CENTRAL GROUND WATER BOARD

DEPARTMENT OF WATER RESOURCES,

RIVER DEVELOPMENT AND GANGA REJUVINATION

MINISTRY OF JAL SHAKTI

GOVERNMENT OF INDIA

GROUND WATER YEAR BOOK
PUNJAB AND CHANDIGARH (UT)
2018-2019

North Western Region

Chandigarh

September 2019

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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.

As on 31.3.2019 the Central Ground Water Board, North Western Region, has established 1077 Ground water observation wells in Punjab State and Union Territory of Chandigarh for monitoring water level. There were 1052 Ground Water Observation Wells in Punjab which include 173 dug wells and 816 piezometers for monitoring shallow aquifers and 63 deep Piezometers for monitoring the behaviour of deeper aquifers in Punjab. 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.

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 constitute the parts of Pathankot, Hoshiarpur, Nawanshahr, Ropar and SAS Nagar districts and depend solely on ground water for irrigation and domestic needs. This report presents the observations and findings for the period May 2018 to January 2019.

Mrs **Amandeep Kaur, Scientist 'B'** has made concerted efforts to compile and analyse the data and prepare the report in the present form. The chapter on Chemical quality of ground water has been compiled and contributed by Shri Rishi Raj, assistant chemist. The chapter on Hydrometerology has been written by Sh. Aditya Sharma, Assistant Meterologist.

This report incorporates all the analytical data on ground water monitoring done in Punjab & Chandigarh and provides valuable information on prevailing ground water regime to the user agencies and other stakeholders as well.

(Anoop Nagar)
Regional Director, CGWB

Ground Water Year Book
Punjab State and Chandigarh (UT)
2018-2019
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GROUND WATER YEAR BOOK
PUNJAB STATE & CHANDIGARH (UT)
ANNUAL ACTION PLAN: 2019-2020

1.0 INTRODUCTION

The Punjab State is located between North latitudes 29° 32' and 32° 28' and East longitudes 73° 50' and 77° 00'. The total geographical area of the state is 50476 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 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 seem 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 $29^{o}33'$ and $30^{o}36'$ north latitudes and $74^{o}18'$ & $76^{o}12'$ 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 damed 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. Soan nadi 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-montainous 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 oils 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 HYDROMETEOROLOGY:

2.1 Climate:

Climate of Punjab State is semi-humid to semi-arid in the North, arid in the South & southwest and semi-arid in the remaining part of the State. The state experiences four seasons in the year namely, cold season from November to March, hot season from April to June, southwest monsoon season from last week of June to mid of September and post monsoon season from September to beginning of November. During cold weather season, seasons of western disturbances affect the climate of the state and bring rainfall of light intensity.

Chandigarh has a humid subtropical climate characterised by a seasonal rhythm: very hot summers, mild winters, unreliable rainfall and great variation in temperature (−1 °C to 46 °C). The city also receives occasional winter rains from the Western Disturbance originating over the Mediterranean Sea. The western disturbances usually bring rain predominantly from mid-December to till end of April which can be heavier sometimes with strong winds and hails if the weather turns colder (during March–April months) which usually proves disastrous to the crops. Cold winds usually tend to come from the north near Shimla, and from the state of Jammu and Kashmir, both of which receive their share of snowfall during winter time.

2.2 Rainfall Analysis of Punjab and Chandigarh:

There are two seasons of rainfall in the state. The south-west monsoon season, the principal source of ground water sets in last week of June and withdraws towards end of September and contributes about 80% of annual average rainfall. Another period of rainfall is winter rain from December to March is about 20% of total rainfall which is mostly absorbed into the soil.

The annual rainfall in 2018 over the state of Punjab is quite uneven which increases from 112 mm in Southwest at Firozpur to 1321 mm in North at Gurdaspur and 1379 mm in East at Ropar. The lowest rainfall of 75% less than their corresponding normals of IMD are recorded at Ferozpur and the highest rainfall of 44% more than the IMD annual normal is received at Ropar during 2018.

The annual rainfall of 2018 when analysed and compared to the rainfall of 2018, it is observed that out of all districts Tarn Taran district is showing maximum rise of rainfall which is 105% more than the rainfall of last year 2017. The rise in rainfall of 2018 as compared to 2017 shows in Gurdaspur +3%, in Nawanshahr +16%, Ferozpur +19%, Faridkot +21%, Muktsar +22%, Ropar +31%, Fatehgarh Sahib +38%, SAS Nagar +38%, Jalandhar +42%, Ludhiana +42%, Patiala +63%, Sangrur +64%, Barnala +70%, Hoshiarpur +77%.

Similarly it is observed that out of all districts Maximum fall in rainfall observed at Moga district which is 36% less than the rainfall of last year 2017 and the fall in rainfall in remaining districts shows in Amritsar 10%, Bathinda 24%, Mansa 15%. The mean annual rainfall of Punjab state during 2018 is 676 mm which is +25% more than the mean annual rainfall (542 mm) during 2017.

In Chandigarh the annual rainfall for the year 2018 was 1127 mm which is about 19% more than the previous year (2017) rainfall of 944 mm and 5% more than the normal rainfall (i.e. 1070 mm). On analysis of Annual rainfall of last 05 years of Chandigarh, it is observed that in 2014 it was 707mm, in 2015 it was 817 mm, in 2016 it was 614 mm and in 2017 it is 944 mm, and in 2018 it was 1127 mm indicating that annual rainfall is uneven.

Table 1. DISTRICT-WISE AND MONTHWISE NORMAL RAINFALL DATA (mm) OF PUNJAB AND CHANDIGARH (UT):

S. No	DISTRICT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1	**AMRITSAR**	30.4	29	35.4	20.9	17.1	43.1	211.4	194.1	89	28.7	7.6	15	**721.7**
2	**BATHINDA**	11.5	17.4	13	8	9.7	33.5	109.6	115.4	62.5	19.2	2.7	5.4	**407.9**
3	**FEROZEPUR**	15.7	14.5	21.3	9.3	15.4	31.3	128.4	124.7	67.9	12.3	5.1	9.7	**455.6**
4	**GURDASPUR**	60	49.9	53.8	25.7	21.3	57.1	324.6	319.9	126.2	37.2	11	25.8	**1112.5**
5	**HOSHIARPUR**	38.4	39.8	39.8	16	20.4	74.9	275.7	241.5	125.8	31.5	9.3	20	**933.1**
6	**JALANDHAR**	28.6	28.6	30.7	13.7	20.2	48.5	203.9	188.1	111	21.9	7.3	16.6	**719.1**
7	**KAPURTHALA**	27.6	21	25.8	9.5	14.1	37.1	166.3	136.5	82.7	31.4	5.4	10.6	**568**
8	**LUDHIANA**	24.3	26.1	26.5	12.1	16.6	51.2	203	178.3	101.7	25.7	5.4	14.7	**685.6**
9	**PATIALA**	26.7	24.7	20.9	9.3	15.3	54.9	235.9	208.5	115.9	21.1	4.3	14.5	**752**
10	**RUPNAGAR**	41.6	38.9	51.2	14.7	25.6	65.4	291	252.9	119.2	19.7	13.2	23.1	**956.5**
11	**SANGRUR**	18.3	19.3	15.9	10.4	18.7	44.8	160.5	145.8	85.7	20.4	4.7	12.9	**557.4**
12	**FARIDKOT**	16.1	14.3	17	8.1	13.9	36	120	103.8	65.3	9.8	3.8	7.5	**415.6**
13	**MOGA**	21.3	13.4	15	9.7	15.7	33.7	123	133.5	63.8	20.9	3.1	7.5	**460.6**
14	**NAWANSHAHR**	38.8	39.9	38.6	15.9	19.2	85.3	309.6	254.9	138.8	29.6	10.1	24.9	**1005.6**
15	**FATEHGARH SAHIB**	24.9	21.8	22.6	10	13.7	45.6	220.6	174.6	106.3	18.9	7.1	17	**683.1**
16	**MUKTSAR**	16.7	12.7	18.2	7	10.9	31.2	113	107.5	60.1	11.2	3.5	7.5	**399.5**
17	**MANSA**	12.3	18.4	11.3	7.2	8.9	30.3	110.9	122.8	70.8	18.2	2.4	6.3	**419.8**
18	**BARNALA**	14.7	16.9	10	11.5	9.6	30.3	129.4	117.5	78.4	18.3	3.9	8.9	**449.4**
19	**SAS NAGAR**	33.4	24.7	29.5	13.8	24.6	68.8	241.8	216.6	117.3	20.2	7.3	20.7	**818.7**
20	**TARN TARAN**	18	18.3	21.5	10.4	12.4	23.5	133.6	111.4	68.3	17.8	4.5	9.5	**449.2**
21	**CHANDIGARH**	44.3	38.9	33.2	14.8	30.1	120	282.4	287.5	154.3	31.8	9.9	23.4	**1070.6**

TABLE-2 Deviation of 2018 Annual Rainfall from 2017 Annual Rainfall and Normal Rainfall:

Deviation of 2018 rainfall from 2017 rainfall and Normal rainfall - Punjab						
S.N	**District**	**Annual Rainfall (mm)-2018**	**Annual Rainfall (mm)-2017**	**Deviation From 2017 (%)**	**Normal Rainfall (mm)**	**Deviation From Normal (%)**
1	Amritsar	529	585	-10	722	-27
2	Barnala	569	334	70	450	26
3	Bathinda	272	357	-24	408	-33
4	Faridkot	415	342	21	416	0
5	Fatehgarh Sahib	734	534	38	683	7
6	Ferozpur	112	94	19	456	-75
7	Gurdaspur	1321	1283	3	1112	19
8	Hoshiarpur	933	528	77	933	0
9	Jalandhar	663	466	42	719	-8
10	Kapurthala	738	738	0	568	30
11	Ludhiana	817	577	42	686	19
12	Mansa	225	265	-15	420	-46
13	Moga	342	534	-36	461	-26
14	Muktsar	402	330	22	400	1
15	Nawanshahr	1187	1024	16	1006	18
16	Patiala	891	546	63	752	18
17	Ropar	1379	1055	31	957	44
18	Sangrur	492	300	64	557	-12
19	SAS Nagar	925	670	38	819	13
20	Tarn Taran	564	276	105	449	26
21	Chandigarh	1127	944	19	1070	5

TABLE-03 LAST FIVE YEARS ANNUAL MONTHLY RAINFALL OF CHANDIGARH UT IN MM

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Annual	Normal Rain fall	Deviation From Normal
2014	59.6	41.7	71.7	19.9	57.1	43.7	159.8	41.2	109.8	12.4	0.1	90	**707**	**1070**	-33.9
2015	45.2	46.7	119.9	21.6	17.4	63.9	257.9	109.2	117.3	17.7	0.2	0.3	**817.3**		-23.6
2016	0	1.3	57.9	15.8	59.5	133.6	131.1	150.5	41.7	0.1	0.1	22.8	**614.4**		-42.5
2017	137	1.6	22	10.5	5.7	103.1	195.2	309.4	145.1	0	0	14.8	**944.4**		-11.7
2018	8.1	47.2	4.2	36.2	13	142.9	263.6	291	295.8	10.7	7.7	6.3	**1126.7**		+5.2

Figure-1 Variation in rainfall in last five years with normal rainfall (in mm) of Chandigarh UT

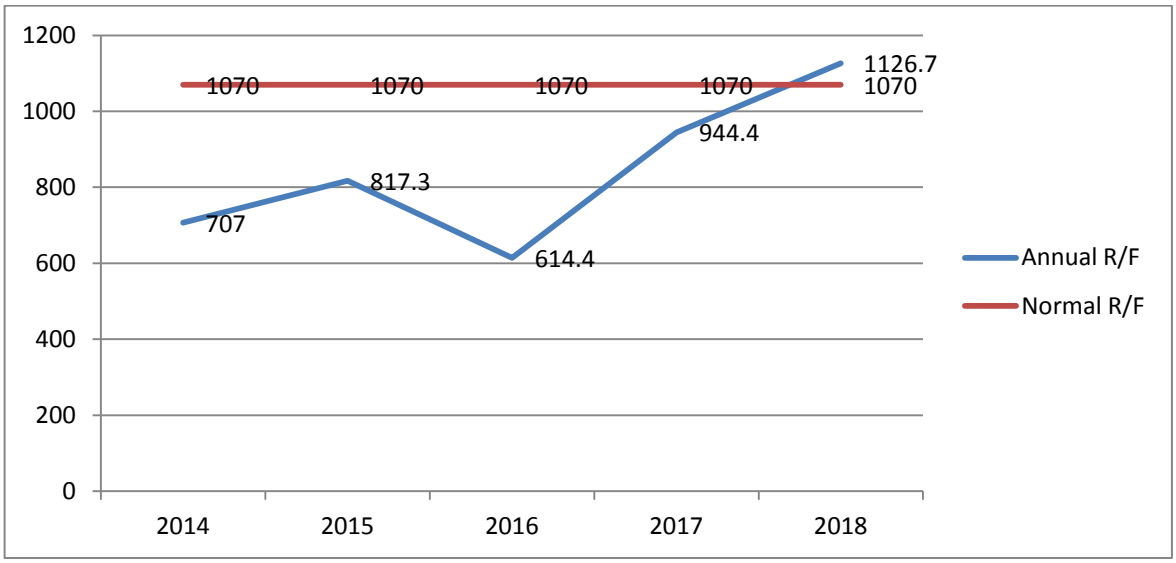


Figure-2 Rainfall Comparison of 2017 Vs 2018-Punjab & Chandigarh UT

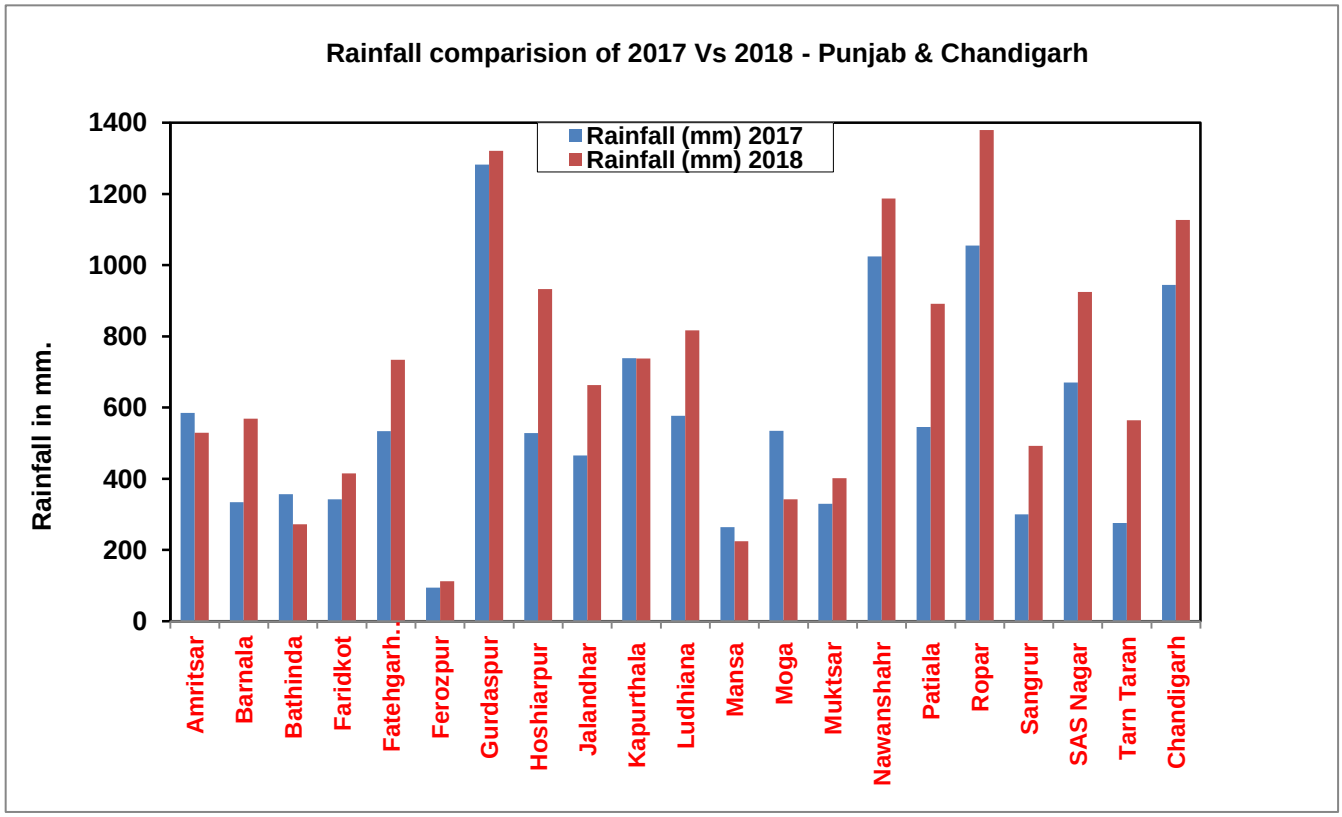


Figure -3 Percentage Deviation of 2018 Vs 2017- Punjab & Chandigarh UT

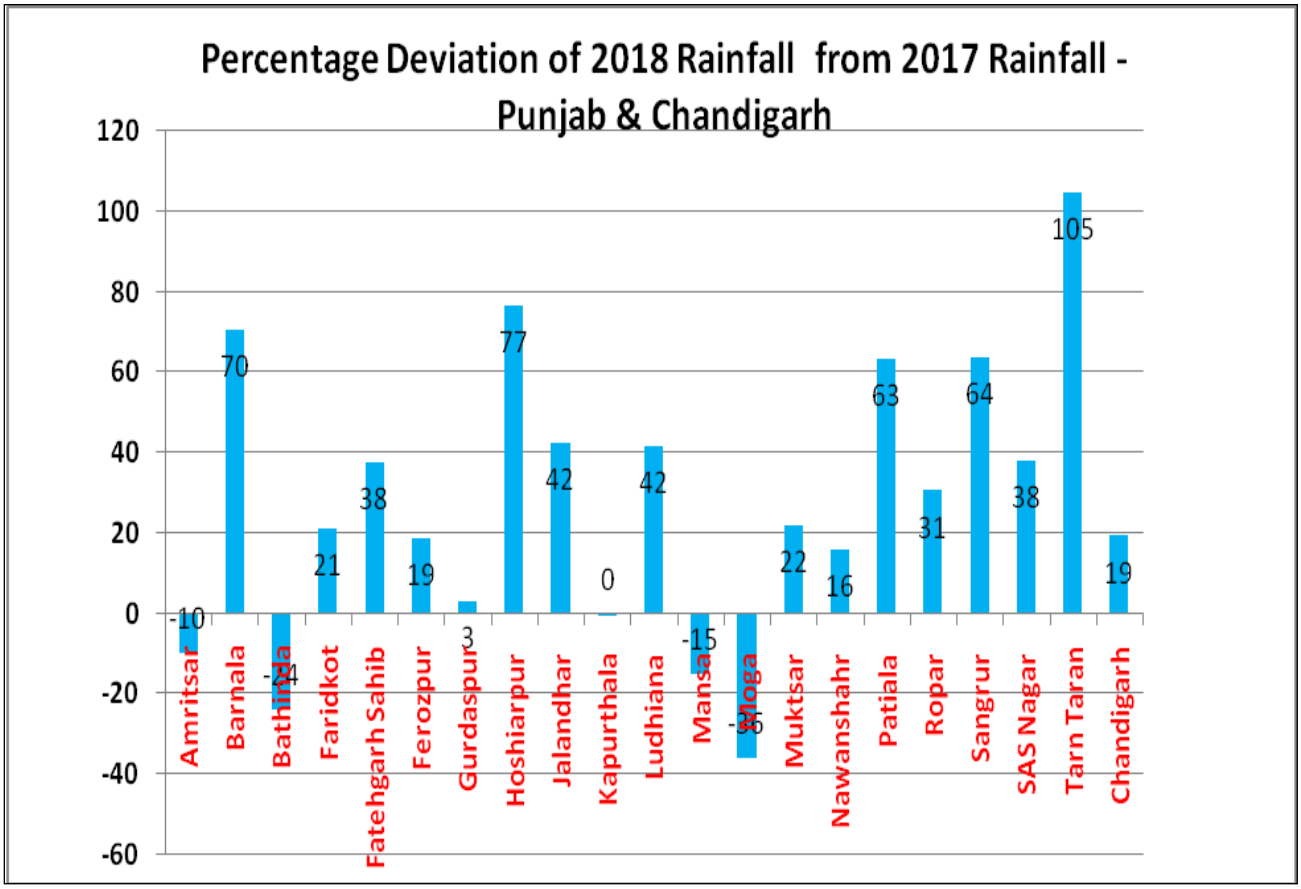
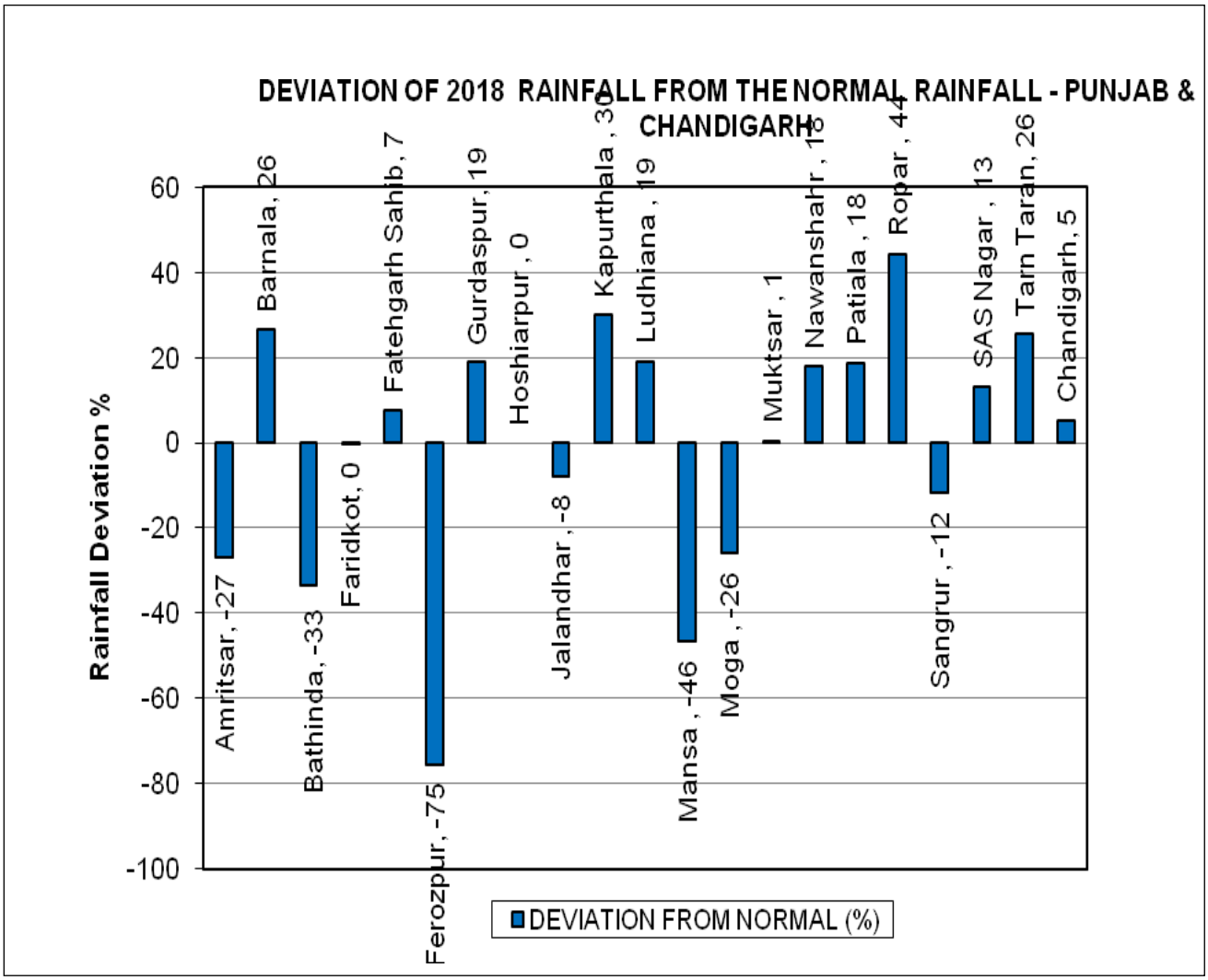

Percentage Deviation of 2018 Rainfall from 2017 Rainfall - Punjab & Chandigarh
120
100
80
60
40
20
0
-20
-40
-60
-10
70
-24
21
38
19
3
77
42
0
42
-15
-35
22
16
63
31
64
38
105
19
Amritsar
Barnala
Bathinda
Faridkot
Fatehgarh Sahib
Ferozpur
Gurdaspur
Hoshiarpur
Jalandhar
Kapurthala
Ludhiana
Mansa
Moga
Muktsar
Nawanshahr
Patiala
Ropar
Sangrur
SAS Nagar
Tarn Taran
Chandigarh

Figure -4 Deviation of 2018 Rainfall From Normal Rainfall – Punjab & Chandigarh UT



3.0 GENERAL GEOLOGY

The great Indo-Gangetic plain with an area of about 8,50,000 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 Indo-Gangetic 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 Indo-Gangetic 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.

3.1 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 Siwaliks 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:

3.1.1 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.

3.1.2 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 50362 Km^2. area of State, alluvial cover about 38500 Km^2 spreading over about 76% of 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 of '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.

3.1.3 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.

3.1.4 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.

3.1.5 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.

3.2 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.

4.0 GROUND WATER REGIME MONITORING

The Central Ground Water Board, North Western Region, has established 1077 Ground water observation wells in Punjab State and Union Territory of Chandigarh for monitoring water level. As on 31.3.2019 there were 1052 Ground Water Observation Wells in Punjab which include 173 dug wells and 816 piezometers for monitoring shallow aquifers and 63 deep Piezometers for monitoring the behaviour of deeper aquifers in Punjab. 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.

