		Mahal Kalan-Pz		31.70	32.45	32.77
828		Malerkotla-Dw	34.85	36.93		37.12
829		Manvi-Pz	19.60	23.10	23.18	23.80
830		Mehsampur-Pz	33.75		33.95	33.85
831		Nangal-Pz	35.96		37.50	37.20
832		Pakho Ke-Pz	27.20		28.30	27.70
833		Panjgaraian- Pz	37.95		39.70	38.70
834		Patiala Kalan-Pz	35.35		35.70	35.05
835		Rajo Majra-Pz	29.80		30.90	31.00
836		Ramgarh-Pz	21.40		22.40	22.20
837		Rampur Channa-Pz				28.10
838		Rurgarh-Pz	40.35		41.85	41.85
839		Rurki Kalan-Pz	22.60		24.60	23.40
840		Sekhpur Khurd-Pz	36.10		37.20	37.20
841		Sekhwas-Pz	24.05		25.35	25.05
842		Shekha	32.26		33.30	32.70
843		Sikandarpur-Pz	38.45		39.75	39.55
844		Sunam-Pz	33.67	34.46	34.79	34.75
845		Tappa Mandi-Pz			30.90	30.50

Annexure-2						
Sr No.	DISTRICT	Location	Jan. 2016 - May 2016	May 2016 - Aug.2016	May 2016 - Nov.2016	May 2016 - Jan. 2017
1	Chandigarh	BURAIL	-0.16	0.06	-0.10	0.00
2	Chandigarh	Csio-combined		0.00		
3	Chandigarh	Maloya	0.12	-1.57	-0.63	
4	Chandigarh	NEW INDUST AREA	-1.37	0.20	-0.04	0.24
5	Chandigarh	SECT 10C (D)	-13.03	-0.26	-0.10	0.37
6	Chandigarh	SECT 10C (S)	13.75	-1.34		-2.32
7	Chandigarh	SECT 31D (D)	2.57	-6.54	-3.60	-3.50
8	Chandigarh	SECT 31D (S)	-0.37	0.31	2.49	0.16
9	Chandigarh	SECT 37D (S)	-0.52	0.64	0.04	0.21
10	Chandigarh	SECT 39D (S)	-0.62	0.10	-0.39	0.00
11	Chandigarh	SECT 44D (S)	-0.92	0.46		-0.46
12	Chandigarh	Sector-46 (shallow)	-1.16	0.55	2.16	
13	AMRITSAR	Aima Khurd-Pz	-0.90		-0.40	0.20
14	AMRITSAR	Ajnala	-0.04	-0.73	-1.02	-0.70
15	AMRITSAR	Amritsar1	-1.92	2.02	1.81	1.34
16	AMRITSAR	Attari-Pz	-0.50		-0.50	0.10
17	AMRITSAR	Bakipur-Pz	-0.55		-0.70	0.20
18	AMRITSAR	Bal Kalan-Pz	-0.60		-1.60	-0.80
19	AMRITSAR	Bath-Pz	-0.40		-1.20	

20	AMRITSAR	Beas07	-1.30	0.20	0.07	0.17
21	AMRITSAR	Bhagala-Pz	-0.60			-1.30
22	AMRITSAR	Bhagwanpur-Pz	-0.70		-1.70	-1.00
23	AMRITSAR	Bhankar Kalan-Pz	-0.70		-1.00	-0.10
24	AMRITSAR	Bhattaywad-Pz	-0.85		-1.10	-0.40
25	AMRITSAR	Bhikiwind- Pz	-1.10	-0.24	0.33	0.71
26	AMRITSAR	Bhura-Pz	-0.40		-1.70	-0.90
27	AMRITSAR	Bhure-Pz	-0.50		-1.60	-0.50
28	AMRITSAR	Bhusse-Pz	-0.70		-0.70	0.40
29	AMRITSAR	Boparai Khurd-Pz	-1.00		-0.80	0.00
30	AMRITSAR	Brahmpur-Pz	-0.30		-1.10	-0.50
31	AMRITSAR	Chak Dogra-Pz	-0.50		-1.30	-0.90
32	AMRITSAR	Chakkare Khan-Pz	-0.50		-0.40	0.70
33	AMRITSAR	ChogWan- Pz	1.50	-3.22	-2.12	-1.68
34	AMRITSAR	Chola Sahib-Pz	-0.15	-1.54	-0.55	-0.30
35	AMRITSAR	Choudhary Wala-Pz	-0.70		-1.40	-0.60
36	AMRITSAR	Chuselawad-Pz	-0.30		-2.50	-1.40
37	AMRITSAR	Dholan-Pz	-0.60		-0.90	-0.60
38	AMRITSAR	Dhulika-Pz	-0.80		-0.10	0.60
39	AMRITSAR	Dohan-Pz	-0.60		-0.70	-0.50
40	AMRITSAR	Ekalgoda-Pz	-0.10		-1.20	-0.30
41	AMRITSAR	Fatehabad- PZ			-1.30	-0.10
42	AMRITSAR	Gago Mahal- Pz	-0.36	-0.54	-0.10	-0.23
43	AMRITSAR	Gandi Wind-Pz	-0.38	-1.17	-1.04	-0.35
44	AMRITSAR	Gill wali-Pz	-0.80		-0.90	-0.50
45	AMRITSAR	Goindwal 07	-0.26	-0.31	-0.05	0.31
46	AMRITSAR	Jandiala Guru-Pz	-0.54	-0.22	-0.16	0.42
47	AMRITSAR	Jandoke-Pz	-0.50		-2.20	-1.70
48	AMRITSAR	Jasrur-Pz	-0.80		-1.20	-0.60
49	AMRITSAR	Jethuwal-Pz	-0.70		-1.90	-1.20
50	AMRITSAR	Kairon-PZ			-1.00	-0.30
51	AMRITSAR	Kalsia Kalan07	-2.01	-1.53	-1.32	1.59
52	AMRITSAR	Kandowali-Pz	-0.90		-1.50	-1.00
53	AMRITSAR	Karyl-Pz	-0.80		-0.80	-0.10
54	AMRITSAR	Khadur Sahib-Pz	-0.26	-1.39	-0.88	-0.27
55	AMRITSAR	Khalra-Pz	1.10		-0.80	-0.10
56	AMRITSAR	Khilchian-Pz	-0.50		-0.90	-0.50
57	AMRITSAR	Kotbudda-Pz	-0.60		-0.40	0.70
58	AMRITSAR	Kotli Sur Singh-Pz	-0.50		-1.10	-0.70
59	AMRITSAR	Mahendipur-Pz	-0.50		-0.80	-2.00
60	AMRITSAR	Majitha- Pz	-0.60		-1.30	
61	AMRITSAR	Makhan Windi-Pz	-0.80		-0.40	0.30
62	AMRITSAR	Marhona-Pz	-0.20			-0.90
63	AMRITSAR	Mari Kamboke-Pz	-0.30		-0.80	-0.40
64	AMRITSAR	Mehleykey-Pz	-1.10		-0.80	-0.40
65	AMRITSAR	Mehta-Pz	0.50		-0.30	0.10

66	AMRITSAR	Miran Chak-Pz	0.20	-1.54	-0.50	0.10
67	AMRITSAR	Mohawa			-0.75	-0.31
68	AMRITSAR	Nangal Sahaul-Pz	-0.90		-0.60	0.10
69	AMRITSAR	Nawan Tanal- Pz	-1.13	-0.70	-1.35	0.25
70	AMRITSAR	Pakhpura-Pz	-0.70		-0.80	-0.30
71	AMRITSAR	Pindan-Pz	0.00		-0.50	-0.10
72	AMRITSAR	Rajoke-Pz	-0.90		-1.00	
73	AMRITSAR	Ramdas-DW	-0.24	-0.32		-0.35
74	AMRITSAR	Rampura-Pz	-1.05		-0.90	-0.10
75	AMRITSAR	Ratoke-Pz	-1.15	-3.90	-1.99	-0.76
76	AMRITSAR	Rupowal Brahmana-Pz	-1.20		-0.20	0.00
77	AMRITSAR	Sabran-Pz	-0.60		-1.50	
78	AMRITSAR	Sahab Pura- Pz		-1.71	-1.06	-1.17
79	AMRITSAR	Sathiala-Pz	-0.60		-0.80	-0.40
80	AMRITSAR	Shabura-Pz	3.08		-1.00	-4.38
81	AMRITSAR	Sham Nagar-Pz	-0.80		-0.90	-0.30
82	AMRITSAR	Sheron-Pz	-0.20		-1.80	-1.40
83	AMRITSAR	Sugga-Pz	-0.30		-1.30	-0.70
84	AMRITSAR	Talwandi Dogra-Pz	-0.90		-0.30	0.30
85	AMRITSAR	Tarsika-Pz	0.25		-0.30	0.10
86	AMRITSAR	Thatha- Pz	-0.30		1.30	-2.50
87	AMRITSAR	Ugar Aulakh-Pz	-0.20		-0.50	0.10
88	AMRITSAR	Vadala Kalan-Pz	-1.10		-0.80	-0.10
89	AMRITSAR	Valtoha				-0.55
90	AMRITSAR	Wandala Bittewad-Pz	-0.90		-0.80	0.30
91	BATHINDA	Ablu	0.04	-1.22	-1.07	-0.49
92	BATHINDA	Aleke Jalal-Pz	0.76		-3.48	-1.69
93	BATHINDA	Badiala-Pz	-0.07	-0.83	-1.78	-1.18
94	BATHINDA	Bagher Mohabat Singh- Pz	0.02		-0.50	-0.02
95	BATHINDA	Bahman Kaur Singh-Pz	-0.15		-0.25	-0.05
96	BATHINDA	Balianwali-Pz	0.56		-2.83	-1.17
97	BATHINDA	Balluana1	-0.32			0.09
98	BATHINDA	Balluana-Pz	0.47	1.91	-1.12	-0.46
99	BATHINDA	Banbhiha-Pz	-1.16			
100	BATHINDA	Bhagibandar	-0.17	1.93	-0.12	-0.06
101	BATHINDA	Bugran-Pz	0.97		-2.60	-2.06
102	BATHINDA	Burj Gill-Pz	-0.39		-2.14	-0.95
103	BATHINDA	Burj-Pz	-0.10		-0.65	-0.30
104	BATHINDA	Deratapp	-0.46	0.20	1.60	
105	BATHINDA	Dhapali1	1.47	0.55	-2.50	-1.63
106	BATHINDA	Dialpur Mirza	-0.25	0.37	-3.36	-2.19
107	BATHINDA	Dialpura Bhlaike	-0.26	0.85	-2.36	-1.30
108	BATHINDA	Dulle Wala-Pz	-0.18		-2.82	-1.09
109	BATHINDA	Ganga-Pz	-0.02	-1.62	-0.25	-0.50
110	BATHINDA	Ghudda-Pz	-0.10		-0.76	0.07

111	BATHINDA	Gulabgarh 1 (vs)	0.15			0.28
112	BATHINDA	Guru Sar-Pz	-0.21	0.37	-0.12	0.14
113	BATHINDA	Harraipur-Pz	-0.09		-0.82	0.34
114	BATHINDA	Jajjal	-0.70	2.35	-0.65	0.90
115	BATHINDA	Jassi Bhagwali	0.19		-0.69	-0.16
116	BATHINDA	Jassi Paowali-Pz	-0.14		0.07	0.33
117	BATHINDA	Jhanduke	-2.05		-2.18	0.57
118	BATHINDA	Jhanduke-Pz		-1.93	-3.79	-1.57
119	BATHINDA	Kalla Bandar	3.40	0.44	0.29	-0.63
120	BATHINDA	Kalyan Sukha-Pz	0.31		-2.33	-1.44
121	BATHINDA	Koir Singh Wala-Pz	-0.82		-1.21	-0.57
122	BATHINDA	Kot Bhaktu-Pz	0.20		-0.45	-0.10
123	BATHINDA	Kot Shamir	0.25	-1.90	-0.72	-0.20
124	BATHINDA	Kothaguru-Pz	-1.05	-0.15	-1.85	-1.14
125	BATHINDA	Lalliana-Pz	-0.05		-0.50	-0.20
126	BATHINDA	Lehra Dhulkot-Pz	-0.77		-2.88	-1.52
127	BATHINDA	Maihma Bhagwan-PZ	0.10		-0.94	0.00
128	BATHINDA	Maisar Khana	0.08		-0.85	-0.42
129	BATHINDA	Maisar Khana-Pz	0.25	-2.38	-1.15	-0.55
130	BATHINDA	Maluka-Pz	0.80		-2.22	0.50
131	BATHINDA	Mandi Kalan-Pz	1.06		-2.33	-1.36
132	BATHINDA	Mehraj-Pz	0.40		-0.97	-0.68
133	BATHINDA	Mehta-Pz	0.00		-0.39	0.29
134	BATHINDA	Multania-Pz	-0.19		-0.52	0.15
135	BATHINDA	Nahinwala	-0.21	0.34	-0.06	
136	BATHINDA	Nathana-Pz	0.19		-4.28	-0.84
137	BATHINDA	Nathena-Pz	0.00		-0.55	-0.15
138	BATHINDA	Pathrala-PZ			-0.15	0.09
139	BATHINDA	Phul	0.10	1.20		
140	BATHINDA	Phulla1			-2.01	-1.35
141	BATHINDA	Raike Kalan	-0.57	0.15	-0.05	
142	BATHINDA	Rajgarh Kubey-Pz	1.20		-1.95	-1.40
143	BATHINDA	Rampura	-0.13	2.63		
144	BATHINDA	Rayya-Pz	-0.71		-2.35	-1.71
145	BATHINDA	Salabatpur-Pz	0.03	0.22	-2.03	-0.88
146	BATHINDA	Sangat -Pz	0.41			-1.19
147	BATHINDA	Sooch-Pz	0.87		-2.00	-1.32
148	BATHINDA	Tungwali-Pz	-0.39		-0.59	0.46
149	BATHINDA	Aryan Wala-Pz		-0.20	0.18	0.10
150	BATHINDA	Baja Khana	11.90	-12.74	-13.20	-12.25
151	BATHINDA	Bead Sikhanwala- Pz	-0.25	-0.89	0.15	0.04
152	BATHINDA	Behabal Kalan-Pz	0.20		-1.50	-1.00
153	BATHINDA	Bir Nathuwala-Pz		-0.70		-0.60
154	BATHINDA	Chahd Baja	0.16	-0.97	-1.02	-0.10
155	BATHINDA	Chak Kalan-Pz	-0.45		0.70	0.45
156	BATHINDA	Deviwala li-Pz		-1.45	-0.73	-0.57

157	BATHINDA	Deviwala I-Pz				0.58
158	BATHINDA	Deviwala-Pz		-0.45	0.90	0.94
159	BATHINDA	Dhilwan Kalan	0.83	-1.33	-1.53	-1.03
160	BATHINDA	Dhudi-Pz	-0.53		-0.37	0.43
161	BATHINDA	Dipsinghwala	-1.67	-0.01	0.63	1.32
162	BATHINDA	Fatehgarh-Pz	0.30		-1.80	-1.20
163	BATHINDA	Ghuiana-Pz	-0.38		-0.72	0.23
164	BATHINDA	Jand Sahib-Pz		-0.27	0.50	0.55
165	BATHINDA	Karirwali	-0.05	-1.67	-1.02	-1.10
166	BATHINDA	Killi-Pz		-0.09	0.68	0.87
167	BATHINDA	Kot Kapura	-0.15	-0.50	-0.53	-0.35
168	BATHINDA	Matta	-0.05	-1.00	-0.12	0.15
169	BATHINDA	Mehmuana	-0.60	0.55	1.00	0.79
170	BATHINDA	Mumra-Pz		-1.45	-0.40	-0.30
171	BATHINDA	Nangal-Pz		-6.60	0.88	0.93
172	BATHINDA	Pahluwala-Pz	-0.35		-0.55	0.30
173	BATHINDA	Ratti Rori-Pz	-0.25		0.40	-0.40
174	BATHINDA	Rorian Kapura-Pz	0.00		-0.70	0.00
175	BATHINDA	Sadiq-Pz		-0.12	0.20	0.23
176	BATHINDA	Sher Singh Wala- Pz	-0.06	-0.77	0.08	0.03
177	BATHINDA	Sukhwala-Pz		-0.50	0.15	-0.01
178	BATHINDA	Tehna-Pz		0.62	0.07	0.02
179	BATHINDA	Wara Dwarka-Pz		-0.05	-0.08	-0.05
180	FATEH GARH	Alipur Sodhian-Pz	-0.26		-0.35	-0.30
181	FATEH GARH	Badalialasingh	2.06	-6.31	-5.57	-4.81
182	FATEH GARH	Bagga Kalan	-0.14		-0.25	-0.50
183	FATEH GARH	Bassi Pathana	3.30	-1.30	-1.35	-1.10
184	FATEH GARH	Bhaghrana	-0.18	0.08	0.95	0.35
185	FATEH GARH	Bhateri1	0.44		-2.09	-1.98
186	FATEH GARH	Burj	0.00		-0.40	-0.40
187	FATEH GARH	Chandiala-Pz	-0.35		-0.55	-0.55
188	FATEH GARH	Chunni Kalan	0.67	-2.04	-1.70	-1.50
189	FATEH GARH	Fatehgarh Sahib		0.41		
190	FATEH GARH	Fatehgarh Sahib-Pz	-1.69		-0.07	1.21
191	FATEH GARH	Jai Singh Wala	0.05		-0.45	-0.50
192	FATEH GARH	Jhambela	-0.55		-0.28	1.55
193	FATEH GARH	Khamanon-pz			-0.35	-0.30
194	FATEH GARH	Khara	-0.01		-0.32	
195	FATEH GARH	Lohar Majra	0.10		-0.15	-0.20
196	FATEH GARH	Mianpur-Pz	-0.03		-0.30	-0.95
197	FATEH GARH	Nalini-Pz	-0.08	-2.48	-2.34	-1.10
198	FATEH GARH	Nandpur Kalaur-Pz	-0.97		-0.45	-1.05
199	FATEH GARH	Pawala		0.24	4.09	-1.26
200	FATEH GARH	Sado Majra	0.05		-0.32	-0.35
201	FATEH GARH	Shahpur	-0.05		-0.25	-0.20
202	FATEH GARH	Sirhind-Pz	-0.25		-0.35	-0.25