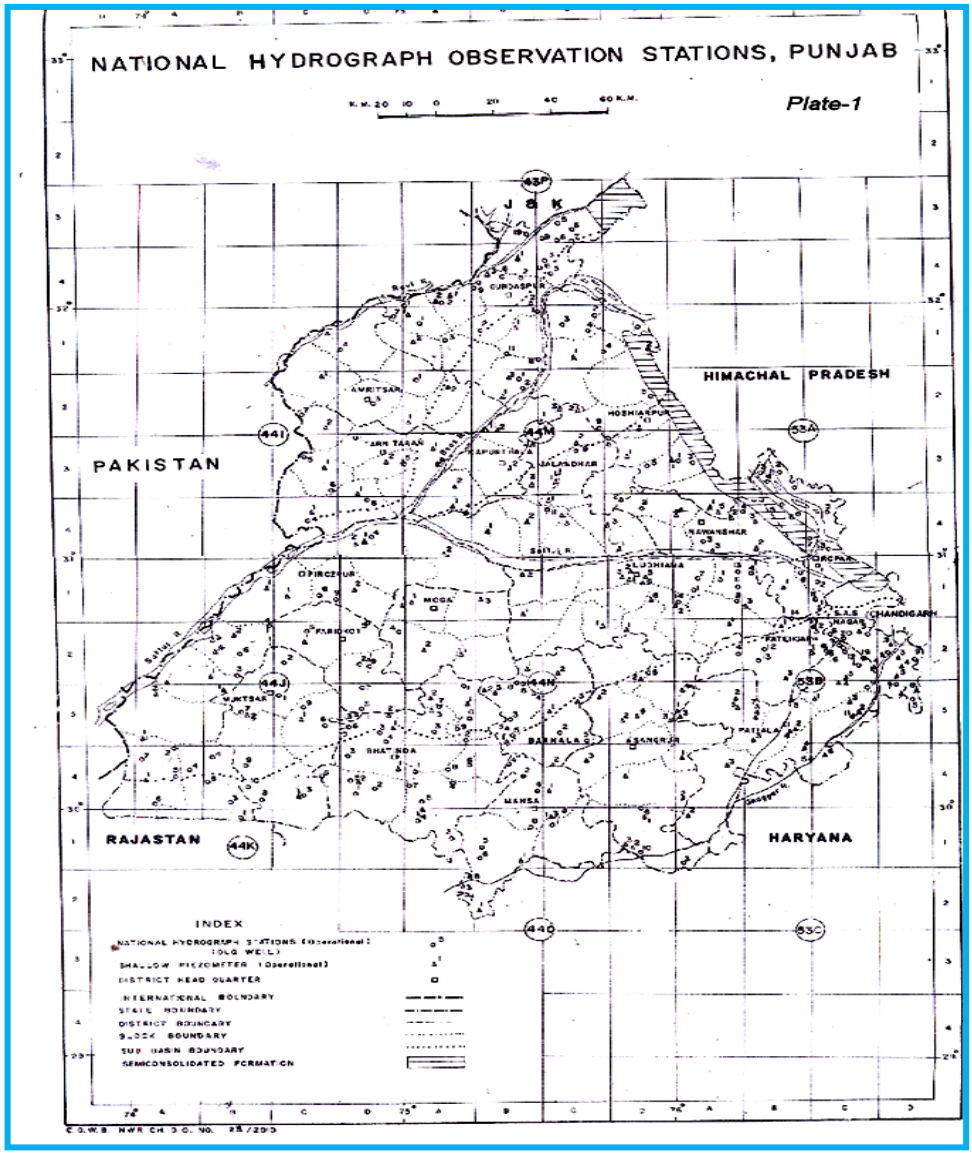
About 80% of the Ground water observation wells fall in the canal command areas of various canal systems, the areas falling out of the major command is part of Pathankot, Hoshiarpur, Nawanshahr, Ropar and SAS Nagar districts, parts of Gurdaspur, Jalandhar and Ludhiana districts. The district wise details of Ground water observation wells are given in **Table 4,** location of these Ground water observation wells is shown in **Plate 1.**

Table- 4 District wise ground water observation wells, Punjab State and Chandigarh

S. No.	Districts	No. of GWOW as on 31.3.2018			No. of GWOW established during 2018-2019			Total no. GWOW as on 31.3.2019		
		DW	PZ	Total	DW	PZ	Total	DW	PZ	Total
1	Amritsar	6	49	55	0	0	0	6	49	55
2	Barnala	0	29	29	0	0	0	0	29	29
3	Bathinda	29	55	84	0	0	0	29	55	84
4	Faridkot	8	33	41	0	0	0	8	33	41
5	Fatehgarh	5	36	41	0	0	0	5	36	41
6	Fazilka	9	48	57	0	0	0	9	48	57
7	Ferozpur	8	50	58	0	0	0	8	50	58
8	Gurdaspur	17	55	72	0	0	0	17	55	72
9	Hoshiarpur	14	50	64	0	0	0	14	50	64
10	Jalandhar	3	73	76	0	0	0	3	73	76
11	Kapurthala	1	45	46	0	0	0	1	45	46
12	Ludhiana	9	45	54	0	0	0	9	45	54
13	Mansa	7	29	36	0	0	0	7	29	36
14	Moga	1	37	38	0	0	0	1	37	38
16	Muktsar	10	34	44	0	0	0	10	34	44
18	Pathankot	11	9	20	0	0	0	11	9	20
19	Patiala	4	42	46	0	0	0	4	42	46

20	Rupnagar	10	28	38	0	0	0	10	28	38
21	Sangrur	3	41	44	0	0	0	3	41	44
15	SAS Nagar	11	19	30	0	0	0	11	19	30
17	SBS Nagar	2	24	26	0	0	0	2	24	26
22	Tarntaran	5	48	53	0	0	0	5	48	53
Punjab State Total		173	879	1052	0	0	0	173	879	1052
	Chandigarh	1	24	25	0	0	0	1	24	25
Total Punjab & Chandigarh		174	903	1077	0	0	0	174	903	1077

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

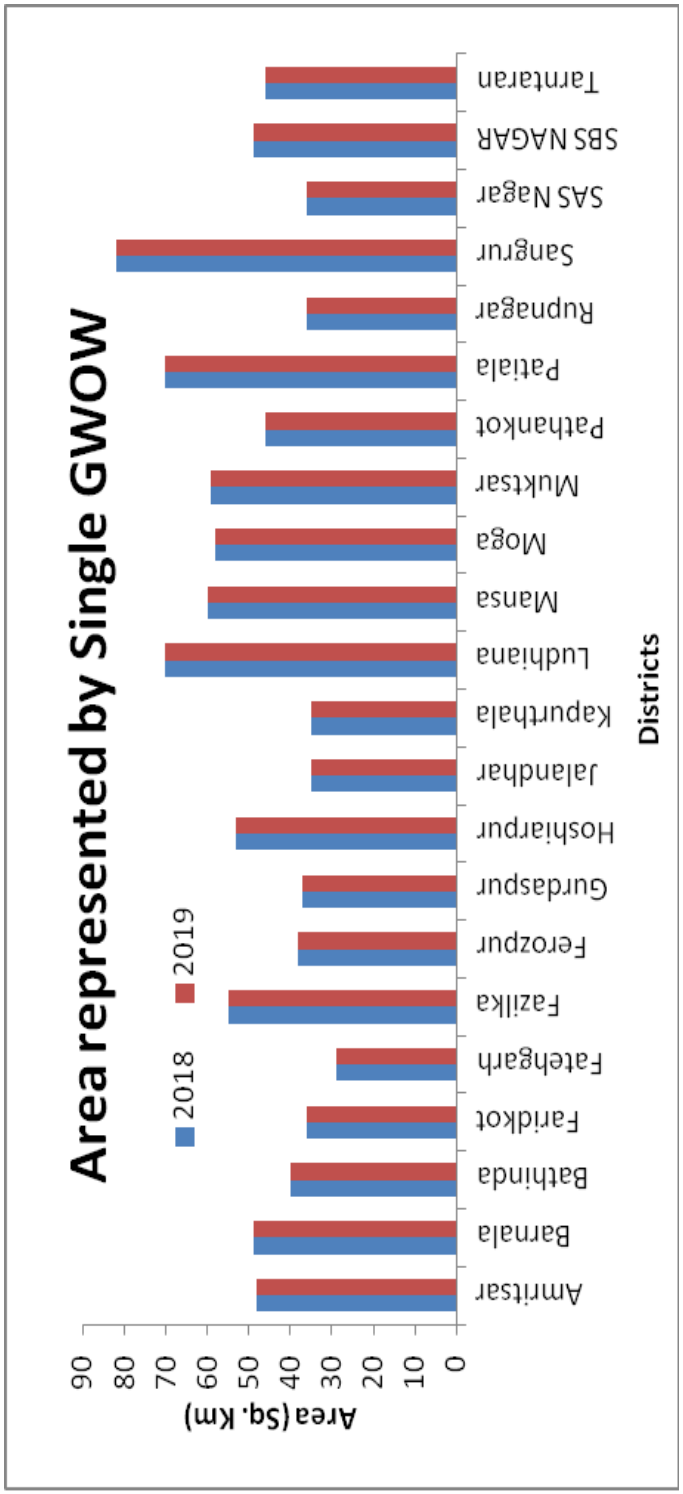


The area represented by single shallow Ground water observation wells being monitored in the state of Punjab and Chandigarh is given in **Table 5** and depicted in Plate **2.**

Table 5. Area represented by single shallow ground water observation well.

S. No.	District	Area (Km^2)	No. of Shallow GWOW's As on		Area represented by one GWOW's (area/no. of well) in Sq Km	
			31/3/2018	31/3/2019	31/3/2018	31/3/2019
1.	Amritsar	2647	55	55	48	48
2.	Barnala	1410	29	29	49	49
3.	Bathinda	3385	84	84	40	40
4.	Faridkot	1469	41	41	36	36
5.	Fatehgarh	1180	41	41	29	29
6.	Fazilka	3113	57	57	55	55
7.	Ferozpur	2190	58	58	38	38
8.	Gurdaspur	2635	72	72	37	37
9.	Hoshiarpur	3365	64	64	53	53
10.	Jalandhar	2632	76	76	35	35
11.	Kapurthala	1632	46	46	35	35
12.	Ludhiana	3767	54	54	70	70
13.	Mansa	2171	36	36	60	60
14.	Moga	2216	38	38	58	58
15.	Muktsar	2615	44	44	59	59
16.	Pathankot	929	20	20	46	46
17.	Patiala	3218	46	46	70	70
18.	Rupnagar	1369	38	38	36	36
19.	Sangrur	3610	44	44	82	82
20.	SAS Nagar	1093	30	30	36	36
21.	SBS NAGAR	1267	26	26	49	49
22.	Tarntaran	2449	53	53	46	46
Punjab State Total		50362	1052	1052	52	48
Chandigarh		114	25	25	5	5

PLATE 2: District Wise Area Represented By Single Shallow Ground Water Observation Well



4.1 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 2018, August 2018, November 2018 and January 2019 is discussed in following paragraphs. The maximum and minimum water levels recorded in different season is given below in Table 6.

Table 6. The maximum and minimum water levels during all four seasons

Range	May 2018	August 2018	November 2018	January 2019
Minimum	0.65 m bgl Kotla (Rupnagar district)	0.87 m bgl Mehmuana (Faridkot district)	0.55 m bgl Mehmuana (Faridkot district)	0.64m bgl Kuttianwalli (Muktsar district)
Maximum	50.70 m bgl Pedol-PZ (SAS Nagar District)	42.75 m bgl Pattaran- PZ (Patiala District)	51.00 m bgl Pedol (SAS Nagar District)	59.0 m bgl Nawa Killa- Pz (Faridkot district)

It is evident from the above table-6 that shallowest water level conditions prevail in southwest parts mainly in Faridkot and Muktsar districts and south west Punjab mainly Rupnagar district. While deepest water level conditions exist in the SAS Nagar, Patiala and Faridkot district. The water level data of all four seasons is discussed below and given in annexure-I:

4.1.1 MAY 2018

The behavioral pattern of water level in May 2018 along with depth to water level map (Fig. 5) is discussed below and data is presented in Annexure-I (Col. 4). The depth to water level lies between 0.65 m bgl at Kotla in Rupnagar district and 50.70m bgl at Pedol pz in SAS nagar 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 isolated patches in Muktsar, Fazilka, Faridkot, Gurdas and Pathankot districts. Shallow water levels of 2-5 m have been observed in 10% of the wells and about 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. 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 district. About 18% of wells and 17% of the area fall in this range.

Moderately Deep water levels (10-20 m) are predominant and observed in 28% wells covering about 32% area of the State in central and western parts. Deep water levels (20-40 m) are also observed covering parts of Jalandhar, Kapurthala, SBS Nagar (Nawashehar), Bathinda, Moga, Ludhiana, Fatehgarh, Patiala, Sangrur, Barnala and SAS Nagar districts and observed in 40% wells covering about 39% area of the State in central and south-eastern part. Very deep water levels (>40 m) are observed as patches in Patiala, SAS Nagar and SBS Nagar (Nawashehar) districts covering 2% area of the State. Summarized details of depth to water level in different ranges are given in table below.

Depth to water level range (m bgl)	Wells monitored		Area covered	
	No.	%age	Sq. Km.	%age
0-2	16	2	351	1
2-5	73	10	4964	10
5-10	125	18	8526	17
10-20	199	28	16075	32
20-40	282	40	19672	39
>40	11	2	888	2

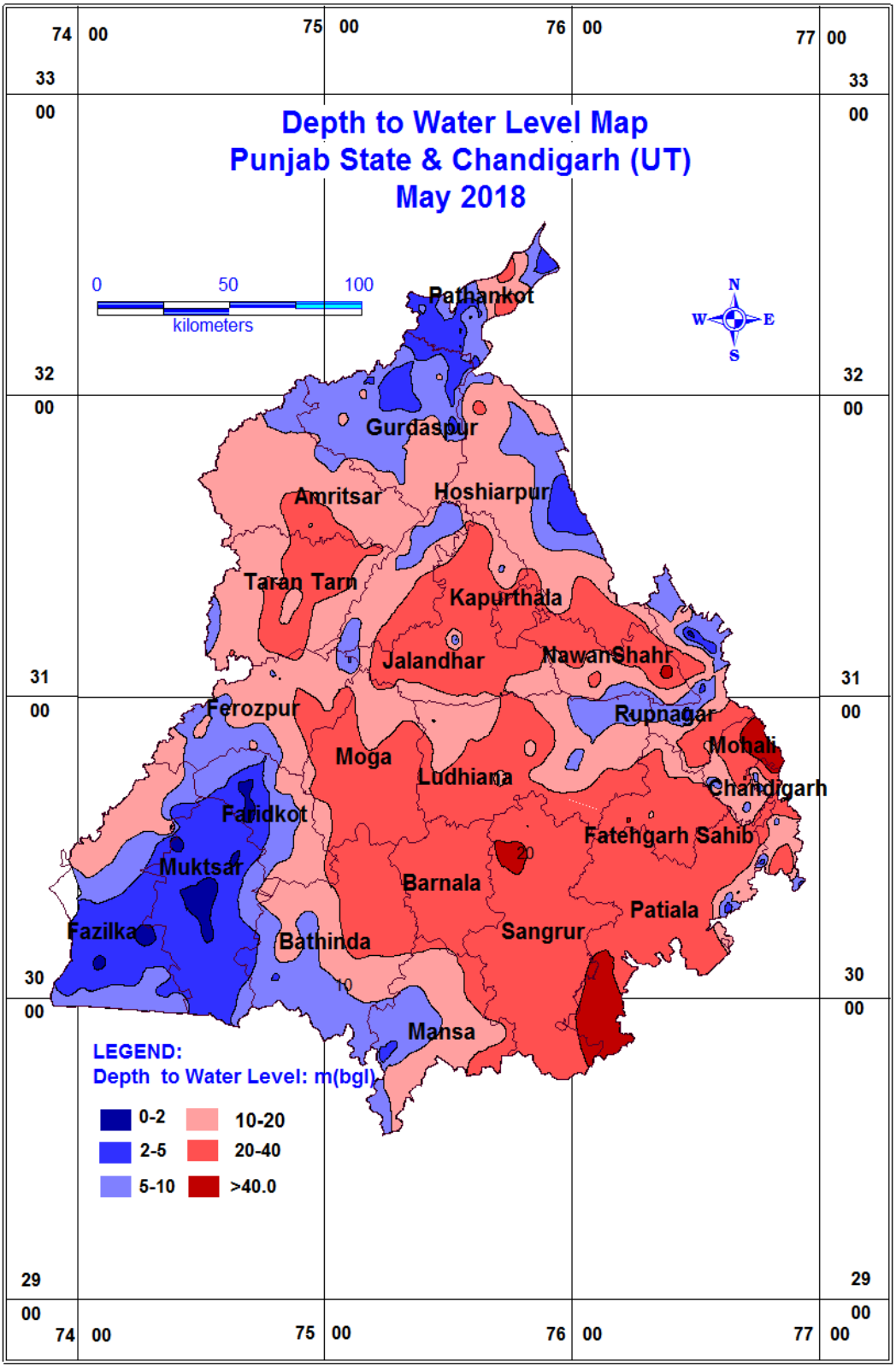


Figure 5 Depth to Water level Map Punjab State & Chandigarh (UT) May 2018

4.1.2 August 2018

The behavioral pattern of water level in August 2018 along with depth to water level map (Fig.6) is discussed below and data is presented in Annexure-1 (Col. 5). The depth to water level lies between 0.87 m bgl at Mehmuana in Faridkot district and 42.75m bgl at Patran Pz in Patiala district.

Very shallow water levels of 0-2 m (causing water logging) occur in 5% of wells and cover 1% area of the state in south western parts in Muktsar, Faridkot, Fazilka and Pathankot districts. Shallow water levels of 2-5 m have been observed in 20% of the wells and 12% of the total area that lies in south western parts of Muktsar, Fazilka, Faridkot districts and in northern parts of Gurdaspur districts; and as isolated patches in SAS Nagar and Rupnagar districts. The area in south western parts is mainly canal command. 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. It is also observed as isolated patches in Pathankot, Ludhiana, Jalandhar and Kapurthala districts. About 18% of wells and 16% of the area fall in this range.

Moderately Deep water levels (10-20 m) are observed in 24% wells covering about 28% area of the State in central parts. Very deep water levels (20-40 m) are also observed covering parts of Jalandhar, Moga, Ludhiana, Kapurthala, Tarantaran, Ferozpur, Fatehgarh, Patiala, Sangrur, Bathinda and Nawanshahr districts and observed in 30% wells covering about 40% area of the State. Very deep water level (>40m) is observed in 3% wells and 2% area falling in Sangrur and Barnala districts. Summarized details of depth to water level in different ranges are given in table below.

Depth to water level range (m bgl)	Wells monitored		Area covered	
	No.	%age	Sq. Km.	%age
0-2	11	5	594	1
2-5	48	20	6195	12
5-10	42	18	8120	16
10-20	57	24	14253	28
20-40	70	30	20158	40
>40	1	3	1152	2

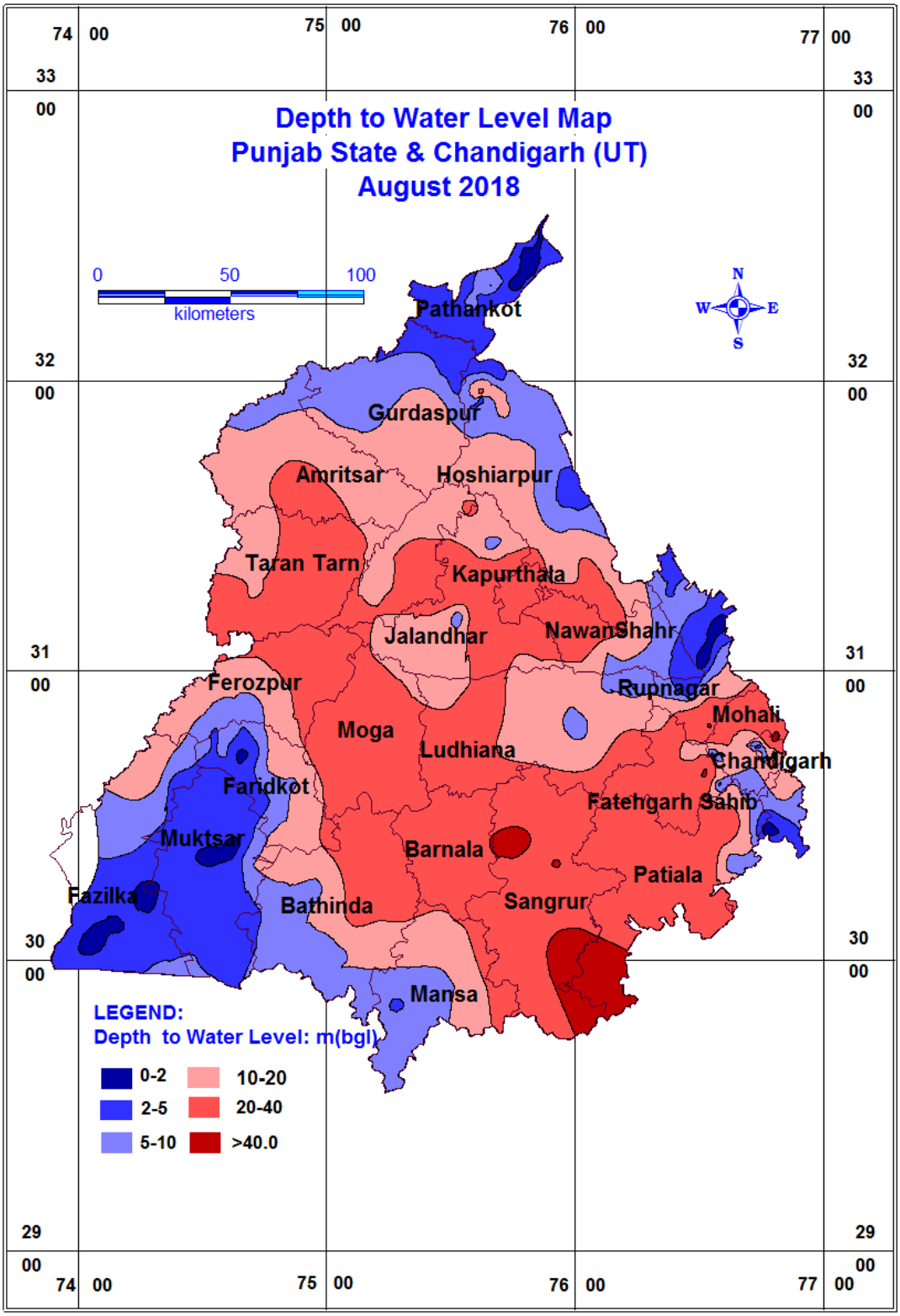


Figure 6 Depth to Water level Map Punjab State & Chandigarh (UT) August 2018

4.1.3 NOVEMBER 2018

The behavioral pattern of water level in November 2018 along with depth to water level map (Fig.7) is discussed below and data is presented in Annexure-I (Col. 6). The depth to water level lies between 0.55 m bgl at Mehmuana in Faridkot district and 51.00 m bgl at Pedol in SAS Nagar district.

Very shallow water levels of 0-2 m (causing water logging) occur in around 4% of wells and cover more than 1% area of the state in south western parts in Muktsar, Faridkot and Fazilka districts and as isolated patches in Gurdaspur and Pathankot. 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. The area in south western parts is mainly canal command area. 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 17% of wells and 16% of the area fall in this range.

Moderately Deep water levels (10-20 m) are observed in 26% wells covering about 28% area of the State in central and eastern parts. Very deep water levels (20-40 m) are predominant and are observed covering parts of Jalandhar, Kapurthala, Barnala, Bathinda, Moga, Ludhiana, Fatehgarh, Patiala, Sangrur and Nawanshahr districts and observed in 38% wells covering about 41% area of the State. Very deep water levels (>40 m) are also observed in small patch in Sangrur, Patiala, Ludhiana and SAS NAgar districts in 2% wells covering about 4% area of the State. Summarized details of depth to water level in different ranges are given in table below.

Depth to water level range (m bgl)	Wells monitored		Area covered	
	No.	%age	Sq. Km.	%age
0-2	29	4	583	1
2-5	106	13	5528	11
5-10	138	17	8157	16
10-20	211	26	13980	28
20-40	300	38	20459	41
>40	18	2	1769	4

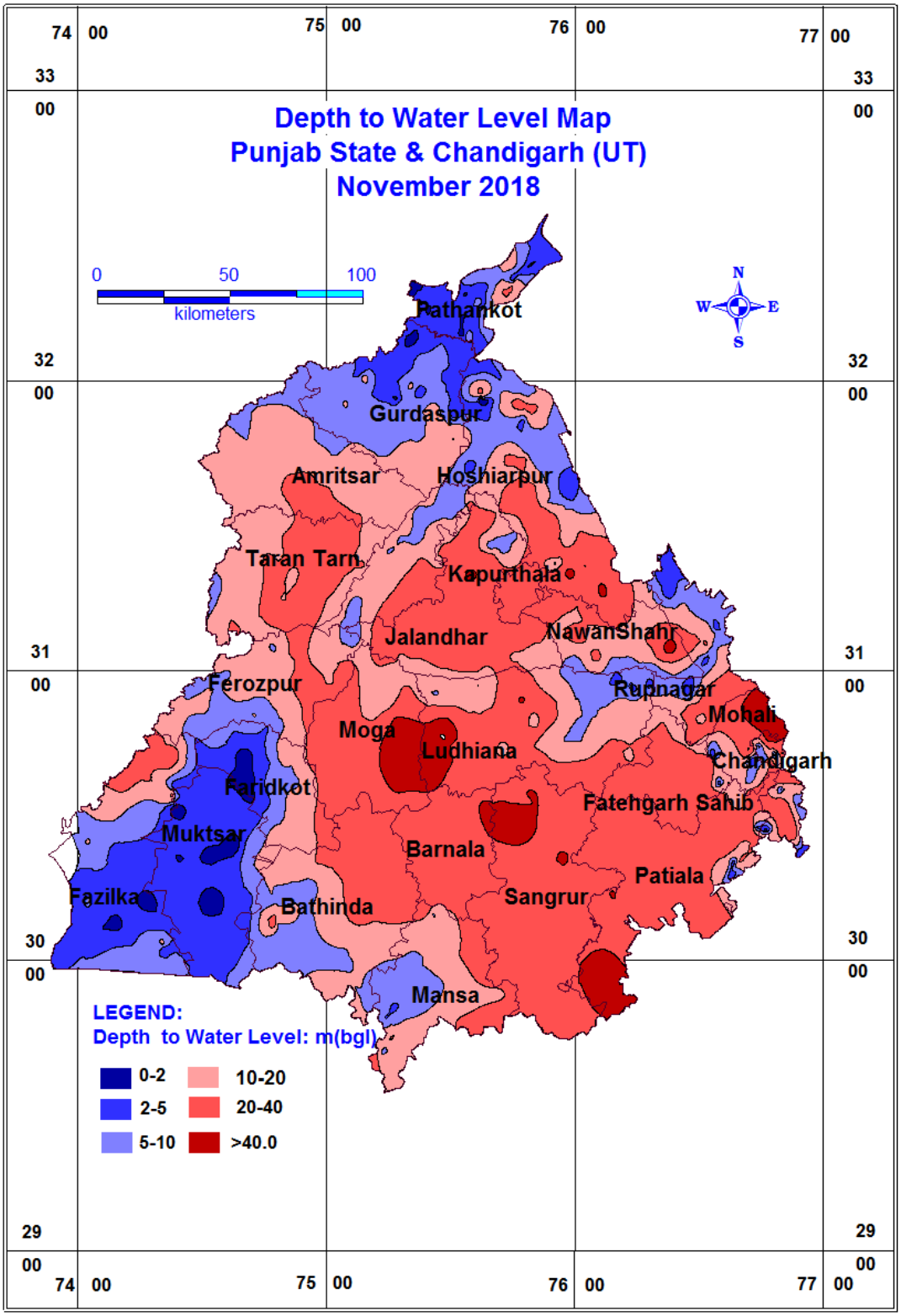


Figure 7 Depth to Water level Map Punjab State & Chandigarh (UT) November 2018

4.1.4 January 2019

The behavioral pattern of water level in January 2019 along with depth to water level map (Fig.8) is discussed below and data is presented in Annexure-I (Col. 7). The depth to water level lies between 0.64 m bgl at Kuttianwalli in Muktsar district and 59.00 mbgl at Nawa Killa PZ in Faridkot district.

Very shallow water levels of 0-2 m (causing water logging) occur in 3% of wells covering nearly 1% 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 17% of wells and 15% of the area fall in this range.

Moderately Deep water levels (10-20 m) are observed in 26% wells covering about 31% 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 observed predominantly covering parts of Tarantaran, Jalandhar, Kapurthala, Hoshiarpur, Nawanshahr, Fatehgarh, Moga, Barnala, Ludhiana, Patiala and Sangrur districts and observed in 38% wells covering about 40% area of the State in central part. Very deep water levels (>40 m) are also observed as small patches in Sangrur, Patiala and SAS Nagar districts and observed in 3% wells covering about 2% area of the State.

Depth to water level range (m bgl)	Wells monitored		Area covered	
	No.	%age	Sq. Km.	%age
0-2	16	3	345	1
2-5	84	13	5478	11
5-10	106	17	7742	15
10-20	164	26	15792	31
20-40	245	38	20285	40
>40	16	3	834	2

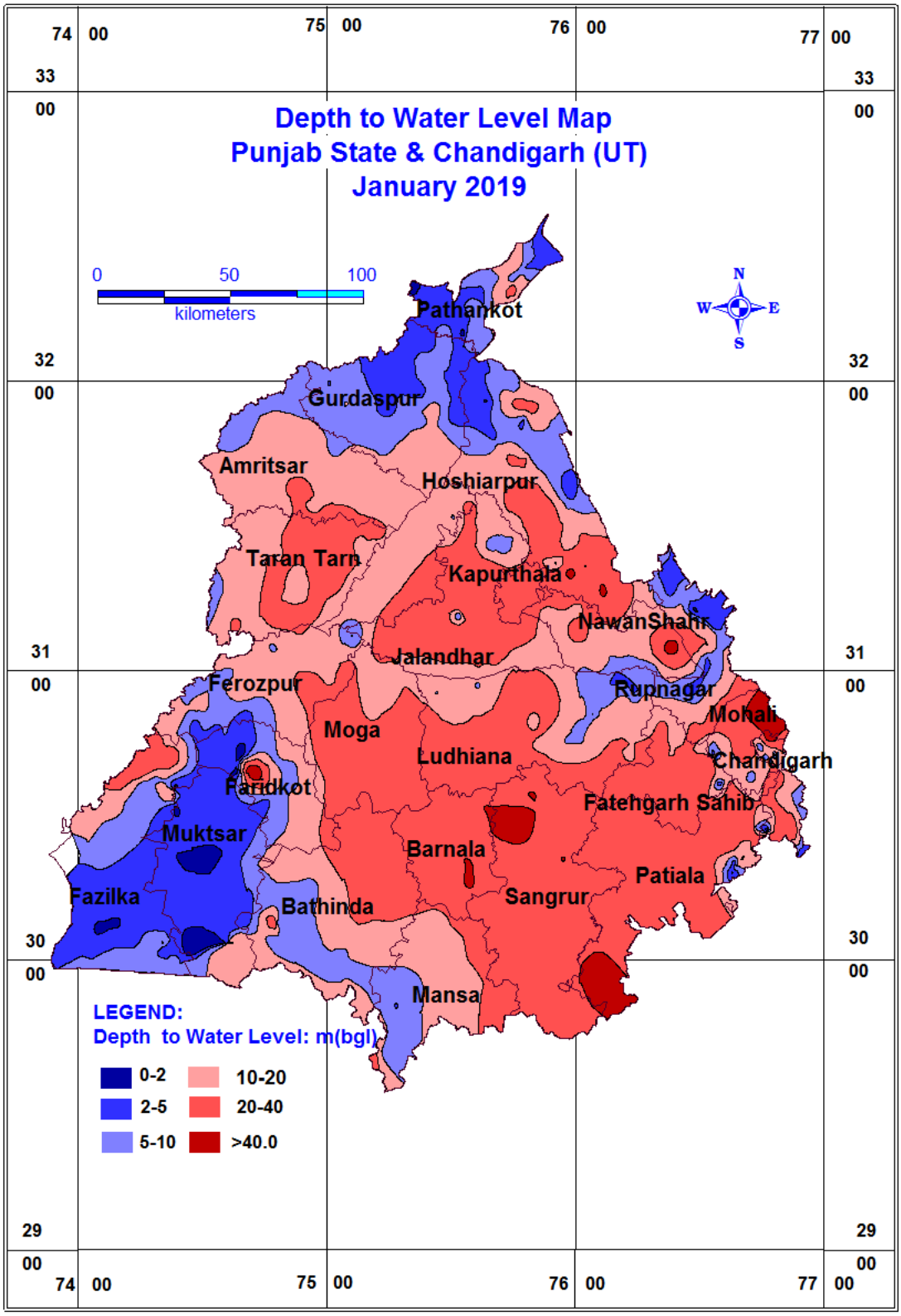


Figure 8 Depth to Water level Map Punjab State & Chandigarh (UT) January 2019

4.2 GROUND WATER TABLE 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.

4.2.1 May 2018

The water table elevation (May, 2018) contours have a maximum value of 665 m amsl rising in the northeastern parts in Dhar Kalan Block of Pathankot district along the Himalayas to 146.81 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 200 m and 147 m in southwestern part of the state 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 2018 is shown in Map (Fig. 9).

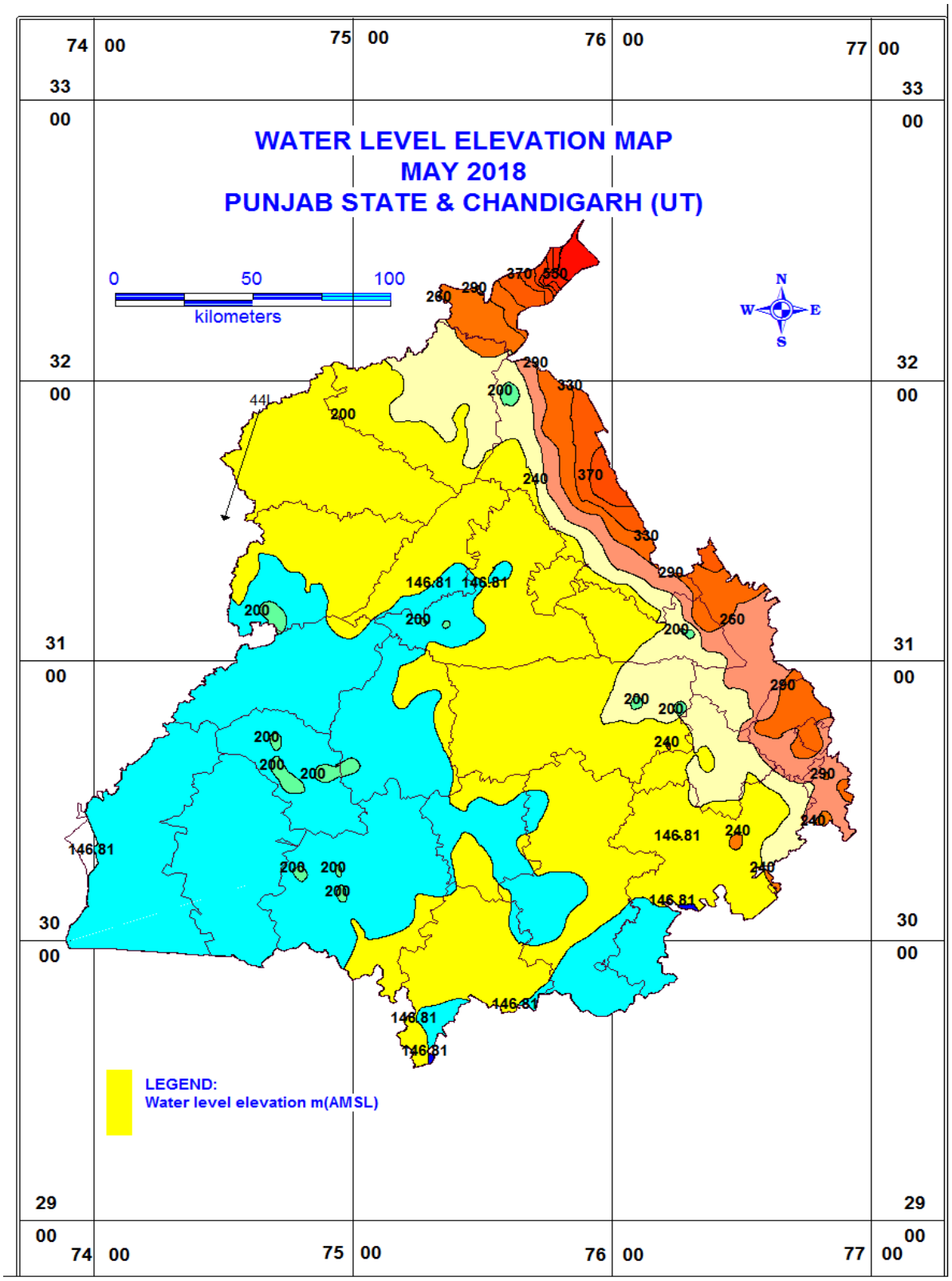


Figure 9 Water level Elevation Map May 2018 Punjab State and Chandigarh (UT)

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.

4.3.1 JANUARY 2018 - MAY 2018

The behavioral pattern of this seasonal fluctuation is discussed along with fluctuation map (Fig. 10) 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 72% of wells monitored and covering 79% 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 66% 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. Water level decline of >4m is not observed during the period.

The water level rise has been recorded in 28% of wells monitored and covering 21% area of the State. Water level rise in the range of 0-2 m is observed in 25% of wells and 20% of the area. Water level rise 2-4m is observed in 3% wells and 1% of area during the period. The water level has been reported in small patches in all Barnala, Gurdaspur and Fatehgarh sahib. Water level decline of >4m is not observed during the period.

Water Level Fluctuation Range (m)		Wells Monitored		Area Covered	
		No.	%age	Sq. Km.	%age
Decline	0-2	463	66	37994	75
	2-4	33	6	1710	4
	>4.0	0	0	0	0
Rise	0-2	175	25	10111	20
	2-4	16	3	470	1
	>4.0	0	0	0	0

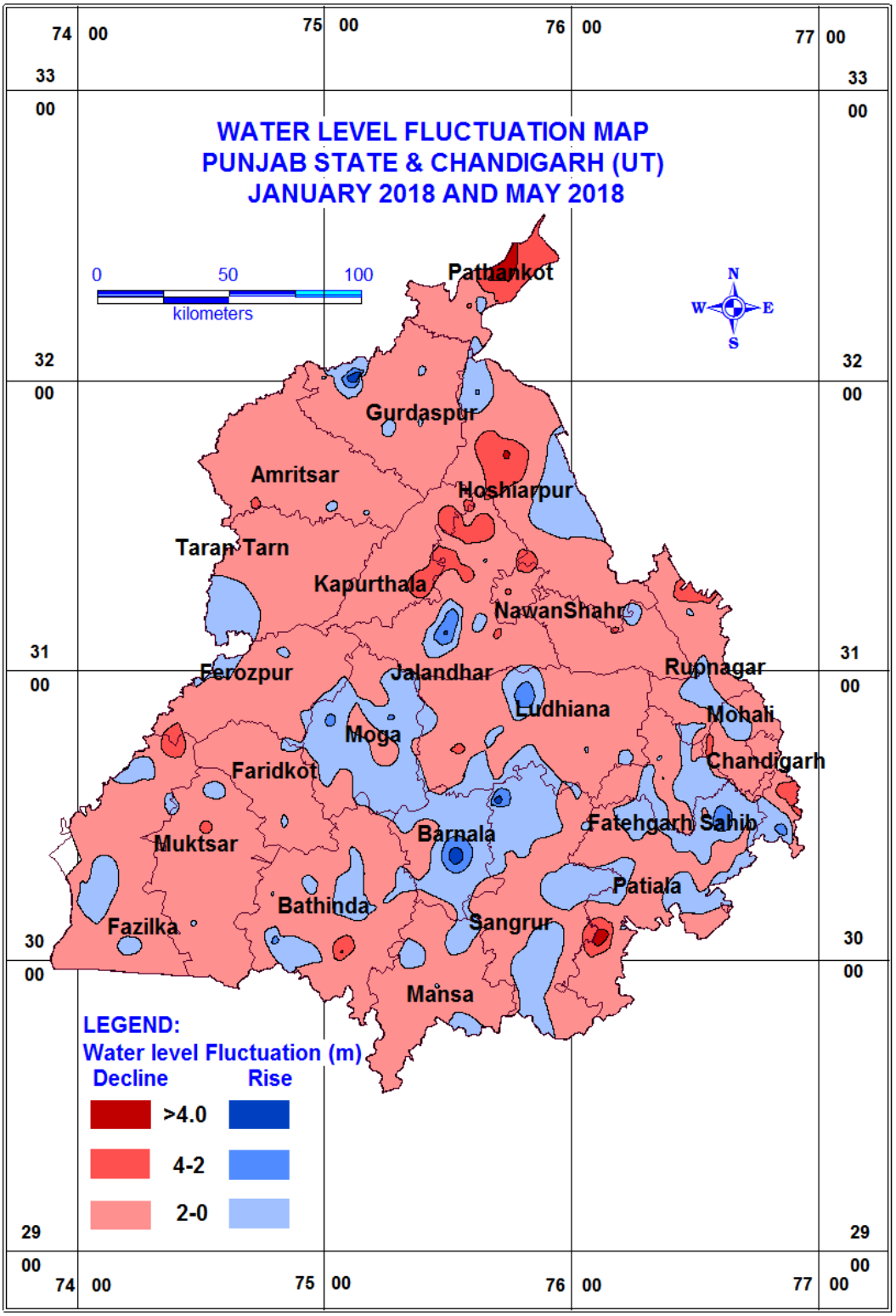


Figure 10 Water level Fluctuation Map Punjab State & Chandigarh (UT) January 2018 and May 2018

4.3.2 MAY 2018 - AUGUST 2018

Water level data of August 2018 is compared with water level data of May 2018 to determine seasonal water level fluctuations. The behavioral pattern of this seasonal fluctuation is discussed along with fluctuation map (Fig. 11) below and the data are presented in Annexure-II (Col.5).

The seasonal fluctuation shows decline of water levels in 51% of wells monitored and covering 76% 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 35% of wells and 56% of area. Water level decline of 2-4m is observed in 14% of wells and 14% of area. Water level decline more than 4m is observed in 2% wells and 6% of area during the period.

The water level rise has been recorded in 49% of wells monitored and covering 24% area of the State. Water level rise in the range of 0-2 m is observed in 40% of wells and 18% of the area in all districts. Water level rise in the range of 2-4m is observed in 8% wells and 4% of area in parts of Pathankot, Hoshiarpur, Rupnagar, Bathinda and Fatehgarh Sahib Districts during the period. Water level rise more than 4m is observed in 1% wells and 2% of area during the period.

Water Level Fluctuation Range (m)		Wells Monitored		Area Covered	
		No.	%age	Sq. Km.	%age
Decline	0-2	80	35	28147	56
	2-4	31	14	7137	14
	>4.0	4	2	3044	6
Rise	0-2	92	40	9316	18
	2-4	18	8	1900	4
	>4.0	3	1	932	2
Total		228	100	50476	100

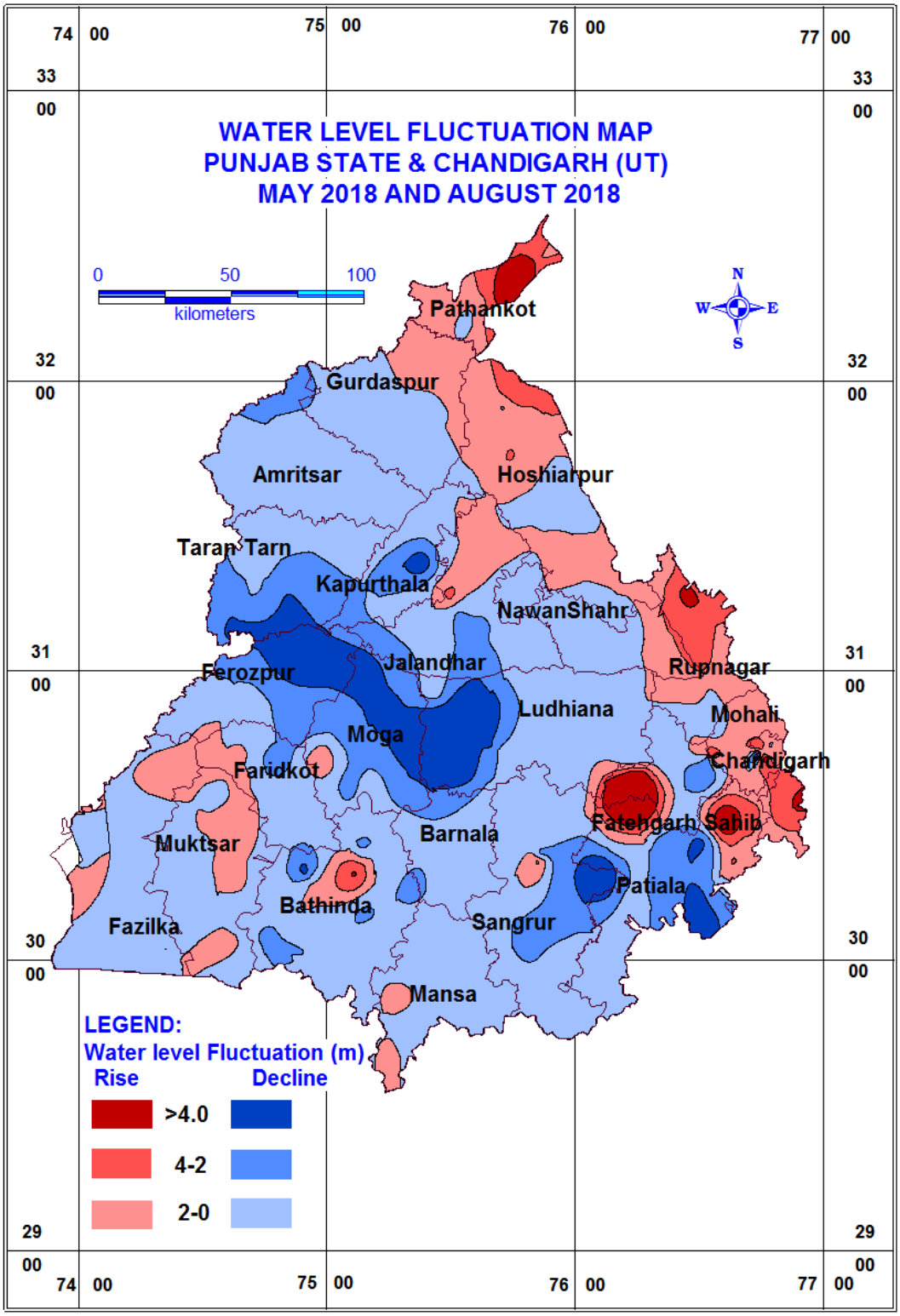


Figure 11 Water level Fluctuation Map Punjab State & Chandigarh (UT) May 2018 and August 2018

4.3.3 May 2018 - November 2018

Water level data of November 2018 is compared with Water level data of May 2018 to determine the seasonal water level fluctuation. The behavioral pattern of this seasonal fluctuation is discussed along with fluctuation map (Fig. 12) below and the data are presented in Annexure-II (Col.6).

The seasonal fluctuation shows that there is a general decline of water levels in 52% of wells monitored and covering 60% area of the State. The fall has been observed dominantely in southern, southeastern and central part of the state. Water level decline in the range of 0-2 m is observed in 44% of wells and 50% of area. Water level decline in the range of 2-4 m is observed in 6% of wells covering 6% of state area. Whereas, water level decline of >4m is observed in 2% of wells and less than 4% of area covering isolated patches in Moga, Ludhiana, Patiala, SAS Nagar and Barnala district.

The water level rise has been recorded in 48% of wells monitored and covering 40% area of the State. The rise in water level has been reported in north, NE and south western parts of the state. Water level rise in the range of 0-2 m is observed in 41% of wells and **35**% of the area. Water level rise 2-4 m is observed in 4% wells and 4% of area during the period. Whereas, water level rise of >4m is observed in 3% of wells and 1% of area covering isolated patches in Pathankot, SAS Nagar and Fatehgarh Sahib districts.

Water Level Fluctuation Range (m)		Wells Monitored		Area Covered	
		No.	%age	Sq. Km.	%age
Decline	0-2	280	44	25102	50
	2-4	39	6	3161	6
	>4.0	12	2	1781	4
Rise	0-2	265	41	17802	35
	2-4	25	4	2041	4
	>4.0	16	3	590	1
Total				50476	100

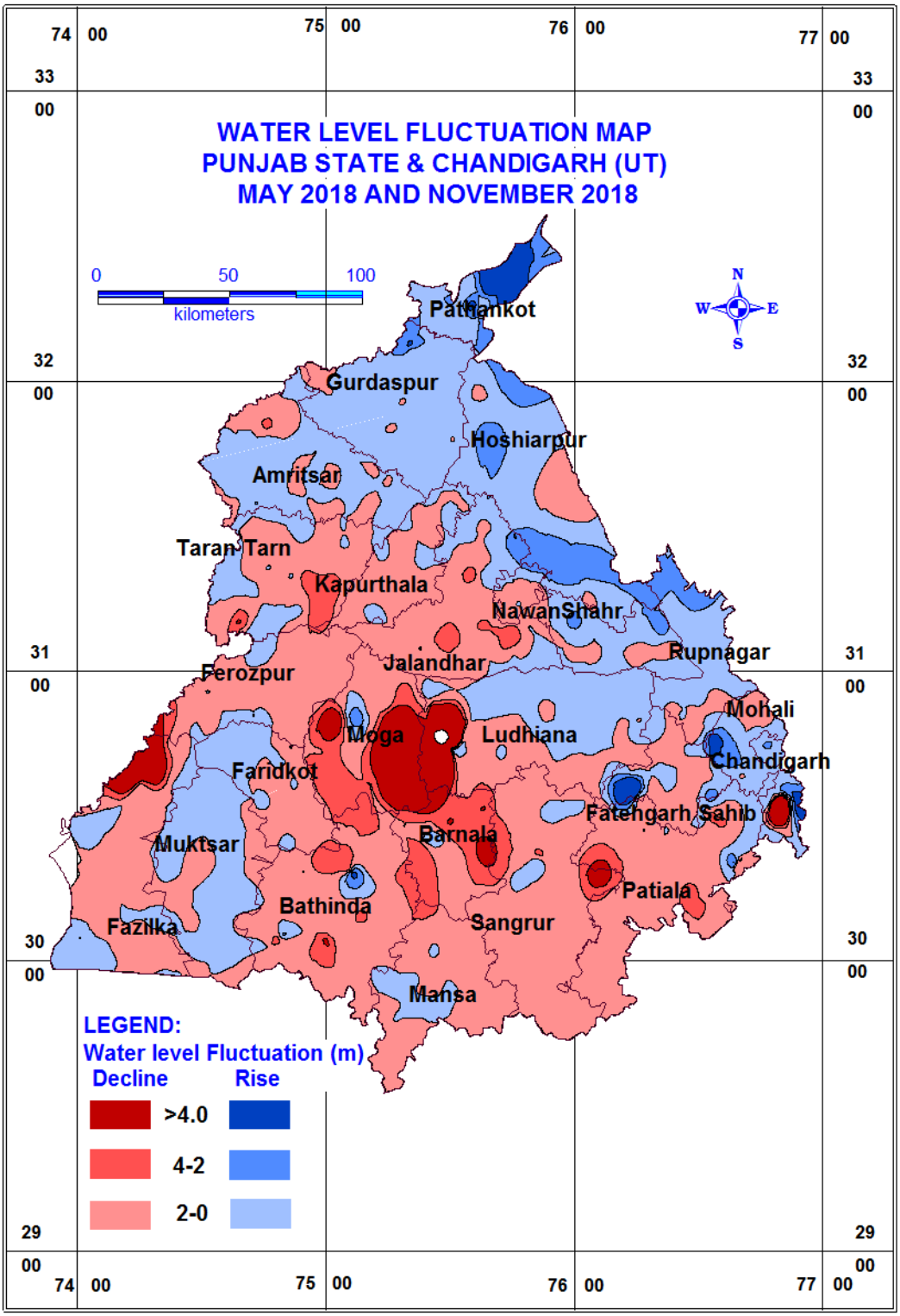


Figure 12 Water level Fluctuation Map Punjab State & Chandigarh (UT) May 2018 and November 2018

4.3.4 May 2018 - January 2019

Water level data of January 2019 is compared with Water level data of May 2018 to determine the seasonal water level fluctuation. The behavioral pattern of this seasonal fluctuation is discussed along with fluctuation map (Fig. 13) below and the data are presented in Annexure-II (Col.7).

The seasonal fluctuation between May 2018 and January 2019 shows that there is a general decline of water levels in 37% of wells monitored and covering 44% area of the State. The decline has been observed mostly in southern and south eastern districts. Water level decline in the range of 0-2 m is observed in 31% of wells and 37% of area. Water level decline in the range of 2-4 m is observed in 4% of wells and 4% of area. Water level decline of >4m is observed in 2% of wells and 3% of area during the period.

The water level rise has been recorded in 63% of wells monitored and covering 56% area of the State. Water level rise in the range of 0-2 m is observed in 51% of wells and 46% of the area. Water level rise 2-4m is observed in 9% wells and 8% of area, whereas, water level decline of >4m is observed in 3% of wells and 2% of area during the period.

Water Level Fluctuation Range (m)		Wells Monitored		Area Covered	
		No.	%age	Sq. Km.	%age
Decline	0-2	172	31	18821	37
	2-4	18	4	2165.	4
	>4.0	11	2	1389	3
Rise	0-2	282	51	22999	46
	2-4	41	9	4131	8
	>4.0	15	3	971	2
Total		539	100	50476	100

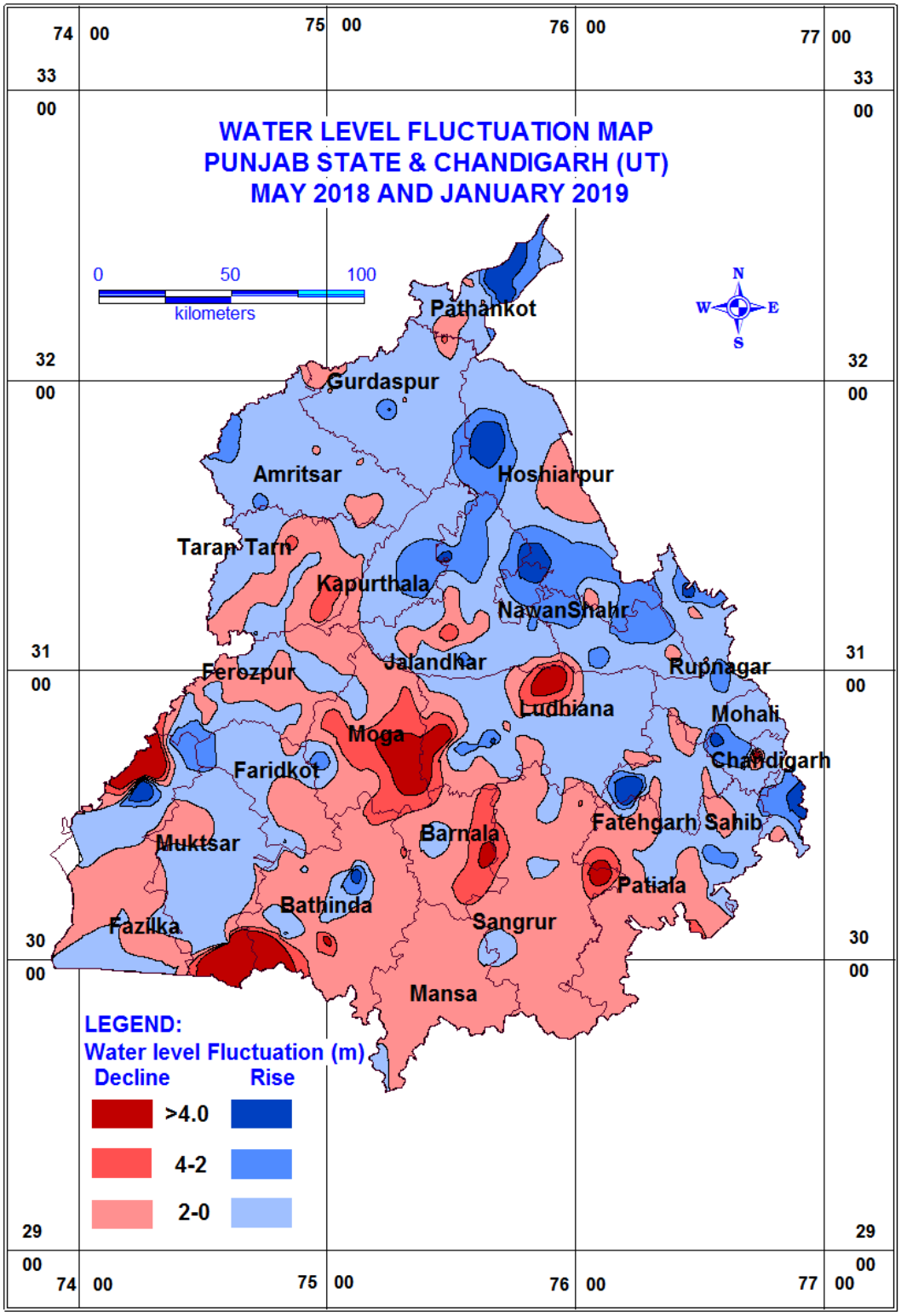


Figure 13 Water level Fluctuation Map Punjab State & Chandigarh (UT) May 2018 and January 2019

4.4 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.

4.4.1 MAY 2017 - MAY 2018

The behavioral pattern of annual fluctuation in Premonsoon season is discussed in the following paragraphs along with fluctuation map **(Fig. 14).** Water level fluctuations data are given in the Annexure-III (Col-4).

The annual fluctuation depicts general decline of water levels in 77% of wells monitored and covering 78% area of the State. The decline has been observed in all the districts, but dominantely in south and central Punjab. Water level decline the range of 0-2 m is observed in 65% of wells and 69% of the area, covering. Water level decline in the range of 2-4 m is observed in 11% of wells and 8% of the area. Whereas, the water level decline of >4m is observed in 1% of wells and 1% of the area during the period, as isolated patches in Nawashehar, Patiala and Bathinda district.

The water level rise has been recorded in 23% of wells monitored and covering 22% area of the State. The water levels rise has been observed mostly in northern part of the state covering Pathankot, Amritsar, Gurdaspur, Hoshiarpur and Taran taran district. The rise is also observed as isolated patches in Jalandhar, SAS Nagar, Moga, Rupnagar, Ferozpur, Fazilka, Muktsar and Bathinda districts of the state. Water level rise in the range of 0-2 m is observed in 20% wells and 21% 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 (m)		Wells Monitored		Area Covered	
		No.	%age	Sq. Km.	%age
Decline	0-2	389	65	35090	69
	2-4	62	11	3992	8
	>4.0	5	1	35090	1
Rise	0-2	120	20	10690	21
	2-4	17	3	439	1
	>4.0	0	0	0	0
Total		593	100	50476	100

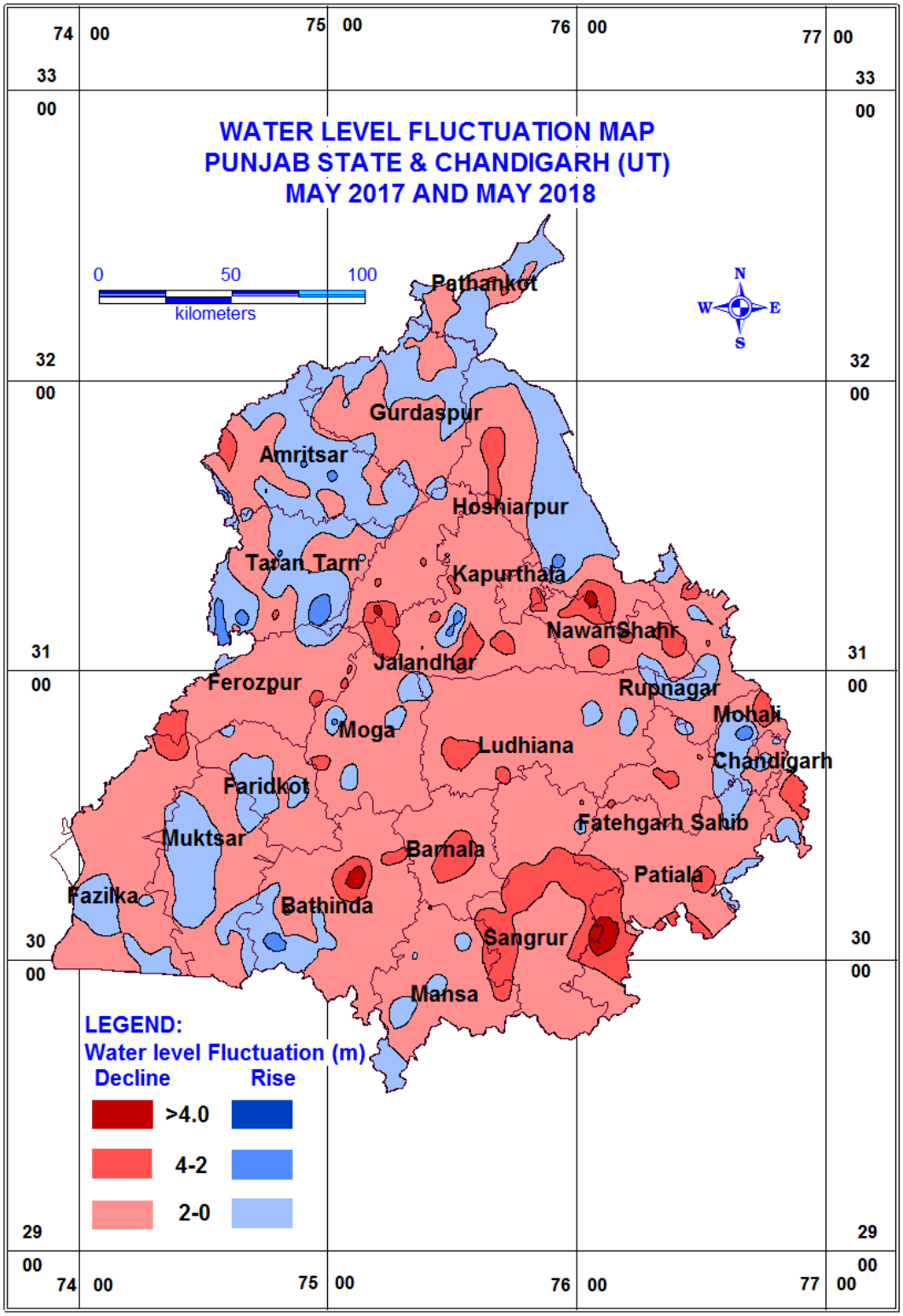


Figure 14 Water level Fluctuation Map Punjab State & Chandigarh (UT) May 2017 and May 2018

4.4.2 AUGUST 2017 - AUGUST 2018

The behavioral pattern of annual fluctuation in Monsoon season is discussed in the following paragraphs along with fluctuation map **(Fig. 15).** Water level fluctuations data are given in the Annexure-III (Col-5).