203	FATEH GARH	Tahalpur	-0.10		-0.32	-1.00
204	FATEH GARH	Talwara	0.12		-0.30	-0.30
205	FATEH GARH	Timber Pur-Pz	0.50		-0.17	-0.05
206	FATEH GARH	Abohar	-0.10	-0.75	-0.40	-0.35
207	FATEH GARH	Alamgarh	-0.87	-1.01	-0.76	-0.36
208	FATEH GARH	Bannawala	-0.73	-0.64		-0.01
209	FATEH GARH	Bara Mansur Wala-Pz			-1.66	-1.56
210	FATEH GARH	Bazirdpura	-0.17	0.17	0.07	-2.43
211	FATEH GARH	Chak Kandhe Shah-Pz			-1.12	-1.00
212	FATEH GARH	Chamb-Pz			-1.19	-1.10
213	FATEH GARH	Danewal Satkosi	0.34	-1.73	-1.62	-1.91
214	FATEH GARH	Dipulana-Pz	-0.55	-1.02	-0.53	-0.31
215	FATEH GARH	Dulchi Ke-Pz			-0.54	-0.43
216	FATEH GARH	Ghananga Kalan-Pz			-0.40	-0.35
217	FATEH GARH	Gogiani-Pz			-0.61	-0.53
218	FATEH GARH	Guru Harsahai-Pz			-0.60	
219	FATEH GARH	Himmatpura-Pz			-0.65	-0.50
220	FATEH GARH	Jaimal Singhwala Pz	0.19	-0.26	-0.35	-0.38
221	FATEH GARH	Jandwala Watan-Pz			-0.30	-0.24
222	FATEH GARH	Jang-Pz			-2.05	-1.90
223	FATEH GARH	Khere Ki Uttar-Pz			-1.78	-1.55
224	FATEH GARH	Khuiansarwar- Pz	-0.46	-0.83	0.48	-0.35
225	FATEH GARH	Kundal1	-0.05	-0.78	-0.40	-0.50
226	FATEH GARH	Ladhuwala	-0.82	1.15	0.45	-0.02
227	FATEH GARH	Lauhke Kalan- Pz	2.80	-6.10	-3.07	-3.25
228	FATEH GARH	Lohere Khurd-Pz			-1.29	-1.20
229	FATEH GARH	Machi Bugra/ Gujran-Pz			-1.22	-1.10
230	FATEH GARH	Mallanwala Khas-Pz			-0.96	-0.90
231	FATEH GARH	Malluwala-Pz			-2.56	-2.45
232	FATEH GARH	Malsian-Pz	0.03	-0.94	-0.80	-1.01
233	FATEH GARH	Malukpur-Pz			-0.45	-0.40
234	FATEH GARH	Mana Singh Wala-Pz			-1.07	-0.98
235	FATEH GARH	Mohkam Khan Wala-Pz			-0.95	-0.80
236	FATEH GARH	Mohre Wala-Pz	-0.06	-1.06	-0.09	-0.01
237	FATEH GARH	Motiwala 07pz	-0.25	-0.40		
238	FATEH GARH	Mudki-Pz			-0.90	-0.75
239	FATEH GARH	Muradwala Dal-Pz			-0.70	-0.68
240	FATEH GARH	Nihalkhera	-0.10	-1.25	-1.35	-1.48
241	FATEH GARH	Nure-Ki-Uttar 07pz	-0.05	-1.69	-0.97	-0.95
242	FATEH GARH	Piyarana	-0.47	-0.80	0.38	0.50
243	FATEH GARH	Rala Hazi- Pz			-1.70	-1.50
244	FATEH GARH	Ramsara-Pz			-0.88	-0.75
245	FATEH GARH	Rukne Wala-Pz			-0.68	2.42
246	FATEH GARH	Sadhusha Wala-Pz			-3.20	-3.00
247	FATEH GARH	Sham Singhwala-Pz	-0.50	0.33	0.40	-0.22
248	FATEH GARH	Sherewala-Pz			-0.75	-0.60

249	FATEH GARH	Sitoganno	0.10	-0.45	-0.15	-0.15
250	FATEH GARH	Sohangarh Ratte	-1.59	1.54	1.79	1.69
251	FATEH GARH	Sultan Khan Wala Urf-Pz			-1.95	-1.88
252	FATEH GARH	Swah Wala- Pz	-0.30	-1.24	-0.70	-0.88
253	FATEH GARH	Talwandi Jalle Khan-pz			-2.27	-2.15
254	FATEH GARH	Tibbi Kalan-Pz			-4.39	-4.20
255	FATEH GARH	Tibbi Taiwan Laluwalla-Pz			-0.64	-0.60
256	FATEH GARH	Wage Wala-Pz			-0.65	-0.50
257	GURDASPUR	Aulakhkalan	-1.62			
258	GURDASPUR	Bariyar			0.00	0.20
259	GURDASPUR	Bhagowal	-0.36	-0.95	-0.97	0.05
260	GURDASPUR	Bham	-0.87	-1.05	-0.35	-0.35
261	GURDASPUR	Bhoa	-0.72	3.18	0.62	0.55
262	GURDASPUR	Bilasbal-Pz	-0.40		0.10	0.30
263	GURDASPUR	Chahal Kalan-Pz	-0.60		-0.05	0.20
264	GURDASPUR	Chahgill-Pz	-0.30		0.10	0.20
265	GURDASPUR	Chone-Pz	-0.40		-0.05	0.00
266	GURDASPUR	Dakoha-Pz	-0.15	-1.97	-1.18	-0.90
267	GURDASPUR	Dera Baba Nanak	-0.17	0.10	-0.34	-0.73
268	GURDASPUR	Dhianpur	-0.52	3.08	-0.06	
269	GURDASPUR	Dinanagar	-1.02		2.73	-2.10
270	GURDASPUR	Dostpur-Pz	-1.40		-0.10	0.00
271	GURDASPUR	Gajikort-Pz	-0.50		0.00	-0.10
272	GURDASPUR	Galri	-0.77	2.05	0.95	
273	GURDASPUR	Ghania Ki bangar- Pz	-0.57	-0.74	-0.83	-0.62
274	GURDASPUR	Gharotakalan	-3.23	3.69	3.57	4.26
275	GURDASPUR	Ghoh DW	-3.52	2.67	3.37	2.29
276	GURDASPUR	Ghumani Khurd-Pz	-1.10		0.00	-0.05
277	GURDASPUR	Gurdaspur-Pz	-0.70		0.30	
278	GURDASPUR	Hargobindpur		-0.35	-0.25	2.36
279	GURDASPUR	Hassanpur Kalan-Pz	-0.35		-0.05	0.15
280	GURDASPUR	Jainpur-PZ			-0.20	-0.15
281	GURDASPUR	Jandwala	-2.10		-1.80	-2.10
282	GURDASPUR	Jhabakra			-0.10	-0.20
283	GURDASPUR	Jhakolahri	-0.21	1.21	0.26	0.31
284	GURDASPUR	Jhandalbana-Pz	-0.30		0.00	0.20
285	GURDASPUR	Kahnuwan			-0.10	-0.30
286	GURDASPUR	Kala Afgana-Pz	0.20			0.00
287	GURDASPUR	Kalanaur-DW	-1.21	-0.18	0.50	-0.73
288	GURDASPUR	Kaure-Pz	-0.40		0.00	-0.15
289	GURDASPUR	Khan Fatta-Pz	-0.20		0.05	0.25
290	GURDASPUR	Khanikhui	-1.78	1.01	0.74	
291	GURDASPUR	Khanmalik-Pz	-0.50		0.00	0.10
292	GURDASPUR	Khatgarh-Pz	-1.20		0.00	-0.10
293	GURDASPUR	Khogaki Chaka-PZ			0.05	0.20

294	GURDASPUR	Kiari- DW	1.30	2.17	0.72	-1.15
295	GURDASPUR	Kiran Khurd-PZ	-1.47	1.55	-1.05	-1.10
296	GURDASPUR	Kui-DW			1.66	1.15
297	GURDASPUR	Kuther-PZ			-1.25	-1.30
298	GURDASPUR	Lakankala-Pz	-1.00		0.00	0.00
299	GURDASPUR	Langurwal-Pz	-0.20		0.10	0.15
300	GURDASPUR	Madipur Fatehgarhchuria	-0.16	-0.44	-0.62	0.06
301	GURDASPUR	Malikpur-Pz	-0.30		-0.15	-0.10
302	GURDASPUR	Maman-Pz	-0.80		0.00	-0.10
303	GURDASPUR	Masana-Pz	-1.10		0.00	0.05
304	GURDASPUR	Massit-Pz	-0.60		0.20	0.10
305	GURDASPUR	Matti-PZ			-2.30	-2.35
306	GURDASPUR	Mirthal			-0.05	-0.15
307	GURDASPUR	Nangal-Pz	-0.40		0.30	0.20
308	GURDASPUR	Narot Jaimalsingh-Pz	0.30		-0.90	-1.00
309	GURDASPUR	Nawan Pind	-0.26	2.94	0.70	0.24
310	GURDASPUR	Nishayara		-0.36	0.14	0.05
311	GURDASPUR	Pandoritalab	-2.32	3.08	1.15	0.23
312	GURDASPUR	Parcha-Pz	0.20		0.00	-0.10
313	GURDASPUR	Parmota-DW	-2.40	8.65	3.77	1.73
314	GURDASPUR	Pathankot1	1.30	1.00	-0.58	-1.26
315	GURDASPUR	Patti Atwal-Pz	-0.55		-0.20	-0.20
316	GURDASPUR	Philora-PZ			-0.05	0.00
317	GURDASPUR	Raipur			-0.15	-0.15
318	GURDASPUR	Rakawal-PZ			-0.35	-0.20
319	GURDASPUR	Rani Pur-PZ			-0.30	-0.40
320	GURDASPUR	Saidowal Kalan-DW	-0.80	1.27	0.41	0.49
321	GURDASPUR	Saleh Chak-S	-0.33	-0.02	-0.09	-0.20
322	GURDASPUR	Sarna	-1.78		2.24	1.34
323	GURDASPUR	Sathial-Pz	-1.39		0.47	0.49
324	GURDASPUR	Shahpur Jattan-Pz	-0.35		0.00	-0.10
325	GURDASPUR	Shahpur-Pz	-0.50		0.10	0.00
326	GURDASPUR	Shezada Kalan-Pz	-0.45		-0.10	-0.20
327	GURDASPUR	Shikar-Pz	-0.05		0.25	0.30
328	GURDASPUR	Sujanpur-PZ			0.15	0.20
329	GURDASPUR	Tikriwala-Pz	-0.70		0.10	0.20
330	HOSHIARPUR	Aallo Batti-Pz	-0.35		-0.25	-0.30
331	HOSHIARPUR	Adowal Garhi-Pz	-2.99	0.72	-0.16	0.16
332	HOSHIARPUR	Argowal-Pz	-0.50		-0.10	-0.22
333	HOSHIARPUR	Badla-Pz	-1.55		-0.40	-0.42
334	HOSHIARPUR	Baichan-Pz	-0.50		-0.30	-0.50
335	HOSHIARPUR	Bajwara	-0.22			-0.28
336	HOSHIARPUR	Bajwara-Pz			-0.23	
337	HOSHIARPUR	Barota-PZ			-0.25	-0.25
338	HOSHIARPUR	Bersa			-0.35	-0.40
339	HOSHIARPUR	Bhamnaur	1.55		-0.90	9.68

340	HOSHIARPUR	Bhangala-Chhota-DW	-1.76	4.91	1.56	1.29
341	HOSHIARPUR	Bhanowal-Pz	-0.15		-0.10	-0.25
342	HOSHIARPUR	Bhatolian-Pz	-0.25		-0.10	-0.25
343	HOSHIARPUR	Boring-PZ			-0.15	-0.20
344	HOSHIARPUR	Budhi Pind-Pz	-0.45		-0.45	-0.75
345	HOSHIARPUR	Chak Sheru-DW	-1.17	1.72	0.72	0.47
346	HOSHIARPUR	Chohal		0.22	2.05	0.01
347	HOSHIARPUR	Dadan-Pz			0.10	0.10
348	HOSHIARPUR	DAGAN-DW	-0.60	4.85	1.19	5.16
349	HOSHIARPUR	Dallewal-Pz	-0.60		-0.10	-0.25
350	HOSHIARPUR	Dasuya2 (s)	-0.23		-1.48	
351	HOSHIARPUR	Durimiwal	-1.07	0.87	0.48	0.19
352	HOSHIARPUR	Fattowal-Pz	-0.40		-0.30	-0.42
353	HOSHIARPUR	Garhshankar (s)	-2.00	4.55	-0.64	0.22
354	HOSHIARPUR	Grahaya-Pz	-0.25		-0.15	-0.30
355	HOSHIARPUR	Haler Rampur-DW	-1.11	-0.91		0.22
356	HOSHIARPUR	Hazipur	0.77	1.80	0.90	0.29
357	HOSHIARPUR	Heer Beh-PZ	-0.35		0.00	0.00
358	HOSHIARPUR	Ittian-Pz			-0.05	-0.05
359	HOSHIARPUR	Jahidpur-PZ			-0.10	-0.10
360	HOSHIARPUR	Jalalpur-Pz	0.00		0.00	
361	HOSHIARPUR	Jattpur-Pz	-1.00		-0.30	-0.30
362	HOSHIARPUR	Jhir Da Khuh-DW	-0.97	1.67	0.98	0.84
363	HOSHIARPUR	Kharkan-Pz	-0.80		0.30	-0.10
364	HOSHIARPUR	Khera-Pz	-26.25		-0.25	-0.30
365	HOSHIARPUR	Mahil Baltohian-Pz	-1.00		-0.15	-0.20
366	HOSHIARPUR	Mahilpur-Pz	0.21	8.39	0.20	-0.16
367	HOSHIARPUR	Maranwali-PZ			-0.85	-1.05
368	HOSHIARPUR	Mianipur-Pz	0.00		0.00	-0.05
369	HOSHIARPUR	Naharpur-Pz	-0.40		-0.20	-0.25
370	HOSHIARPUR	Namoli-PZ			0.00	0.10
371	HOSHIARPUR	Nangal Bihala- DW	-1.05	-2.84	-0.08	-2.22
372	HOSHIARPUR	Nangal Thathal-Pz	-0.50		-0.10	-0.10
373	HOSHIARPUR	Pan Khuh-DW	-3.99	4.40	3.25	1.48
374	HOSHIARPUR	Pandori Mehal-Pz	-0.55		-0.35	-0.55
375	HOSHIARPUR	Parshot-Pz	-0.15		-0.20	-0.20
376	HOSHIARPUR	Rampur Colony (HSP)	-2.01		1.43	3.52
377	HOSHIARPUR	Samraj Tanda-DW	-1.51		1.04	
378	HOSHIARPUR	Satnoh-PZ.			-0.30	-0.55
379	HOSHIARPUR	Sham Chaurasi	1.39	-0.19	-3.70	-3.89
380	HOSHIARPUR	Sibo Chak- DW	-1.35	1.15	0.87	0.97
381	HOSHIARPUR	Simbli- OW	-0.73	-1.67	0.03	1.33
382	HOSHIARPUR	Simbli-Pz	-0.73	-5.00	-1.53	-1.52
383	HOSHIARPUR	Talwara1	-0.38	0.66	0.49	-0.02
384	HOSHIARPUR	Tanda			-0.20	-0.18
385	HOSHIARPUR	Thakarwala	-1.88	0.28	1.49	-0.29

386	JALANDHAR	Adampur 3(s)	-0.37	-0.10	-0.15	-0.38
387	JALANDHAR	Adarman-Pz	-0.05		-1.00	-0.10
388	JALANDHAR	Akalpur-Pz	-0.25		-1.35	-0.45
389	JALANDHAR	Allawalpur	-0.68		0.25	0.01
390	JALANDHAR	Bilga-Pz	-0.25		-3.60	-2.35
391	JALANDHAR	Billi Chahrami-Pz	-0.60		-1.50	-0.90
392	JALANDHAR	Chania-Pz	-0.05		-1.15	0.75
393	JALANDHAR	Dhanda-Pz	-1.20		-1.55	-0.60
394	JALANDHAR	Fateh Jalal-Pz	0.00		-6.30	-4.30
395	JALANDHAR	Gehlan-pz	-0.25		-3.00	-1.90
396	JALANDHAR	Gillian-Pz	0.40		-1.80	-0.30
397	JALANDHAR	Gohiran	-4.93		2.18	3.25
398	JALANDHAR	Hardo Pharwal-Pz	0.10		-3.10	0.20
399	JALANDHAR	Hardo Sheikh-Pz	0.30		-3.30	-2.55
400	JALANDHAR	Jalandhar 3(vs)	-1.92	13.45	1.56	-0.41
401	JALANDHAR	Jalbhe				-0.20
402	JALANDHAR	Jandiala-Pz	0.23		-3.04	-2.34
403	JALANDHAR	Jandu Singha-Pz	0.40		-4.30	-2.90
404	JALANDHAR	Janian-Pz	-0.35		-4.25	-3.65
405	JALANDHAR	Kala-Pz	0.90		-3.00	-1.00
406	JALANDHAR	Kalyanpur-Pz	-0.25		-1.45	-0.60
407	JALANDHAR	Kang Sahib Rai-Pz	-0.80		-1.40	-0.40
408	JALANDHAR	Kartarpur 2(s)	-0.67	-0.46	0.12	1.07
409	JALANDHAR	Kharal Kalan Pz-S	0.01		-0.96	-0.29
410	JALANDHAR	Kot Wadal Khan-Pz	0.00		-2.70	-1.30
411	JALANDHAR	Kurla-Pz	-0.90		-3.20	-1.40
412	JALANDHAR	Lallian kalan Pz-S	-2.16		-1.25	-0.66
413	JALANDHAR	Mahmuwal-Pz	-1.15		-1.60	-0.40
414	JALANDHAR	Mehsampur-Pz	-0.10		-1.10	0.30
415	JALANDHAR	Nakodar 2(m)	1.66	-5.55	-6.95	
416	JALANDHAR	Nangal Shaman	-0.45		-1.65	-0.85
417	JALANDHAR	Nasirpur-Pz	-0.50		-1.15	-0.40
418	JALANDHAR	Nussi-Pz	1.40		-3.30	-1.60
419	JALANDHAR	Pathial-Pz	0.60		-2.10	-1.20
420	JALANDHAR	Pharwala-Pz	-0.20		-2.80	-1.85
421	JALANDHAR	Rahimpur-Pz	1.60		-4.80	-2.30
422	JALANDHAR	Rurka Kalan- Pz	-0.20		-1.75	-0.80
423	JALANDHAR	Samarahi-Pz			-1.60	-0.60
424	JALANDHAR	Shahkot-Pz-Pb	-0.65		-2.20	-1.60
425	JALANDHAR	Skarar Pur-Pz	0.80		-6.20	-4.50
426	JALANDHAR	Sultanpur-Pz	-0.40		-0.60	0.40
427	JALANDHAR	Talwan-Pz	-0.20		-2.40	-0.65
428	JALANDHAR	Thanda-Pz	0.25		-1.10	0.10
429	KAPURTHALA	Bauril Harnampur-Pz	-0.84		-2.36	0.34
430	KAPURTHALA	Begowal-Pz	-0.38		-0.62	0.08
431	KAPURTHALA	Bhanoki-Pz	-0.97		-1.93	0.17