The annual fluctuation depicts general decline of water levels in 73% of wells monitored and covering 86% area of the State. The decline has been observed in all the districts of the Punjab. Water level decline in the range of 0-2 m is observed in 56% of wells and 70% of the area. Water level decline in the range of 2-4 m is observed in 14% of wells and 16% of the area, whereas, water level decline >4m is observed in more than 3% of wells and less than 1% of the area during the period as isolated patches in Hshiarpur-Nawashehar, and Tarantaran districts.

The water level rise has been recorded in 27% of wells monitored and covering 14% area of the State. The water levels rise has been observed in Nawanshahr, Rupnagar, SAS Nagar, Patiala, Fatehgarh Sahib and Pathankot districts. It is also observed as isolated patches in south- western districts of the state. Water level rise in the range of 0-2 m is observed in 22% wells and 12% of area. Water level rise of more than 2-4m is observed in 2% wells and less 1% of area, whereas, water level rise >4m is observed in more than 2% of wells and less than 1% of the area during the period.

Water Level Fluctuation Range (m)		Wells Monitored		Area Covered	
		No.	%age	Sq. Km.	%age
Decline	0-2	118	56	35333	70
	2-4	29	14	7952	15
	>4.0	7	3	249	1
Rise	0-2	46	22	6017	12
	2-4	4	2	523	1
	>4.0	5	3	402	1
Total		209	100	50476	100

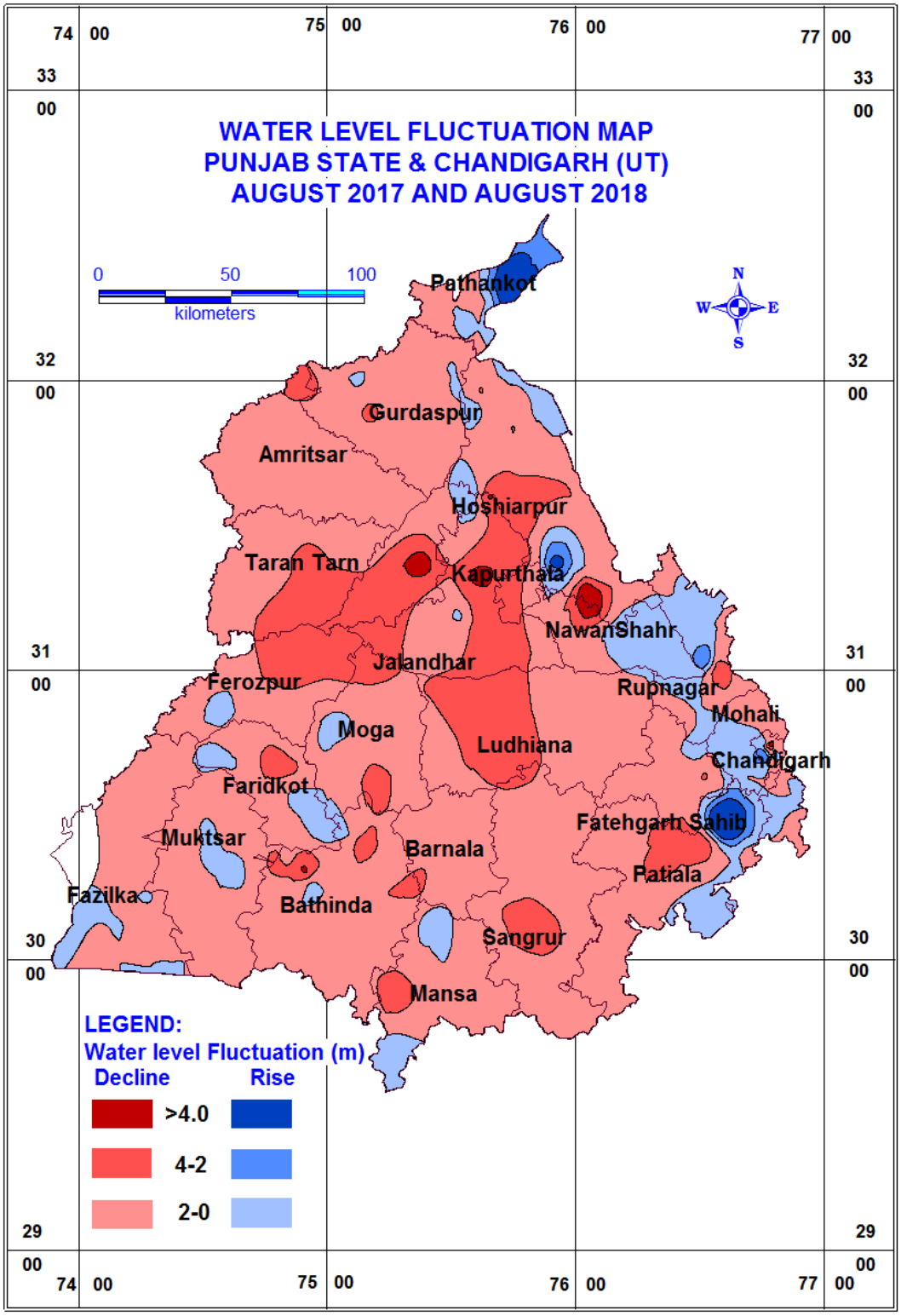


Figure 15 Water level Fluctuation Map Punjab State & Chandigarh (UT) August 2017 and August

4.4.3 November 2017 - November 2018

The behavioral pattern of annual fluctuations Post-Monsoon season is discussed in the following paragraphs along with fluctuation map **(Fig. 16).** Water level fluctuations data are given in the Annexure-III (Col-6).

The annual fluctuation depicts general decline of water levels in 61% of wells monitored and covering 64% area of the State. The decline has been observed in south-central Punjab, covering the parts of Jallandhar, Kapurthala, Ferozpur, Moga Ludhiana, Fatehgarh Sahib, Barnala, Bathinda, Muktsar, Fazilka, Sangrur, Patiala and Mansa districts. Water level decline the range of 0-2 m is observed in 53% of wells and 58% of the area. Water level decline in the range of 2-4 m is observed in 5% of wells and 5% of the area, whereas, water level decline >4m is observed in 3% of wells and less than 1% of the area during the period.

The water level rise has been recorded in 39% of wells monitored and covering 36% area of the State. The water levels rise has been observed dominantely in North and north-western part of the state covering Pathankot, Gurdaspur, Hoshiarpur, Nawanshahr, Ludhiana, Rupnagar and SAS Nagar districts. It is also ovserved as patches in Amritsar, Tarntaran, Ferozpur, Muktsar, Fazilka, Bathinda, Mansa, Kapurthala and Jallandhar districts of the state. Rise in water level is also observed in all the districts of south western parts of the state. Water level rise in the range of rise 0-2 m is observed in 33% wells and 32% of area. Water level rise of more than 2-4m is observed in 5% wells and 3% of area, whereas, water level rise >4m is observed in 1% of wells and less than 1% of the area during the period.

Water Level Fluctuation Range (m)		Wells Monitored		Area Covered	
		No.	%age	Sq. Km.	%age
Decline	0-2	352	53	29446	58
	2-4	29	5	2614	5
	>4.0	15	3	789	1
Rise	0-2	218	33	15918	32
	2-4	31	5	1417	3
	>4.0	6	1	292	1
Total		651	100	50476	100

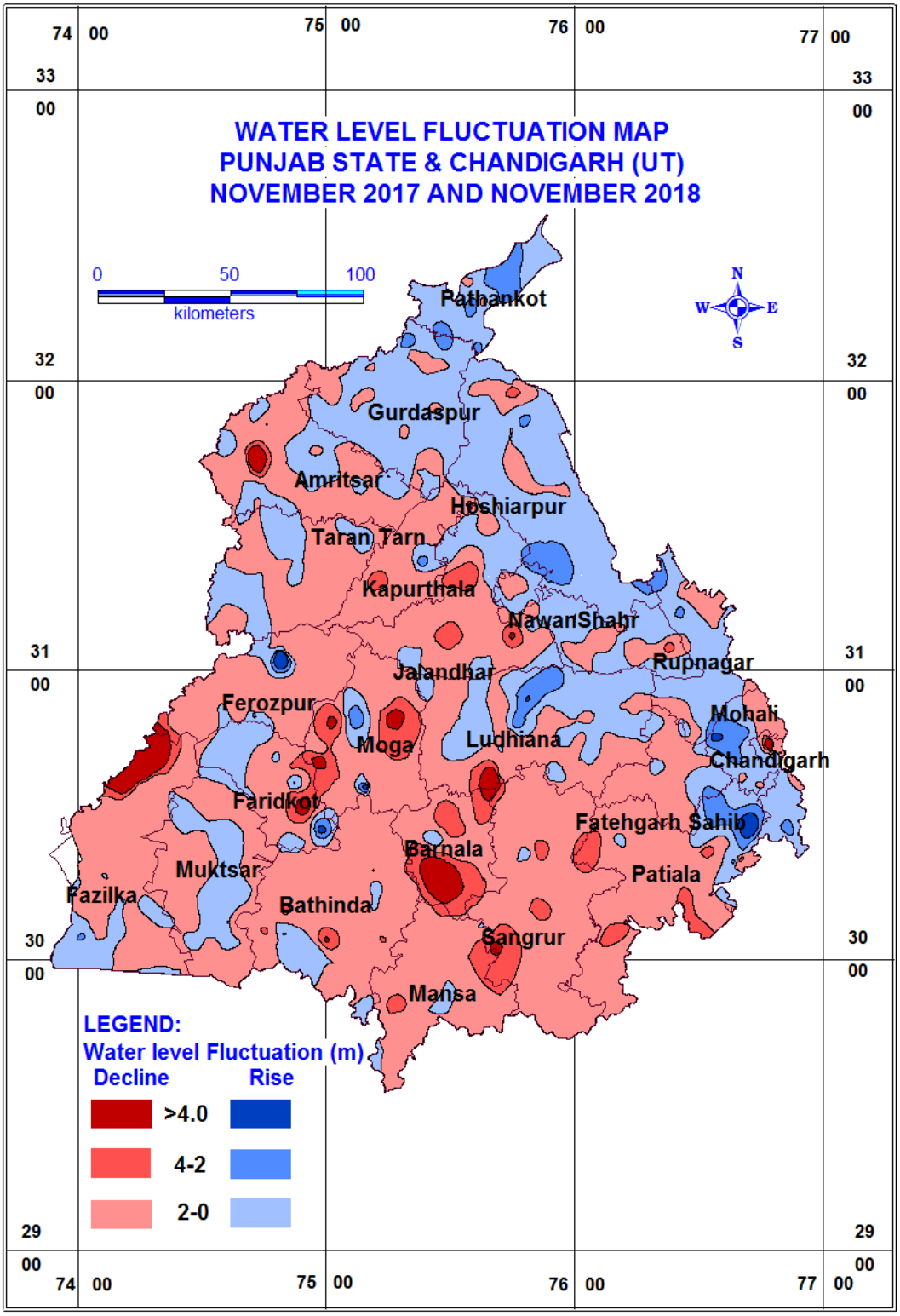


Figure 16 Water level Fluctuation Map Punjab State & Chandigarh (UT) November 2017 ans November 2018

4.4.4 January 2018 - January 2019

The behavioral pattern of annual fluctuations is discussed in the following paragraph along with fluctuation map **(Fig. 17).** 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 57% of wells monitored and covering 64% area of the State. The decline has been observed in all districts in the state, dominantely in central and southern parts of the state. Water level decline the range of 0-2 m is observed in 51% of wells and 55% of the area. Water level decline in the range of 2-4 m is observed in 4% of wells and 6% of the area. The water level decline of >4m is observed in 2% of wells and 3% of the area during the period.

The water level rise has been recorded in 43% of wells monitored and covering 36% area of the State. The water levels rise has been observed dominantely in northern, north eastern and eastern parts of the state. It is also observed as small isolated patches in Ferozpur, Fazilka, Muktsar, and Bathinda south western parts of the state. Water level rise in the range of 0-2 m is observed in 37% wells and 32% of area. Water level rise 2-4m is observed in 5% wells and 3% of area. The water level rise of >4m is observed in 1% wells covering less than 1% area of the state.

water level fluctuation range (m)		Wells monitored		Area covered	
		No.	%age	Sq. Km.	%age
Decline	0-2	263	51	27706	55
	2-4	17	4	2845	6
	>4.0	11	2	1822	3
Rise	0-2	188	37	15987	32
	2-4	24	5	1906	3
	>4.0	7	1	210	1
Total		510	100	50476	100

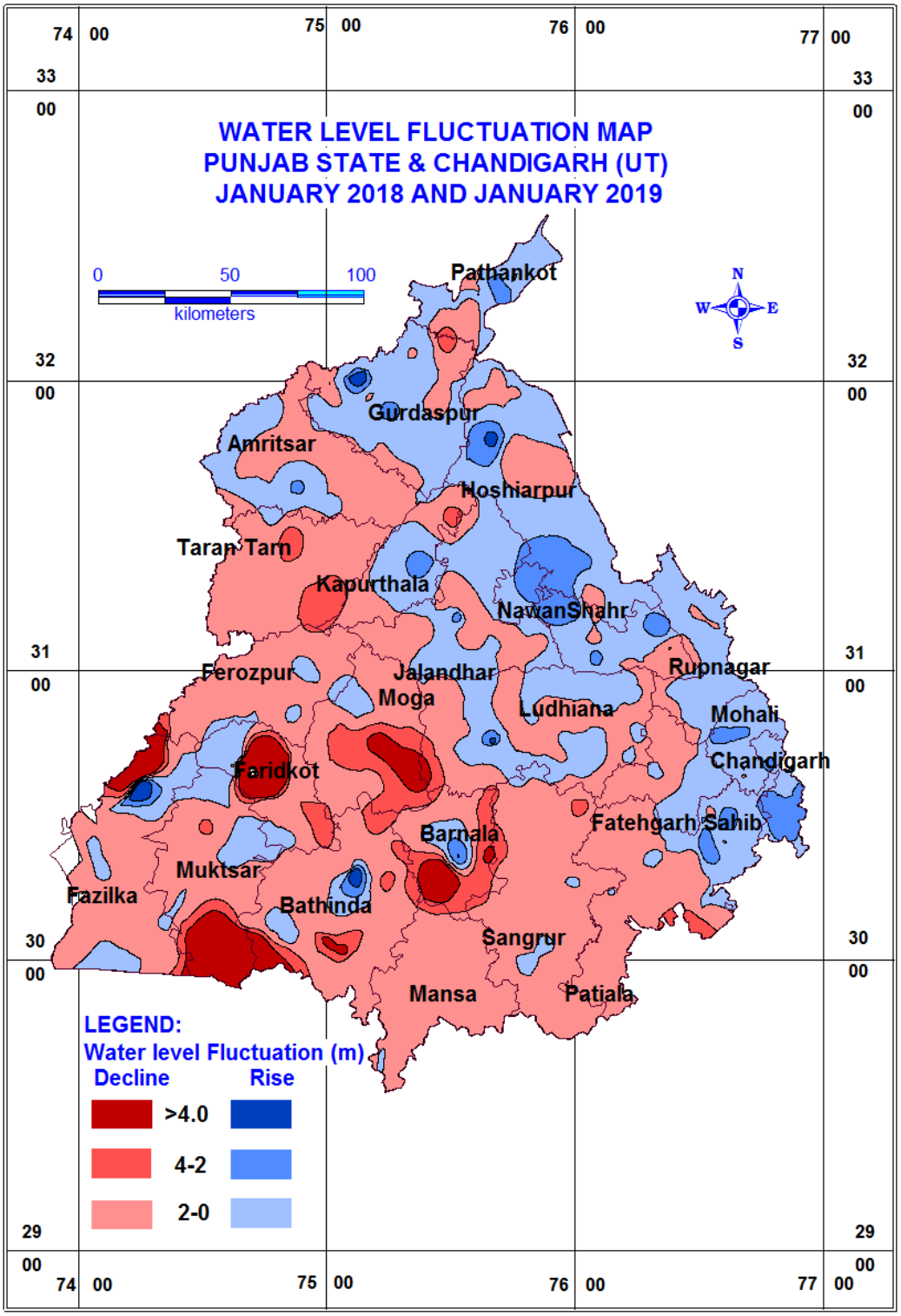


Figure 17 Water level Fluctuation Map Punjab State & Chandigarh (UT) January 2018 and January 2019

4.5 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.

4.5.1 Mean of May (2008:2017) & May 2018

The behavioral pattern of decadal mean fluctuations during aforesaid period is discussed in the following paragraph along with fluctuation map **(Fig. 18).** Water level fluctuations data is given in the Annexure-IV (Col-4).

The decadal mean fluctuations show that decline in 89% of observation wells monitored covering about 92% area of the state. The decline has been observed in all the districts of the state. The decline of 0-2 m has been observed in about 49% of wells and 49% of area. Water level decline of 2-4 m is observed in 25% of the wells and 28% of the area. Water level decline of >4m is observed in about 15% of the wells and 15% of area.

Rise in water level has been observed in 11% of wells and 8% of area as isolated patches in Fazilka, Muktsar, Bathinda, Faridkot, Pathankot, Gurdaspur, Amritsar, Tarntaran, Hoshiarpur, Nawanshahr, Jalandhar, and SAS Nagar districts. Water level rise in the range of 0-2 m is observed in 10% of wells and 7% of the area. Water level rise of 2-4m is observed in less than 1% of wells and less than 1% of the area. Water level rise of >4m is observed in less than 1% of wells and less than 1% of the area.

Water Level Fluctuation Range (m)		Wells Monitored		Area Covered	
		No.	%age	Sq. Km.	%age
Decline	0-2	327	49	24814	49
	2-4	171	25	14311	28
	>4.0	101	15	7856	15
Rise	0-2	66	10	3280	7
	2-4	5	<1	124	<1
	>4.0	3	<1	91	<1

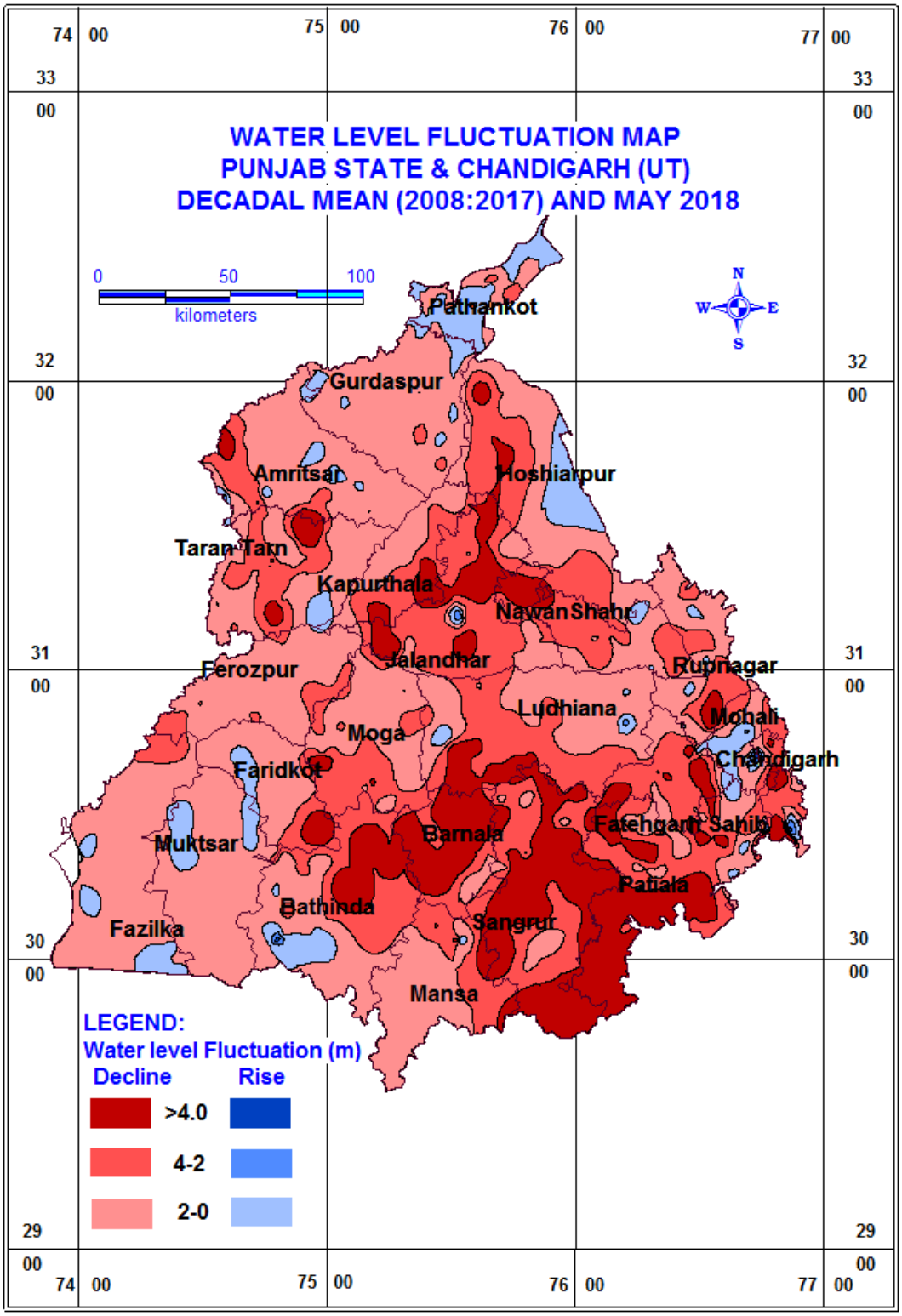


Figure 18 Water level Fluctuation Map Punjab State & Chandigarh (UT) Decadal Mean (2008-17) – May 2018

4.5.2 Mean of August (2008:2017) & August 2018

The behavioral pattern of decadal mean fluctuations of aforesaid period is discussed in the following paragraph along with fluctuation map **(Fig. 19).** Water level fluctuations data are given in the Annexure-IV (Col-5).

The decadal mean fluctuations show that decline in 78% of observation wells monitored covering about 90% 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 41% of wells and 38% of area. Water level decline of 2-4 m is observed in 18% of the wells and 28% of the area. Water level decline of >4m is observed in about 19% of the wells and 24% of area.

Rise in water level has also been observed in 21% of wells and 10% of area in Pathankot, Hoshiarpur, SAS Nagar, Ferozpur, Fazilka, Muktsar, Bathinda and Faridkot districts. Water level rise in the range of 0-2 m is observed in 19% of wells and 8% of the area. Water level rise of 2-4 m is observed in 2% of wells and 1% of the area. Water level rise of >4m is observed in 1% of the wells and less than 1% of the area.

Summarized details of seasonal water level fluctuation in different ranges are given in table below.

Water Level Fluctuation Range (m)		Wells Monitored		Area Covered	
		No.	%age	Sq. Km.	%age
Decline	0-2	92	41	18999	38
	2-4	41	18	14158	28
	>4.0	43	19	12109	24
Rise	0-2	42	19	4240	8
	2-4	4	2	610	1
	>4.0	3	1	360	1

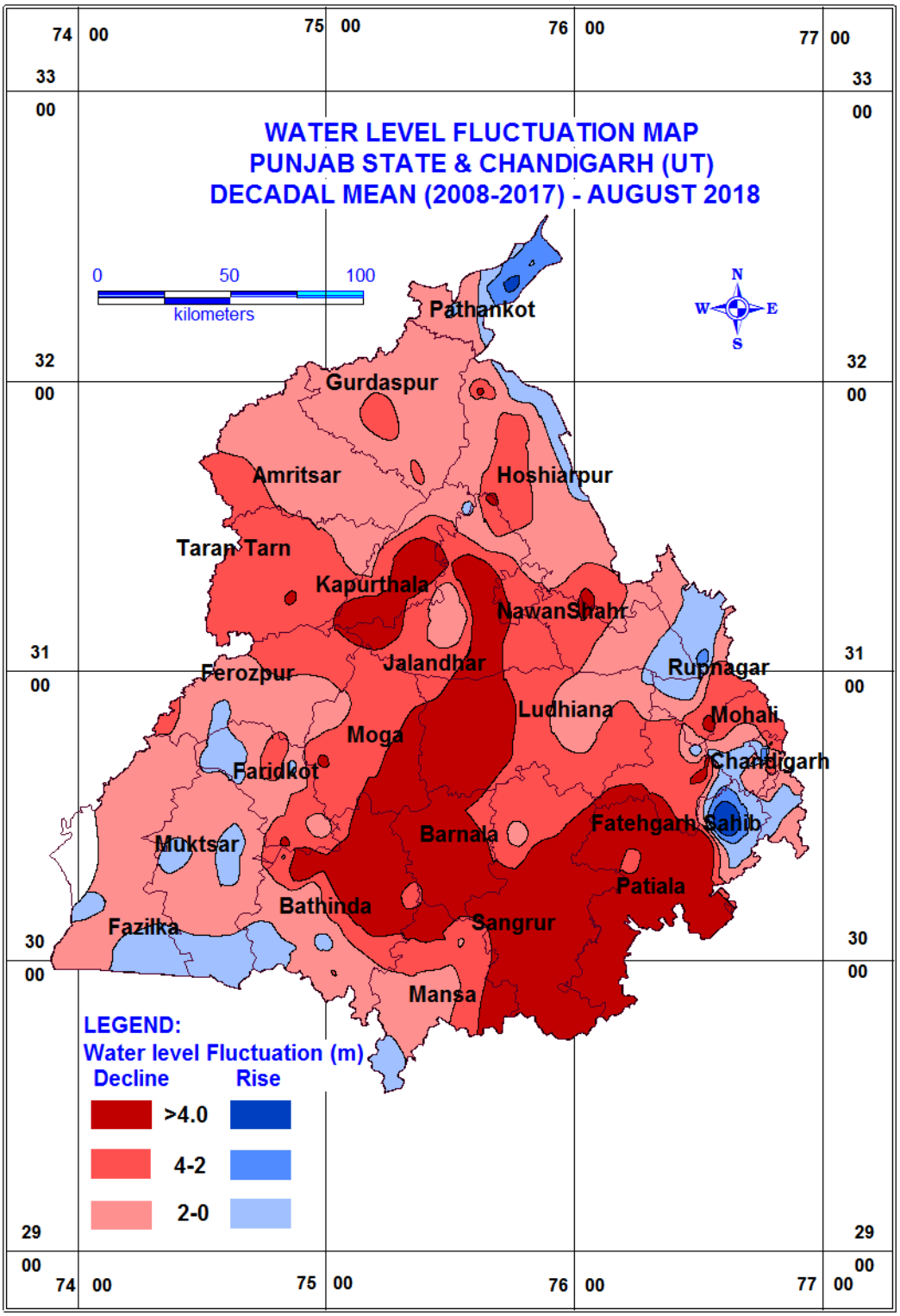


Figure 19 Water level Fluctuation Map Punjab State & Chandigarh (UT) Decadal Mean (2008-17) – August 2018

4.5.3 Decadal Mean November (2008:2017) & November 2018

The behavioral pattern of decadal mean fluctuations of aforesaid period is discussed in the following paragraph along with fluctuation map **(Fig. 20).** Water level fluctuations data are given in the Annexure-IV (Col-6).

The decadal mean fluctuation shows decline in 78% of observation wells monitored covering about 85% area of the state. The decline has been observed central and southern part of the state covering all the districts of the state. The decline of 0-2 m has been observed in about 46% of wells and 45% of area. Water level decline of 2-4 m is observed in 16% of the wells and 22% of the area. Water level decline of >4m is observed in about 15% of the wells and 18% of area dominantely in southern and southeastern part of the state.