432	KAPURTHALA	Bhatnura Khurd- S	0.07	-2.48	0.71	-1.02
433	KAPURTHALA	Bhawanipur-Pz	-1.80		-1.65	0.60
434	KAPURTHALA	Bholath M	0.03	-1.11	-0.46	-0.70
435	KAPURTHALA	Bholath S	-0.24	-0.51	-0.75	-0.17
436	KAPURTHALA	Chakoke-Pz	-0.44		-0.65	0.30
437	KAPURTHALA	Dalla	-1.20			-0.23
438	KAPURTHALA	Hamira-Pz	-0.90		-0.68	0.60
439	KAPURTHALA	Hazipur-Pz	-0.55		-1.50	-0.55
440	KAPURTHALA	Hussainpura-S Pz	-3.37	-2.38	-0.91	2.22
441	KAPURTHALA	Kapurthala2 (s)	-4.82	-0.88	3.00	4.11
442	KAPURTHALA	Karnail Ganju-Pz	-0.16		-1.24	-0.19
443	KAPURTHALA	Kishanpur	-1.90		-5.85	-1.70
444	KAPURTHALA	Maheru-Pz	-1.90		-1.80	1.20
445	KAPURTHALA	Miani Bola-Pz	-0.32		-1.18	-0.28
446	KAPURTHALA	Nathu Chahal-Pz	-1.60		-4.50	-0.80
447	KAPURTHALA	Nurpur Janoa-Pz	-0.23		-0.92	-0.02
448	KAPURTHALA	Phagwara2 (s)	-0.13	-2.41	-1.74	-0.69
449	KAPURTHALA	Rawalpindi-Pz	0.10		-7.70	-3.70
450	KAPURTHALA	Sheikh Manga-Pz	-0.61			
451	KAPURTHALA	Sultapur2 (s)	2.80	-1.60	-4.64	-3.62
452	KAPURTHALA	Talwandi Chaudary -Pz	-1.34	-0.18	0.44	1.01
453	KAPURTHALA	Thikriwali-Pz	-0.36		-0.46	0.29
454	LUDHIANA	Alamgir-Pz	-0.70		-0.90	-0.10
455	LUDHIANA	Aliwal-Pz	-0.11		-0.55	-0.60
456	LUDHIANA	Begowal	-0.08			
457	LUDHIANA	Bhagwanpur-Pz	0.40		-1.40	-0.65
458	LUDHIANA	Bhahlolpur-DW	-0.47	-0.57	0.48	0.34
459	LUDHIANA	Bharthala Randhawa-Pz	-0.90		-1.20	-0.15
460	LUDHIANA	Bhikhi Khatron-Pz	-1.00		-0.26	0.25
461	LUDHIANA	Bilaspur-Pz	-0.15		-0.50	-0.40
462	LUDHIANA	Chaminala-Pz	-0.25		-1.55	-0.75
463	LUDHIANA	Chankian Khurd-Pz	-0.60		-0.95	-0.70
464	LUDHIANA	Chattar Singh Park-Idh	-1.06			-0.92
465	LUDHIANA	Chaunta-Pz	0.75		-0.67	-0.30
466	LUDHIANA	Chhapar-Pz	-0.20		-1.80	-1.10
467	LUDHIANA	Dinnamder-Pz	0.20		-1.50	-1.50
468	LUDHIANA	Dodpur-Pz	-0.32		-0.50	0.30
469	LUDHIANA	Doraha-Pz	-0.23	-0.18	-0.25	-0.23
470	LUDHIANA	Galibkalan-Pz	0.03		-2.63	-0.88
471	LUDHIANA	Gohaur-Pz	-0.55		-0.30	0.25
472	LUDHIANA	Gopalpur 2(s)	0.23	-1.58	-1.80	-1.45
473	LUDHIANA	Hambowal-Pz	0.35		-0.60	-0.50
474	LUDHIANA	Harnampur	-0.70		-1.90	0.10
475	LUDHIANA	Hedon-Pz	1.07		-1.05	-0.25
476	LUDHIANA	Ikloha-Pz	-0.59	-0.93		-0.38
477	LUDHIANA	Jagraon 2(s)			0.10	0.50

478	LUDHIANA	Kalsian	0.30		-1.35	-1.35
479	LUDHIANA	Katanikalan-Pz	-0.40		-0.40	-0.20
480	LUDHIANA	Khandur	0.00		-1.25	-0.80
481	LUDHIANA	Kishangarh-Pz	-0.50		-1.50	-0.30
482	LUDHIANA	Kishanpur-Pz	1.10		-3.77	-2.00
483	LUDHIANA	Lalan1	-4.16		-0.35	0.05
484	LUDHIANA	Lelon-Pz	-0.32		0.20	-0.45
485	LUDHIANA	Lil- II Pz	-0.23	-0.09	2.27	-0.34
486	LUDHIANA	Lil-Pz III	-0.17	0.01	0.39	-0.13
487	LUDHIANA	Lodhiwal-Pz	-0.15		-0.55	-0.56
488	LUDHIANA	Lohara-Pz	-0.40		-0.50	-0.27
489	LUDHIANA	Maksudra-Pz		-1.55	-0.99	
490	LUDHIANA	Manak Majra-Pz	-0.20		-1.35	-1.40
491	LUDHIANA	Mangat-Pz	0.30		-1.65	-1.20
492	LUDHIANA	Manoke-Pz	0.72		-3.18	-2.62
493	LUDHIANA	Mehma Singh Wala-Pz	0.18		-1.78	-1.28
494	LUDHIANA	Mushkabad	-1.22	0.20	0.31	0.45
495	LUDHIANA	Nurpur-Pz	0.30		-2.30	-1.00
496	LUDHIANA	P.A.U.Ludhiana 2(s)	-10.76	4.50	4.37	4.75
497	LUDHIANA	Pabbian-Pz	-0.45		-1.85	-1.25
498	LUDHIANA	Pandori-Pz	-0.90		-2.40	0.20
499	LUDHIANA	Payal-Pz	-0.16		-0.61	-0.34
500	LUDHIANA	Ragba-Pz	-0.57		-1.13	-0.23
501	LUDHIANA	Raikot-Pz	-0.80		-2.35	-0.55
502	LUDHIANA	Rajona Khurd	-0.30		-4.70	-0.80
503	LUDHIANA	Rashiana-Pz	0.20		-2.10	-1.40
504	LUDHIANA	Rashin	0.45		-1.80	-1.00
505	LUDHIANA	Rattewal-Pz	0.00		-2.08	-1.33
506	LUDHIANA	Roomi-Pz	-1.40		-4.55	-0.70
507	LUDHIANA	Sajaywal-Pz	-1.86		-5.59	-0.04
508	LUDHIANA	Samrala 2(s)	-1.17	0.41	-0.05	
509	LUDHIANA	Sanewal-Pz	-0.20		-0.40	
510	LUDHIANA	Sangatpura-Pz	0.10		-1.60	-0.20
511	LUDHIANA	Sherian	-0.22	-0.35	0.05	-0.53
512	LUDHIANA	Sherpur-Pz	-0.89		-0.70	-0.50
513	LUDHIANA	Sidhwan Bet-Pz	0.62	-0.65	-0.45	-1.35
514	LUDHIANA	Talwandi Kalan-Pz	-0.55		-1.30	-0.60
515	LUDHIANA	Udonwal-Pz	-0.55		-0.25	-0.25
516	LUDHIANA	Upplan	0.49		-0.20	0.30
517	LUDHIANA	Utlan			-0.84	1.24
518	MANSA	Aklia-Pz	0.38		-2.94	-0.87
519	MANSA	Alampur Mandran-Pz	-0.50		-0.96	0.06
520	MANSA	Alisher Khurd-Pz	-0.47		-1.15	0.05
521	MANSA	Bahadur Pur-Pz	0.27		-1.13	-0.31
522	MANSA	Bareh-Pz	-0.17		0.06	0.58
523	MANSA	Behniwala-Pz	0.12		-0.53	-0.21

524	MANSA	Bhamme Kalan-Pz	-0.23		-0.35	-0.35
525	MANSA	Bhikhi 2 (s)	-0.13	-0.78		
526	MANSA	Budhlada	0.26	-0.22	-0.39	2.93
527	MANSA	Budhlada-Pz	-0.39	-0.45	-0.42	-0.25
528	MANSA	Burj BhalaIKE	-0.14	1.67		
529	MANSA	Burj Rathi-Pz	0.09		-0.93	-0.27
530	MANSA	Fattamaluka	-0.02	2.58	-0.09	0.05
531	MANSA	Gharangne-Pz	-1.74		-0.48	-0.34
532	MANSA	Hera Wala-Pz	0.03			
533	MANSA	Hero Kalan-Pz	-0.41		-2.37	-1.10
534	MANSA	Hirke-Pz	-0.11		0.88	-0.19
535	MANSA	Khiala Kalan-Pz	-0.12		-0.17	-0.23
536	MANSA	Khokhar Kalan-Pz	0.01		-0.87	-0.25
537	MANSA	Kot Dhamru	-0.23		-0.42	-0.49
538	MANSA	Kotra	-0.18	-0.25	3.60	-0.55
539	MANSA	Kusla-Pz	0.16		-0.35	0.00
540	MANSA	Lakhiwal-Pz	0.36		-1.04	-0.46
541	MANSA	Makha-[PZ]			-0.07	-0.15
542	MANSA	Phaphare Bhaike-Pz	-0.39		-1.42	0.12
543	MANSA	Raipur-Pz		0.50	0.65	-0.50
544	MANSA	Ralla	-0.51	1.00	-0.48	
545	MANSA	Sangha-Pz	-0.16		-1.48	-1.59
546	MANSA	Tandian-Pz	0.40			
547	MANSA	Tibbi Hari Singh-PZ			-0.34	0.38
548	MOGA	Baje Ke-Pz	-0.70		-0.28	-0.62
549	MOGA	Bilaspur-PZ			-1.30	-0.77
550	MOGA	Budh Singh Wala-Pz	-0.11	-2.34	-1.74	-0.69
551	MOGA	Chand Nawan-PZ			-1.70	-1.00
552	MOGA	Chogawan-Pz	0.20	-2.00	-2.00	-3.42
553	MOGA	Dagru- Pz	0.77	-0.73	-2.63	-0.80
554	MOGA	Damru Khurd	-0.05	-1.53	-2.53	-1.06
555	MOGA	Darapur 07pz	-1.97	-2.47	1.48	2.28
556	MOGA	Daulatpur Niwan-Pz	-0.30		-1.90	-0.90
557	MOGA	Dhudi Ke-PZ			-1.90	-1.30
558	MOGA	Dinna-PZ			-1.50	-1.00
559	MOGA	Himatpura-Pz	0.50		-1.55	-0.85
560	MOGA	Indergarh-Pz			-0.27	-0.15
561	MOGA	Jhandewala-Pz	0.50		-1.80	-1.25
562	MOGA	Kamalke-Pz			-1.06	-1.00
563	MOGA	Khokri Kalan-Pz	0.95		-1.85	-1.15
564	MOGA	Khosa Randhir-Pz			-1.22	-1.15
565	MOGA	Mandar-Pz			-1.20	-1.10
566	MOGA	Mangewala-Pz	0.30		-1.20	-0.50
567	MOGA	Meemana-PZ			-1.45	-0.80
568	MOGA	Mehron-PZ			-1.30	-0.50
569	MOGA	Nathu Wala-Pz	0.40		-1.45	-0.90

570	MOGA	Nihalsinghwala-Pz	0.10	-0.78	-2.01	-1.35
571	MOGA	Raonke Kalan-Pz	0.50		-1.55	-1.05
572	MOGA	Samad Bhai-Pz	0.50		-1.55	-1.10
573	MOGA	Samalsar-Pz	-0.30		-1.40	-0.80
574	MOGA	Thathe Bhai-Pz	-0.20		-1.40	-0.90
575	MOGA	Tota Singh Wala-Pz			-1.24	-1.15
576	MOGA	Abulkharana-Pz	-0.30		-0.25	0.25
577	MOGA	Balocha Khera(rasoolpur)	0.92	-1.70	-0.30	-0.10
578	MOGA	Bhaliana	1.20	-0.99	-0.69	-1.19
579	MOGA	Bhiti Wala-Pz	-0.14		-0.86	0.14
580	MOGA	Chaktam Kot-Pz	-0.24		-0.39	0.21
581	MOGA	Dhalkot-Pz	0.06		-0.41	0.49
582	MOGA	Doda	1.90	0.31	2.01	-1.96
583	MOGA	Doda-Pz	0.27	0.31	0.67	-0.57
584	MOGA	Husnar-Pz	-0.03		-0.30	0.30
585	MOGA	Kabar Wala	0.64	-1.21	0.02	-0.94
586	MOGA	Kattianwali-Pz	-0.48		0.00	0.20
587	MOGA	Khirkian Wala-Pz	-0.20		-0.08	-0.10
588	MOGA	Khunde Halal-Pz		-1.97	0.80	-0.07
589	MOGA	Killian Wali-Pz	-0.03		-0.02	0.08
590	MOGA	Kollian Wali-pz	-0.16		-0.57	-0.17
591	MOGA	Labanianwali	1.39	-1.37	-0.87	-2.44
592	MOGA	Lambi	1.50	-1.57		-1.56
593	MOGA	Lambi-Pz	0.22	-1.41	-0.55	-0.62
594	MOGA	Muktsar	-0.08	1.23	1.48	-0.03
595	MOGA	Phulu Khera-Pz	-0.05		-0.45	0.05
596	MOGA	Ratta Khera Chota-Pz	-0.31		0.09	-0.46
597	MOGA	Sheikh-Pz	-0.29		-0.46	-0.01
598	MOGA	Alowal-Pz	-0.30		-0.40	0.10
599	MOGA	Aur-PZ			-0.90	0.00
600	MOGA	Badhwan-Pz	0.75		-1.40	
601	MOGA	Baharam-Pz	-0.10		-3.10	-2.90
602	MOGA	Bahara-Pz	-0.80		-1.10	-0.60
603	MOGA	Bahlora Kallan- Pz	-0.07	0.11	0.19	0.25
604	MOGA	Bahua-Pz	0.80		-2.10	-1.00
605	MOGA	Balachore			1.46	
606	MOGA	Balaipur-PZ			-3.20	-2.20
607	MOGA	Bhadi-PZ			-2.00	
608	MOGA	Dhan Wala-PZ			-1.80	
609	MOGA	Dugri Garol-PZ			-1.50	
610	MOGA	Hakimpur-Pz	0.30		-2.10	-1.00
611	MOGA	Jethu Majra-PZ			-0.95	-0.10
612	MOGA	Kariam-Pz	0.10		-0.70	0.00
613	MOGA	Langoya-PZ			-0.50	0.50
614	MOGA	Mahalpur-PZ			-2.15	

615	MOGA	Mauhra-Pz	-0.89	0.29	-0.38	0.77
616	MOGA	Padmaiwal-PZ			-3.50	-2.50
617	MOGA	Rahon	-0.15		-0.63	-0.43
618	MOGA	Raipur Dhaba-Pz	0.77	-0.40	-2.37	-2.12
619	MOGA	Torewal-PZ		-2.83	-4.90	-4.10
620	PATIALA	Antala		1.90	-0.50	-1.19
621	PATIALA	Ballopur			-0.50	-0.45
622	PATIALA	Barauli-PZ			2.75	
623	PATIALA	Bhankhar-Pz			-0.50	-0.30
624	PATIALA	Birkauli	0.44	-6.09	-4.37	
625	PATIALA	Challeta-PZ			-0.70	-1.10
626	PATIALA	Chandiala-Pz	-0.35		-1.85	
627	PATIALA	Dera Bassi 07pz	-0.24		-0.13	-0.05
628	PATIALA	Devigarh 1Pz	0.10	3.40	-4.31	-2.45
629	PATIALA	Devigarh IIPz	0.41	-4.12	-2.35	-1.53
630	PATIALA	Devigarh-III Pz	0.46	-6.45	-3.95	-2.15
631	PATIALA	Dhakdaba 07	-1.09	-0.55	-1.23	-2.00
632	PATIALA	Dhaneta-PZ			-0.40	0.35
633	PATIALA	Gharam-PZ			-0.15	0.15
634	PATIALA	Gulwatti-PZ		-1.78	-0.25	0.35
635	PATIALA	Haluka			-1.96	-2.00
636	PATIALA	Handesaran-s			-1.89	-0.15
637	PATIALA	Harion Kalan-Pz	0.25		0.00	0.35
638	PATIALA	Jainagar-PZ			-1.80	-2.40
639	PATIALA	Joli		-0.01	-1.16	-0.05
640	PATIALA	Kakrala-Pz	0.50		-0.55	0.15
641	PATIALA	Kalyan 07pz	-0.25	-1.45	-1.41	-1.26
642	PATIALA	Kami Kalan	-0.41	0.45	0.18	-0.26
643	PATIALA	Kami Khurd-PZ			0.30	1.00
644	PATIALA	Kheri Pandte-PZ			-0.80	-2.25
645	PATIALA	Kulburcha-Pz	-1.00		-0.60	0.25
646	PATIALA	Kutha Kheri-Pz			-3.00	-3.75
647	PATIALA	Lacharu Kalan	0.70	0.20	0.02	
648	PATIALA	Lachkani-Pz	-0.77	-1.75	-0.96	-0.89
649	PATIALA	Mehmood Pur-PZ			-1.95	-1.45
650	PATIALA	Miranpur- Pz	1.99	-3.70	-4.12	-2.68
651	PATIALA	Mongowal-PZ			-0.40	0.05
652	PATIALA	Nanhera-Pz			-0.50	-0.30
653	PATIALA	Passiana-PZ			-0.60	-0.10
654	PATIALA	Patran-Pz	-1.82	-0.32	-0.80	-0.95
655	PATIALA	Rajpura-PzSt	0.37	5.01	-5.22	-1.17
656	PATIALA	Rasoolpur Jaura-PZ			-0.65	-1.20
657	PATIALA	Samana-Pz	0.21	-1.29	-1.70	-1.68
658	PATIALA	Samaspur-Pz	-2.00		-0.55	0.50
659	PATIALA	Sangatpura-Pz	1.44	-5.88	-13.36	-5.20
660	PATIALA	Sauja-PZ			-0.05	0.15

661	PATIALA	Singhpura-Pz	0.05		-1.75	
662	PATIALA	Sirsini		1.00	0.60	0.68
663	PATIALA	Surala Kalan-PZ			-0.25	0.15
664	PATIALA	Thua	0.84	-1.82	-1.89	-1.59
665	RUPNAGAR	Ahmedpur	1.74	-4.50	0.25	-1.37
666	RUPNAGAR	Amrali-PZ			-0.45	0.71
667	RUPNAGAR	Attari-PZ			-0.50	-0.65
668	RUPNAGAR	Bains	-1.10		-1.20	-1.45
669	RUPNAGAR	Balongi-PZ			-1.95	-1.70
670	RUPNAGAR	Bera Chauta	-0.30		0.75	0.50
671	RUPNAGAR	Bhatto-PZ			-0.70	-0.70
672	RUPNAGAR	Braham Pur	-0.50	1.08	-1.03	0.12
673	RUPNAGAR	Chakdera	-2.30	-0.10	0.50	0.80
674	RUPNAGAR	Dhair	-4.30	1.40	4.55	4.25
675	RUPNAGAR	Dheri	0.20	-0.60	-0.30	-0.70
676	RUPNAGAR	Dumewal	-2.85	0.00	0.35	0.60
677	RUPNAGAR	Gharoon	-1.85		-1.90	0.45
678	RUPNAGAR	Ghoga	-1.47	2.35	2.63	1.37
679	RUPNAGAR	Hardinamoh	-1.00	1.73	1.12	1.10
680	RUPNAGAR	Kotla	-0.60		-0.30	-0.20
681	RUPNAGAR	Kurrha-Pz	0.00		-0.50	-0.15
682	RUPNAGAR	Landran		-0.68	-1.24	-1.08
683	RUPNAGAR	Landran-Pz	-3.47	-0.63	-0.70	0.14
684	RUPNAGAR	Malkpur-Pz	-2.70			0.15
685	RUPNAGAR	Manoli-PZ			-1.10	-0.95
686	RUPNAGAR	Morinda-PZ			-0.47	-0.35
687	RUPNAGAR	Palheri-PZ			-0.85	-1.65
688	RUPNAGAR	Pedol-PZ			-2.15	0.50
689	RUPNAGAR	Raipur Kalan	-0.75		-0.25	-0.10
690	RUPNAGAR	Rajgiri-PZ			-1.50	-2.00
691	RUPNAGAR	Rurki Heeran-Pz	-1.39	-0.83	0.17	0.68
692	SANGRUR	Amla Singh Wala-PZ			-1.30	-1.10
693	SANGRUR	Bagarian-Pz	0.12	-1.39	-1.42	-0.94
694	SANGRUR	Bakshiwala-PZ			-0.15	0.10
695	SANGRUR	Balang-PZ			-0.40	-0.05
696	SANGRUR	Banbhaura-PZ				0.25
697	SANGRUR	Barnala (s)	-0.16	0.52	-1.51	-1.80
698	SANGRUR	Bhadaur-Pz	-0.51	-1.23	-1.98	-1.30
699	SANGRUR	Bhojowali-Pz	0.43	-4.72	-3.52	-2.02
700	SANGRUR	Bhunerheri-PZ			-1.15	-1.05
701	SANGRUR	Bopla-PZ			-3.55	-3.45
702	SANGRUR	Bugra 1	0.19		-1.96	-1.07
703	SANGRUR	Chatha Nanhera-PZ			-0.10	0.25
704	SANGRUR	Chural Kalan M	0.03	-1.80	-1.88	-1.38
705	SANGRUR	Dharamgarh-Pz	-2.15		-0.50	-0.15
706	SANGRUR	Ghaghlo-PZ			-0.25	0.20

707	SANGRUR	Ghanauri Kalan-Pz	-0.07	-5.38	-1.70	-1.40
708	SANGRUR	Hassanpur-Pz	-3.30		-1.20	-0.60
709	SANGRUR	Kala Jhar-Pz	-1.60		-0.40	0.15
710	SANGRUR	Khanpur Fakiran-PZ			-1.70	-2.00
711	SANGRUR	Kheri Naran-PZ			-0.15	0.05
712	SANGRUR	Khurni-PZ			-1.80	-1.85
713	SANGRUR	Kila Hakima			-1.10	-0.70
714	SANGRUR	Kokahar-PZ			-0.20	-0.35
715	SANGRUR	Kuler Khurd-Pz	-0.25		-0.10	0.20
716	SANGRUR	Kurar-Pz	-1.10		-1.60	-1.60
717	SANGRUR	Lehal Kalan-Pz	-2.27		-1.30	-1.00
718	SANGRUR	Lohgarh-Pz	-0.80		-1.50	-0.90
719	SANGRUR	Longowal-Pz	-0.16	-0.67	-0.82	-0.86
720	SANGRUR	Malerkotla-DW	0.30	-2.08		-2.27
721	SANGRUR	Manvi-Pz	1.34	-3.50	-3.58	-4.20
722	SANGRUR	Mehsampur-Pz	-1.53		-0.20	-0.10
723	SANGRUR	Nangal-Pz	-1.06		-1.54	-1.24
724	SANGRUR	Pakho Ke-Pz			-1.10	-0.50
725	SANGRUR	Panjgaraian- Pz	-2.55		-1.75	-0.75
726	SANGRUR	Patiala Kalan-PZ			-0.35	0.30
727	SANGRUR	Rajo Majra-PZ			-1.10	-1.20
728	SANGRUR	Ramgarh-Pz	-0.80		-1.00	-0.80
729	SANGRUR	Rurgarh-PZ			-1.50	-1.50
730	SANGRUR	Rurki Kalan-Pz	-0.37		-2.00	-0.80
731	SANGRUR	Sekhpur Khurd-PZ			-1.10	-1.10
732	SANGRUR	Sekhwas-PZ			-1.30	-1.00
733	SANGRUR	Shekha	-1.06		-1.04	-0.44
734	SANGRUR	Sikandarpur-PZ			-1.30	-1.10
735	SANGRUR	Sunam-Pz	-0.71	-0.79	-1.12	-1.08

Annexure-3						
Sr No.	District	Location	May 2015 - May 2016	Aug 2015 - Aug 2016	Nov 2015 - Nov 2016	Jan. 2016 - Jan. 2017
1.	Chandigarh	Burail	0.35	-0.22	-0.10	-0.16
2.		Csio-Combined	0.75			
3.		Csio-S				-0.71
4.		New Indust Area	-0.57	-1.15	-5.04	-1.13
5.		Sec-27, Ar Well				-1.31
6.		Sect 10c (D)	-2.22	-14.04	-13.00	-12.66
7.		Sect 10c (S)	0.22	-1.25	0.40	11.43
8.		Sect 31d (D)	3.32	-3.38	2.01	-0.93
9.		Sect 31d (S)	-0.51	-0.19	-0.50	-0.21
10.		Sect 37d (S)	1.33	0.04	-0.88	-0.31
11.		Sect 39d (S)	-2.30	-0.74		-0.62

12.		Sect 44d (S)	1.85	-0.44	1.56	-1.38
13.	Amritsar	Aima Khurd-Pz	-0.70		-1.80	-0.70
14.		Ajnala	0.03	-0.35	-0.77	-0.74
15.		Amritsar1	-2.22	-1.68	0.65	-0.58
16.		Attari-Pz	-0.40		-0.60	-0.40
17.		Bakipur-Pz	-1.40		-1.60	-0.35
18.		Bal Kalan-Pz	0.50		-1.80	-1.40
19.		Bath-Pz	-0.20			
20.		Beas07	-0.14		0.18	-1.13
21.		Bhagala-Pz	-2.22			-1.90
22.		Bhagwanpur-Pz			-2.90	-1.70
23.		Bhalaipur-Pz			-0.70	0.30
24.		Bhankar Kalan-Pz	-2.61		-2.10	-0.80
25.		Bhattaywad-Pz	-0.40		-1.80	-1.25
26.		Bhikiwind- Pz	-1.48		-0.33	-0.39
27.		Bhura-Pz	-1.84		-2.50	-1.30
28.		Bhure-Pz	-1.37		-2.20	-1.00
29.		Bhusse-Pz	-1.50		-1.20	-0.30
30.		Boparai Khurd-Pz	-0.30		-1.60	-1.00
31.		Brahmpur-Pz	-1.51		-1.50	-0.80
32.		Chak Dogra-Pz	-0.80		-1.30	-1.40
33.		Chakkare Khan-Pz	-0.90		-0.60	0.20
34.		Chogwan- Pz	2.20	1.91	-0.84	-0.18
35.		Chola Sahib-Pz	0.04	-0.02	-0.15	-0.45
36.		Choudhary Wala-Pz	-1.10		-2.50	-1.30
37.		Chuselawad-Pz	-1.58		-3.10	-1.70
38.		Dholan-Pz	-1.88		-2.20	-1.20
39.		Dhulika-Pz	-0.40		-0.60	-0.20
40.		Dohan-Pz	-0.30		-0.90	-1.10
41.		Ekalgoda-Pz	-2.10		-1.60	-0.40
42.		Gago Mahal- Pz	-0.32	1.02	-0.60	-0.59
43.		Gandi Wind-Pz	-0.83	-0.85		-0.73
44.		Gill Wali-Pz	-0.20		-1.40	-1.30
45.		Goindwal 07	-0.28	-0.36	-0.21	0.05
46.		Jandiala Guru-Pz	-0.32	0.06	-0.46	-0.12
47.		Jandoke-Pz	-1.80		-2.60	-2.20
48.		Jasrur-Pz	-0.50		-1.80	-1.40
49.		Jethuwal-Pz	-0.30		-2.10	-1.90
50.		Kalsia Kalan07	-0.44		-0.82	-0.42
51.		Kandowali-Pz	-0.10		-1.90	-1.90
52.		Karylal-Pz	0.00		-1.00	-0.90
53.		Khadur Sahib-Pz	-0.66		-0.49	-0.53
54.		Khalra-Pz			0.30	1.00
55.		Khilchian-Pz	-0.10		-0.80	-1.00
56.		Kotbudda-Pz	0.50		0.00	0.10
57.		Kotli Sur Singh-Pz			-1.90	-1.20

58.		Mahendipur-Pz	-2.12		-1.80	-2.50
59.		Mahima-Pz				-3.00
60.		Majitha- Pz	0.00		-1.80	
61.		Makhan Windi-Pz	-0.50		-0.80	-0.50
62.		Marhona-Pz	-0.90			-1.10
63.		Mari Kamboke-Pz			-1.00	-0.70
64.		Mehleykey-Pz	-1.30		-2.00	-1.50
65.		Mehta			-1.00	
66.		Mehta-Pz	0.90		-2.00	0.60
67.		Miran Chak-Pz	0.60		0.20	0.30
68.		Mohawa	-0.18	-0.23		
69.		Nangal Sahaul-Pz	-0.60		-1.10	-0.80
70.		Nawan Tanal- Pz	-0.40			-0.88
71.		Pakhpura-Pz	0.30		-0.90	-1.00
72.		Pindan-Pz			-0.30	-0.10
73.		Rajoke-Pz	-1.30		-1.70	
74.		Ramdas-Dw		-0.32	-1.50	-0.59
75.		Rampura-Pz	-0.30			-1.15
76.		Ratoke-Pz	-1.80		-1.19	-1.91
77.		Rupowal Brahmana-Pz	-0.40		-0.80	-1.20
78.		Sabran-Pz	-1.90		-2.20	
79.		Sahab Pura- Pz	0.09	-0.61	-1.07	
80.		Sathiala-Pz	-0.10		-1.10	-1.00
81.		Shabura-Pz	-0.60		-1.60	-1.30
82.		Sham Nagar-Pz	0.20		-1.30	-1.10
83.		Sheron-Pz	-0.60		-1.80	-1.60
84.		Sugga-Pz			-2.10	-1.00
85.		Talwandi Dogra-Pz	-0.80		-0.50	-0.60
86.		Tarsika-Pz	0.80		0.20	0.35
87.		Thatha- Pz	0.37		1.40	-2.80
88.		Ugar Aulakh-Pz	0.70		-0.20	-0.10
89.		Vadala Kalan-Pz	-0.60		-1.50	-1.20
90.		Valtoha	-1.66			
91.		Wandala Bittewad-Pz	0.00		-1.10	-0.60
92.	Bathinda	Ablu	-0.03	-0.60	-0.66	-0.45
93.		Aleke Jalal-Pz	-0.51		-1.31	-0.93
94.		Badiala-Pz	-0.42	1.05	-0.37	-1.25
95.		Bagher Mohabat Singh	0.05		-0.20	0.00
96.		Bahman Kaur Singh-Pz	0.10		-0.40	-0.20
97.		Balianwali-Pz	-2.46		-0.47	-0.61
98.		Balluana1	2.11			-0.23
99.		Balluana-Pz	6.64		-0.54	0.01
100.		Banbhiha-Pz	-0.51			
101.		Bhagibandar	0.26	1.85	-0.21	-0.23
102.		Bugran-Pz	-1.67		-0.15	-1.09
103.		Burj Gill-Pz	-1.55		-0.79	-1.34

104.		Burj-Pz	-0.10		0.15	-0.40
105.		Deratapp	-0.56	-0.05	1.70	
106.		Dhapali1		1.02	-2.08	-0.16
107.		Dhapali-Pz		0.21	-1.57	-1.92
108.		Dialpur Mirza	-0.85	1.07	-1.41	-2.44
109.		Dialpura Bhlaike	-1.18	1.87	0.54	-1.56
110.		Dulle Wala-Pz	-0.97		-1.38	-1.27
111.		Ganga-Pz	-0.35	0.09	2.77	-0.52
112.		Ghudda-Pz	-0.10		-1.25	-0.03
113.		Gill Patti-Dw			-0.60	-0.44
114.		Gulabgarh 1 (Vs)				0.43
115.		Gulabgarh 2 (S)			2.58	
116.		Guru Sar-Pz		0.35		-0.07
117.		Gurusar			1.93	
118.		Harraipur-Pz	-0.19		-0.31	0.25
119.		Jajjal	-0.25	2.14	-2.10	0.20
120.		Jassi Bhagwali	0.09		-0.76	0.03
121.		Jassi Paowali-Pz	-1.12		0.27	0.19
122.		Jhanduke	-2.78		-1.65	-1.48
123.		Kahan Singh Wala-Dw			-1.88	-0.93
124.		Kalla Bandar	0.61	0.78	2.69	2.77
125.		Kalyan Sukha-Pz	-1.25		-1.53	-1.13
126.		Koir Singh Wala-Pz	-0.99		-0.10	-1.39
127.		Kot Bhaktu-Pz	-0.05		0.10	0.10
128.		Kot Guru			-0.55	-0.40
129.		Kot Shamir	1.05	-0.20	-0.62	0.05
130.		Kothaguru-Pz		0.28	-1.25	-2.19
131.		Lalliana-Pz	0.05		-0.45	-0.25
132.		Lehra Dhulkot-Pz	-1.50		-1.06	-2.29
133.		Maihma Bhagwan-Pz	0.12		-0.47	
134.		Maisar Khana	-0.90	-2.17	0.29	0.10
135.		Maisar Khana-Pz	0.00		-1.37	-0.34
136.		Maluka-Pz			-0.70	1.30
137.		Mandi Kalan-Pz	-0.75		-0.53	-0.30
138.		Mehraj-Pz	-0.74		0.19	-0.28
139.		Mehta-Pz	0.02		-0.09	0.29
140.		Multania-Pz	-0.42		-0.06	-0.04
141.		Nahinwala	-0.64	0.30	-0.13	
142.		Nathana-Pz	-1.06		-1.25	-0.65
143.		Nathena-Pz	0.05		-0.15	-0.15
144.		Phul	0.85	1.07		
145.		Phulla1			0.94	
146.		Puhla-Pz				-2.13
147.		Raike Kalan	-0.25	1.91		
148.		Rajgarh Kubey-Pz	0.15		0.30	-0.20
149.		Rampura		0.50		

150.		Rayya-Pz	-1.04		-0.82	-2.42
151.		Salabatpur-Pz	-1.35		0.00	-0.85
152.		Sangat -Pz	0.32			-0.78
153.		Seema-Dw			-1.08	-0.73
154.		Sidhana			-1.63	0.29
155.		Sooch-Pz	0.05		0.82	-0.45
156.		Teona-Pz			-1.10	-0.61
157.		Tungwali-Pz	-0.78		-0.17	0.07
158.	Faridkot	Baja Khana		-0.48	-0.50	-0.35
159.		Bead Sikhawala- Pz	0.00	-0.64		-0.21
160.		Behabal Kalan-Pz	-0.20		0.10	-0.80
161.		Chahd Baja	-0.58			0.06
162.		Chak Kalan-Pz	0.00		-0.40	0.00
163.		Dhaipai-Pz			0.30	0.20
164.		Dhilwan Kalan	0.55	0.07	0.22	-0.20
165.		Dhudi-Pz	-0.93		0.00	-0.10
166.		Dipsinghwala	-0.07	-0.83	-0.32	-0.35
167.		Faridkot-Pz			-0.35	0.13
168.		Fatehgarh-Pz	0.10		-0.20	-0.90
169.		Ghuiana-Pz	0.12		-0.05	-0.15
170.		Karirwali	-0.42	-0.97	-0.81	-1.15
171.		Koharwala- Dw			0.10	0.45
172.		Kot Kapura	-0.35	-0.35	-0.53	-0.50
173.		Matta	-0.53	-0.81	-0.56	0.10
174.		Mehmuana	-0.05	0.32	0.42	0.19
175.		Pahluwala-Pz	-0.95		-1.00	-0.05
176.		Ratti Rori-Pz	0.05		0.20	-0.65
177.		Rorian Kapura-Pz	0.00		-1.00	0.00
178.		Sandhwan-Pz			-1.10	-1.05
179.		Sher Singh Wala- Pz	0.13	-0.08	0.19	-0.03
180.	Fateh Garh	Alipur Sodhian-Pz	-0.60		-0.73	-0.56
181.		Badalialasingh	0.84	-5.76	-2.51	-2.75
182.		Bagga Kalan	-0.90		-0.50	-0.64
183.		Bassi Pathana	0.00	-1.85	3.70	2.20
184.		Bhaghrana	0.44	0.22	-0.33	0.17
185.		Bhateri1	2.18		-1.39	-1.54
186.		Burj	-0.50		-0.45	-0.40
187.		Chandiala-Pz	-0.25		-0.90	-0.90
188.		Chunni Kalan	2.80		-1.00	-0.83
189.		Fatehgarh Sahib-Pz	-3.01	-1.13	-1.53	-0.48
190.		Jai Singh Wala	-0.50		-0.55	-0.45
191.		Jhambela	-0.95		-0.88	1.00
192.		Khara	-0.43		-0.55	
193.		Lohar Majra	-0.45		-0.10	-0.10
194.		Mianpur-Pz	-0.35		-0.40	-0.98
195.		Nalini-Pz	-0.51	-3.05	-1.79	-1.18

196.		Nandpur Kalaur-Pz	-1.50		-1.55	-2.02
197.		Pawala	-0.45	-0.67	3.75	
198.		Sado Majra	-0.60		-0.32	-0.30
199.		Shahpur	-0.50		-0.45	-0.25
200.		Sirhind-Pz	-0.50		-0.65	-0.50
201.		Tahalpur	-0.70		-0.47	-1.10
202.		Talwara	-0.35		-0.20	-0.18
203.		Timber Pur-Pz	0.25		0.33	0.45
204.	Firozpur	Abohar	0.19	-0.44	-0.44	-0.45
205.		Alamgarh	0.38	-1.94	-0.93	-1.23
206.		Bannawala	-0.48	-2.78		-0.74
207.		Bara Mansur Wala-Pz	0.05			
208.		Bazirdpura	0.23	1.00		-2.60
209.		Chak Kandhe Shah-Pz	0.50			
210.		Chamb-Pz	-0.18			
211.		Danewal Satkosi	1.56	-0.43	-1.38	-1.57
212.		Dipulana-Pz	0.07	-0.44	-0.93	-0.86
213.		Dulchi Ke-Pz	0.35			
214.		Ghananga Kalan-Pz	0.13			
215.		Gogiani-Pz	-1.13			
216.		Himmatpura-Pz	0.45			
217.		Jaimal Singhwala Pz	-0.38	1.07	-0.23	-0.19
218.		Jandwala Watan-Pz	-0.15			
219.		Jang-Pz	0.55			
220.		Khere Ki Uttar-Pz	0.14			
221.		Khuiansarwar- Pz	0.11	-2.08	0.35	-0.81
222.		Kundal1	-0.07	-1.08	-0.45	-0.55
223.		Ladhuwala	0.37	0.07		-0.84
224.		Lauhke Kalan- Pz	0.51	-1.55	-0.55	-0.45
225.		Lohere Khurd-Pz	0.10			
226.		Machi Bugra/ Gujran-Pz	-0.15			
227.		Mallanwala Khas-Pz	0.30			
228.		Malluwala-Pz	0.65			
229.		Malsian-Pz	1.43	1.29		-0.98
230.		Malukpur-Pz	0.10			
231.		Mana Singh Wala-Pz	-0.20			
232.		Mohkam Khan Wala-Pz	1.60			
233.		Mohre Wala-Pz	-0.23	-1.16	-0.45	-0.07
234.		Motiwala 07pz	-0.51			
235.		Mudki-Pz	0.05			
236.		Nihalkhera	0.63	-1.38	-1.09	-1.58
237.		Nure-Ki-Uttar 07pz	-0.83	-0.44	-0.62	-1.00
238.		Piyarana	-0.51	-0.15	-0.36	0.03
239.		Rala Hazi- Pz	0.91			
240.		Ramsara-Pz	0.55			
241.		Rukne Wala-Pz	0.10			