Rise in water level has also been observed in 22% of wells and 15% of area. The rise has been observed in small patches in whole of the state. The districts showing rise in water level are in Pathankot, Hoshiarpur, SAS Nagar, Amritsar and Tarntaran districts in north and north eastern parts. Rise in water level is also observed in south western part of the state in Fazilka, Muktsar, Bathinda and Faridkot districts. Water level rise in the range of 0-2 m is observed in 18% of wells and 13% of the area. Water level rise of 2-4 m is observed in 3% of wells and **1**% of the area, whereas, water level rise >4m is observed in 1% of wells and less than 1% of the area during the period

Water Level Fluctuation Range (m)		Wells Monitored		Area Covered	
		No.	%age	Sq. Km.	%age
Decline	0-2	354	46	22592	45
	2-4	136	17	11189	22
	>4.0	113	15	9020	18
Rise	0-2	140	18	6687	13
	2-4	27	3	734	1
	>4.0	6	1	254	1

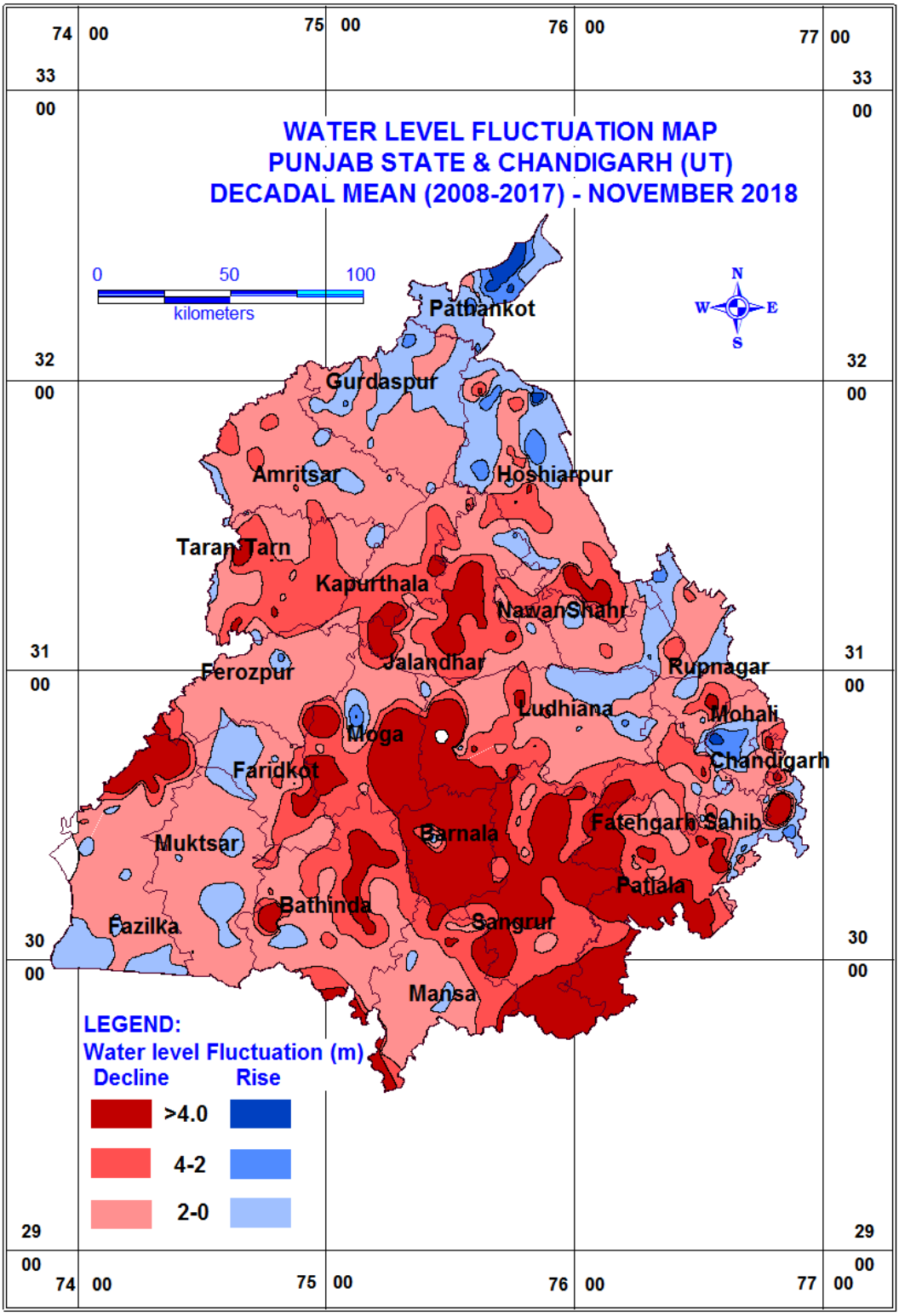


Figure 20 Water level Fluctuation Map Punjab State & Chandigarh (UT) Decadal Mean (2008-17) – November 2018

4.5.4 Decadal Mean of January (2009:2018) & January 2019

The behavioral pattern of decadal mean fluctuations of aforesaid period is discussed in the following paragraph along with fluctuation map **(Fig. 21).** Water level fluctuations data are given in the Annexure-IV (Col-7).

The decadal mean fluctuations show that decline in 76% of observation wells monitored covering about 83% 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 46% of wells and 44% of area. Water level decline of 2-4 m is observed in 16% of the wells and 22% of the area. Water level decline of >4m is observed in about 14% of the wells and 17% of area. It is observed mainly in Moga, Barnala, Sangrur, Mansa, Fatehgarh Sahib and Bathinda district.

Rise in water level has also been observed in 24% of wells and 17% of area in Pathankot, Gurdaspur, Amritsar, Hoshiarpur, Nawanshahr, Ropar and SAS Nagar districts in north and north eastern parts. Rise in water level is also observed in Ferozpur, Fazilka, Muktsarmand Faridkot districts. Water level rise in the range of 0-2 m is observed in 19% of wells and 15% of the area. Water level rise of 2-4m is observed in 4% of wells and 1% of the area. Water level rise >4m is observed in 1% of wells and less than 1% of the area during the period mainly in Pathankot district and Fazilka duistrict as patches.

Water Level Fluctuation Range (m)		Wells Monitored		Area Covered	
		No.	%age	No.	%age
Decline	0-2	285	46	22199.66	44
	2-4	101	16	11247.30	22
	>4.0	88	14	8821.82	17
Rise	0-2	120	19	7399.94	15
	2-4	21	4	596.83	1
	>4.0	5	1	210.00	1

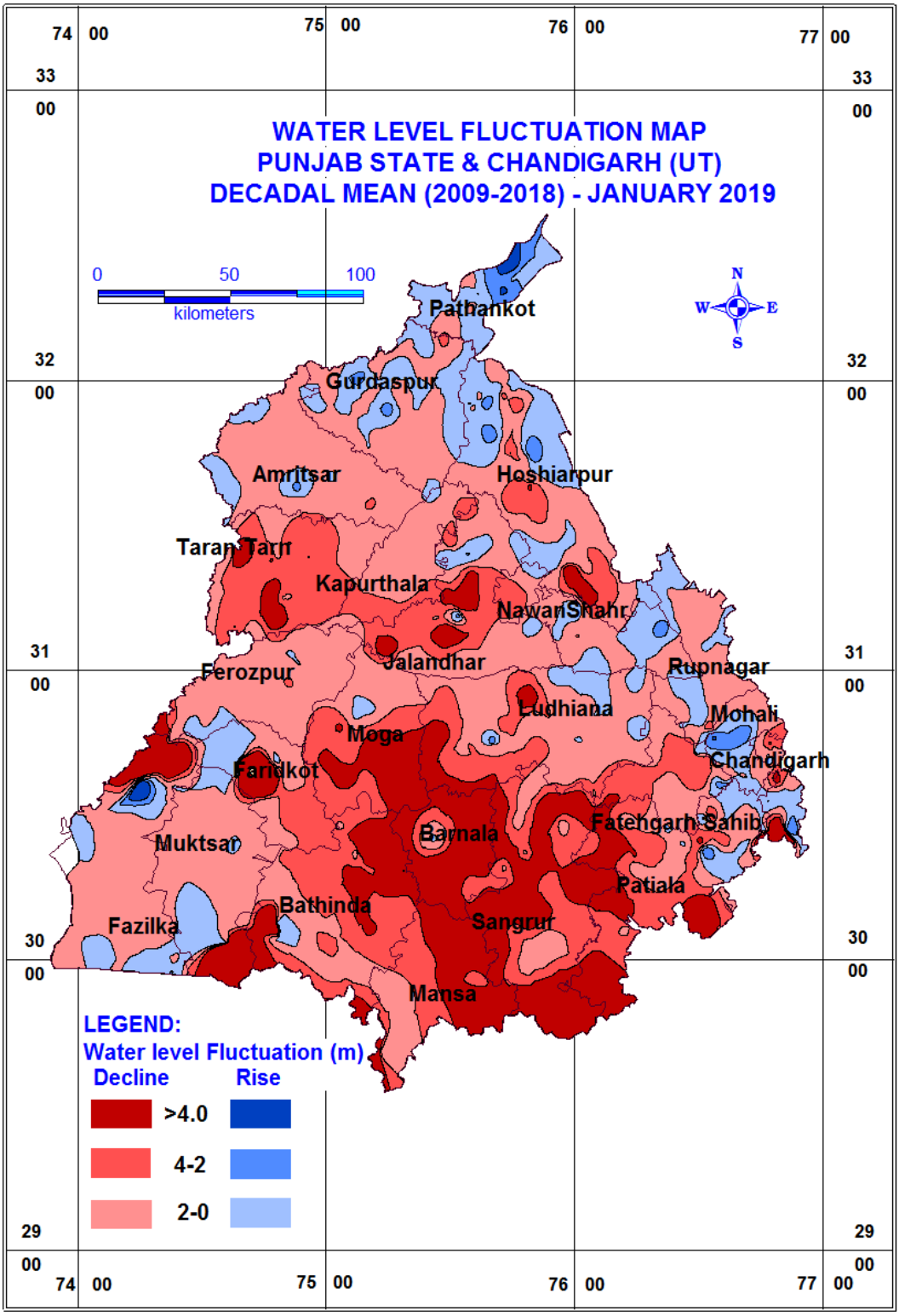


Figure 21 Water level Fluctuation Map Punjab State & Chandigarh (UT) Decadal Mean (2009-18) – January 2019

5.0 GROUND WATER QUALITY IN PUNJAB AND CHANDIGARH

Evaluation of ground water quality through concentration of its physical, chemical and biological parameters is essential to determine its suitability for the intended use. It helps not only in finding its suitability but, it also helps in taking effective remedial measures for its improvement on scientific lines. In most of rural and semi-urban areas of Punjab State, ground water is a major resource for drinking and irrigation uses especially in areas where surface water is inadequate or unavailable. Acknowledging the importance of this aspect of ground water, C.G.W.B., N.W.R., Chandigarh annually monitors the ground water quality through dedicated Ground Water Monitoring Stations consisting of dug wells and/or hand pumps of shallow depth. During May 2018, 280 no. ground water samples were collected from these structures spread uniformly over 22 districts of Punjab and no specific treatment such as acidification or filtration was given at the time of sampling. Map Showing the Sampling point of Punjab state in **Fig.22**

The water samples were analyzed for major cations (Ca, Mg, Na, K) and anions (CO_3, HCO_3, Cl, NO_3, SO_4) in addition to pH, EC, F, SiO_2, PO_4 and TH as $CaCO_3$ in Regional Chemical Laboratory by following 'Standard analytical procedures' as given in APHA 2017. Results of chemical analysis of water samples are placed in Annexure-V

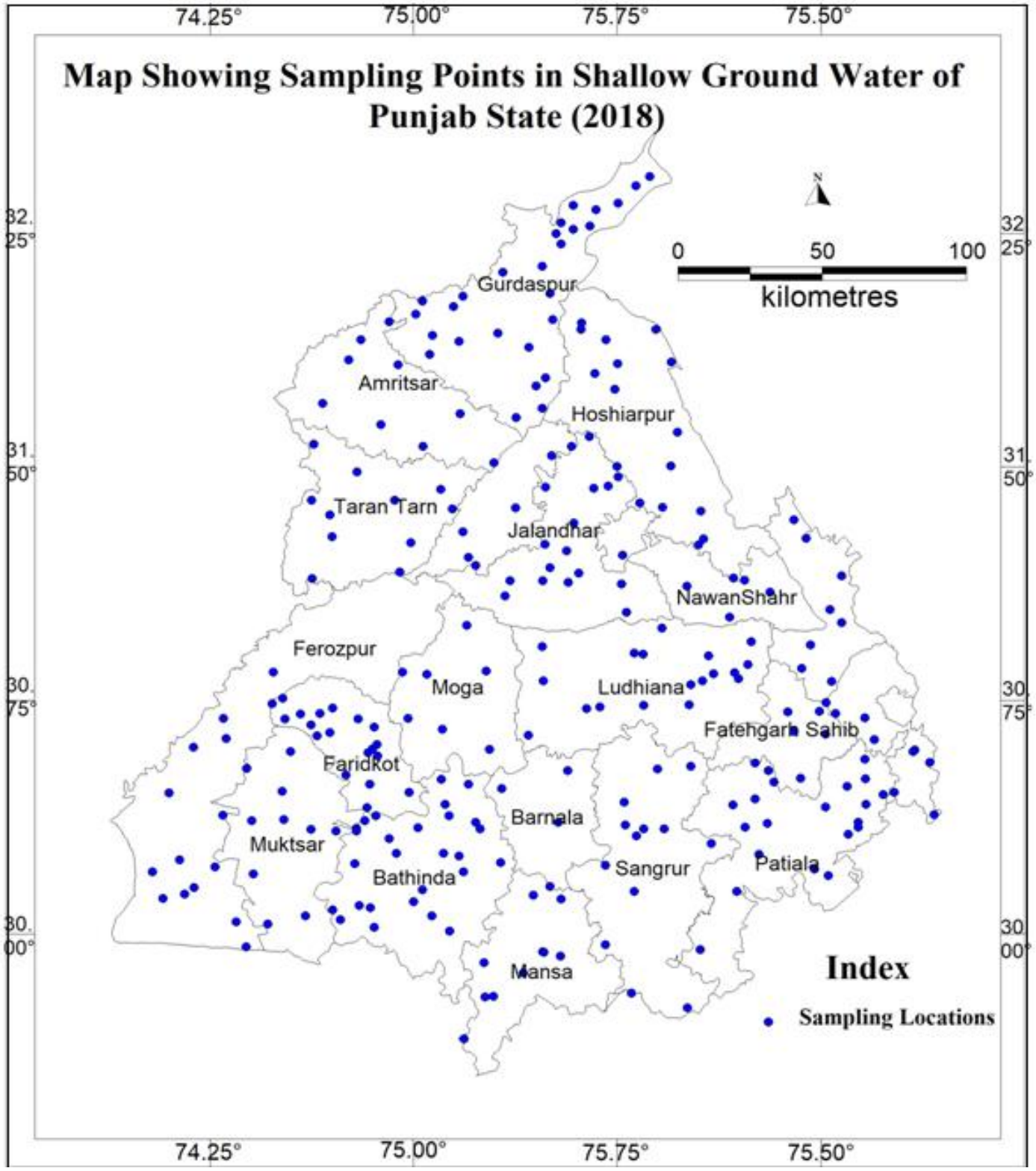


Figure 22 Map showing points in Shallow Ground water of Punjab State (2018)

5.1 Composition of Ground Water

Chemical analysis shows that the ground water is slightly to moderately alkaline in nature. The pH values range from 7.44 at Lil in Ludhiana district to 9.35 at Panduri in Gurdaspur district. Salinity of ground water is measured in terms of EC. The ground water is found to have low to very high salt content as the EC of well water ranges from 177 μS/cm at Kotkapura in district Faridkot to 11500 μS/cm at Abohar in district Firozpurt. Hardness reported in terms of $CaCO_3$ ranges from 35 to 2102 mg/l. The lowest hardness value is found at Kotkapura in district Faridkot and highest at Abohar in district Firozepur. The concentration of calcium ranges between 2 and 545 mg/l. Calcium below detection level has not been found in the State while the highest value is observed at Doda in district Muktsar. Magnesium concentration ranges between 2mg/l at Adowalgarhi district Hoshiarpur and 396 mg/l at Sirsini in district SAS Nagar. In majority of ground water samples, calcium concentration is less than 100 mg/l (90%). Calcium is very low in some districts, though it is very essential element for drinking and irrigation purposes. However, magnesium is less than the desirable limit of 30 mg/l in 50% samples and less than the maximum permissible limit of 100 mg/l for drinking waters (BIS 1991) in 92% samples. In more than half of well waters examined, Ca + Mg are the dominant cations having their concentration almost 50% of the total cation determined.

Sodium is the dominant cation in majority of ground waters of districts Bhathinda, Faridkot, Ferozepur, Mansa, Moga, Muktsar, Patiala, Sangrur, SAS Nagar and Tarantaran. Its concentration varies widely from 1.4 mg/l at Harchowal district Gurdaspur to 1960 mg/l at Abohar in district Firozpur. Sodium concentration is less than 100 mg/l in more than half of well waters under consideration. Potassium is found to be present in low concentration. In majority of the samples analyzed, the potassium content is less than 10 mg/l (65%). It ranges from 0.1 mg/l at Alamgarh district Firozpurto 558 mg/l at Sarawali district Mukatsar High concentration of potassium (>100mg/l) is found in 7% samples. Its higher concentration indicates contamination of ground water from various point (industry, sewage) as well as non-point sources (agriculture).

Carbonate is found in a few samples and it varies from 0 to 228 mg/l at Lohari in district Bathinda. Bicarbonate is the dominant anion and it ranges from 37 mg/l at

Adhowalgarhi at Hoshiarpur, district Bhatinda to 1050 mg/l at Lohari district Bhatinda. The chloride concentration in ground water varies between 7.0 mg/l at Bhamnnaur, district Hoshiarpur and 1744 mg/l at Abohar in district Firozpur. The Sulphate (SO_4) content in ground waters was found to be BDL at several places in the State. The highest value of 3354 mg/l of sulphate has been observed at Abohar in district Firozpur. In majority of ground water samples (77%), the concentration of sulphate is below 200 mg/l. Nitrate, an indicator of domestic, irrigation and industrial contamination, is found in significant number of samples. Its concentration in groundwater ranges from <0.20 mg/l a few places to 460mg/l at Bhaniana Mukatsar, district. The fluoride (F) content in ground water of the State is generally less than 1.0 mg/l (82%). It ranges from <0.05mg/l at few places in the State to 8.00 mg/l at Swahwala, district Firozpur. Phosphate concentration varies from <0.10mg/l to 4.61 mg/l while Silica concentration, measured as SiO_2, ranged between 2.65 to 33 mg/l.

The district-wise concentration range of various chemical components in ground water is depicted in Table 7.

Table-7: Range of Chemical Constituents in Groundwater of Punjab State

S. No.	District	No. of Samples	Min/ Max	pH	EC* in µS/cm at 25^0C	CO3	HCO3	Cl	SO4	NO3	F	PO4	Ca	Mg	Na	K	SiO2	TH	SAR	RSC in meq/l
						mg/l														
1	Amritsar	11	Min	8.09	419	0	164	21	BDL	<0.20	0.07	<0.1	24	20	15	4.2	7	152	0.46	-1.30
			Max	8.52	1798	50	578	139	215	93	0.54	<0.1	65	39	309	31	28	303	10.25	6.03
2	Barnala	3	Min	8.15	789	0	139	28	BDL	1.63	0.28	<0.1	20	15	81	7.4	10	132	0.46	-1.30
			Max	8.34	1187	37	503	83	282	23	0.72	<0.1	28	42	203	7.7	24	233	10.25	6.03
3	Bathinda	26	Min	7.9	291	0	110	14	BDL	<0.20	0.17	<0.1	2	13	5.7	0.2	4.5	80	0.21	-21.04
			Max	9.21	4390	228	1050	485	1633	273	4.1	0.15	44	319	942	396	28	630	32.27	22.32
4	Faridkot	23	Min	7.89	177	0	55	14	BDL	0.47	<0.050	<0.1	4	6	4.4	0.2	2.7	35	0.17	-4.97
			Max	8.88	4078	78	793	798	847	162	4.4	<0.1	66	97	782	220	25	480	27.78	12.21
5	Fatehgarh Sahib	7	Min	8.18	514	0	146	14	7	<0.2	0.25	<0.1	8	7	61	2.3	15	50	2.10	-0.20
			Max	8.88	727	84	317	88	49	57	3.5	<0.1	24	39	175	39	26	220	10.90	6.43
6	Firozpur	20	Min	7.75	340	0	85	14	10	<0.20	0.08	<0.1	6	9	11	0.1	4.02	60	0.40	-37.29
			Max	8.86	11500	84	756	1744	3354	230	8	<0.1	304	325	1960	400	29	2102	42.87	13.16
7	Gurdaspur	20	Min	7.89	219	0	63	21	BDL	<0.20	<0.050	<0.1	24	15	1.4	0.3	6	132	0.05	-2.75
			Max	9.35	1320	99	530	125	88	79	0.65	<0.1	85	52	178	140	32	394	4.83	5.03
8	Hoshiarpur	19	Min	8	194	0	37	7	BDL	<0.20	0.14	<0.1	12	2	8.7	1	14	70	0.40	-2.18

			Max	9.02	740	60	268	78	56	96	0.86	0.1	64	56	94	47	27	260	3.74	2.21
9	Jalandhar	17	Min	7.82	315	0	189	14	BDL	<0.20	0.01	0.1	24	12	14	3.6	13	121	0.49	0.07
			Max	8.41	1357	62	440	250	106	149	0.84	0.1	57	39	264	9.9	30	303	10.52	3.19
11	Kapurthala	8	Min	7.98	358	0	51	14	BDL	<0.20	<0.05	0.1	4	5	28	1.05	16	41	0.93	0.52
			Max	8.41	642	50	377	49	85	28	0.47	0.1	40	30	95	8.8	28	222	5.83	2.56
12	Ludhiana	19	Min	7.44	521	0	251	21	BDL	<0.20	<0.05	0.1	28	22	6.2	4	12	111	0.16	-4.93
			Max	8.28	1560	0	893	186	96	76	1.02	0.1	81	98	224	35	28	455	5.51	8.37
13	Mansa	11	Min	7.87	292	0	91	14	19	<0.20	0.18	0.08	6	11	8.2	0.3	2.65	115	0.33	-2.02
			Max	8.93	6050	132	690	1195	1674	85	2.45	0.14	30	89	1314	233	30	405	28.55	5.21
14	Moga	7	Min	7.85	423	0	226	21	BDL	<0.20	0.16	0.1	16	7.3	17	4	17	71	0.55	0.10
			Max	8.42	1809	51	792	97	342	53	0.81	0.1	44	57	410	12	27	344	15.09	8.55
15	Muktsar	9	Min	7.44	857	0	122	99	134	23.6	0.21	0.08	16	27	63	1.5	12	170	1.53	-38.03
			Max	8.59	7290	60	525	1404	1440	460	0.75	4.61	545	229	1176	558	30	2002	16.33	2.99
16	Nawashaher	5	Min	8.02	332	0	134	7	7	<0.20	0.19	0.1	12	22	30.1	1	18	120	1.00	0.41
			Max	8.65	648	48	342	21	67	14	0.51	0.1	40	34	78	4.9	25	220	2.59	2.17
17	Pathankot	12	Min	8.14	187	0	76	14	BDL	<0.20	0.14	0.1	28	4.9	2	0.4	6	101	0.09	-1.11
			Max	8.66	1122	62	453	104	BDL	34	0.41	0.1	73	71	91	53	33	404	1.97	1.46
18	Patiala	16	Min	7.51	267	0	101	14	**BDL**	0.20	0.31	0.1	8	7.4	6.2	1.4	10	51	0.22	-3.26
			Max	8.42	2504	86	779	334	581	30	2.8	0.1	93	86	498	40.7	26	586	18.89	7.30
19	Roop Nagar	8	Min	8.08	435	0	110	14	14	<0.20	0.4	0.1	8	10	11.9	0.3	14	70	0.37	-1.36
			Max	8.85	2040	96	354	193	167	253	1.45	0.1	40	80	149	292	23	350	7.33	2.98
20	Sangrur	15	Min	7.53	477	0	264	21	BDL	<0.20	0.3	0.1	24	17	12	5	11	132	0.35	-1.32
			Max	8.37	1702	50	867	104	110	97	1.03	0.1	65	71	358	20	29	435	13.67	11.61

21	SAS Nagar	10	Min	7.84	575	0	110	14	BDL	<0.20	0.4	0.1	12	7	51.3	1	14	90	1.39	-28.16
			Max	8.72	7560	96	464	1128	599	250	0.93	0.1	64	396	591	34	20	1791	9.05	3.81
22	Tarantaran	12	Min	8.11	258	0	50	14	BDL	<0.20	0.08	0.1	20	17	2	0.3	10	152	0.07	-0.91
			Max	8.84	1148	99	440	77	200	24	1.11	0.1	44	54	218	45	28	303	7.04	7.29
			Min	7.44	177	0	37	7	BDL	<0.20	<0.05	0.08	2	2	1.4	0.1	2.65	35	0.05	-38.03
	Grand Total	278	Max	9.35	11500	228	1050	1744	3354	460	8	4.61	545	396	1960	558	33	2102	42.87	13.16

5.2 Distribution of EC

The EC value of ground waters in the State varies from 177 to 11500 µS/cm at 25°C. Grouping water samples based on EC values, it is found that 49 % of them have EC less than 750 µS/cm, 42.44 % have between 750 and 3000 µS/cm and the remaining 8.63% of the samples have EC above 3000 µS/cm. The figure 23 is showing aerial distribution of EC with intervals corresponding to limits assigned for desirable, permissible and unsuitable classes of waters indicates that desirable class of waters occur in northern and central area of the State. The ground water occurring in the southern and southwestern parts comprising of Bhatinda, Faridkot, Ferozepur, Ludhiana, Muktsar and Sangrur districts is mostly line and not suitable for drinking uses.

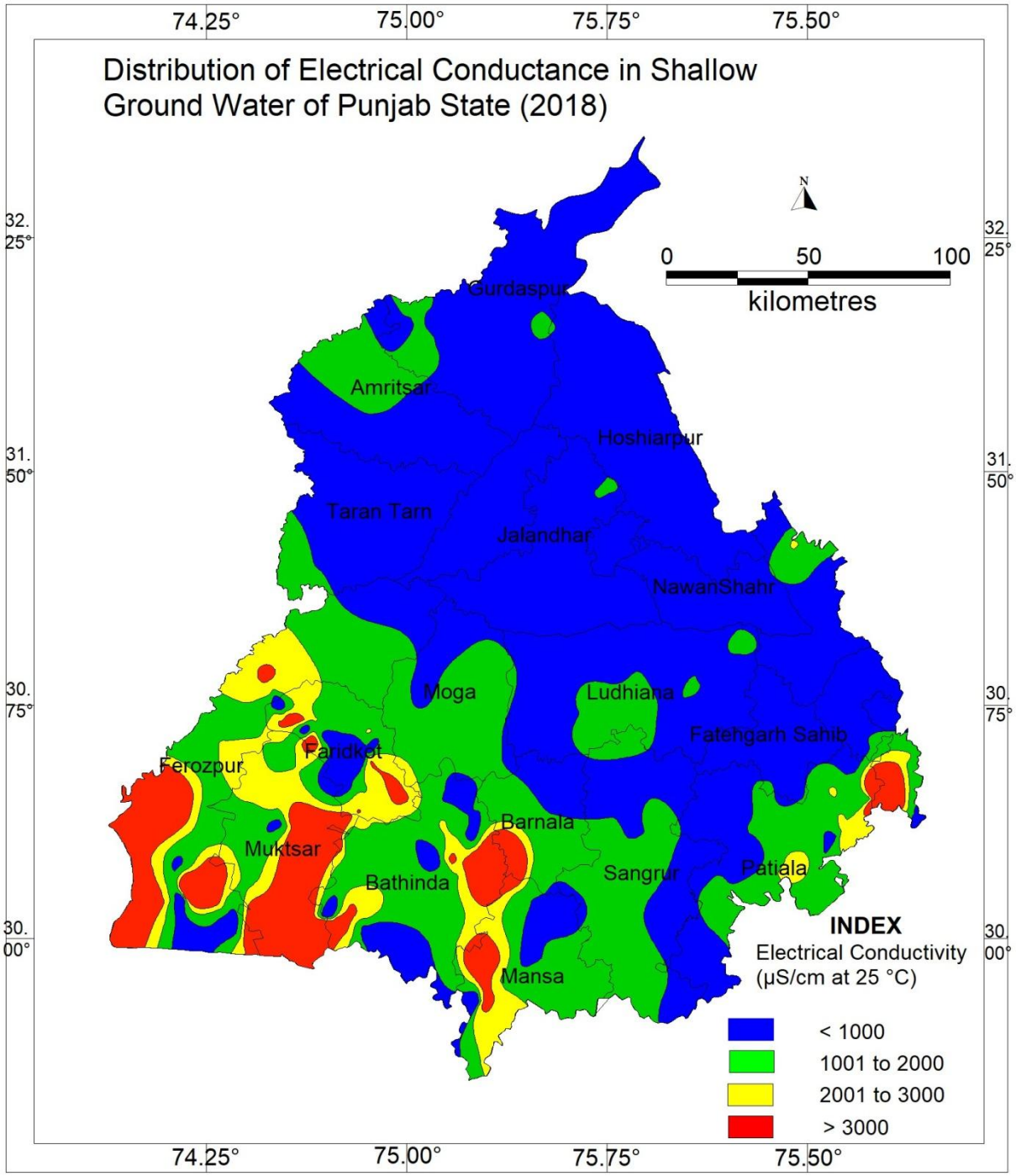


Figure 23 Distribution of Electrical Conductance in Shallow Ground Water (May 2018)

5.3 Distribution of Chloride (Cl)

Chloride content of ground water normally follows the distribution pattern of EC and it ranges from 7.0 mg/L to 1744 mg/L in the entire State. Chloride concentration above 400 mg/L gives salty taste to water and based on these aesthetic considerations, BIS has recommended a desirable limit of 250 mg/L for chloride in drinking water. This limit can be extended to 1000 mg/L in case of absence of a source with desirable concentration. Grouping of samples in these categories based on chloride content, it is found that Chloride is less than 250 mg/L in 88.8 % of the samples, between 250 and 1000 mg/L in 9.0% samples and only 2.2 % of the samples are found to have Chloride above 1000 mg/L. Map showing spatial distribution of Cl contents in ground water (Fig 24) indicates that Cl is below 250 mg/L in most of the districts, it is between 250 and 1000 mg/L in Patiala, SAS Nagar and in southern and southwestern districts of the State. Cl is more than 1000 mg/L in isolated places in Faridkot, Ferozepur and Muktsar districts.

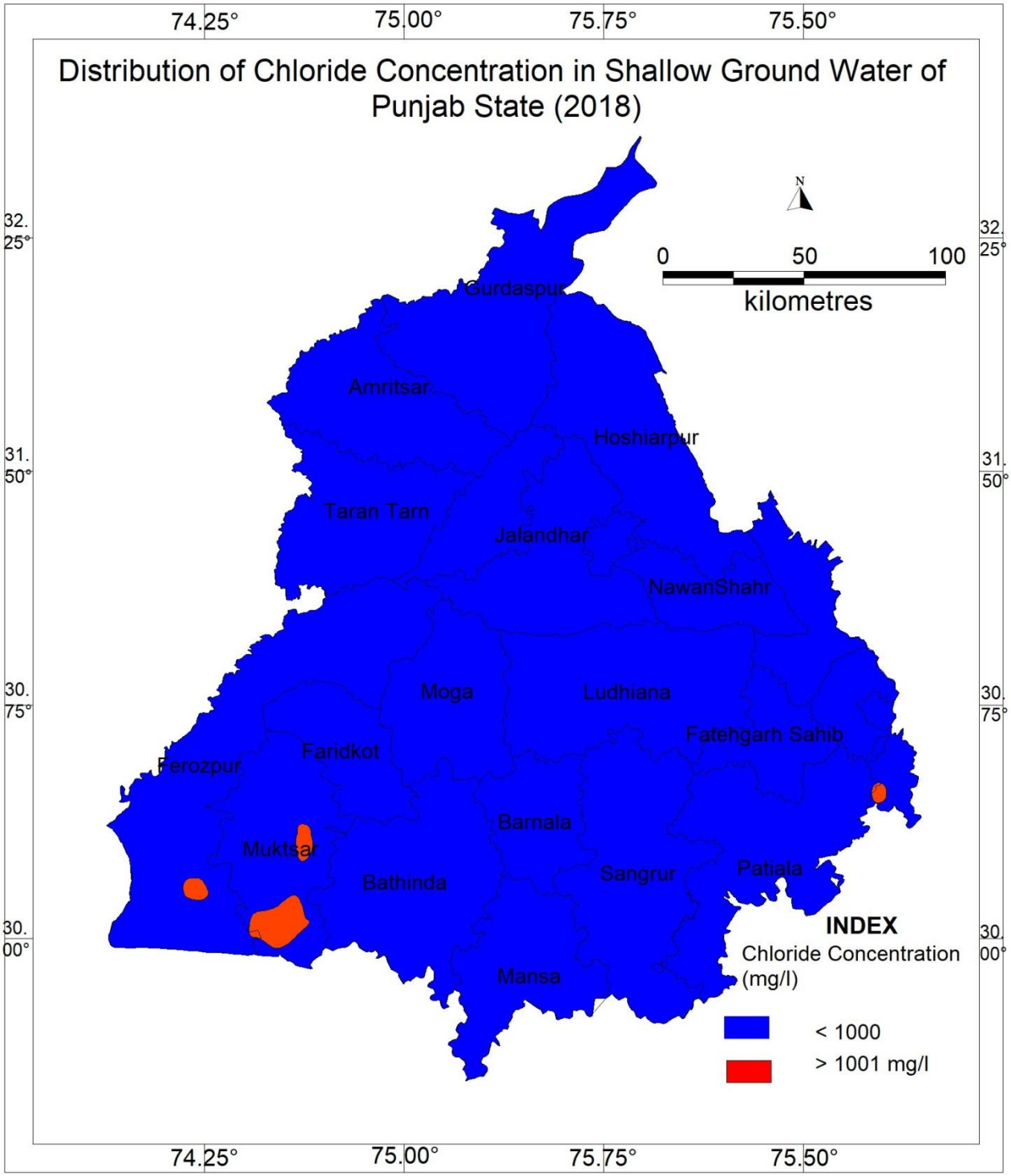


Figure 24 Distribution of Chloride in Shallow Ground Water (May 2018)

5.4 Distribution of Nitrate (NO_3)

Occurrence of nitrate in ground water above 5.0 mg/L reflects contamination at some stage of its percolation and circulation. The probable sources of nitrate contamination of ground water are through excessive application of fertilizers, bacterial nitrification of organic nitrogen, and seepage from animal and human wastes and atmospheric inputs. In the State, nitrate in water samples varies from (<0.20) traces to 617 mg/L. BIS permits a maximum concentration of 45 mg/L nitrate in drinking water. Considering this limit, it is found that 82% of the samples, spread over the entire State, have nitrate below 45 and 18% have more than 45 mg/L. Spatial distribution of nitrate indicates that ground water with permissible nitrate content generally occurs in the northern and central parts with a few isolated patches with nitrate above 45mg/L. A considerable area of the southern and southwestern part of the state have nitrate concentration exceeding 45 mg/L **(Fig-25)** Furthermore, quite a significant number water samples from, Faridkot, Ferozepur, Muktsar and SAS nagar districts are found to have nitrate above 100 mg/L.

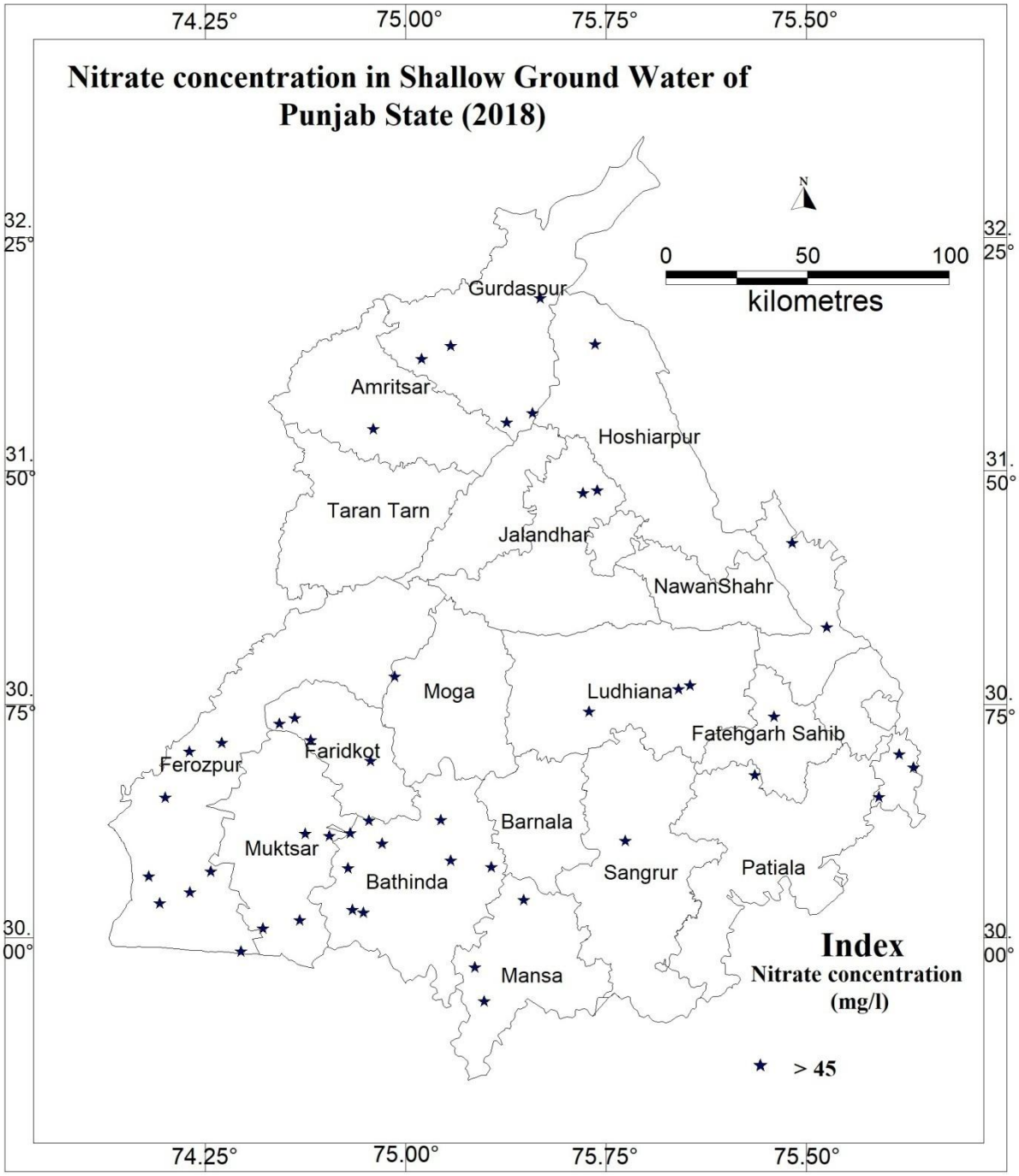


Figure 25 Distribution of Nitrates in Shallow Ground Water (May 2018)

5.5 Distribution of Fluoride (F)

Fluoride in small amounts in drinking water is beneficial while in large amounts it is injurious. The fluoride content in ground water ranges from <0.05 to 5.63 mg/L. BIS recommends that fluoride concentration up to 1.0 mg/L in drinking water is desirable, up to 1.5 mg/L is permitted and above 1.5 mg/L is injurious. Classification of samples based on this recommendation, it is found that 81.5% samples have fluoride in desirable range, 7.5% in the permissible and the remaining 10.7% have fluoride above 1.5 mg/L. Map showing spatial distribution of fluoride contents in ground water (Fig 26) indicates that ground water in most parts of the State has desirable concentration of fluoride. Ground waters with fluoride above 1.5 mg/L are found mainly in Bathinda, Faridkot, Fatehgarh Sahib, Ferozepur, Mansa, Muktsar, Patiala, Sangrur and Tarantaran districts of the State. It is worth mentioning that high fluoride waters are encountered in areas where agriculture activities are predominant. It indicates the possibility that fluoride has come from the phosphatic ertilizers, hich have fluoride as impurity.

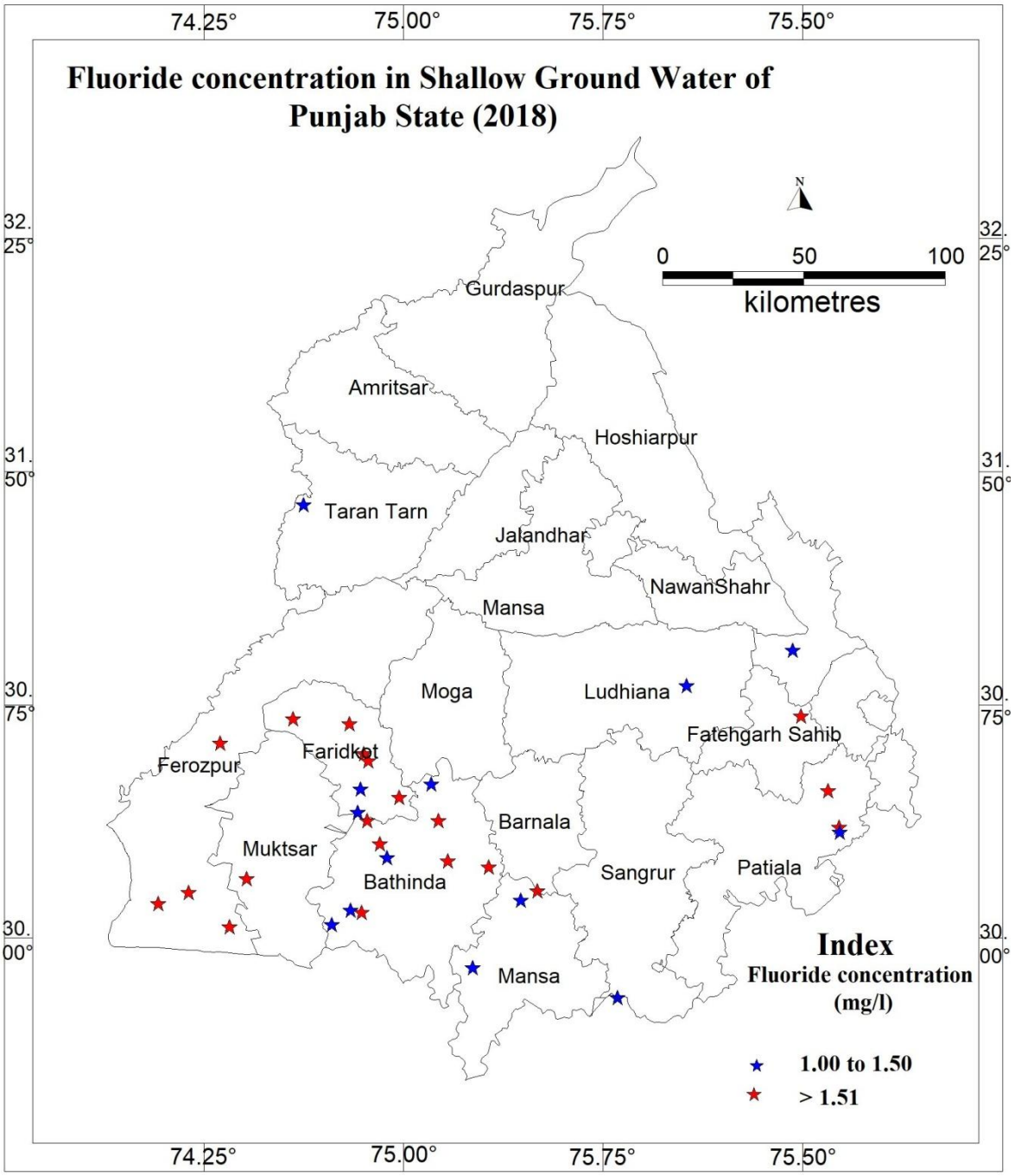


Figure 26 Distribution of Flouride in Shallow Ground Water (May 2018)

5.6 Type of Ground water

Considering the predominance of the cation and anion in the chemical composition of ground water, its type is determined and its relation with its occurrence in an area as well as with its salinity is studied. It is found that no discernible relationship between type of water and its occurrence in any particular area could be established. Nearly all types of waters are available in each district of the State. However, study of relation of water type with salinity of the water clearly indicates that nearly 45% ground waters of the State are fresh, have low salinity and predominance of calcium + magnesium cations and bicarbonate as anion. About 50 % ground waters having intermediate salinity and are of mixed type. In these waters, mostly HCO_3 as anion dominates but no individual cation predominates. At some places HCO_3-type of waters with sodium as dominant cation are also encountered in low to moderately saline ground waters. This can be attributed either to precipitation of $CaCO_3$ due to loss of CO_2 or dissolution of Na-salts from the topsoil layers or to ion exchange reaction during the downward percolation of water. At some isolated locations, sulphate is found to be dominant anion. In the remaining ground waters, where salinity is high; mostly Na is the dominant cation and Cl or Cl + SO_4+NO_3 (Mixed anion) are dominant. Nevertheless, a few exceptions have also been found in these simple and well-defined types of ground waters.

5.7 Suitability of Groundwater for Drinking

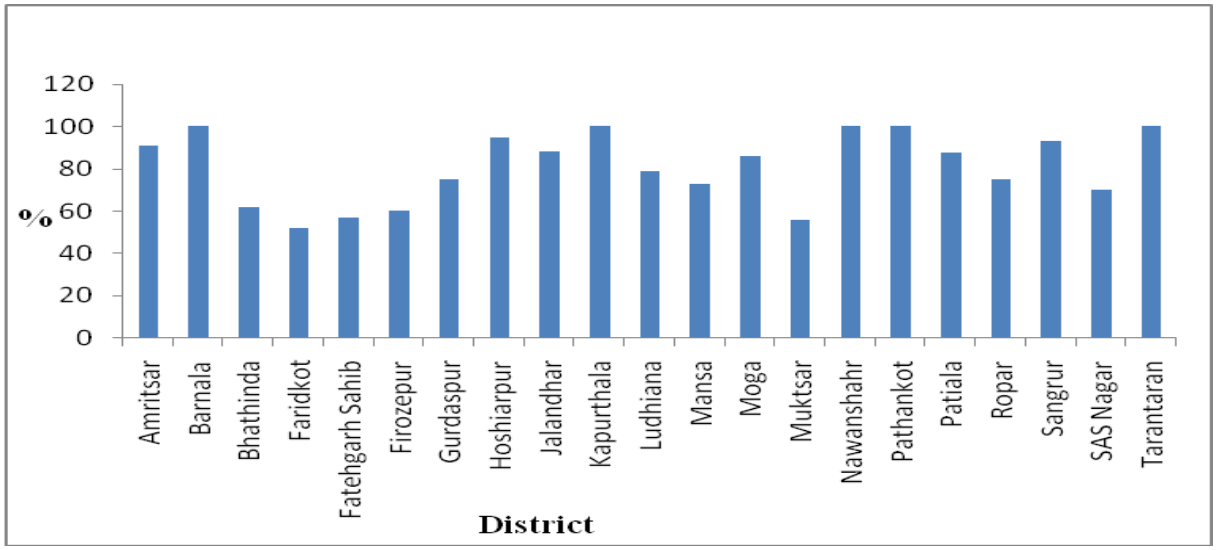
Salinity, chloride, fluoride and nitrate are the important parameters that are normally considered for evaluating the suitability of ground water for drinking uses. Based on recommendations made for these parameters by BIS, it is found that ground water at quite a few places is not suitable for drinking uses because of either EC/Cl/F/NO_3 or all of them. It is observed that unsuitable quality of ground water occurs in the southern and southwestern regions, while in the northern and central areas ground water is of suitable quality for drinking uses. Table-8 below shows district-wise distribution of ground waters in different classes of suitability based upon EC, Cl, F and NO_3 contents.

Table-8: Distribution of Well Waters of Punjab State in Different Classes of Drinking Water Suitability

S. No.	District	No. of Samples	Electrical Conductivity			Chloride			Nitrate			Fluoride		
			750	751-3000	3000	<250	251-1000	>1000	<45	46-100	>100	<1.0	1.00-1.50	>1.51
1	*Amritsar*	**11**	7	4	0	11	0	0	10	1	0	11	0	0
2	*Barnala*	**3**	0	3	0	3	0	0	3	0	2	3	4	5
3	*Bathinda*	**26**	5	18	3	22	4	0	18	6	0	17	0	0
4	*Faridkot*	**23**	5	11	7	15	8	0	17	3	3	15	2	0
5	*Fatehgarh Sahib*	**7**	7	0	0	7	0	0	6	1	0	6	0	1
6	*Firozpur*	**20**	4	10	6	14	5	1	12	4	4	15	0	5
7	*Gurdaspur*	**20**	11	9	0	20	0	0	15	5	0	20	0	0
8	*Hoshiarpur*	**19**	19	0	0	19	0	0	18	1	0	19	0	0
9	*Jalandhar*	**17**	12	5		17	0	0	15	1	1	17	0	0
10	*Kapurthala*	**8**	8	0	0	8	0	0	8	0	0	8	0	0
11	*Ludhiana*	**19**	12	7	0	19	0	0	15	4	0	18	1	0
12	*Mansa*	**11**	3	6	2	8	2	1	8	3	0	8	2	1
13	*Moga*	**7**	1	6	0	7	0	0	6	1	0	7	0	0
14	*Muktsar*	**9**	0	5	4	4	2	3	5	1	3	9	0	0
15	*Nawashaher*	**5**	5	0	0	5	0	0	5	0	0	5	0	0
16	*Pathankot*	**12**	11	1	0	12	0	0	12	0	0	12	0	0
17	*Patiala*	**16**	3	13	0	14	2	0	16	0	0	13	1	2
18	*Roop Nagar*	**8**	6	2	0	8	0	0	6	1	1	7	1	0
19	*Sangrur*	**15**	4	11	0	15	0	0	14	1	0	14	1	0
20	*SAS Nagar*	**10**	5	3	2	7	2	1	7	1	2	10	0	0
21	*Tarantaran*	**12**	8	4	0	12	0	0	12	0	0	11	1	0
	Grand Total	**278**	136	118	24	247	25	6	228	34	16	245	13	20

The bar diagram clearly shows that most of the groundwater occurring in the districts Gurdaspur, Hoshiarpur, Jallandhar, Ludhiana, Kapurthala, Moga, Nawanshar, Patiala, Ropar and Tarantaran occupy almost 75% length of the bar and has almost all the parameters within desirable limit for drinking purposes, thus can be considered as potable. Ground waters from the districts of Bhatinda, Firozpur, Faridkot Mansa and Muktsar have bar length less than 50% indicating low potable rating. Fig,-27

Figure 27 District wise Distribution of Potable Waters in Punjab



5.8 Suitability of Groundwater for Irrigation

The suitability of ground water for irrigation is generally assessed considering salinity expressed as EC, sodium in relation to calcium and magnesium in terms of SAR, sodium in relation to carbonate in terms of RSC. EC and SAR range from 177 to 11500 µS/cm at 25^0C and 0.05 to 42.8 respectively. Waters having high values of EC and SAR causes salinity and sodium hazards respectively when used for customary irrigation.

USSL: Plot of USSL diagram based on EC and SAR, it is observed that ground water occurring in the northern and central parts of the State falls under C_2S_1 and C_3S_1 classes of irrigation waters. It indicates that most of these waters are suitable for irrigating semi-salt tolerant crops on all soils. Ground water mostly from the southern and southwestern parts comprising of Bhatinda, Faridkot, Ferozepur, Mansa, Muktsar & Patiala districts falls under

C_3S_2,C_3S_3, C_3S_4, C_4S_1, C_4S_2, C_4S_3 and C_4S_4 classes of irrigation classification. Such waters when used continuously for irrigation, they are likely to cause salinity hazards and lead to reduction in crop yields. They may also cause sodium hazards and lead to hardening of soils when used for irrigation without the addition of adequate quantity of gypsum.

RSC: Alkali hazards of irrigation ground waters are estimated through the computation of Residual Sodium Carbonate (RSC), also known as Eaton's Index. Waters with RSC value <1.25 meq/L are safe for irrigational uses, RSC between 1.25 and 2.5 are marginal and waters with RSC value >2.5 meq/L are unsafe. Based on RSC values of ground waters, it is found that 57% of the waters are safe, 18% marginal and the remaining 25% are unfit for irrigational uses. RSC of ground waters are found to vary from below zero (-38.03) to 22.32meq/l (Lohri, Bhatinda district). The district wise distribution of ground waters in different categories of suitability for irrigational uses based on USSL and RSC considerations is given in Table-9.

Table 9 : Irrigation Rating of Well Waters of Punjab

(Based on Eaton's index and USSL Classification)

Sl.no.	District	IRRIGATION SUITABILITY			
		EATON's INDEX (RSC in meq/L)			USSL Classification
		Safe	Marginal	Unsafe	
		<1.25	1.25-2.5	>2.5	
1	Amritsar	5	2	4	C2S1, C3S1, C3S2,C3S1
2	Barnala	1	1	1	C3S1,
3	Bhathinda	13	3	10	C1S1, C2S2, C3S1, C3S2, C4S1, C4S2, C4S4
4	Faridkot	11	3	9	C1S1, C2S1,C4S1, C3S2,C3S3, C4S1,C4S2,C4S3,C4S4
5	Fatehgarh Sahib	3	3	1	C2S1,
6	Firozepur	13	0	7	C2S1,C2S2,C3S1, C3S1,C4S2, , C4S4
7	Gurdaspur	13	2	5	C1S1,C2S1, C3S1,
8	Hoshiarpur	14	5	0	,C2S1,
9	Jalandhar	9	6	2	C2S1, C3S1
10	Kapurthala	2	5	1	C2S1
11	Ludhiana	14	3	2	C2S1, C3S1,
12	Mansa	7	4	0	C2S2, C3S1, C3S2, C3S4, C4S4
13	Moga	1	1	5	C2S1, C3S1, C3S2,
14	Muktsar	8	0	1	C3S1, C3S2,C4S1,C4S2
15	Nawanshahr	4	1	0	C2S1,
16	Pathankot	11	1	0	C1S1, C2S1,C3S1

17	Patiala	6	2	8	C2S1, C3S1,C4S1,C3S2
18	Ropar	6	0	2	C2S1, C3S1
19	Sangrur	5	3	7	C2S1, C3S1,C3S2
20	SAS Nagar	7	1	2	C2S1,C3S1, C4S1
21	Tarantaran	5	5	2	C2S1,C3S1

Most of ground waters from Amritsar, Fatehgarh Sahib, Gurdaspur, Hoshiarpur, Jallandhar, Kapurthala Ropar and Patiala are suitable for irrigation for semi-salt tolerant crops on adequately drained soils. The waters from districts of Bhatinda, Faridkot, Ferozepur, Mansa, Muktsar and Sangrur show wide variability in irrigation rating.

5.9 Suitability of Groundwater for Industries

Industries, in general, use water for variety of works depending upon the nature and size of the industry. As such specifications for suitability of water for industries vary widely depending upon the process in each industry. Therefore, chemical quality of water and its suitability could not be discussed due to diversified nature of industries.

5.10 Temporal Variation

The temporal changes in ground water quality are studied through percent of well water falling in different categories of suitability criteria based on concentration of important parameters such as salinity (EC), chloride, nitrate and fluoride contents. The percent well waters falling in desirable, permissible and unsuitable classes of BIS-1991 standards during 2018 are compared with percent well waters in same classes during 2014, 2015, 2016 2017 & 2018. Table 4 shows both positive and negative change in percent well waters in different suitability classes based on above parameters and overall variation in % wells from 2014 to 2018.

On perusal of the Table-10, it is evident that there is deterioration in the quality of ground water from 2017 to 2018. It is observed that there is decrease in salinity and % of samples falling with EC below 750 us/cm has increased by 18% consequently there is improvement in water quality with respect to salinity. There is not much change in % samples falling in different classes with respect to Chloride while improvement is observed in water quality by 7% with respect to Fluoride & Nitrate.

The change in water quality is compared for five years (2014-2018) and it is observed that salinity has decreased with more samples having EC. Less than 750 us/cm. but a % samples having EC above 3000 us/cm has also slightly increased (2%). A slight

improvement in water quality is observed with respect to Chloride, Fluoride and Nitrate during the five years. in samples falling in low salinity category while there is an increase in samples falling in medium (2%) salinity categories. There has also been an increase in concentration of Chloride and Fluoride indicating deterioration by 2%, in ground water quality with reference to these parameters. Similarly there is a improvement (by 7%) in ground water quality with respect to Nitrate. However, when percent samples are compared with those of 2014, it is found that there is not much change in water quality with respect EC, Cl and F as indicated by no change in percent of water samples falling in various classes. However, nitrate has slightly decreased during this period as depicted by percent reduction of samples with high nitrate (1.2%).

Table 10: Periodic Variation in Suitability Classes of Well Waters of Punjab

Parameter	Class	% of Samples					Periodic Variation 2014-2018
		2014 (n=276)	2015 (n=284)	2016 (n=289)	2017 (n=281)	2018 (n=278)	
Salinity as EC	<750 µS/cm	40	50.3	43.3	36.7	48.9	+8.9
	750--3000	51	42.3	49.1	51.9	42.4	-8.6
	>3000	9	7.4	7.6	11.3	8.6	+0.4
Chloride as Cl	<250 mg/l	86	89.4	87.5	88.9	88.8	-2.8
	250 - 1000	13	9.2	10.4	9.6	9.0	-4.0
	>1000 mg/l	1	1.4	2.1	1.8	2.2	+1.2
Nitrate as NO_3	< 45 mg/l	74	69.4	77.2	75	82.0	+8.0
	> 45 mg/l	26	30.6	22.8	24.9	18.0	-8.0
Fluoride as F	<1.0 mg/l	84	82.4	84.4	81.8	88.1	+4.1
	1.0 - 1.50	5	8.1	4.8	7.5	4.7	-0.3
	>1.50 mg/l	11	9.5	10.7	10.7	7.2	-3.8

5.11 Conclusion & Recommendations on Groundwater Quality

Conclusion drawn for quality evaluations of ground water and its suitability for various uses is based on macro level studies through monitoring stations sampled during 2018. It can be concluded that in Punjab

- Ground water is generally suitable for drinking uses except at few places in the southern and south western parts where it is not suitable due to high EC or high fluoride or nitrate or combination of all.
- Almost all waters are suitable for irrigation on well-drained soils for growing salt tolerant crops like wheat, mustard, rice, barley and maize etc. However, at few places where EC of ground water goes beyond 5000 µS/cm and SAR is more than 10, such waters are not suitable for customary irrigation.
- It is recommended that areas identified with unsuitable or marginally suitable water quality should be monitored on micro level to effectively delineate such areas and use suitable management measures.