242.		Sadhusha Wala-Pz	1.50			
243.		Sham Singhwala-Pz	-0.14	-0.90	-0.63	-0.72
244.		Sherewala-Pz	0.30			
245.		Sitoganno	0.09	-0.63	0.05	-0.05
246.		Sohangarh Ratte	-2.09	0.02	0.10	0.10
247.		Sultan Khan Wala Urf	0.50			
248.		Swah Wala- Pz	-0.25	-0.91	-1.62	-1.18
249.		Talwandi Jalle Khan-Pz	-0.45			
250.		Tibbi Kalan-Pz	3.40			
251.		Tibbi Taiwan Laluwalla	0.29			
252.		Wage Wala-Pz	-0.10			
253.	Gurdaspur	Aulakhkalan	-0.90			
254.		Bamyal		0.82	0.5	-0.14
255.		Bhagowal	-1.52	-1.88	-0.90	-0.32
256.		Bham			-1.25	-1.22
257.		Bhoa	-0.40	1.85	-0.23	-0.17
258.		Bilasbal-Pz	-1.55		-0.70	-0.10
259.		Chahal Kalan-Pz	-0.50		-0.85	-0.40
260.		Chahgill-Pz	0.70		0.30	-0.10
261.		Chone-Pz	-0.10		-0.85	-0.40
262.		Dakoha-Pz	-0.33	-1.32	-1.72	-1.05
263.		Dera Baba Nanak	-0.63	-0.77	0.17	-0.89
264.		Dhianpur	-5.99			
265.		Dinanagar	-3.14	-0.55	-1.00	-3.12
266.		Dostpur-Pz	-0.60		-1.40	-1.40
267.		Dhar Khurd			-0.10	-0.30
268.		Gajikort-Pz	0.00		-0.50	-0.60
269.		Galri	-0.61	0.94	-0.65	
270.		Ghania Ki Bangar- Pz			-1.48	-1.19
271.		Gharotakalan	-3.34	1.24	1.15	1.03
272.		Ghoh Dw		0.12	0.40	-1.23
273.		Ghumani Khurd-Pz	-0.75		-1.00	-1.15
274.		Gurdaspur-Pz	-4.10		-0.40	
275.		Hargobindpur	-5.65		-6.40	
276.		Hargobindpur1			-0.40	
277.		Hassanpur Kalan-Pz	-1.20		-0.95	-0.20
278.		Jandwala			-3.70	-4.20
279.		Jhakolahri	-0.21			0.10
280.		Jhandalbana-Pz	-0.10		-0.20	-0.10
281.		Kahnuwan			-0.20	
282.		Kala Afgana-Pz	-0.60			0.20
283.		Kalanaur-Dw	-0.64		1.47	-1.94
284.		Kalanaur-Pz		-1.87		3.30
285.		Kalerkalan-Pz				-0.55
286.		Kaure-Pz	-1.30		-1.00	0.05
287.		Khan Fatta-Pz			-0.25	

288.		Khanikhui	-0.61	0.12	-0.14	
289.		Khanmalik-Pz	-0.30		-0.60	-0.40
290.		Khatgarh-Pz	-0.90		-1.10	-1.30
291.		Kiari- Dw			0.11	0.15
292.		Kui-Dw			-0.20	-0.32
293.		Lakankala-Pz	-0.50		-0.90	-1.00
294.		Langurwal-Pz	-0.40		-0.30	-0.05
295.		Madipur Fatehgarhchuria	-0.31			-0.10
296.		Malikpur			0.00	-0.10
297.		Malikpur-Pz	0.80		-0.15	-0.40
298.		Mallewal-Pz			-0.70	-0.70
299.		Maman-Pz	-1.00		-0.90	-0.90
300.		Masana-Pz	-0.20		-1.00	-1.05
301.		Massit-Pz	-0.50		-0.40	-0.50
302.		Mirthal	-1.30		-1.15	
303.		Mirthal-Dw			-0.10	
304.		Mirza Jaan-Pz			-0.20	-0.30
305.		Mullowali 1(Vs)		-0.55	-0.58	
306.		Mullowali 2(M)		-2.49	-0.87	-0.67
307.		Muthi			-0.80	-0.60
308.		Nangal-Pz	0.00		0.00	-0.20
309.		Narot Jaimalsingh-Pz	0.70		-0.70	-0.70
310.		Nawan Pind			-0.30	-0.02
311.		Nishayara	-0.75	-0.44	-0.68	
312.		Pandoritalab	-1.33		0.70	-2.09
313.		Parcha-Pz	-0.30		-0.10	0.10
314.		Parmota-Dw			-0.88	-0.67
315.		Pathankot1	0.83	0.31	1.05	0.05
316.		Patti Atwal-Pz	-0.25		-0.75	-0.75
317.		Phulpiara			-0.40	-0.60
318.		Saidowal Kalan-Dw				-0.31
319.		Saleh Chak-S	0.15	0.08	-0.79	-0.53
320.		Salehchak(Vs)		-0.52	-1.32	-0.60
321.		Sarna	-1.40		0.20	-0.44
322.		Sathial-Pz				-0.90
323.		Shahpur Jattan-Pz	-1.00		-0.60	-0.45
324.		Shahpur-Pz	-0.50		-0.40	-0.50
325.		Shezada Kalan-Pz	-0.05		-0.60	-0.65
326.		Shikar-Pz	0.45		0.30	0.25
327.		Tikriwala-Pz	-0.40		-0.60	-0.50
328.	Hoshiarpur	Aallo Batti-Pz	-2.40		-0.65	-0.65
329.		Adowal Garhi-Pz	-1.45	-1.34	-2.74	-2.83
330.		Argowal-Pz	-2.10		-0.70	-0.72
331.		Badla-Pz	-2.20		-1.95	-1.97
332.		Baichan-Pz	-1.40		-1.05	-0.37

333.		Bajwara		-0.35	-1.00
334.		Bajwara-Pz	-0.12	-0.45	-0.50
335.		Barota-Pz		-0.80	
336.		Bhalowal Gujran-Pz		-0.85	-0.75
337.		Bhamnaur	2.09	-1.55	11.23
338.		Bhangala-Chhota-Dw	-1.65	2.75	-0.40
339.		Bhanowal-Pz	-1.20		-0.15
340.		Bhatolian-Pz	-2.50		-0.35
341.		Budhi Pind-Pz	-2.05		-0.70
342.		Chak Sheru-Dw	-1.14	1.10	-0.10
343.		Chohal	0.03	0.82	-0.07
344.		Dadan-Pz	-2.00		-0.65
345.		Dagan-Dw	-0.14	0.87	-1.23
346.		Dallewal-Pz	-2.10		-0.75
347.		Dasuya2 (S)	-0.48		-2.80
348.		Durimiwal	-0.83	-2.46	-0.74
349.		Fattowal-Pz	-1.00		-0.80
350.		Garh Di Wala-Pz		-0.66	-4.63
351.		Garhshankar (S)	-1.46	4.98	-1.50
352.		Grahaya-Pz	-3.30		-0.15
353.		Haler Rampur-Dw	-0.57		-0.89
354.		Hazipur	-0.40		1.06
355.		Ittian-Pz	-1.35		-0.40
356.		Jahidpur-Pz			-0.30
357.		Jalalpur-Pz	-1.00		-0.20
358.		Jattpur-Pz	-1.60		-1.30
359.		Jhir Da Khuh-Dw		-1.40	
360.		Kharkan-Pz			-0.90
361.		Khera-Pz	-27.20		-26.45
362.		Mahil Baltohian-Pz	-3.25		-1.50
363.		Mahilpur-Pz	-1.15	6.93	-0.84
364.		Maranwali-Pz			-2.20
365.		Mianipur-Pz	-1.85		-0.60
366.		Mukerian Dw			-2.29
367.		Naharpur-Pz	-1.30		-0.55
368.		Namoli-Pz			-0.40
369.		Nangal Bihala- Dw	0.10	-3.17	-2.04
370.		Nangal Thathal-Pz	-1.70		-0.60
371.		Pan Khuh-Dw	-0.41		-0.44
372.		Pandori Mehal-Pz	-1.25		-0.90
373.		Parshote-Pz	-1.90		-0.40
374.		Phuglana- Pz		0.08	0.97
375.		Rampur Colony (Hsp) Pz-Medium			-2.13
376.		Samraj Tanda-Dw	-0.51		-1.11
377.		Satnoh-Pz.			-2.20

378.		Sham Chaurasi	2.59	2.38	-1.36	-2.50
379.		Sibo Chak- Dw	-0.70	-1.18	-0.88	-0.38
380.		Simbli- Ow	-2.51	-0.32	0.90	0.60
381.		Simbli-Pz	-0.83	-4.02	-2.16	-2.25
382.		Talwara1	0.43	0.52	0.30	-0.40
383.		Tanda	-1.30		-0.60	
384.		Thakarwala	-1.28		-0.39	-2.17
385.	Jalandhar	Adampur 3(S)	0.93	-0.11	-1.00	-0.75
386.		Adarman-Pz	-0.75		-0.35	-0.15
387.		Akalpur-Pz	0.55		0.65	-0.70
388.		Allawalpur	-1.80		0.80	-0.67
389.		Bilga-Pz	-0.90		-2.80	-2.60
390.		Billi Chahrami-Pz	-2.30		-0.40	-1.50
391.		Chania-Pz	-1.85		0.45	0.70
392.		Dhanda-Pz	-1.50		-0.75	-1.80
393.		Dhirowal-Pz			-0.70	-0.50
394.		Fateh Jalal-Pz	-2.00		-4.30	-4.30
395.		Gehlan-Pz	-0.70		-1.90	-2.15
396.		Gillian-Pz	0.50		0.05	0.10
397.		Gohiran	-4.52		-3.10	-1.68
398.		Hardo Pharwal-Pz	-0.90		-0.80	0.30
399.		Hardo Sheikh-Pz	0.20		-1.05	-2.25
400.		Jalandhar 3(Vs)	-0.79	16.09	2.61	-2.33
401.		Jandiala-Pz	-2.70		-2.21	-2.11
402.		Jandu Singha-Pz	-1.70		-2.80	-2.50
403.		Janian-Pz	-1.15		-2.90	-4.00
404.		Kakar Kalan-Pz			-0.40	-0.50
405.		Kala-Pz	0.50		0.00	-0.10
406.		Kalyanpur-Pz	-0.75		-0.60	-0.85
407.		Kang Sahib Rai-Pz	-0.60		-0.50	-1.20
408.		Kartarpur 2(S)	-1.63	-0.09	-1.25	0.40
409.		Kharal Kalan Pz-S	-0.79		-0.95	-0.28
410.		Kot Wadal Khan-Pz	-0.20		-1.20	-1.30
411.		Kurla-Pz	-2.20		-2.80	-2.30
412.		Lallian Kalan Pz-S	-1.41		-1.66	-2.82
413.		Mahmuwal-Pz	-1.50		-0.90	-1.55
414.		Mehsampur-Pz	-0.50		-0.15	0.20
415.		Nakodar 2(M)	2.98	-0.91	-2.42	
416.		Nakodar 3(S)				-1.01
417.		Nangal Shaman	-1.65		-0.15	-1.30
418.		Nasirpur-Pz	-1.30		-1.25	-0.90
419.		Nussi-Pz	-0.50		0.30	-0.20
420.		Pathial-Pz	-0.90		-0.85	-0.60
421.		Pharwala-Pz	-0.30		-1.30	-2.05
422.		Phillaur 2(S)		-0.82	-0.60	1.71
423.		Rahimpur-Pz	0.60		0.00	-0.70

424.		Rurka Kalan- Pz	-0.30		0.45	-1.00
425.		Samarahi-Pz	-0.30		0.50	
426.		Shahkot-Pz-Pb	-1.00		-2.10	-2.25
427.		Skarar Pur-Pz	-0.40		-2.30	-3.70
428.		Sultanpur-Pz	-0.90		0.60	0.00
429.		Talwan-Pz	-0.70		-1.00	-0.85
430.		Thanda-Pz	0.70		0.95	0.35
431.		Udhopur	0.80			
432.	Kapurthala	Amanipur-Pz			-2.00	-0.50
433.		Bauril Harnampur-Pz	-1.04		-2.20	-0.50
434.		Begowal-Pz	0.02		-0.20	-0.30
435.		Bhanoki-Pz	-1.37		-1.50	-0.80
436.		Bhatnura Khurd- S	-0.01	2.93	1.45	-0.95
437.		Bhawanipur-Pz	-1.45		-1.15	-1.20
438.		Bholath M	-0.78		1.52	-0.68
439.		Bholath S	0.38	-2.78	-1.48	-0.41
440.		Chakoke-Pz	-0.90		0.22	-0.14
441.		Dalla	-1.30			-1.43
442.		Hamira-Pz	-0.45		-0.88	-0.30
443.		Hazipur-Pz	-0.55		-1.45	-1.10
444.		Hussainpura-S Pz	-2.77	-0.27	-2.98	-1.15
445.		Hussainpura-Vs Pz		-0.64		-0.88
446.		Kapurthala2 (S)		-2.67	1.68	-0.71
447.		Karnail Ganju-Pz	-0.61		-0.75	-0.35
448.		Kishanpur	-4.80		-2.00	-3.60
449.		Maheru-Pz	-2.80		-1.20	-0.70
450.		Miani Bola-Pz	-0.52		-0.40	-0.60
451.		Mithra-Pz			-2.20	-0.20
452.		Nathu Chahal-Pz	-4.39		-2.05	-2.40
453.		Nurpur Janoa-Pz	-0.23		-0.55	-0.25
454.		Paazian-Pz			-2.35	-0.30
455.		Phagwara2 (S)	-2.08	-0.75	-1.47	-0.82
456.		Rawalpindi-Pz	-2.90		-3.50	-3.60
457.		Saiflabad-Pz			-1.10	-0.55
458.		Sangatpur-Pz			-2.10	-3.10
459.		Shalapur Dona-Pz			-0.50	-1.80
460.		Sheikh Manga-Pz	-0.91			
461.		Sultanpur2 (S)	3.63	4.33	-1.06	-0.82
462.		Talwandi Chaudary -Pz	-1.06	0.59	-0.42	-0.33
463.		Thikriwali-Pz	-0.44		-0.20	-0.07
464.	Ludhiana	Alamgir-Pz	0.25		-0.35	-0.80
465.		Aliwal-Pz	-0.40		-0.11	-0.71
466.		Begowal	-0.92			
467.		Bhagwanpur-Pz	1.13		-0.55	-0.25
468.		Bhahlopur-Dw	-1.16	-1.57	-0.76	-0.13
469.		Bharthala Randhawa-Pz	-0.05		-1.12	-1.05

470.		Bhikhi Khatron-Pz	-0.03		-0.86	-0.75
471.		Bilaspur-Pz	-0.10		-0.40	-0.55
472.		Chaminala-Pz	-0.05		-0.90	-1.00
473.		Chankian Khurd-Pz	-0.17		-1.30	-1.30
474.		Chattar Singh Park-Ldh				-1.98
475.		Chaunta-Pz	2.07		1.23	0.45
476.		Chhapar-Pz	-0.03		-0.70	-1.30
477.		Dinnamder-Pz	0.40		-0.70	-1.30
478.		Dodpur-Pz	-0.80		-0.95	-0.02
479.		Doraha-Pz	-0.32	-0.59	-0.59	-0.46
480.		Galibkalan-Pz	-1.18		-0.50	-0.85
481.		Gohaur-Pz	-0.45		-0.55	-0.30
482.		Gopalpur 2(S)	-0.43	-0.46	-1.58	-1.22
483.		Hambowal-Pz			0.70	-0.15
484.		Harnampur	-0.25		-1.40	-0.60
485.		Hedon-Pz	0.95		0.00	0.82
486.		Ikloha-Pz	-0.97	-0.75		-0.97
487.		Kalsian	-0.70		-0.30	-1.05
488.		Katanikalan-Pz	0.10		-0.70	-0.60
489.		Khandur	-0.84		-0.75	-0.80
490.		Kishangarh-Pz	0.30		-1.50	-0.80
491.		Kishanpur-Pz	-0.10		-2.62	-0.90
492.		Lalan1	-2.15			-4.11
493.		Lelon-Pz	0.18		0.10	-0.77
494.		Lil- li Pz	0.97	0.32	1.67	-0.57
495.		Lil-Pz lii	-0.52	-0.64	-0.13	-0.30
496.		Lodhiwal-Pz	-0.20		-0.12	-0.71
497.		Lohara-Pz	-0.45		-0.45	-0.67
498.		Maksudra-Pz	-0.44	-2.12		
499.		Manak Majra-Pz	0.76		-0.65	-1.60
500.		Mangat-Pz	0.77		-1.05	-0.90
501.		Manoke-Pz	-1.18		-0.66	-1.90
502.		Mehma Singh Wala-Pz	-0.02		-0.60	-1.10
503.		Mushkabad	-1.26	-0.48	-1.47	-0.77
504.		Nurpur-Pz	-1.10		-1.20	-0.70
505.		P.A.U.Ludhiana 2(S)	-6.02		-0.73	-6.01
506.		Pabbian-Pz	-0.65		-1.75	-1.70
507.		Pandori-Pz	-0.84		-2.55	-0.70
508.		Payal-Pz	-0.51		-0.42	-0.50
509.		Punjeta			-1.04	-0.73
510.		Ragba-Pz	-0.37		-0.70	-0.80
511.		Raikeot-Pz	-1.25		-0.60	-1.35
512.		Rajona Khurd	-0.88		-2.10	-1.10
513.		Rashiana-Pz	0.60		-1.00	-1.20
514.		Rashin	-0.78		-0.95	-0.55
515.		Rattewal-Pz	-0.90		-0.95	-1.33

516.		Roomi-Pz	-2.80		-2.85	-2.10
517.		Sajaywal-Pz	-2.31		-1.60	-1.90
518.		Samrala 2(S)	-4.95	-3.24	-1.16	
519.		Sanewal-Pz	-0.18		-0.55	-0.40
520.		Sangatpura-Pz	1.82		-0.02	
521.		Sherian	-0.21	-0.61	-0.30	-0.75
522.		Sherpur-Pz	-0.52		-1.45	-1.39
523.		Sidhwan Bet-Pz	1.27	-0.02	1.25	-0.73
524.		Talwandi Kalan-Pz	-0.94		-0.75	-1.15
525.		Udonwal-Pz	-0.53		-0.62	-0.80
526.		Upplan	0.83		0.20	0.79
527.		Utlan	-2.08			
528.	Mansa	Aklia-Pz	-0.49		-1.82	-0.49
529.		Alampur Mandran-Pz	-0.26		-0.52	-0.44
530.		Alisher Khurd-Pz	-0.84		-0.92	-0.42
531.		Bahadur Pur-Pz	-0.52		-0.80	-0.04
532.		Bareh-Pz	-0.16		0.15	0.41
533.		Behniwala-Pz	-0.16		-0.17	-0.09
534.		Bhamme Kalan-Pz	-0.48		-0.38	-0.58
535.		Bhikhi 2 (S)		-1.00		
536.		Budhlada	-0.69		2.62	3.19
537.		Budhlada-Pz	-0.95	0.10	-0.51	-0.64
538.		Burj BhalaIKE	-0.52	1.38		
539.		Burj Rathi-Pz	-0.62		-0.24	-0.18
540.		Fattamaluka	-0.01	2.61	0.14	0.03
541.		Gehlan-Pz			-0.74	-0.03
542.		Gharangne-Pz	0.20		-0.08	-2.08
543.		Hera Wala-Pz	0.13			
544.		Hero Kalan-Pz	-0.74		-2.02	-1.51
545.		Hirke-Pz			1.68	-0.30
546.		Khiala Kalan-Pz	-0.31		-0.11	-0.35
547.		Khokhar Kalan-Pz	-0.07		1.42	-0.24
548.		Kot Dhamru	-1.18		-0.94	-0.72
549.		Kotra	-1.38	-4.73	3.67	-0.73
550.		Kusla-Pz	-0.65		-0.31	0.16
551.		Lakhiwal-Pz	-0.19		-0.51	-0.10
552.		Mansa			-0.52	
553.		Phaphare Bhaike-Pz	-0.51		-0.94	-0.27
554.		Raipur-Pz	-0.05		0.19	
555.		Ralla	-0.64		-0.94	
556.		Sangha-Pz				-1.75
557.		Tandian-Pz	-0.04			
558.	Moga	Baje Ke-Pz	-1.02		2.22	-1.32
559.		Baraghari-Pz			0.70	0.20
560.		Bilaspur-Pz				
561.		Budh Singh Wala-Pz	-0.66	0.34	-0.91	-0.80

562.		Chand Nawan-Pz				
563.		Chogawan-Pz	-1.58	-0.10	-0.73	-3.22
564.		Dagru- Pz	-1.00	0.85	-0.80	-0.03
565.		Damru Khurd				-1.11
566.		Darapur 07pz			0.80	0.32
567.		Daulatpur Niwan-Pz	-0.60		-0.45	-1.20
568.		Ghoha Khurd-Pz			0.10	
569.		Himatpura-Pz	-0.70		0.05	-0.35
570.		Indergarh-Pz	-1.63			
571.		Jhandewala-Pz	-0.30		-0.30	-0.75
572.		Kamalke-Pz	-0.45			
573.		Khokri Kalan-Pz	-0.15		0.50	-0.20
574.		Khosa Randhir-Pz	-0.10			
575.		Mandar-Pz	0.38			
576.		Mangewala-Pz	-1.00		0.20	-0.20
577.		Nathu Wala-Pz	-0.70		0.25	-0.50
578.		Nihalsinghwala-Pz	-1.17	0.05	-1.29	-1.25
579.		Raonke Kalan-Pz	-0.10		0.25	-0.55
580.		Samad Bhai-Pz	-0.50		-0.15	-0.60
581.		Samalsar-Pz	-1.20		-0.40	-1.10
582.		Thathe Bhai-Pz	-0.50		-0.20	-1.10
583.		Tota Singh Wala-Pz	0.06			
584.	Muktsar	Abulkharana-Pz	-0.10		-0.25	-0.05
585.		Alam Wala			-1.00	-0.40
586.		Balocha Khera	0.12	-2.10	-0.77	0.82
587.		Bariwala-Pz		-0.35		
588.		Bhaliana	-0.12		-0.26	0.01
589.		Bhiti Wala-Pz	-0.24		-1.10	0.00
590.		Chaktam Kot-Pz	0.04		-0.05	-0.03
591.		Dhalkot-Pz			0.50	0.55
592.		Doda	1.17		1.00	-0.06
593.		Doda-Pz	1.01	0.10	0.36	-0.30
594.		Husnar-Pz	-0.10		-0.33	0.27
595.		Jhurar-Pz			0.06	-0.05
596.		Kabar Wala	-0.22	-0.63		-0.30
597.		Kattianwali-Pz	0.10		-0.35	-0.28
598.		Khirkian Wala-Pz			0.22	-0.30
599.		Khunde Halal-Pz	0.11	-1.97	0.63	
600.		Killian Wali-Pz	0.92		1.05	0.05
601.		Kolian Wali-Pz	-0.03		-0.80	-0.33
602.		Kot Bhai- Dw			-1.53	-0.05
603.		Labanianwali	0.81	-0.21	-0.06	-1.05
604.		Lambi	0.57			-0.06
605.		Lambi-Pz	0.40	-0.56	0.05	-0.40
606.		Muktsar	-0.11	1.26	0.38	-0.11
607.		Phulu Khera-Pz	-0.10		-0.40	0.00

608.		Ratta Khera Chota-Pz	0.06		-0.40	-0.77
609.		Sheikh-Pz	0.11		-0.30	-0.30
610.	Nawanshahr	Alowal-Pz	-0.30		0.10	-0.20
611.		Badhwan-Pz	0.40		1.10	
612.		Baharam-Pz				-3.00
613.		Bahara-Pz	-1.30		0.10	-1.40
614.		Bahlora Kallan- Pz	-0.39	0.59	-0.64	0.18
615.		Bahua-Pz	0.20		0.40	-0.20
616.		Balachore	-2.56		1.38	
617.		Hakimpur-Pz	-0.20		-0.10	-0.70
618.		Jethu Majra-Pz				0.10
619.		Kariam-Pz	0.00		0.10	
620.		Mauhra-Pz	-1.44	-0.73	-1.52	-0.12
621.		Rahon	-0.08	-0.37	-0.61	-0.58
622.		Raipur Dhaba-Pz	-0.15	-1.26	-1.87	-1.35
623.	Patiala	Ballopur	0.50		0.20	
624.		Bhankhar-Pz	-1.92		-1.30	
625.		Bhojo Majri 07pz		-2.19	-4.00	2.54
626.		Birkauli	-0.13		-2.61	
627.		Chandiala-Pz	0.20		-1.90	
628.		Dera Bassi 07pz	0.28		5.03	-0.29
629.		Devigarh 1pz	-1.05	8.22	-5.47	-2.36
630.		Devigarh lipz	-2.15	-5.00	-1.86	-1.12
631.		Devigarh-lii Pz	-2.16		-2.80	-1.70
632.		Dhakdaba 07	-8.85	-9.46	-3.39	-3.09
633.		Haluka			-1.72	
634.		Harion Kalan-Pz			-0.65	0.60
635.		Joli			-2.33	
636.		Kakrala-Pz	-1.40		-0.75	0.65
637.		Kalyan 07pz	-0.92	-1.71	-1.45	-1.51
638.		Kami Kalan	-0.07	0.18	15.63	-0.67
639.		Kulburcha-Pz	-2.35		-2.05	-0.75
640.		Kutha Kheri-Pz	-2.10		-4.95	
641.		Lacharu Kalan	0.05	0.03	0.52	
642.		Lachkani-Pz	-2.16	-1.59	-1.27	-1.66
643.		Miranpur- Pz	2.43		0.25	-0.69
644.		Nanhera-Pz	-1.50		-1.40	
645.		Patran-Pz	-1.38	-1.81	-2.42	-2.77
646.		Rajpura Pz M				-0.81
647.		Rajpura-Pzst	3.02		-2.45	
648.		Samana-Pz	-0.92	-1.32	-1.27	-1.47
649.		Samaspur-Pz	-0.85		-1.70	-1.50
650.		Sangatpura-Pz	2.73			-3.76
651.		Singhpura-Pz	-2.80		-2.05	
652.		Surala Kalan-Pz				-0.75
653.		Thua	-4.19	-0.91	-0.88	

654.	Rupnagar	Ahmedpur	-0.90	-2.54	1.34	0.37
655.		Bains			-2.45	-2.55
656.		Bera Chauta	-0.28		0.48	0.20
657.		Bhalan		-2.53		-1.57
658.		Braham Pur	-0.33	-0.75	-1.13	-0.39
659.		Chakdera	-0.50	-0.99		-1.50
660.		Dhair		-3.90		-0.05
661.		Dheri	3.60	-0.12	-0.46	-0.50
662.		Dumewal	-0.35	-3.00	-2.90	-2.25
663.		Gharoon	-0.90		-2.20	-1.40
664.		Ghoga	-0.02	0.22	-0.19	-0.10
665.		Hardinamoh	-0.50	-0.38	0.02	0.10
666.		Kotla			-0.75	-0.80
667.		Kurrha-Pz	-3.30		-1.90	-0.15
668.		Landran			-2.39	
669.		Landran-Pz	2.40	0.49	-1.74	-3.33
670.		Malkpur-Pz	0.20			-2.55
671.		Raipur Kalan	-0.85		-1.05	-0.85
672.		Rurki Heeran-Pz	-1.13	0.62	-0.92	-0.71
673.	Sangrur	Bagarian-Pz	-1.01	-2.44	0.47	
674.		Bakshiwala-Pz				-0.82
675.		Barnala (S)	-1.65	-0.05	-1.31	-1.96
676.		Bhadaur-Pz	-1.98	-0.45	-1.63	-1.81
677.		Bhojowali-Pz	-0.68	-2.48	-2.50	-1.59
678.		Bugra 1	0.38		-0.92	-0.88
679.		Chural Kalan M	-1.17	-3.07	-1.45	-1.35
680.		Dhanaula	-1.20			
681.		Dharamgarh-Pz	-2.72		-2.83	-2.30
682.		Ghanauri Kalan-Pz	-1.20	-4.86	-2.30	-1.47
683.		Hassanpur-Pz	-3.78		-4.60	-3.90
684.		Isra-Pz			-5.05	-4.45
685.		Kala Jhar-Pz			-2.15	-1.45
686.		Kuler Khurd-Pz	-1.33		-0.86	-0.05
687.		Kurar-Pz	-2.30		-1.30	-2.70
688.		Ladda-Pz		-3.44		
689.		Lehal Kalan-Pz	-2.70		-3.63	-3.27
690.		Lohgarh-Pz	-1.26		-1.10	-1.70
691.		Longowal-Pz	-1.30	-1.16	-1.16	-1.02
692.		Mahal Kalan-Pz		0.15	0.89	-2.75
693.		Malerkotla-Dw	-0.22			-1.97
694.		Manvi-Pz	1.83	13.98	-2.08	-2.86
695.		Mehsampur-Pz	-1.89		-1.85	-1.63
696.		Nangal-Pz			-1.50	-2.30
697.		Panjgaraian- Pz	-3.17		-4.45	-3.30
698.		Ramgarh-Pz	-1.00		-0.60	-1.60
699.		Rampur Channa-Pz				-1.70

700.		Rurki Kalan-Pz	-0.82		-2.60	-1.17
701.		Shekha	-2.26		-0.80	-1.50
702.		Sikandarpur-Pz			-2.41	
703.		Sunam-Pz	-1.36	-1.08	-1.40	-1.79
704.		Tappa Mandi-Pz				-2.30

Annexure-4

Sr. No.	District	Location	Decadal Mean Water Level Fluctuation			
			May (2006-2015)	August (2006-2015)	November (2006-2015)	January (2007-2016)
			May 2016	August 2016	November 2016	January 2017
1.	CHANDIGARH	Maloya	1.24	2.73	1.71	
2.		NEW INDUST AREA	1.59	3.84	2.63	2.33
3.		Sec-27, Ar Well				3.13
4.		SECT 10C (D)	3.18	0.81	4.31	4.97
5.		SECT 10C (S)	-0.47	1.67		-1.31
6.		SECT 31D (D)	-3.28	3.36	0.64	1.22
7.		SECT 31D (S)	0.79	0.97	-1.60	0.82
8.		SECT 37D (S)	0.07	0.43	0.86	1.01
9.		SECT 39D (S)	1.42	1.75	1.99	1.29
10.		SECT 44D (S)	0.44	0.74		1.36
11.		Sector 52- PZ		-5.83		
12.		Sector-46 (Shallow)	0.90	-0.26	-1.14	0.84
13.	AMRITSAR	Aima Khurd-Pz	1.13		2.05	1.35
14.		Ajnala	0.09	0.06	0.52	0.69
15.		Amritsar1	3.39	1.05	1.74	2.43
16.		Attari-Pz	0.80		1.45	0.84
17.		Bakipur-Pz	1.58		2.58	1.67
18.		Bal Kalan-Pz	-0.15		1.55	1.47
19.		Bath-Pz	0.31		2.78	0.80
20.		Beas07	0.48	0.61	0.82	3.87
21.		Bhagala-Pz	2.63		4.07	2.90
22.		Bhagwanpur-Pz	2.71		1.58	0.63
23.		Bhankar Kalan-Pz	2.69		3.48	2.74
24.		Bhattaywad-Pz	0.35		1.55	1.08
25.		Bhikiwind- Pz	1.90	1.16	1.07	1.25
26.		Bhura-Pz	1.68		3.63	2.75
27.		Bhure-Pz	1.59		3.23	2.32
28.		Bhusse-Pz	1.60		2.35	1.48
29.		Boparai Khurd-Pz	1.02		1.70	0.95
30.		Brahmpur-Pz	1.48		2.63	2.17
31.		Chak Dogra-Pz	0.80		1.35	1.37

32.		Chakkare Khan-Pz	1.00		1.65	0.77
33.		Chogwan- Pz	-2.60	-1.26	0.76	0.34
34.		Chola Sahib-Pz	0.72	0.37	0.99	1.14
35.		Choudhary Wala-Pz	1.17		3.31	2.23
36.		Chuselawad-Pz	2.13		4.24	3.31
37.		Dholan-Pz	1.69		3.05	2.50
38.		Dhulika-Pz	0.25		0.70	0.17
39.		Dohan-Pz	0.85		1.10	1.50
40.		Ekalgoda-Pz	2.19		3.01	2.30
41.		Gago Mahal- Pz	-0.37	-0.57	0.33	0.10
42.		Gandi Wind-Pz	0.79	1.01	2.12	1.16
43.		Gill Wali-Pz	0.60		1.60	2.10
44.		Goindwal 07	0.21	0.92	0.68	0.45
45.		Jandiala Guru-Pz	0.50	-0.17	0.45	0.31
46.		Jandoke-Pz	1.45		4.05	3.47
47.		Jasrur-Pz	0.95		2.15	1.63
48.		Jethuwal-Pz	-0.15		1.90	1.60
49.		Kalsia Kalan07	1.51	1.99	2.31	0.30
50.		Kandowali-Pz	0.30		1.90	1.87
51.		Karyl-Pz	-0.10		0.95	0.97
52.		Khadur Sahib-Pz	0.74	1.04	1.03	1.04
53.		Khalra-Pz	1.00		0.84	0.67
54.		Khilchian-Pz	0.70		1.18	1.37
55.		Kotbudda-Pz	-0.45		0.63	-0.23
56.		Kotli Sur Singh-Pz	2.28		2.84	2.54
57.		Mahendipur-Pz	2.66		1.80	4.84
58.		Majitha- Pz	0.57		1.60	3.13
59.		Makhan Windi-Pz	0.70		1.00	1.27
60.		Marhona-Pz	0.90	0.23	2.57	2.15
61.		Mari Kamboke-Pz	1.74		2.15	2.38
62.		Mehleykey-Pz	1.88		-0.05	0.33
63.		Mehta				1.85
64.		Mehta-Pz	0.45		0.60	1.32
65.		Miran Chak-Pz	0.50		-0.15	0.23
66.		Mohawa	0.23		0.74	0.35
67.		Nangal Sahaul-Pz	0.60		1.35	0.67
68.		Nawan Tanal- Pz	0.34	0.14	2.18	0.56
69.		Pakharpura-Pz	-0.25		1.05	0.93
70.		Pindan-Pz	-0.16		0.65	0.55
71.		Rajoke-Pz	1.19		1.70	
72.		Rampura-Pz	-0.01		1.35	1.32
73.		Ramdas-DW		0.32		0.59
74.		Ratoke-Pz	1.81	1.14	3.54	2.86
75.		Rupowal Brahmana-Pz	1.35		0.70	1.08
76.		Sabran-Pz	1.90		3.50	
77.		Sahab Pura- Pz	0.35	1.41	1.30	1.87

78.		Sathiala-Pz	0.00		1.25	1.00
79.		Shabura-Pz	1.40		2.25	-2.72
80.		Sham Nagar-Pz	-0.15		1.65	1.00
81.		Sheron-Pz	0.55		2.85	2.41
82.		Sugga-Pz	1.75		3.25	2.18
83.		Talwandi Dogra-Pz	3.03		1.15	1.63
84.		Tarsika-Pz	-0.25		0.10	0.88
85.		Thatha- Pz	0.03		-0.95	3.04
86.		Ugar Aulakh-Pz	-0.70		0.30	1.70
87.		Vadala Kalan-Pz	0.60		1.65	1.20
88.		Valtoha	1.66			2.58
89.		Wandala Bittewad-Pz	0.55		1.45	0.50
90.	BATHINDA	Ablu	1.70	2.17	2.43	2.00
91.		Aleke Jalal-Pz	1.55		2.12	1.49
92.		Badiala-Pz	2.34	-0.18	2.07	2.55
93.		Bagher Mohabat Singh- Pz	0.18		0.36	0.32
94.		Bahman Kaur Singh-Pz	0.15		0.34	0.37
95.		Balianwali-Pz	3.45		1.32	2.77
96.		Balluana1	0.63			0.85
97.		Balluana-Pz	-2.84	-2.11	0.86	0.74
98.		Banbhiha-Pz	0.39			
99.		Bhagibandar	0.03	-1.97	0.30	0.17
100.		Bugran-Pz	2.71		0.90	2.72
101.		Burj Gill-Pz	2.65		1.92	3.23
102.		Burj-Pz	-0.06		0.23	0.37
103.		Deratapp	1.26	1.25	-0.37	
104.		Dhapali1	7.19	5.54	8.12	7.48
105.		Dhapali-Pz		2.96	3.49	4.12
106.		Dialpur Mirza	4.99	3.17	7.37	6.61
107.		Dialpura Bhlaike	5.15	2.75	5.83	5.58
108.		Dulle Wala-Pz	1.97		2.37	2.52
109.		Ganga-Pz	0.78	1.17	-0.96	1.24
110.		Ghudda-Pz	0.03		1.25	0.03
111.		Gulabgarh 1 (Vs)	1.55		1.14	1.00
112.		Gill Patti-DW			2.55	2.09
113.		Guru Sar-Pz	0.08	-1.55	-0.17	0.13
114.		Harraipur-Pz	0.62		0.70	0.40
115.		Jajjal	-0.53	-2.81	0.31	-0.95
116.		Jassi Bhagwali	-3.49		-2.44	-2.74
117.		Jassi Paowali-Pz	0.84		-0.18	0.06
118.		Jhanduke	4.71	-0.93	5.77	3.65
119.		Jhanduke-Pz	0.64		2.18	2.35
120.		Kahan Singh Wala-DW			3.31	2.49
121.		Kalla Bandar	-3.64	-3.84	-4.14	-3.19
122.		Kalyan Sukha-Pz	2.03		2.13	2.90