Annexure 1 Depth to Water level

S. No	State	District	Location	2018 May	2018 aug	2018 Nov	2019 Jan
				(mbgl)	(mbgl)	(mbgl)	(mbgl)
1	Chandigarh	Chandigarh	BURAIL	4.29	2.69	2.66	
2	Chandigarh	Chandigarh	Csio-combined			21.76	
3	Chandigarh	Chandigarh	CSIO-S	22.29	22.14	22.34	
4	Chandigarh	Chandigarh	NEW INDUST AREA		24.5	22.74	
5	Chandigarh	Chandigarh	Sec-27, Ar Well	42.38	41.85	41.81	
6	Chandigarh	Chandigarh	SECT 10C			52.9	
7	Chandigarh	Chandigarh	SECT 10C (D)	32.51	32.98	29.59	
8	Chandigarh	Chandigarh	SECT 10C (S)			32.82	
9	Chandigarh	Chandigarh	SECT 21D (D)		10.53		
10	Chandigarh	Chandigarh	SECT 31D (D)	18.82	18.93	18.51	
11	Chandigarh	Chandigarh	SECT 31D (S)	13.07	11.98	11.59	
12	Chandigarh	Chandigarh	SECT 37D (S)	6	2.99	4.25	
13	Chandigarh	Chandigarh	SECT 44D (S)		2.86	3.27	
14	Chandigarh	Chandigarh	Sector 52- PZ	12.19	16.9		
15	Chandigarh	Chandigarh	Sector-46 (shallow)	8.11	3.02	7.05	
16	Chandigarh	Chandigarh	Sector-46(vs)			6.8	
17	Punjab	Amritsar	Ajnala	12.42		15	12
18	Punjab	Amritsar	Amritsar				20.9
19	Punjab	Amritsar	Amritsar1	25.74	25.79	26.19	25.13
20	Punjab	Amritsar	Bal Kalan-Pz	17.9		18.1	17.2
21	Punjab	Amritsar	Beas07	14.92	14.92	14.35	14.3
22	Punjab	Amritsar	Bhattaywad-Pz	14.7		14.5	14.2
23	Punjab	Amritsar	Bholewal-Pz			13.6	
24	Punjab	Amritsar	Boparai Khurd-Pz	17.5		17.1	16
25	Punjab	Amritsar	Chak Dogra-Pz	11		11.8	9.4
26	Punjab	Amritsar	ChogWan- Pz		14.73	11.28	11.26
27	Punjab	Amritsar	Dhulika-Pz	18		18.3	18.3
28	Punjab	Amritsar	Dohan-Pz	19.6		19.5	19.9
29	Punjab	Amritsar	Gago Mahal- Pz		7.32	6.6	5.58
30	Punjab	Amritsar	Gill wali-Pz	21.9		21.2	20.9
31	Punjab	Amritsar	Jandiala Guru-Pz	20.25	20.98	20.5	20.03
32	Punjab	Amritsar	Jethuwal-Pz	16.2		16.1	15.7
33	Punjab	Amritsar	Kandowali-Pz	14.5		14.2	14.2
34	Punjab	Amritsar	Karyal-Pz	10.5		9.9	9.5
35	Punjab	Amritsar	Khilchian-Pz	15.7			
36	Punjab	Amritsar	Mahima-Pz	19.9		20	19.3
37	Punjab	Amritsar	Majitha-Pz	13.7		13.7	13.8
38	Punjab	Amritsar	Makhan Windi-Pz	17.3		18.6	17.1
39	Punjab	Amritsar	Mehleykey-Pz	12.2		12.1	9.4
40	Punjab	Amritsar	Mehta	14.42		14.2	
41	Punjab	Amritsar	Mehta-Pz	14.42		14.5	14.15

42	Punjab	Amritsar	Miran Chak-Pz	17.2		16.9	17.2
43	Punjab	Amritsar	Nangal Sahaul-Pz	6.9		6.4	6.3
44	Punjab	Amritsar	Nawan Tanal- Pz	12.51	13.4	11.98	11.08
45	Punjab	Amritsar	Ramdas-DW	6.07	8.79	5.88	5.93
46	Punjab	Amritsar	Rampura-Pz	12.3			
47	Punjab	Amritsar	Rayya-Pz			17	
48	Punjab	Amritsar	Rupowal Brahmana-Pz	15.1		15.1	15.2
49	Punjab	Amritsar	Sarangra-Pz			13.2	
50	Punjab	Amritsar	Sathiala-Pz	16.9		16.6	
51	Punjab	Amritsar	Shabura-Pz	14.4		13.6	
52	Punjab	Amritsar	Sham Nagar-Pz	9.2		8.8	13.3
53	Punjab	Amritsar	Talwandi Dogra-Pz	21.2		20.7	8.5
54	Punjab	Amritsar	Tarsika-Pz	16.5		16.1	20
55	Punjab	Amritsar	Ugar Aulakh-Pz	15.2		14.7	15.9
56	Punjab	Amritsar	Vadala Kalan-Pz	16.6		16.5	15
57	Punjab	Amritsar	Vadala Viran-Pz			7.5	
58	Punjab	Amritsar	Verka-Pz			20.6	
59	Punjab	Amritsar	Wandala Bittewad-Pz	17.4		16.5	16.3
60	Punjab	Barnala	Amla Singh Wala-PZ	37.72			40.88
61	Punjab	Barnala	Barnala (s)	38.71	40.01	39.98	39.65
62	Punjab	Barnala	Bhadaur-Pz	28.99	30.78	31	30.45
63	Punjab	Barnala	Dhanaula-Pz			32.33	32.24
64	Punjab	Barnala	Daula-Pz	35.09			
65	Punjab	Barnala	Kurar-Pz	37.4		41.5	40.33
66	Punjab	Barnala	Lohgarh-Pz	28.9			32.08
67	Punjab	Barnala	Mahal Kalan-Pz	34.11	35.85	36.13	35.53
68	Punjab	Barnala	Nangal-Pz	37.71			
69	Punjab	Barnala	Pakho Ke-Pz	28.9		27.15	27.51
70	Punjab	Barnala	Patti Dwarka-Pz	31.73		35.28	
71	Punjab	Barnala	Raisar-Pz	31.49		35.77	
72	Punjab	Barnala	Ramgarh-Pz	22.95			
73	Punjab	Barnala	Shekha	33.61		38.69	38.6
74	Punjab	Bathinda	Ablu	14.34	15.17	15.17	13.92
75	Punjab	Barnala	Aleke Jalal-Pz	27.31		29.64	
76	Punjab	Bathinda	Badiala-Pz	29.51	31.85	31.95	30.4
77	Punjab	Barnala	Bagher Mohabat Singh-Pz			10.56	
78	Punjab	Bathinda	Bahman Kaur Singh-Pz			10.25	
79	Punjab	Barnala	Balianwali-Pz	25.41		9.94	25.81
80	Punjab	Bathinda	Balluana1	5.25	5.47	9.63	5.44
81	Punjab	Barnala	Balluana-Pz	6.63		9.32	6.95
82	Punjab	Bathinda	Bandi-Pz	6.99		9.01	
83	Punjab	Barnala	Bhagibandar	9.13	9.63	9.73	9.57
84	Punjab	Bathinda	Bugran-Pz	29.84		32.28	31.42
85	Punjab	Barnala	Burj Gill-Pz	26.96		28.61	28.15
86	Punjab	Bathinda	Burj-Pz			11.6	
87	Punjab	Barnala	Deratapp	6.69	6.44	8.01	8.18

88	Punjab	Bathinda	Dhapali1	26.95	29.21	26.25	26.72
89	Punjab	Barnala	Dhapali-Pz	26.95	27.55	27.77	27.95
90	Punjab	Bathinda	Dialpur Mirza			27.9	27.45
91	Punjab	Barnala	Dialpura Bhlaike	27.68	30.06	28.55	29.11
92	Punjab	Bathinda	Dulle Wala-Pz	31.98		33.98	32.96
93	Punjab	Barnala	Ganga-Pz	15.65	17.2	16.75	16.95
94	Punjab	Bathinda	Ghudda			28.49	28.49
95	Punjab	Barnala	Ghudda-Pz	9.87		10.09	9.03
96	Punjab	Bathinda	Gill Patti-DW			10.69	
97	Punjab	Barnala	Gobind Pura-Pz			16.39	
98	Punjab	Bathinda	Gulabgarh 2 (s)	14.13	14.7	14.13	13.9
99	Punjab	Barnala	Guru Sar-Pz	9.47	10.13	9.78	9.67
100	Punjab	Bathinda	Harraipur-Pz	17.74		20.24	18.38
101	Punjab	Barnala	Jajjal	8.55	9.98	10.3	8.7
102	Punjab	Bathinda	Jassi Bhagwali	3.75	7.39	7.2	7.57
103	Punjab	Barnala	Jassi Paowali-Pz	7.4			
104	Punjab	Bathinda	Jhanduke	23.27	25.92	25.78	24.47
105	Punjab	Barnala	Jhanduke-Pz	23.27		24.04	23.35
106	Punjab	Bathinda	Kalayan Sukha-S				26.75
107	Punjab	Barnala	Kalla Bandar	5.85	5.9	10.39	10.85
108	Punjab	Bathinda	Kalyan Sukha-M				26.6
109	Punjab	Barnala	Koir Singh Wala-Pz	24.53		26.71	
110	Punjab	Bathinda	Kot Bhaktu-Pz			6.46	
111	Punjab	Barnala	Kot Guru			6.59	
112	Punjab	Bathinda	Kot Shamir	14.44	15.39	15.35	14.66
113	Punjab	Barnala	Kothaguru-Pz	25.47	26.95	27.35	26.8
114	Punjab	Bathinda	Lalliana-Pz			7.71	
115	Punjab	Barnala	Lehra Dhulkot-Pz	24.12		24.09	24.67
116	Punjab	Bathinda	Maihma Bhagwan-PZ	11.34		12.01	11.62
117	Punjab	Barnala	Maisar Khana	16.59	17.61	17.73	17.24
118	Punjab	Bathinda	Maisar Khana-Pz	16.59		17.33	
119	Punjab	Barnala	Maluka-Pz	22.54		24.37	
120	Punjab	Bathinda	Mandi Kalan-Pz	26.55		26.68	27.29
121	Punjab	Barnala	Maur Kalan-Pz			13.6	
122	Punjab	Bathinda	Mehraj-Pz	22.98		24.2	23.75
123	Punjab	Barnala	Mehta-Pz	7.21		7.41	7.33
124	Punjab	Bathinda	Multania-Pz	6.7		7.58	7.39
125	Punjab	Barnala	Nahinwala	12.48	17	12.44	12.32
126	Punjab	Bathinda	Nathana-Pz	21.97		24.92	23.05
127	Punjab	Barnala	Nathena-Pz			6.24	
128	Punjab	Bathinda	Phulla1	27.2	22.95	22.42	21.45
129	Punjab	Barnala	Puhla-Pz			24.35	
130	Punjab	Bathinda	Raike Kalan	2.69	3.6	3.06	2.91
131	Punjab	Barnala	Rampura				30.81
132	Punjab	Bathinda	Rajgarh Kubey-Pz			11.63	
133	Punjab	Barnala	Rayya-Pz	28.57		29.81	30.76

134	Punjab	Bathinda	Salabatpur-Pz	31.43		33.21	
135	Punjab	Barnala	Sangat -Pz	7.49	7.84	5.25	5.25
136	Punjab	Bathinda	Seema-DW			21.15	
137	Punjab	Barnala	Sooch-Pz	21.7		22.74	21.81
138	Punjab	Bathinda	Teona-Pz			5.26	
139	Punjab	Barnala	Tungwali-Pz				17.02
140	Punjab	Faridkot	Aryan Wala-Pz	1.76	2.62		
141	Punjab	Faridkot	Baja Khana	19.53	20.34	21.15	20.44
142	Punjab	Faridkot	Bead Sikhanwala- Pz	9.3	9.99	9.03	9.21
143	Punjab	Faridkot	Behabal Kalan-Pz			17.51	
144	Punjab	Faridkot	Chahd Baja	16.2	18.47	18.35	17.06
145	Punjab	Faridkot	Chak Kalan-Pz			1.7	
146	Punjab	Faridkot	Dhilwan Kalan		11.05	13.1	11.05
147	Punjab	Faridkot	Dhudi-Pz	13.6		13.8	
148	Punjab	Faridkot	Dipsinghwala			4.25	4.48
149	Punjab	Faridkot	Faridkot-Pz	4.2		4.55	
150	Punjab	Faridkot	Fatehgarh-Pz			19	
151	Punjab	Faridkot	Ghuiana-Pz	5.2		4.3	
152	Punjab	Faridkot	Jand Sahib-Pz	5.72	4.6		3.12
153	Punjab	Faridkot	Karirwali	12.99	14.65	11.52	10.85
154	Punjab	Faridkot	Killi-Pz	5.35	4.56		3.37
155	Punjab	Faridkot	Kot Kapura	7.86	8.41	9.25	9.32
156	Punjab	Faridkot	Matta	8.52	10.1	10.38	9.86
157	Punjab	Faridkot	Mehmuana	1.53	0.87	0.55	0.8
158	Punjab	Faridkot	Mumra-Pz	6.37	6.86		5.19
159	Punjab	Faridkot	Nangal-Pz	9.46	11.3	9.9	8.57
160	Punjab	Faridkot	Nawan Killa-Pz				59
161	Punjab	Faridkot	Pahluwala-Pz	4.87		4.7	
162	Punjab	Faridkot	Ratti Rori-Pz	1.5		1.65	
163	Punjab	Faridkot	Rorian Kapura-Pz	10.38		11.8	
164	Punjab	Faridkot	Sadiq-Pz	5.26		4.45	4.54
165	Punjab	Faridkot	Sandhwan-Pz			9.15	
166	Punjab	Faridkot	Sher Singh Wala- Pz	3.48	5.22	2.75	2.87
167	Punjab	Faridkot	Sukhwala-Pz	2.88	3.46	1.5	1.2
168	Punjab	Faridkot	Tehna-Pz	9.6	2.37	8.8	8.8
169	Punjab	Faridkot	Wara Dwarka-Pz	4.17	12.9	3.71	4.11
170	Punjab	Fatehgarh Sahib	Alipur Sodhian-Pz	19.2		20.5	20.2
171	Punjab	Fatehgarh Sahib	Amloh1			26.45	
172	Punjab	Fatehgarh Sahib	Badalialasingh	38.08	41.89	39.04	38.16
173	Punjab	Fatehgarh Sahib	Bagga Kalan	27.45		27.85	27.55
174	Punjab	Fatehgarh Sahib	Bassi Pathana	20.22	21.66		19.94
175	Punjab	Fatehgarh Sahib	Bhagrana		3.9	2.75	2.08

176	Punjab	Fatehgarh Sahib	Bhateri1	33.03	35.23	34.18	32.95
177	Punjab	Fatehgarh Sahib	Burj	19.7		20.05	19.7
178	Punjab	Fatehgarh Sahib	Chandiala-Pz	18.05		18.8	18.4
179	Punjab	Fatehgarh Sahib	Chuni Khurd-PZ	15.49		17	
180	Punjab	Fatehgarh Sahib	Chunni Kalan		15.03	14.9	14.04
181	Punjab	Fatehgarh Sahib	Fatehgarh Sahib-Pz	21.91	22.46	21.08	21.87
182	Punjab	Fatehgarh Sahib	Inayatpur-PZ-S			21.02	
183	Punjab	Fatehgarh Sahib	Jai Singh Wala	20.05		19.85	20.55
184	Punjab	Fatehgarh Sahib	Jhambela	24.05		24.7	24.55
185	Punjab	Fatehgarh Sahib	Kalewal	18.25		19.55	
186	Punjab	Fatehgarh Sahib	Khamanon-pz	20.4		20.05	20.3
187	Punjab	Fatehgarh Sahib	Kharey_PZ			21.9	
188	Punjab	Fatehgarh Sahib	Khera-Pz	27		27.2	27
189	Punjab	Fatehgarh Sahib	Ladpur	21.6		22.4	
190	Punjab	Fatehgarh Sahib	Lohar Majra	21.5		21.8	21.55
191	Punjab	Fatehgarh Sahib	Mianpur-Pz	21.5		21.8	21.25
192	Punjab	Fatehgarh Sahib	Nalini-Pz	22.73	23.95	23.15	21.83
193	Punjab	Fatehgarh Sahib	Nandpur Kalaur-Pz	33.6		33.8	33.4
194	Punjab	Fatehgarh Sahib	Pawala		9.76	13.72	14
195	Punjab	Fatehgarh Sahib	Sado Majra	20.4		20.65	
196	Punjab	Fatehgarh Sahib	Salempur	33.2		30.05	
197	Punjab	Fatehgarh Sahib	Shahpur	25.3		25.75	25.55
198	Punjab	Fatehgarh Sahib	Sirhind-Pz	25.3		23.7	23.5
199	Punjab	Fatehgarh Sahib	Tahalpur	26.2		26.2	25.75
200	Punjab	Fatehgarh Sahib	Talwara	23.1		22.45	22.3
201	Punjab	Fatehgarh Sahib	Timber Pur-Pz	21.9		21.4	21.4
202	Punjab	Fazilka	Abohar	3.01	3.19	2.92	2.98
203	Punjab	Fazilka	Alamgarh		1.44	1.17	1.72

204	Punjab	Fazilka	Asifwala-Pz	6.68		6.81	6.65
205	Punjab	Fazilka	Bannawala	2.38	2.93	3.17	2.43
206	Punjab	Fazilka	Bazirdpura	7.5	7.57	7.43	7.3
207	Punjab	Fazilka	Chak Khere Wala-Pz	7.92		8.04	7.8
208	Punjab	Fazilka	Chak Pune Wala-Pz			20.12	
209	Punjab	Fazilka	Danewal Satkosi	3.67	4.07	5.29	4.98
210	Punjab	Fazilka	Danger Khera-Pz	3.2		3.21	3.22
211	Punjab	Fazilka	Dipulana-Pz		7.61	6.8	7
212	Punjab	Fazilka	Fattu Wala-Pz	21.4		21.5	21.22
213	Punjab	Fazilka	Giddran Wali-Pz	4.5		2.44	
214	Punjab	Fazilka	Godiwala-Pz	4.26		4.72	4.6
215	Punjab	Fazilka	Hamed Saidoke-Pz	15.65		15.45	15.32
216	Punjab	Fazilka	Himmatpura-Pz	5.98		7	6.7
217	Punjab	Fazilka	Jaimal Singhwala Pz	9.7			
218	Punjab	Fazilka	Jalalabad-Pz			15	6
219	Punjab	Fazilka	Jand Wala Johian-Pz	5.53		6.02	
220	Punjab	Fazilka	Kaler Khera-Pz	4.9		4.75	4.9
221	Punjab	Fazilka	Kandh Wala-Pz			3.8	1.45
222	Punjab	Fazilka	Khuiansarwar- Pz	1.46	1.65	2.09	2.13
223	Punjab	Fazilka	Kundal1	1.16	1.2	1.41	1.72
224	Punjab	Fazilka	Ladhuwala	1.18		0.95	2.02
225	Punjab	Fazilka	Malukpur-Pz	2.76		2.01	
226	Punjab	Fazilka	Markhiwa Bhamni-Pz			8	
227	Punjab	Fazilka	Motiwala 07pz			34.75	35
228	Punjab	Fazilka	Muradwala Dal-Pz	2.9		3.2	3.12
229	Punjab	Fazilka	Nihalkhera		2.94	3.26	3.04
230	Punjab	Fazilka	Nure-Ki-Uttar 07pz	17.37		34.53	35
231	Punjab	Fazilka	Pancha Wali-Pz	10.38		10.28	10.1
232	Punjab	Fazilka	Pattiwalla-Pz	3.45		2.9	2.84
233	Punjab	Fazilka	Ramsara-Pz	4.12		4.65	4.32
234	Punjab	Fazilka	Sham Singhwala-Pz	5.23		4.94	2.26
235	Punjab	Fazilka	Shatriwala-Pz	4.1		4.35	
236	Punjab	Fazilka	Sherewala-Pz	8.9		8.92	8.6
237	Punjab	Fazilka	Singhpura-Pz			3.97	
238	Punjab	Fazilka	Sitoganno	2.18	2.18	2.54	2.33
239	Punjab	Fazilka	Sohangarh Ratte	2.79	2.7	2.28	1.41
240	Punjab	Fazilka	Swah Wala- Pz		11.52	10.99	9.22
241	Punjab	Firozpur	Bara Mansur Wala-Pz	28.76		29.17	28.9
242	Punjab	Firozpur	Chak Kandhe Shah-Pz	14.06		15.19	11.5
243	Punjab	Firozpur	Chamb-Pz	18.9		19.05	18.6
244	Punjab	Firozpur	Dulchi Ke-Pz	8.9		9.44	9.03
245	Punjab	Firozpur	Gogiani-Pz	18.95		20.18	19.52
246	Punjab	Firozpur	Jaimal wala-Pz	9.7		11.28	10.37
247	Punjab	Firozpur	Jang-Pz	8.38		9.17	9
248	Punjab	Firozpur	Katoran-Pz	12.95		10.76	
249	Punjab	Firozpur	Lauhke Kalan- Pz	18.35	23.4	20.28	18.27

250	Punjab	Firozpur	Lohere Khurd-Pz	20.19		20.51	19.5
251	Punjab	Firozpur	Machi Bugra/ Gujran-Pz	13.9		14.4	13.7
252	Punjab	Firozpur	Mallanwala Khas-Pz	12.45		13.28	13
253	Punjab	Firozpur	Malluwala-Pz	23.5		24.42	24
254	Punjab	Firozpur	Malsian-Pz		14	13.37	12.79
255	Punjab	Firozpur	Mana Singh Wala-Pz	5.72		5.75	5.32
256	Punjab	Firozpur	Mohkam Khan Wala-Pz	13.64		14.45	14.14
257	Punjab	Firozpur	Mohre Wala-Pz	7.05	7.75	7.05	6.93
258	Punjab	Firozpur	Mudki-Pz	11.8		12.38	11.9
259	Punjab	Firozpur	Piyarana	5.4	5.9	5.3	4.82
260	Punjab	Firozpur	Rala Hazi- Pz	6.9		7.69	7.3
261	Punjab	Firozpur	Rukne Wala-Pz	9.4		9.2	9.12
262	Punjab	Firozpur	Sadhusha Wala-Pz	13.7		14.09	13.8
263	Punjab	Firozpur	Sultan Khan Wala Urf-Pz	11.6		12.04	12.35
264	Punjab	Firozpur	Talwandi Jalle Khan-pz	28.97		29.38	28.06
265	Punjab	Firozpur	Tibbi Kalan-Pz	11.14		12.21	11.9
266	Punjab	Firozpur	Tibbi Taiwan Laluwalla-Pz	4.5		4.92	4.75
267	Punjab	Firozpur	Wage Wala-Pz	10.4		10.36	10
268	Punjab	Gurdaspur	Aulakhkalan	20.06		20.16	
269	Punjab	Gurdaspur	Bariyar	10.7		9.65	10
270	Punjab	Gurdaspur	Bhagowal	8.41	8.5	6.65	7.2
271	Punjab	Gurdaspur	Bham	15.97		14.53	
272	Punjab	Gurdaspur	Bilasbal-Pz	17.1		16.1	15.7
273	Punjab	Gurdaspur	Chahal Kalan-Pz	9.3		8.3	8.9
274	Punjab	Gurdaspur	Chahgill-Pz	10		9.55	
275	Punjab	Gurdaspur	Chone-Pz	12.4		11.95	11.95
276	Punjab	Gurdaspur	Dakoha-Pz	15.54	16.95	15.38	15.02
277	Punjab	Gurdaspur	Dera Baba Nanak	6.87	7.29	6.56	6.68
278	Punjab	Gurdaspur	Dhianpur	11.42		10.47	10.42
279	Punjab	Gurdaspur	Dinanagar	4.96	3.85	4.68	7.3
280	Punjab	Gurdaspur	Dostpur-Pz	5.5		4.6	4.6
281	Punjab	Gurdaspur	Gajikort-Pz	5.2		4.1	4.6
282	Punjab	Gurdaspur	Galri	5.92	4.54	1.41	4.65
283	Punjab	Gurdaspur	Ghania Ki bangar- Pz	8.46	9.53	7.8	7.74
284	Punjab	Gurdaspur	Ghumani Khurd-Pz	7.5		6.4	3.3
285	Punjab	Gurdaspur	Gurdaspur-Pz	9.9		9.65	9.4
286	Punjab	Gurdaspur	Harchowal-Pz	14			
287	Punjab	Gurdaspur	Hassanpur Kalan-Pz	10.3		9.65	9.75
288	Punjab	Gurdaspur	Jhabkra	4		2	2.8
289	Punjab	Gurdaspur	Jhandalbana-Pz	3		2	2.1
290	Punjab	Gurdaspur	Kala Afgana-Pz			9.15	9
291	Punjab	Gurdaspur	Kalanaur-DW	12.41		12.19	5.37
292	Punjab	Gurdaspur	Kalanaur-Pz	5.38	7.31	4.54	
293	Punjab	Gurdaspur	Kalerkalan-Pz			1.5	
294	Punjab	Gurdaspur	Kaure-Pz			16.3	15.7
295	Punjab	Gurdaspur	Khan Fatta-Pz	6.3		5.5	5.6

296	Punjab	Gurdaspur	Khanmalik-Pz	11.1		9.35	9.45
297	Punjab	Gurdaspur	Khatgarh-Pz	4.6		3.8	4.1
298	Punjab	Gurdaspur	Lakankala-Pz	5.2		4.1	4
299	Punjab	Gurdaspur	Langurwal-Pz	9.3		8	8.2
300	Punjab	Gurdaspur	Madipur Fatehgarhchuria	10.48	11.31	9.84	9.8
301	Punjab	Gurdaspur	Malikpur-Pz	9.5		9.75	8.9
302	Punjab	Gurdaspur	Mallewal-Pz			5.8	
303	Punjab	Gurdaspur	Maman-Pz	8.4		7.2	7
304	Punjab	Gurdaspur	Masana-Pz	4.6		2.9	3.6
305	Punjab	Gurdaspur	Massit-Pz	2.9		2	2.3
306	Punjab	Gurdaspur	Mirza Jaan-Pz			9.8	
307	Punjab	Gurdaspur	Mullowali 1(vs)	4.58	5.21	4.36	
308	Punjab	Gurdaspur	Mullowali 2(m)	6.36		6.17	4.05
309	Punjab	Gurdaspur	Nangal-Pz	3.6		2.7	3
310	Punjab	Gurdaspur	Nishayara	5.7		5.91	5.82
311	Punjab	Gurdaspur	Pandoritalab	2.72	2.39	2.38	2.43
312	Punjab	Gurdaspur	Paniar			7.15	
313	Punjab	Gurdaspur	Parcha-Pz	7.1		5.5	5.8
314	Punjab	Gurdaspur	Patti Atwal-Pz	13.1		12.8	12.6
315	Punjab	Gurdaspur	Quaddian -Pz	10.1		9.15	
316	Punjab	Gurdaspur	Raipur	4.5		2.55	3
317	Punjab	Gurdaspur	Saidowal Kalan-DW	4.72	3.94	3.37	3.5
318	Punjab	Gurdaspur	Saleh Chak-S	4.5	4.98	4.17	3.57
319	Punjab	Gurdaspur	Salehchak(vs)	4.27	5.07	3.94	3.99
320	Punjab	Gurdaspur	Sathial-Pz	13.14	13.45	11.99	12.2
321	Punjab	Gurdaspur	Shahpur Jattan-Pz	6.25		6.55	6.4
322	Punjab	Gurdaspur	Shahpur-Pz	6		5.2	5.25
323	Punjab	Gurdaspur	Shezada Kalan-Pz	5.25		6.15	6.35
324	Punjab	Gurdaspur	Shikar-Pz	7.1		11	
325	Punjab	Gurdaspur	Tikriwala-Pz	10.2		9.4	9.5
326	Punjab	Hoshiarpur	Aallo Batti-Pz			0.85	1.7
327	Punjab	Hoshiarpur	Adowal Garhi-Pz	22.55	22.55	23	
328	Punjab	Hoshiarpur	Argowal-Pz			24.7	24.8
329	Punjab	Hoshiarpur	Badla-Pz			24.1	22.6
330	Punjab	Hoshiarpur	Bagpur-Pz			9.95	
331	Punjab	Hoshiarpur	Baichan-Pz			20	
332	Punjab	Hoshiarpur	Bajwara-Pz			18	17.6
333	Punjab	Hoshiarpur	Barota-PZ				3
334	Punjab	Hoshiarpur	Bersa			16.5	16.5
335	Punjab	Hoshiarpur	Bhalowal Gujjran-Pz			38.7	38.4
336	Punjab	Hoshiarpur	Bhangala-Chhota-DW		4.68	4.25	4.91
337	Punjab	Hoshiarpur	Bhanowal-Pz			16.8	16.5
338	Punjab	Hoshiarpur	Bhatolian-Pz			27.6	27.6
339	Punjab	Hoshiarpur	Boring-PZ			10.9	13.9
340	Punjab	Hoshiarpur	Budhi Pind-Pz			17.4	
341	Punjab	Hoshiarpur	Chak Sheru-DW		3.6	2.8	2.97