123.		Koir Singh Wala-Pz	1.74		0.28	1.31
124.		Kot Bhaktu-Pz	0.13		0.13	0.21
125.		Kot Guru			0.18	0.30
126.		Kot Shamir	0.22	1.48	1.01	0.36
127.		Kothaguru-Pz	2.57	0.91	2.61	2.71
128.		Lalliana-Pz	0.19		0.43	0.31
129.		Lehra Dhulkot-Pz	2.82		2.17	3.96
130.		Maihma Bhagwan-PZ	0.07		0.47	0.28
131.		Maisar Khana	2.06	4.05	2.77	2.80
132.		Maisar Khana-Pz	-0.13		1.26	0.52
133.		Maluka-Pz	1.91		1.27	-0.87
134.		Mandi Kalan-Pz	2.53		0.95	2.62
135.		Mehraj-Pz	1.82		0.57	1.77
136.		Mehta-Pz	-0.27		0.21	-0.40
137.		Multania-Pz	0.48		0.46	0.43
138.		Nahinwala	2.45	2.32	2.29	
139.		Nathana-Pz	1.54		2.60	1.88
140.		Nathena-Pz	-0.10		0.34	0.24
141.		Phul	7.06	4.67		
142.		Phulla1	4.66	1.29	4.87	5.12
143.		Puhla-Pz				3.75
144.		Raike Kalan	-0.86	-2.09	-1.14	
145.		Rajgarh Kubey-Pz	-1.14		1.02	0.26
146.		Rampura	8.02	4.21		
147.		Rayya-Pz	2.02		1.81	3.40
148.		Salabatpur-Pz	2.21		1.15	1.28
149.		Seema-DW			3.51	1.98
150.		Sangat -Pz	-0.41	-0.80		0.56
151.		Sidhana			2.62	1.48
152.		Sooch-Pz	0.97		0.44	1.85
153.		Teona-Pz			0.69	0.39
154.		Tungwali-Pz	1.30		0.67	0.65
155.	FARIDKOT	Bead Sikhanwala- Pz	0.01	0.31	0.50	0.00
156.		Baja Khana		0.48	0.50	0.35
157.		Behabal Kalan-Pz	0.20		0.15	0.83
158.		Chahd Baja	1.08	0.51	1.17	0.67
159.		Chak Kalan-Pz	0.00		0.15	-0.27
160.		Dhaipai-Pz			-0.26	-0.18
161.		Dhilwan Kalan	0.21	1.00	1.21	1.26
162.		Dhudi-Pz	0.93		0.45	0.08
163.		Dipsinghwala	1.07	1.80	1.27	0.53
164.		Faridkot-Pz			0.50	-0.04
165.		Fatehgarh-Pz	0.20		0.48	1.00
166.		Ghuiana-Pz	-0.27		0.35	-0.22
167.		Karirwali	2.00	2.91	2.98	3.05
168.		Koharwala- DW			-0.10	-0.48

169.		Kot Kapura	0.39	0.94	0.78	0.85
170.		Matta	1.53	1.61	1.35	1.25
171.		Mehmuana	-0.96	-1.12	-1.58	-1.28
172.		Pahluwala-Pz	0.70		1.15	0.63
173.		Ratti Rori-Pz	-0.20		-0.11	0.45
174.		Rorian Kapura-Pz	0.05		1.25	-0.03
175.		Sandhwan-Pz			1.38	0.78
176.		Sher Singh Wala- Pz	0.02	0.51	-0.05	-0.11
177.	FATEH GARH	Alipur Sodhian-Pz	0.75		0.73	0.56
178.		Badalialasingh	0.97	2.88	5.40	3.85
179.		Bagga Kalan	3.22		2.93	3.04
180.		Bassi Pathana	1.83	2.13	2.11	3.06
181.		Bhagrana	-1.49	-1.48	-0.82	-0.89
182.		Bhateri1	2.81		4.28	4.47
183.		Burj	1.22		1.48	1.60
184.		Chandiala-Pz	1.15		0.90	0.90
185.		Chunni Kalan	-2.32	0.47	0.26	0.03
186.		Fatehgarh Sahib			1.00	3.55
187.		Fatehgarh Sahib-Pz	3.34	2.35	2.71	1.97
188.		Jai Singh Wala	2.36		2.27	1.93
189.		Jhambela	1.99		1.92	0.03
190.		Khara	2.80		4.26	
191.		Lohar Majra	2.27		1.80	1.69
192.		Mianpur-Pz	0.70		0.40	0.98
193.		Nalini-Pz	1.41	3.42	2.58	1.54
194.		Nandpur Kalaur-Pz	1.50		1.55	2.02
195.		Pawala	1.78	2.40	-2.42	2.60
196.		Sado Majra	1.59		1.56	1.25
197.		Shahpur	1.72		1.67	1.29
198.		Sirhind-Pz	0.90		0.65	0.50
199.		Tahalpur	2.79		2.55	2.86
200.		Talwara	1.08		1.02	1.04
201.		Timber Pur-Pz	-0.25		-0.33	-0.45
202.	FIROZPUR	Abohar	-0.21	0.57	0.32	0.45
203.		Alamgarh	-0.58	0.77	0.32	0.11
204.		Asifwala-Pz				-0.66
205.		Bannawala	-0.07	0.76	-0.56	0.15
206.		Baman Wali-Pz			-0.31	0.18
207.		Bara Mansur Wala-Pz	0.42		0.76	1.16
208.		Bazirdpura	-1.75	-2.32	-1.81	0.90
209.		Chak Kandhe Shah-Pz	-0.25		-0.88	1.00
210.		Chak Pune Wala-Pz			-0.34	0.67
211.		Chamb-Pz	0.98		0.88	1.74
212.		Danewal Satkosi	-1.42	-0.03	0.01	0.35
213.		Danger Khera-Pz			0.44	0.51
214.		Dipulana-Pz	-0.38	0.57	1.08	0.56

215.		Dulchi Ke-Pz	-0.44		-0.06	0.13
216.		Fattu Wala-Pz			0.06	1.68
217.		Fazilka-Pz			-1.27	-1.49
218.		Ghananga Kalan-Pz	-0.05		1.02	0.65
219.		Godiwala-Pz			0.62	1.02
220.		Gogiani-Pz	1.56		1.22	2.54
221.		Giddran Wali-Pz				0.52
222.		Guru Harsahai-Pz	0.32		1.28	
223.		Hamed Saidoke-Pz			-0.77	-0.16
224.		Himmatpura-Pz	-0.68		-0.90	-0.71
225.		Jaimal Singhwala Pz	-0.11	-0.57	0.19	0.30
226.		Jaimal Wala-Pz			0.04	0.59
227.		Jandwala Watan-Pz	0.19		1.72	1.42
228.		Jand Wala Johian-Pz			1.62	0.89
229.		Jang-Pz	-0.26		1.58	1.61
230.		Kaler Khera-Pz			0.56	0.62
231.		Khere Ki Uttar-Pz	-0.75			
232.		Kandh Wala-Pz			-0.77	-0.69
233.		Khuiansarwar- Pz	-0.21	1.24	-0.41	0.51
234.		Kathgarh-Pz			1.45	2.08
235.		Kundal1	-0.39	0.41	0.02	0.26
236.		Khere Ki Uttar-Pz			-0.33	0.51
237.		Ladhuwala	0.09	0.26	0.49	0.92
238.		Lauhke Kalan- Pz	-0.12	1.92	0.97	1.63
239.		Lohere Khurd-Pz	-0.09		-0.20	0.81
240.		Machi Bugra/ Gujran-Pz	0.25		-0.68	1.23
241.		Mallanwala Khas-Pz	-0.47		-0.59	0.23
242.		Malluwala-Pz	0.10		1.59	2.28
243.		Malsian-Pz	0.63	0.17	1.67	1.95
244.		Malukpur-Pz	0.25		0.65	0.89
245.		Mana Singh Wala-Pz	0.16		1.99	1.52
246.		Markhiwa Bhamni-Pz			1.53	
247.		Mohkam Khan Wala-Pz	-0.45		0.15	0.86
248.		Mohre Wala-Pz	0.04	-0.32	-0.06	-0.24
249.		Motiwala 07pz	0.13	0.11		
250.		Mudki-Pz	-0.03		0.34	0.88
251.		Muradwala Dal-Pz	0.09		0.11	0.57
252.		Nihalkhera	-1.74	-0.45	-0.27	0.24
253.		Nure-Ki-Uttar 07pz	0.37	1.01	0.96	0.96
254.		Pancha Wali-Pz			-1.03	-1.09
255.		Piyarana	0.42	1.16	0.49	0.33
256.		Pattiwalla-Pz			-0.76	-0.72
257.		Rala Hazi- Pz	-0.91		1.25	0.80
258.		Ramsara-Pz	-0.11		0.73	0.82
259.		Roran Wala-Pz			1.19	1.07
260.		Rukne Wala-Pz	0.15		0.15	-2.22

261.		Sadhusha Wala-Pz	-1.35		1.70	2.11
262.		Sham Singhwala-Pz	0.04	0.36	0.21	1.12
263.		Shatriwala-Pz			0.30	0.08
264.		Sherewala-Pz	0.05		0.50	0.66
265.		Singhpura-Pz			0.89	0.72
266.		Sitoganno	-3.07	-2.13	-2.33	-2.50
267.		Sohangarh Ratte	1.52	0.56	0.39	0.44
268.		Sultan Khan Wala Urf	-0.55			
269.		Swah Wala- Pz	-0.06	0.53	1.01	1.17
270.		Talwandi Jalle Khan-Pz	0.45		0.80	2.19
271.		Tibbi Kalan-Pz	-3.39		0.29	0.70
272.		Tibbi Taiwan Laluwalla-Pz	-0.28		0.19	0.18
273.		Wage Wala-Pz	0.45		0.15	0.63
274.	GURDASPUR	Aulakhkalan	1.03			
275.		Bamyal		-0.31	-0.36	0.08
276.		Bhagowal	1.11	2.91	2.90	1.35
277.		Bham	0.90	2.11	2.14	2.04
278.		Bhoa	0.09	-1.74	-0.00	0.15
279.		Bilasbal-Pz	0.92		0.70	0.55
280.		Chahal Kalan-Pz	0.66		0.68	0.73
281.		Chahgill-Pz	-0.65		-0.80	-0.45
282.		Chone-Pz	0.56		0.72	0.65
283.		Dakoha-Pz	0.30	1.13	1.57	1.61
284.		Dera Baba Nanak	-0.74	-0.40	-0.04	-0.42
285.		Dhianpur	4.35		2.59	
286.		Dhar Khurd			-0.15	0.20
287.		Dinanagar	4.19	0.87	0.97	4.62
288.		Dostpur-Pz	1.00		0.95	1.10
289.		Gajikort-Pz	0.73		0.30	0.50
290.		Galri	0.56	0.26	0.47	
291.		Ghania Ki Bangar- Pz	0.15	0.15	1.32	1.11
292.		Gharotakalan	1.96	-1.03	-0.82	-1.44
293.		Ghoh DW	-3.32	-3.66	-3.07	-1.96
294.		Ghumani Khurd-Pz	0.52		0.75	1.00
295.		Gurdaspur-Pz	1.27		0.20	
296.		Hargobindpur	1.24	1.50	1.93	-4.22
297.		Hargobindpur1			-10.49	-12.46
298.		Hassanpur Kalan-Pz	1.45		1.05	0.68
299.		Jandwala	7.80		3.15	3.80
300.		Jhakolahri	0.05	-0.84	-0.20	-0.25
301.		Jhandalbana-Pz	0.27		-0.10	-0.05
302.		Kala Afgana-Pz	0.68			0.30
303.		Kahnuwan			0.20	
304.		Kalanaur-DW	0.61	1.41	0.28	1.79
305.		Kalanaur-Pz		2.01	4.26	6.30

306.		Kaure-Pz	1.08		0.80	0.85
307.		Khan Fatta-Pz			0.25	-0.05
308.		Khanikhui	0.38	0.23	0.02	
309.		Khanmalik-Pz	0.23		0.30	0.35
310.		Kui-DW			0.20	-0.24
311.		Khatgarh-Pz	0.77		0.65	1.00
312.		Kiari- DW			-0.11	-0.60
313.		Lakankala-Pz	1.10		0.60	0.80
314.		Langurwal-Pz	0.27		0.00	-0.05
315.		Madipur Fatehgarhchuria	0.91	0.41	1.61	0.83
316.		Mullowali 1(Vs)		0.84	1.21	
317.		Mullowali 2(M)		2.00	0.41	0.41
318.		Malikpur			0.00	0.10
319.		Malikpur-Pz	-0.46		0.28	0.23
320.		Mallewal-Pz			0.16	0.86
321.		Maman-Pz	1.33		0.95	1.15
322.		Muthi			0.30	0.15
323.		Masana-Pz	0.11		0.41	0.83
324.		Massit-Pz	0.60		0.50	0.58
325.		Mirza Jaan-Pz			0.66	0.92
326.		Mirthal	1.30		0.25	0.85
327.		Mirthal-DW			0.10	
328.		Nangal-Pz	0.40		-0.25	0.05
329.		Narot Jaimalsingh-Pz	-0.85		0.50	0.60
330.		Nawan Pind	0.17	0.33	0.63	0.25
331.		Nishayara	0.07	0.72	0.72	0.73
332.		Pandoritalab	0.72	-1.70	-0.34	0.73
333.		Paniar				0.40
334.		Parcha-Pz	0.28		0.10	0.20
335.		Parmota-DW			0.88	0.32
336.		Pathankot1	-1.65	-1.02	-0.28	0.37
337.		Phulpiara			-0.15	0.15
338.		Patti Atwal-Pz	0.45		0.75	0.75
339.		Saidowal Kalan-DW		-1.00	-0.05	0.11
340.		Saleh Chak-S	0.01	0.54	0.79	0.66
341.		Salehchak(Vs)		0.85	0.95	0.67
342.		Sarna	1.30		-0.20	0.44
343.		Sarna1		0.50		
344.		Sathial-Pz	-0.02		0.03	0.75
345.		Shahpur Jattan-Pz	0.82		0.80	0.88
346.		Shahpur-Pz	1.13		0.75	1.00
347.		Shezada Kalan-Pz	0.30		0.05	0.33
348.		Shikar-Pz	-0.78		-0.82	-0.59
349.		Sohal				0.05
350.		Tikriwala-Pz	0.12		0.25	0.35

351.	HOSHIARPUR	Aallo Batti-Pz	2.40	3.07	0.65	0.65
352.		Adowal Garhi-Pz	4.21		4.10	4.74
353.		Argowal-Pz	3.30		0.70	0.72
354.		Badla-Pz	3.00		1.78	2.02
355.		Bagpur-Pz				0.37
356.		Baichan-Pz	2.98		1.60	1.78
357.		Bajwara			0.35	
358.		Bajwara-Pz	1.82		1.05	0.30
359.		Barota-PZ			0.80	
360.		Bhamnaur	-1.06		2.14	-9.76
361.		Bhalowal Gujran-Pz			0.85	0.75
362.		Bhangala-Chhota-DW	1.65	-2.75	0.60	0.47
363.		Bhanowal-Pz	2.58		0.15	0.40
364.		Bhatolian-Pz	3.55		0.35	0.50
365.		Budhi Pind-Pz	3.03		1.53	2.03
366.		Chak Sheru-DW	1.14	-1.10	0.13	0.70
367.		Chohal	0.26	-0.01	-1.57	0.27
368.		Dadan-Pz	2.80		0.65	0.50
369.		DAGAN-DW	0.14	-0.87	0.94	
370.		Dallewal-Pz	4.00	1.39	0.75	0.85
371.		Dasuya2 (S)	2.04		4.03	
372.		Dharampur1				1.06
373.		Durimiwal	1.30		1.55	1.56
374.		Fattowal-Pz	2.13		0.85	1.05
375.		Garh Di Wala-Pz		1.27	4.32	
376.		Garhshankar (S)	2.76	-2.11	4.19	5.32
377.		Grahaya-Pz	4.58		1.73	2.15
378.		Haler Rampur-DW	0.57			0.89
379.		Hazipur	-0.07	-0.01	-0.10	-0.16
380.		Ittian-Pz	2.45		0.40	0.40
381.		Jahidpur-PZ			0.30	
382.		Jalalpur-Pz	2.08		0.63	
383.		Jhir Da Khuh-DW			0.21	0.13
384.		Jattpur-Pz	2.20		1.20	1.40
385.		Kharkan-Pz				0.90
386.		Khera-Pz	15.55		14.10	14.28
387.		Mahil Baltohian-Pz	4.88		3.05	3.05
388.		Mahilpur-Pz	2.79	-5.59	2.47	3.70
389.		Mukerian Dw		-1.40	1.79	
390.		Mianipur-Pz	2.28		0.95	0.83
391.		Maranwali-PZ			2.20	
392.		Naharpur-Pz	2.00		0.55	0.65
393.		Nangal Bihala- DW	0.54	4.06	1.30	3.51
394.		Nangal Thathal-Pz	2.50		0.75	0.85
395.		Phuglana- Pz		0.02	-1.16	2.65
396.		Pan Khuh-DW	0.41		0.29	2.51

397.		Pandori Mehal-Pz	2.35		1.10	1.40
398.		Parshot-Pz	2.95		1.18	1.25
399.		Rampur Colony (HSP) Pz-Medium	6.86		5.12	3.24
400.		Samraj Tanda-DW	0.51		0.63	
401.		Satnoh-PZ.			2.20	
402.		Sham Chaurasi	-3.15	-1.85	0.60	0.82
403.		Sibo Chak- DW	0.70	1.18	0.52	0.38
404.		Simbli- OW	2.10	-0.70	-0.47	0.32
405.		Simbli-Pz	0.92	3.72	1.79	2.69
406.		Talwara1	-0.76	0.21	-0.12	-0.25
407.		Tanda	1.30		0.60	1.28
408.		Thakarwala	2.21	2.18	1.03	3.26
409.	JALANDHAR	Adampur 3(S)	-0.34	-0.41	0.47	1.26
410.		Adarman-Pz	0.33		0.98	0.19
411.		Akalpur-Pz	-0.40		0.33	0.75
412.		Allawalpur	1.95		2.42	2.68
413.		Bilga-Pz	1.30		3.05	2.68
414.		Billi Chahrami-Pz	0.85		1.68	2.04
415.		Chania-Pz	2.05		1.38	0.40
416.		Dhanda-Pz	1.75		1.70	1.90
417.		Dhirowal-Pz			1.25	1.15
418.		Fateh Jalal-Pz	1.80		6.05	5.38
419.		Gehlan-Pz	1.18		2.60	2.43
420.		Gillian-Pz	-0.25		-0.38	-1.00
421.		Gohiran	6.76		5.34	3.92
422.		Hardo Pharwal-Pz	2.11		4.63	1.63
423.		Hardo Sheikh-Pz	0.15		1.88	2.35
424.		Jalandhar 3(Vs)	5.19	-7.34	3.03	6.83
425.		Jalbhe	-0.49			-0.11
426.		Jandiala-Pz	1.33		3.62	3.50
427.		Jandu Singha-Pz	2.75		3.80	3.10
428.		Janian-Pz	1.70		3.65	4.13
429.		Kakar Kalan-Pz			1.70	1.30
430.		Kala-Pz	-0.05		1.20	0.35
431.		Kalyanpur-Pz	2.02		2.95	2.17
432.		Kang Sahib Rai-Pz	1.40		1.20	1.15
433.		Kartarpur 2(S)	1.99	1.10	2.40	1.74
434.		Kharal Kalan Pz-S	1.92		3.30	2.61
435.		Kot Wadal Khan-Pz	0.55		1.95	1.40
436.		Kurla-Pz	2.00		3.35	2.55
437.		Lallian Kalan Pz-S	4.07		2.55	3.90
438.		Mahmuwal-Pz	2.05		1.85	1.68
439.		Mehsampur-Pz	0.65		0.58	-0.18
440.		Nakodar 2(M)	-0.91	2.52	5.20	4.21
441.		Nangal Shaman	2.70		2.96	2.37

442.		Nasirpur-Pz	1.06		1.95	1.39
443.		Nussi-Pz	-2.01	1.35	0.53	-0.51
444.		Pathial-Pz	1.70		1.68	1.40
445.		Pharwala-Pz	0.40		1.95	2.15
446.		Phillaur 2(S)			1.25	0.68
447.		Rahimpur-Pz	-0.60		1.30	0.65
448.		Rurka Kalan- Pz	-0.71		0.30	-0.11
449.		Samarahi-Pz	0.65		0.40	0.70
450.		Shahkot(S)			-3.27	
451.		Shahkot-Pz-Pb	1.05		2.10	2.25
452.		Sarih Pz-S				1.84
453.		Skarar Pur-Pz	-0.55		3.55	3.80
454.		Sultanpur-Pz	-0.95		0.15	0.25
455.		Talwan-Pz	0.86		2.94	1.39
456.		Thanda-Pz	1.40		-0.38	-0.60
457.		Udhopur	0.47			
458.	KAPURTHALA	Amanipur-Pz			2.50	0.65
459.		Bauril Harnampur-Pz	1.85		3.45	1.41
460.		Begowal-Pz	0.07		0.50	0.36
461.		Bhanoki-Pz	1.87		2.00	
462.		Bhatnura Khurd- S	0.29	0.37	0.04	2.27
463.		Bhanoki-Pz				0.90
464.		Bhawanipur-Pz	1.53		1.70	1.35
465.		Bholath M	1.11	1.82	1.58	1.97
466.		Bholath S	0.80	1.08	1.72	1.56
467.		Chakoke-Pz	0.42		1.06	0.43
468.		Dalla	3.08			4.14
469.		Hamira-Pz	0.92		1.63	0.65
470.		Hazipur-Pz	0.87		1.91	1.62
471.		Hussainpura-S Pz	2.77	1.00	3.84	2.33
472.		Hussainpura-VS Pz		1.22		0.81
473.		Kapurthala2 (S)	5.45	5.45	1.58	1.84
474.		Karnail Ganju-Pz	0.82		1.58	0.86
475.		Kishanpur	3.74		5.41	4.00
476.		Maheru-Pz	3.35		1.68	-0.15
477.		Miani Bola-Pz	0.76		1.44	1.03
478.		Mithra-Pz			2.45	0.45
479.		Nathu Chahal-Pz	5.01		5.86	4.96
480.		Nurpur Janoa-Pz	0.35		0.93	0.39
481.		Paazian-Pz			3.25	1.20
482.		Phagwara2 (S)	3.95	3.92	4.36	4.86
483.		Rawalpindi-Pz	2.20		4.35	3.65
484.		Saiflabad-Pz			1.35	0.65
485.		Sheikh Manga-Pz	1.45			
486.		Sangatpur-Pz			3.80	2.85
487.		Sultanpur2 (S)	-0.66	-0.76	1.20	2.42

488.		Shalapur Dona-Pz			2.33	1.90
489.		Talwandi Chaudary -Pz	1.28	-0.28	0.72	0.57
490.		Thikriwali-Pz	0.42		0.35	0.20
491.	LUDHIANA	Alamgir-Pz	0.40		0.68	0.69
492.		Aliwal-Pz	1.14		0.46	0.81
493.		Begowal	0.40			
494.		Bhagwanpur-Pz	-0.63		0.35	-0.08
495.		Baholpur-DW	0.40	1.15	0.55	0.42
496.		Bharthala Randhawa-Pz	1.61		1.61	1.28
497.		Bhikhi Khatron-Pz	1.21		1.16	0.85
498.		Bilaspur-Pz	0.75		0.74	0.70
499.		Chaminala-Pz	0.93		1.60	1.60
500.		Chankian Khurd-Pz	0.99		1.77	1.55
501.		Chattar Singh Park-Ldh	1.40			4.60
502.		Chaunta-Pz	-1.05		-1.16	-0.94
503.		Chhapar-Pz	1.05		1.30	1.53
504.		Dinnamder-Pz	1.04		1.20	1.65
505.		Dodpur-Pz	1.47	0.57	1.03	0.22
506.		Doraha-Pz	0.66		0.59	0.82
507.		Galibkalan-Pz	2.52		1.40	1.33
508.		Gohaur-Pz	1.07		0.95	0.70
509.		Gopalpur 2(S)	2.84	4.04	4.25	4.00
510.		Hambowal-Pz	-0.08		-0.70	-0.33
511.		Harnampur	1.12		2.42	0.99
512.		Hedon-Pz	-0.20		0.15	-0.71
513.		Ikloha-Pz	1.71	1.78		2.07
514.		Jagraon 2(S)	5.22		4.25	5.24
515.		Kalsian	4.01		4.25	4.00
516.		Katanikalan-Pz	0.03		0.80	0.58
517.		Khandur	2.46		3.09	2.63
518.		Kishangarh-Pz	1.05		1.75	1.10
519.		Kishanpur-Pz	1.30		2.74	1.68
520.		Lalan1	0.56		1.21	1.05
521.		Lelon-Pz	0.07		-0.31	0.55
522.		Lil- II Pz	2.71	3.74	0.65	3.59
523.		Lil-Pz III	-0.04	0.27	-0.51	0.65
524.		Lodhiwal-Pz	0.95		0.94	1.27
525.		Lohara-Pz	1.60		1.15	1.20
526.		Maksudra-Pz	0.45	1.97	1.66	
527.		Mushkabad		0.47		
528.		Manak Majra-Pz	0.47		0.65	1.50
529.		Mangat-Pz	0.22		1.16	0.81
530.		Manoke-Pz	2.26		2.16	2.88
531.		Mehma Singh Wala-Pz	0.92		0.60	1.10
532.		Mushkabad	0.65		1.00	0.98

533.		Nurpur-Pz	2.09		2.25	1.45
534.		P.A.U.Ludhiana 2(S)	4.97	1.17	1.62	1.61
535.		Pabbian-Pz	1.23		2.55	2.60
536.		Pandori-Pz	1.84		3.13	1.18
537.		Payal-Pz	1.16		0.87	0.95
538.		Punjeta			0.74	0.64
539.		Ragba-Pz	1.62		1.43	1.35
540.		Raikot-Pz	2.65		2.05	2.35
541.		Rajona Khurd	2.92		6.21	2.76
542.		Rashiana-Pz	0.63		1.28	1.33
543.		Rashin	3.65		4.47	3.39
544.		Rattewal-Pz	1.90		1.82	1.90
545.		Roomi-Pz	3.72		4.03	2.90
546.		Sajaywal-Pz	3.21		3.88	2.60
547.		Samrala 2(S)	1.98	1.81	1.84	
548.		Sanewal-Pz	0.96		0.80	0.70
549.		Sangatpura-Pz	-0.55		0.12	
550.		Sherian	-0.51	-0.51	-0.41	0.22
551.		Sherpur-Pz	0.78		1.14	1.16
552.		Sidhwan Bet-Pz	-1.75	0.70	0.20	1.49
553.		Talwandi Kalan-Pz	1.83		1.53	1.68
554.		Udonwal-Pz	0.90		0.57	0.78
555.		Upplan	0.25		0.31	-0.24
556.		Utlan	-0.08		0.74	-1.23
557.	MANSA	Aklia-Pz	1.41		1.82	0.49
558.		Alampur Mandran-Pz	0.68		0.52	0.44
559.		Alisher Khurd-Pz	1.34		0.92	0.42
560.		Bahadur Pur-Pz	1.08		0.80	0.04
561.		Bareh-Pz	0.59		-0.15	-0.41
562.		Behniwala-Pz	-0.17		0.17	0.09
563.		Bhamme Kalan-Pz	0.59		0.38	0.58
564.		Bhikhi 1 (S)			1.48	1.55
565.		Bhikhi 2 (S)	3.48	3.73		
566.		Budhlada	2.56	2.21	2.80	-0.34
567.		Budhlada-Pz	2.30	1.87	1.82	2.29
568.		Burj Bhalaike	-0.03	-1.14	0.24	0.18
569.		Burj Rathi-Pz	0.72			0.11
570.		Fattamaluka	0.26	-2.66	0.34	
571.		Gharangne-Pz	0.14		0.08	2.08
572.		Gehlan-Pz			0.57	0.44
573.		Hera Wala-Pz	0.39			
574.		Hero Kalan-Pz	1.56		2.02	1.51
575.		Hirke-Pz	2.42		-1.68	0.30
576.		Khiala Kalan-Pz	0.65		0.11	0.35
577.		Khokhar Kalan-Pz	0.24		-1.42	0.24
578.		Kot Dhamru	0.81		1.16	1.34

579.		Kotra	3.65	3.95	-0.14	4.00
580.		Kusla-Pz	0.64		0.31	-0.16
581.		Lakhial-Pz	0.73		0.51	0.10
582.		Mansa			0.52	1.96
583.		Phaphare Bhaike-Pz	0.99		0.94	0.27
584.		Raipur-Pz	0.23	-1.31	-0.99	0.87
585.		Ralla	2.94	1.79	3.60	
586.		Sangha-Pz				1.75
587.		Tandian-Pz	-0.36			
588.	MOGA	Baje Ke-Pz	-0.11		-0.25	0.18
589.		Baraghari-Pz			-0.45	0.05
590.		Budh Singh Wala-Pz	2.11	1.95	2.11	2.35
591.		Chogawan-Pz	2.70	1.69	1.69	4.43
592.		Dagru- Pz	2.04	0.55	2.00	1.18
593.		Damru Khurd	4.24	4.68	4.98	3.99
594.		Darapur 07pz	3.96	6.29	1.73	1.32
595.		Daulatpur Niwan-Pz	1.79		2.31	2.14
596.		Ghoha Khurd-Pz			-0.10	0.80
597.		Himatpura-Pz	2.55		2.91	3.63
598.		Indergarh-Pz	2.09			
599.		Jhandewala-Pz	1.97		2.11	2.44
600.		Kamalke-Pz	0.45			
601.		Khokri Kalan-Pz	2.37		1.78	2.77
602.		Khosa Randhir-Pz	0.33			
603.		Mandar-Pz	0.01			
604.		Mangewala-Pz	2.09		1.44	1.74
605.		Nathu Wala-Pz	1.00		-0.25	0.50
606.		Nihalsinghwala-Pz	2.92	1.54	2.73	2.52
607.		Raonke Kalan-Pz	2.88		2.67	3.53
608.		Samad Bhai-Pz	0.28		0.15	0.60
609.		Samalsar-Pz	1.66		2.23	2.54
610.		Thathe Bhai-Pz	0.90		0.20	1.10
611.		Tota Singh Wala-Pz	0.27			
612.	MUKTSAR	Abulkharana-Pz	0.25		0.49	0.05
613.		Alam Wala			0.98	0.44
614.		Balocha Khera	-0.43	1.33	0.01	-0.10
615.		Bhaliana	1.05	1.67	1.93	2.37
616.		Bhiti Wala-Pz	0.45		1.20	0.23
617.		Chaktam Kot-Pz	-0.04		0.34	0.09
618.		Dhalkot-Pz	-0.67		-0.19	-0.95
619.		Doda	0.17	0.14	-1.35	2.59
620.		Doda-Pz	-0.46	-0.71	-0.40	0.51
621.		Husnar-Pz	-0.30		-0.06	-0.59
622.		Jhurar-Pz			0.42	0.36
623.		Kabar Wala	0.26	1.32	0.27	1.18
624.		Kattianwali-Pz	0.05		0.65	0.33

625.		Khirkian Wala-Pz	-0.56		-0.51	-0.17
626.		Khunde Halal-Pz	0.12	1.37	-0.53	0.54
627.		Killian Wali-Pz	-0.99		-0.98	-0.79
628.		Kollian Wali-Pz	0.13		0.85	0.35
629.		Kot Bhai- DW			1.55	0.09
630.		Labanianwali	-0.42	0.57	0.52	2.08
631.		Lambi	0.42	1.69		2.06
632.		Lambi-Pz	-0.21	0.86	0.42	0.53
633.		Muktsar	1.17	0.25	0.00	1.63
634.		Phulu Khera-Pz	0.24		0.65	0.17
635.		Ratta Khera Chota-Pz	-0.02		0.54	0.96
636.		Sheikh-Pz	-0.04		0.32	0.01
637.		Sohiwal-Pz			1.53	1.12
638.	NAWANSHAHR	Alowal-Pz	0.40		0.25	0.20
639.		Badhwan-Pz	-0.40		-1.10	
640.		Baharam-Pz	1.07		4.22	3.48
641.		Bahara-Pz	1.30		0.80	1.65
642.		Bahlora Kallan- Pz	0.03	-0.45	0.04	0.14
643.		Bahua-Pz	0.20		1.54	0.64
644.		Balachore	-1.65		-1.56	
645.		Hakimpur-Pz	0.25		1.00	0.70
646.		Kariam-Pz	0.14		0.96	0.55
647.		Mauhra-Pz	2.49	2.36	3.36	3.44
648.		Rahon	0.16	0.44	0.58	0.68
649.		Raipur Dhaba-Pz	0.13	1.96	2.17	2.54
650.	PATIALA	Antala	-1.69	-2.29	-0.37	-0.21
651.		Bhojo Majri 07pz		4.13	5.36	2.10
652.		Ballopur	-1.13		-0.55	-0.30
653.		Bassma Pipla			3.84	
654.		Bhankhar-Pz	1.63		-0.37	-2.90
655.		Birkauli	2.92	7.48	6.56	
656.		Chandiala-Pz	0.03		1.20	
657.		Dera Bassi 07pz	-1.57		-1.00	-0.43
658.		Devigarh 1Pz	3.66	-4.30	6.16	5.95
659.		Devigarh Iipz	4.53	5.22	4.69	5.71
660.		Devigarh-III Pz	4.01	6.77	5.99	6.15
661.		Dhakdaba 07	6.51	6.59	6.13	7.09
662.		Haluka	-0.42	1.46	1.84	2.08
663.		Handesaran-S	-0.22		0.90	-0.10
664.		Hari Majra			-1.88	
665.		Harion Kalan-Pz	4.17		4.37	3.34
666.		Joli	-1.76	-1.24	1.00	-0.58
667.		Kakrala-Pz	3.69		4.52	3.08
668.		Kalyan 07pz	3.40	4.43	4.39	5.01
669.		Kami Kalan	-2.34	-1.20	-2.49	-0.94
670.		Kulburcha-Pz	5.08		4.89	3.84

671.		Kutha Kheri-Pz	0.90		3.20	3.63
672.		Lacharu Kalan	-1.19	-0.99	-0.43	2.75
673.		Lachkani-Pz	2.13	4.03	2.58	
674.		Miranpur- Pz	0.66	0.17	1.88	2.67
675.		Nanhera-Pz	2.13		2.72	2.95
676.		Patran-Pz	2.99	3.41	3.68	4.25
677.		Rajpura-Pzst	1.15	-12.13	-0.23	-0.36
678.		Samana-Pz	3.08	3.75	3.68	4.19
679.		Samaspur-Pz	1.95		2.36	1.44
680.		Sangatpura-Pz	-1.49	4.98	11.21	3.78
681.		Singhpura-Pz	7.32		5.75	
682.		Sirsini	0.52	0.02	0.34	-0.19
683.		Thua	4.69	2.61	3.90	4.35
684.	RUPNAGAR	Ahmedpur	0.37	5.14	0.61	2.48
685.		Bhalan		1.65	-0.19	2.56
686.		Bera Chauta	0.50			0.06
687.		Bains			2.45	2.55
688.		Braham Pur	-0.29	0.97	1.77	0.41
689.		Chakdera	0.75	1.52	0.44	0.53
690.		Dhair	4.56	4.27	1.92	1.64
691.		Dheri	-1.37	0.30	-0.05	0.03
692.		Dumewal	2.23	2.84	3.16	2.80
693.		Gharoon	-0.91		1.42	-0.78
694.		Ghoga	0.22	0.19	0.29	0.67
695.		Hardinamoh	0.55	0.20	0.14	0.27
696.		Kotla	-0.20		0.90	0.85
697.		Kurrha-Pz	2.63		2.04	1.44
698.		Landran	-0.45	0.08	1.61	2.63
699.		Landran-Pz	0.15	0.70	0.67	2.34
700.		Malkpur-Pz	0.80			1.45
701.		Raipur Kalan	0.71		1.05	0.71
702.		Rurki Heeran-Pz	0.68	0.06	0.97	0.46
703.	SANGRUR	Bagarian-Pz	1.65	2.75	2.08	2.18
704.		Barnala (S)	6.75	4.61	7.22	7.40
705.		Bhadaur-Pz	4.12	2.32	3.71	4.43
706.		Bhojowali-Pz	1.99	3.63	3.63	3.16
707.		Bugra 1	6.42		6.87	5.60
708.		Chural Kalan M	6.49	7.19	6.97	7.32
709.		Dhanaula	4.35			
710.		Dharamgarh-Pz	4.77		4.70	4.31
711.		Ghanauri Kalan-Pz	0.26	3.97	2.38	1.92
712.		Hassanpur-Pz	5.58		6.12	5.56
713.		Isra-Pz			5.28	4.84
714.		Kala Jhar-Pz	4.45		4.06	3.53
715.		Kuler Khurd-Pz	3.79		3.35	2.81
716.		Kurar-Pz	4.06		3.56	5.10

717.		Ladda-Pz		3.98	3.69	5.26
718.		Lehal Kalan-Pz	4.53		5.27	5.00
719.		Lohgarh-Pz	1.56		1.45	1.95
720.		Longowal-Pz	3.06	2.62	2.28	3.43
721.		Malerkotla-DW	4.30	7.01		7.40
722.		Mahal Kalan-Pz		1.19	2.78	4.74
723.		Manvi-Pz	-1.80	-3.14	2.80	7.09
724.		Mehsampur-Pz	3.47		3.69	2.81
725.		Nangal-Pz	3.30		3.22	3.81
726.		Panjgaraiyan- Pz	5.55		6.51	5.18
727.		Ramgarh-Pz	2.65		2.43	3.26
728.		Rampur Channa-Pz				3.73
729.		Rurki Kalan-Pz	4.09		5.50	3.91
730.		Shekha	2.26		0.80	1.50
731.		Sunam-Pz	2.08	3.09	3.55	3.68
732.		Tappa Mandi-Pz			3.23	3.59