342	Punjab	Hoshiarpur	Chohal	2	3.5	3.62	3.75
343	Punjab	Hoshiarpur	Dadan-Pz			39.55	38.4
344	Punjab	Hoshiarpur	DAGAN-DW		11.18	12.9	13.3
345	Punjab	Hoshiarpur	Dallewal-Pz			19.4	19.2
346	Punjab	Hoshiarpur	Dasuya2 (s)	11.49		8.1	4.3
347	Punjab	Hoshiarpur	Dharampur1			2.1	
348	Punjab	Hoshiarpur	Durimiwal	7.28	7.28	5.84	6.2
349	Punjab	Hoshiarpur	Fattowal-Pz			28.2	27.1
350	Punjab	Hoshiarpur	Garh Di Wala-Pz		14.79	15.23	14.59
351	Punjab	Hoshiarpur	Garhshankar (s)	17.02	26.72	26.4	26.95
352	Punjab	Hoshiarpur	Grahaya-Pz	25.63		25.5	25.5
353	Punjab	Hoshiarpur	Haler Rampur-DW			3.45	4.03
354	Punjab	Hoshiarpur	Hazipur	9.82	5.85	7	8.4
355	Punjab	Hoshiarpur	Heer Beh-PZ			23.5	23.2
356	Punjab	Hoshiarpur	Ittian-Pz			6.1	6.7
357	Punjab	Hoshiarpur	Jahidpur-PZ			6.35	8.7
358	Punjab	Hoshiarpur	Jalalpur-Pz			5.48	
359	Punjab	Hoshiarpur	Jattpur-Pz			14.75	13.1
360	Punjab	Hoshiarpur	Jhir Da Khuh-DW		22.25	6.35	
361	Punjab	Hoshiarpur	Khera-Pz			45.3	45
362	Punjab	Hoshiarpur	Mahil Baltohian-Pz			35.95	35.7
363	Punjab	Hoshiarpur	Mahilpur-Pz	23.07		19.82	19.62
364	Punjab	Hoshiarpur	Mianipur-Pz			4.05	
365	Punjab	Hoshiarpur	Mukerian Dw		3.13	1.1	2.57
366	Punjab	Hoshiarpur	Naharpur-Pz			1.8	3.3
367	Punjab	Hoshiarpur	Namoli-PZ			15.65	
368	Punjab	Hoshiarpur	Nangal Bihala- DW	12.51	12.54	11.58	11.09
369	Punjab	Hoshiarpur	Nangal Thathal-Pz			21.4	20.9
370	Punjab	Hoshiarpur	Pan Khuh-DW		3.5	4.4	6.4
371	Punjab	Hoshiarpur	Pandori Mehal-Pz			26.1	24.2
372	Punjab	Hoshiarpur	Parshote-Pz			23.9	23.6
373	Punjab	Hoshiarpur	Phuglana- Pz	28.45	29.06	25.01	21.99
374	Punjab	Hoshiarpur	Rampur Colony (HSP) pz-medium				20.09
375	Punjab	Hoshiarpur	Samraj Tanda-DW		4.7	3.55	4.35
376	Punjab	Hoshiarpur	Satnoh-PZ.			42.2	41.95
377	Punjab	Hoshiarpur	Sham Chaurasi	14.24	14.73	13.59	13.36
378	Punjab	Hoshiarpur	Sibo Chak- DW		6.67	7.02	7.72
379	Punjab	Hoshiarpur	Simbli- OW	20.77	22.16	18.55	
380	Punjab	Hoshiarpur	Simbli-Pz	19.66	20.96	19.58	16.4
381	Punjab	Hoshiarpur	Talwara1	12.19	9.65	10.19	11
382	Punjab	Hoshiarpur	Tanda			2.25	
383	Punjab	Hoshiarpur	Thakarwala	12.61	11.17	8.87	8.92
384	Punjab	Jalandhar	Adampur 3(s)	8.71		7.23	7.32
385	Punjab	Jalandhar	Akalpur-Pz	18.8		18.7	18.4
386	Punjab	Jalandhar	Allawalpur		7.91	6.94	7.12

387	Punjab	Jalandhar	Bhogpur-Pz	22.1			
388	Punjab	Jalandhar	Bilga-Pz	22.8		22.8	22.3
389	Punjab	Jalandhar	Billi Chahrami-Pz	35.1		37.1	35.2
390	Punjab	Jalandhar	Chania-Pz	26.1		26.5	25.7
391	Punjab	Jalandhar	Dhanda-Pz	34.2		34.6	34.1
392	Punjab	Jalandhar	Dhirowal-Pz			8.6	
393	Punjab	Jalandhar	Fateh Jalal-Pz	28.6		28.1	23.85
394	Punjab	Jalandhar	Gehlan-pz	18.3		18.8	17.5
395	Punjab	Jalandhar	Gillian-Pz	35.6		36.8	34.7
396	Punjab	Jalandhar	Gohiran			35.65	36
397	Punjab	Jalandhar	Hardo Sheikh-Pz	32.8		34.3	33.9
398	Punjab	Jalandhar	Jalandhar-Pz(VS)	39.23	38.36	42	36.27
399	Punjab	Jalandhar	Jalbhe	12.92	11.63	8.78	10.3
400	Punjab	Jalandhar	Jandiala-Pz	31.14	33.41	33.41	32.25
401	Punjab	Jalandhar	Jandu Singha-Pz	32		32.3	
402	Punjab	Jalandhar	Janian-Pz	35		35.6	34.5
403	Punjab	Jalandhar	Kakar Kalan-Pz	22.2		22.1	21.6
404	Punjab	Jalandhar	Kala-Pz	22.7		22.6	20.4
405	Punjab	Jalandhar	Kalyanpur-Pz	34.8		35.5	35.1
406	Punjab	Jalandhar	Kang Sahib Rai-Pz	33.5		33.5	32.8
407	Punjab	Jalandhar	Kartarpur 2(s)	20.77	21.18	20.46	19.46
408	Punjab	Jalandhar	Khaira Majha			15	
409	Punjab	Jalandhar	Kharal Kalan Pz-S	17.26	17.2	15.18	14.02
410	Punjab	Jalandhar	Kot Wadal Khan-Pz	25.9			23.5
411	Punjab	Jalandhar	Kurla-Pz	22.2		21.7	
412	Punjab	Jalandhar	Lallian kalan Pz-S	36.59	34.02	38.13	37.46
413	Punjab	Jalandhar	Mahmuwal-Pz	34.1		34.3	34
414	Punjab	Jalandhar	Mehsampur-Pz	22.6		24.8	21.7
415	Punjab	Jalandhar	Nakodar 2(m)	33.2		36.74	36.69
416	Punjab	Jalandhar	Nakodar 3(s)			35.43	
417	Punjab	Jalandhar	Nangal Shaman	34.2		33	32.7
418	Punjab	Jalandhar	Nasirpur-Pz	11.6		12	11.7
419	Punjab	Jalandhar	Nussi-Pz	30.1		31.3	26.35
420	Punjab	Jalandhar	Pathial-Pz	17		16.2	
421	Punjab	Jalandhar	Pharwala-Pz	24.7		25.4	22.7
422	Punjab	Jalandhar	Phillaur 2(s)	17.78	18.2	17.75	17.45
423	Punjab	Jalandhar	Rahimpur-Pz	27.5		27.2	24.9
424	Punjab	Jalandhar	Rurka Kalan- Pz	24.7		26.9	22.9
425	Punjab	Jalandhar	Samarahi-Pz	20.3		20.1	19.6
426	Punjab	Jalandhar	Shahkot(s)	26.26		28	27.96
427	Punjab	Jalandhar	Shahkot-Pz-Pb	18.1		18.2	17.8
428	Punjab	Jalandhar	Skarar Pur-Pz	25.6		25.8	
429	Punjab	Jalandhar	Sultanpur-Pz	18.7		18.1	17.7
430	Punjab	Jalandhar	Talwani Madho-Pz			33.07	19.9
431	Punjab	Jalandhar	Talwan-Pz	21.8		22.4	23.4
432	Punjab	Jalandhar	Thanda-Pz	23.8		27.6	4.75

433	Punjab	Jalandhar	Udhopur	4.5	6.9		
434	Punjab	Kapurthala	Bauril Harnampur-Pz	15.49		16.14	
435	Punjab	Kapurthala	Begowal-Pz	6.65		6.8	
436	Punjab	Kapurthala	Bhanoki-Pz	26.43		27.1	
437	Punjab	Kapurthala	Bhatnura Khurd- S	16.46	17.09	15.04	14.81
438	Punjab	Kapurthala	Bhawanipur-Pz	10.94		12.3	
439	Punjab	Kapurthala	Bholath M	10.24	11.28	9.43	9.99
440	Punjab	Kapurthala	Bholath S	10.22	9.67	9.82	9.01
441	Punjab	Kapurthala	Chakoke-Pz	7.24		7.59	
442	Punjab	Kapurthala	Dalla			30	
443	Punjab	Kapurthala	Hamira-Pz	11.79		12.54	
444	Punjab	Kapurthala	Hazipur-Pz	7.89		8.04	
445	Punjab	Kapurthala	Hussainpura-S Pz	26.46	24.68	26.02	23.68
446	Punjab	Kapurthala	Hussainpura-VS Pz			26.11	23.63
447	Punjab	Kapurthala	Kapurthala2 (s)	23.8	28.91	22.65	19.94
448	Punjab	Kapurthala	Karnail Ganju-Pz	8.61		9.01	
449	Punjab	Kapurthala	Kishanpur	28.45		28.75	
450	Punjab	Kapurthala	Maheru-Pz	23.6		24	
451	Punjab	Kapurthala	Miani Bola-Pz	10.41		10.24	
452	Punjab	Kapurthala	Mithra-Pz			18	
453	Punjab	Kapurthala	Nadala	8.73		9.01	
454	Punjab	Kapurthala	Nangal Lubhana-Pz	6.45		6.6	
455	Punjab	Kapurthala	Nathu Chahal-Pz	32.69		34.59	
456	Punjab	Kapurthala	Nurpur Janoa-Pz	9.33		9.78	
457	Punjab	Kapurthala	Paazian-Pz			21.5	
458	Punjab	Kapurthala	Phagwara(shallow)	27.78		27.65	
459	Punjab	Kapurthala	Phagwara2 (s)			29.71	27.61
460	Punjab	Kapurthala	Rawalpindi-Pz	24.25		25.35	
461	Punjab	Kapurthala	Saiflabad-Pz			9.75	
462	Punjab	Kapurthala	Sangatpur-Pz	24.9		26.5	
463	Punjab	Kapurthala	Shalapur Dona-Pz		20.12	31.5	
464	Punjab	Kapurthala	Sultanpur2 (s)	18.52		18.23	17.34
465	Punjab	Kapurthala	Talwandi Chaudary -Pz	11.1	13.35	11.6	10.14
466	Punjab	Kapurthala	Thikriwali-Pz	9.15		9.15	
467	Punjab	Ludhiana	Alamgir-Pz	21.3		20.81	20.8
468	Punjab	Ludhiana	Aliwal-Pz	10.02		9.9	9.35
469	Punjab	Ludhiana	Bassian MGOW			33.3	
470	Punjab	Ludhiana	Begowal	11.02		9.96	9.83
471	Punjab	Ludhiana	Bhagwanpur-Pz	15.5		15.4	15.05
472	Punjab	Ludhiana	Bhahlolpur-DW	13.38	13.38	12.42	12.91
473	Punjab	Ludhiana	Bharthala Randhawa-Pz			25.5	24.8
474	Punjab	Ludhiana	Bhikhi Khatron-Pz	15.83		15.53	15.33
475	Punjab	Ludhiana	Bilaspur-Pz	10.45		9.65	9.75
476	Punjab	Ludhiana	Chaminala-Pz	23.8		25.1	23.7
477	Punjab	Ludhiana	Chankian Khurd-Pz	9.55		9.3	8.3
478	Punjab	Ludhiana	Chattar Singh Park-ldh			43.21	

479	Punjab	Ludhiana	Chaunta-Pz	6.55		6	5.7
480	Punjab	Ludhiana	Chhapar-Pz	25.2		26.5	24.85
481	Punjab	Ludhiana	Dinnamder-Pz	22.8		23.73	22.6
482	Punjab	Ludhiana	Dodpur-Pz	21.3		21.8	21.25
483	Punjab	Ludhiana	Doraha-Pz	7.65	8.05	6.77	7.19
484	Punjab	Ludhiana	Galibkalan-Pz	25.05		27.35	26.86
485	Punjab	Ludhiana	Gohaur-Pz	23.85		23.65	23.45
486	Punjab	Ludhiana	Gopalpur 2(s)	18.93		19.84	19.23
487	Punjab	Ludhiana	Hambowal-Pz	6.55		5.8	5.9
488	Punjab	Ludhiana	Harnampur	20.28		20.23	19.83
489	Punjab	Ludhiana	Hedon-Pz	18.75		18.85	18.2
490	Punjab	Ludhiana	Ikloha-Pz	23.68	25.25	24.38	23.92
491	Punjab	Ludhiana	Jagraon 2(s)	16.54		84	23.04
492	Punjab	Ludhiana	Kalsian	30.4		31.75	31.05
493	Punjab	Ludhiana	Katanikalan-Pz	9.7		9.2	9
494	Punjab	Ludhiana	Khandur	23.34		23.94	23.59
495	Punjab	Ludhiana	Kishangarh-Pz	21.7		21.7	21.1
496	Punjab	Ludhiana	Kishanpur-Pz	27.85		29.3	27.9
497	Punjab	Ludhiana	Lalan1	10.56	11.33	9.64	10.01
498	Punjab	Ludhiana	Lil- II Pz	15	18.28	16.84	
499	Punjab	Ludhiana	Lil-Pz III	17.7	18.2	14.93	
500	Punjab	Ludhiana	Lodhiwal-Pz	11.5		10.75	11.5
501	Punjab	Ludhiana	Lohara-Pz	31.25		31.7	31.4
502	Punjab	Ludhiana	Machhiwara-Pz	9.5		8.09	
503	Punjab	Ludhiana	Maksudra-Pz			10.55	10.35
504	Punjab	Ludhiana	Manak Majra-Pz	22.95		23.75	23.2
505	Punjab	Ludhiana	Mangat-Pz	12.6		12.35	11.35
506	Punjab	Ludhiana	Mansuran-MGOW			23.06	
507	Punjab	Ludhiana	Mehduda	13.75		13.3	
508	Punjab	Ludhiana	Mehma Singh Wala-Pz	22.9		23.6	23.1
509	Punjab	Ludhiana	Mushkabad	13.5		12.23	12.23
510	Punjab	Ludhiana	Nurpur-Pz	29.9		31.6	30.6
511	Punjab	Ludhiana	P.A.U.Ludhiana 2(s)	29.87		29.65	33.37
512	Punjab	Ludhiana	Pabbian-Pz	19.1	32.74	19.85	19.6
513	Punjab	Ludhiana	Pandori-Pz	22.5		22.3	22.05
514	Punjab	Ludhiana	Payal-Pz	18.55		18.35	17.95
515	Punjab	Ludhiana	Punjeta		10.75	9.88	9.81
516	Punjab	Ludhiana	Ragba-Pz	21.9		21.9	21.1
517	Punjab	Ludhiana	Raikot-Pz	30.96		31.6	30.4
518	Punjab	Ludhiana	Rajona Khurd	28.68		29.78	26.48
519	Punjab	Ludhiana	Rashiana-Pz	24.1		24.55	23.5
520	Punjab	Ludhiana	Rashin	28.73		29.48	28.28
521	Punjab	Ludhiana	Rattewal-Pz	24.8		26.36	20.05
522	Punjab	Ludhiana	Roomi-Pz	28.8		28.74	26.8
523	Punjab	Ludhiana	Sajaywal-Pz	27.95		27	24.4
524	Punjab	Ludhiana	Samrala 2(s)	14.95	15.34	14.59	14.32

525	Punjab	Ludhiana	Sanewal-Pz	17.5		17.1	16.9
526	Punjab	Ludhiana	Sangatpura-Pz	19.85		19	18.4
527	Punjab	Ludhiana	Sherian	4.24	4.47	3.72	3.69
528	Punjab	Ludhiana	Sherpur-Pz	5.72		4.95	5.3
529	Punjab	Ludhiana	Sidhwan Bet-Pz	9.8	11.15	9.43	9.88
530	Punjab	Ludhiana	Talwandi Kalan-Pz	20.6		20.5	19.88
531	Punjab	Ludhiana	Udonwal-Pz	5.25		4.5	4.6
532	Punjab	Ludhiana	Upplan	9.3		8.55	8.35
533	Punjab	Ludhiana	Utlan	10.56		10.81	
534	Punjab	Mansa	Aklia-Pz	21.97		24.56	
535	Punjab	Mansa	Alampur Mandran-Pz	12		11.09	
536	Punjab	Mansa	Alisher Khurd-Pz	14.61		15.61	
537	Punjab	Mansa	Bahadur Pur-Pz	17.62		18.9	
538	Punjab	Mansa	Bareh-Pz	12.02		11.02	
539	Punjab	Mansa	Behniwala-Pz	7.49			
540	Punjab	Mansa	Bhamme Kalan-Pz	7		6.96	
541	Punjab	Mansa	Bhikhi 1 (s)	18.02	18.52	19.76	
542	Punjab	Mansa	Bhikhi 2 (s)	18.02		18.74	18.77
543	Punjab	Mansa	Budhlada	15.79			16.71
544	Punjab	Mansa	Budhlada-Pz	4.59			16.22
545	Punjab	Mansa	Burj Bhalaike	14.06	4.22	4.7	4.79
546	Punjab	Mansa	Burj Rathi-Pz	14.06		15.66	
547	Punjab	Mansa	Fattamaluka	6.01	6.23	5.91	6.31
548	Punjab	Mansa	Gharangne-Pz	7.99		7.81	
549	Punjab	Mansa	Hero Kalan-Pz	28.84		28.81	
550	Punjab	Mansa	Hirke-Pz	21.07		22.57	
551	Punjab	Mansa	Jhanda Khurd Pz			28	27
552	Punjab	Mansa	Joga -Dp-PZ			9.22	
553	Punjab	Mansa	Junniar			9.26	
554	Punjab	Mansa	Khiala Kalan-Pz	11.67		11.42	
555	Punjab	Mansa	Khokhar Kalan-Pz	8.27		9.24	
556	Punjab	Mansa	Kot Dhamru	7.63	8.05	8.4	
557	Punjab	Mansa	Kotra	14.01	14.1	15	
558	Punjab	Mansa	Kusla-Pz	4.25		4.96	
559	Punjab	Mansa	Lakhiwal-Pz	19.66		20.73	
560	Punjab	Mansa	Makha-[PZ	7.65		7.22	
561	Punjab	Mansa	Mansa			10.32	
562	Punjab	Mansa	Phaphare Bhaike-Pz	17.15		18.37	
563	Punjab	Mansa	Raipur-Pz	7.51	7.41	7.75	7.49
564	Punjab	Mansa	Ralla	13.5	14.34	14.1	13.69
565	Punjab	Mansa	Tibbi Hari Singh-PZ	18.85		19.71	
566	Punjab	Moga	Baje Ke-Pz	16.1	21	17.47	16.4
567	Punjab	Moga	Budh Singh Wala-Pz	23.24	25.75	25.75	24.62
568	Punjab	Moga	Bilaspur-PZ	30.73			32.25
569	Punjab	Moga	Budh Singh Wala-Pz				
570	Punjab	Moga	Chand Nawan-PZ	28.63			32.12

571	Punjab	Moga	Chogawan-Pz	30.88	35.75	39.38	34.19
572	Punjab	Moga	Dagru- Pz	31.22	33.95	39.43	34.98
573	Punjab	Moga	Damru Khurd	24.83	22.86	28.68	21.7
574	Punjab	Moga	Darapur 07pz		23.6	35	
575	Punjab	Moga	Daulatpur Niwan-Pz	28.47			31.18
576	Punjab	Moga	Dhudi Ke-PZ	29.53			
577	Punjab	Moga	Dinna-PZ	27.29			32.92
578	Punjab	Moga	Himatpura-Pz	29.67			
579	Punjab	Moga	Indergarh-Pz	18.4		21.4	20.72
580	Punjab	Moga	Jhandewala-Pz	31.69			
581	Punjab	Moga	Kamalke-Pz	13.6		14	13.8
582	Punjab	Moga	Khokri Kalan-Pz	27.65			
583	Punjab	Moga	Khosa Randhir-Pz	28.6		24.62	28.25
584	Punjab	Moga	Mandar-Pz	10.3		11.25	10.55
585	Punjab	Moga	Mangewala-Pz	22.95			24.89
586	Punjab	Moga	Meemana-PZ	30.85			36.9
587	Punjab	Moga	Mehron-PZ	33.8			38.02
588	Punjab	Moga	Nathu Wala-Pz	21.58		23.3	
589	Punjab	Moga	Nihalsinghwala-Pz	33.65	35.1	35.57	34.75
590	Punjab	Moga	Samad Bhai-Pz	20.36		23.35	
591	Punjab	Moga	Samalsar-Pz	19.01		22.25	
592	Punjab	Moga	Thathe Bhai-Pz	20.01			
593	Punjab	Moga	Raonke Kalan-Pz				30.92
594	Punjab	Moga	Tota Singh Wala-Pz	10.5		11.2	10.65
595	Punjab	Muktsar	Abulkharana-Pz	2.8		2.42	
596	Punjab	Muktsar	Alam Wala			3.97	
597	Punjab	Muktsar	Balocha Khera(rasoolpur)	1.05	1.4	1.45	1
598	Punjab	Muktsar	Bhaliana	9.65	10.29	10.1	9.68
599	Punjab	Muktsar	Bhiti Wala-Pz	3.57		3.63	
600	Punjab	Muktsar	Chakmaan-Pz			2.55	
601	Punjab	Muktsar	Chaktam Kot-Pz	1.65		2.4	
602	Punjab	Muktsar	Dhalkot-Pz	6.7		7.75	
603	Punjab	Muktsar	Doda	2.66	1.33	0.88	2.08
604	Punjab	Muktsar	Doda-Pz	3.45	2.13	2.49	2.9
605	Punjab	Muktsar	Husnar-Pz	3.1		2.6	
606	Punjab	Muktsar	Jandwala-Pz			1.18	
607	Punjab	Muktsar	Jhurar-Pz			2.73	
608	Punjab	Muktsar	Kabar Wala	3.55	4.6	3.84	2.97
609	Punjab	Muktsar	Kattianwali-Pz	3.3	2.61		
610	Punjab	Muktsar	Kuttianwali			2.8	0.64
611	Punjab	Muktsar	Khirkian Wala-Pz	1.78			
612	Punjab	Muktsar	Khunde Halal-Pz	2.09		1.55	1.97
613	Punjab	Muktsar	Kollian Wali-pz	2		2.45	
614	Punjab	Muktsar	Kot Bhai- DW			6.6	
615	Punjab	Muktsar	Labanianwali	3.14	3.43	2.52	2.77
616	Punjab	Muktsar	Lambi	2.55	2.05		20.6

617	Punjab	Muktsar	Lambi-Pz	2.55		2.12	2.02
618	Punjab	Muktsar	Muktsar	4.6	4.5	4.45	4.73
619	Punjab	Muktsar	Phulu Khera-Pz	2.9		2.4	
620	Punjab	Muktsar	Ratta Khera Chota-Pz	2.01		2.3	
621	Punjab	Muktsar	Sehna khera-Pz			2.7	
622	Punjab	Muktsar	Sohiwal-Pz			3.87	
623	Punjab	Muktsar	Sheikh-Pz	3.42		3.15	
624	Punjab	Pathankot	Bamyal	5.1			4.39
625	Punjab	Pathankot	Bhoa		2.89		4.01
626	Punjab	Pathankot	Dhar Khurd			2.4	
627	Punjab	Pathankot	Gharotakalan	8.44		6.58	7.15
628	Punjab	Pathankot	Ghoh DW	13.5	10.12	5.31	
629	Punjab	Pathankot	Jainpur-PZ	3.4		1.8	2.7
630	Punjab	Pathankot	Jandwala	28.1		22	24
631	Punjab	Pathankot	Jhakolahri	1.73	2.81	1.61	2.37
632	Punjab	Pathankot	Khanikhui	1.93		1.48	1.31
633	Punjab	Pathankot	Khogaki Chaka-PZ	2.9		1.35	1.7
634	Punjab	Pathankot	Kiari- DW	5.77		1.67	3.25
635	Punjab	Pathankot	Kirian Khurd-PZ	7.2		4	5
636	Punjab	Pathankot	Kui-DW	4.09	2.15	2.1	2.4
637	Punjab	Pathankot	Kuther-PZ	26.4		21.4	20
638	Punjab	Pathankot	Malikpur			7.2	
639	Punjab	Pathankot	Matti-PZ	24.8		12.5	17.6
640	Punjab	Pathankot	Mirthal	4.05		2	
641	Punjab	Pathankot	Mirthal-DW			4.1	2
642	Punjab	Pathankot	Muthi			4.5	
643	Punjab	Pathankot	Narot Jaimalsingh-Pz	6		4.1	4.35
644	Punjab	Pathankot	Nawan Pind	6.33	4.58	5.63	6.6
645	Punjab	Pathankot	Parmota-DW	9.83	2.57	2.8	5.92
646	Punjab	Pathankot	Pathankot1	4.35		3.75	4.54
647	Punjab	Pathankot	Philora-PZ	2.7		1.7	2.2
648	Punjab	Pathankot	Phulpiara			4.6	
649	Punjab	Pathankot	Rakawal-PZ	4.75		3	3.6
650	Punjab	Pathankot	Rani Pur-PZ	13.7		6	7.3
651	Punjab	Pathankot	Sarna	10.43		4.9	9.43
652	Punjab	Pathankot	Sarna1		7.48		
653	Punjab	Pathankot	Sujanpur-PZ	4.35		2.35	4
654	Punjab	Patiala	Bhankhar-Pz	32.75			32.9
655	Punjab	Patiala	Bhora-Pz	24.55		25.35	
656	Punjab	Patiala	Bhunerheri-Pz	34.75		37.15	
657	Punjab	Patiala	Bassma Pipla			4.75	5.34
658	Punjab	Patiala	Bhojo majri 07pz		27.35	26.6	26.36
659	Punjab	Patiala	Birkauli	29.88		30.7	29.12
660	Punjab	Patiala	Challeta-PZ	25.25	39.96	25.2	24.5
661	Punjab	Patiala	Devigarh 1Pz	35.32		37.53	35.76
662	Punjab	Patiala	Devigarh IIPz				35.6

663	Punjab	Patiala	Devigarh IIPz				35.98
664	Punjab	Patiala	Dhaneta-PZ	35.45		37.4	35.8
665	Punjab	Patiala	Gharam-PZ	36.3		38.1	38.6
666	Punjab	Patiala	Gulwatti-PZ	32.8		34.3	33.85
667	Punjab	Patiala	Jainagar-PZ	29.1		28.45	27.1
668	Punjab	Patiala	Kakrala-Pz	45.5			
669	Punjab	Patiala	Kalyan 07pz	26.87	28.97	27.7	26.08
670	Punjab	Patiala	Kami Kalan	13.18	12.75	11.97	12.24
671	Punjab	Patiala	Kami Khurd-PZ	20.75		23.05	20.75
672	Punjab	Patiala	Kheri Pandte-PZ	28.15		30.05	24.65
673	Punjab	Patiala	Kulburcha-Pz	38.7		40.35	39.2
674	Punjab	Patiala	Kutha Kheri-Pz	38.75	4.91	39.55	38.65
675	Punjab	Patiala	Lacharu Kalan	7.11	27.05	3.02	3.69
676	Punjab	Patiala	Lachkani-Pz	24.4		24.42	23.92
677	Punjab	Patiala	Mehmood Pur-PZ	28.65		30.7	30.4
678	Punjab	Patiala	Mongowal-PZ	26.9		27.6	27.2
679	Punjab	Patiala	Nanhera-Pz	26.2		25.8	25.2
680	Punjab	Patiala	Nariana			11.55	
681	Punjab	Patiala	Passiana-PZ	23.75		24.25	23.35
682	Punjab	Patiala	Patran-Pz	42.18		43.31	43.45
683	Punjab	Patiala	Rajpura-PzSt	37.57	31.3	39.86	38.38
684	Punjab	Patiala	Rakhra-Pz	27.7		28.15	
685	Punjab	Patiala	Randhawa-Pz	37.2		37.25	
686	Punjab	Patiala	Rasoolpur Jaura-PZ	29.65	37.75	30.4	29.4
687	Punjab	Patiala	Samana-Pz	36.82	37.75	38.07	37.63
688	Punjab	Patiala	Samaspur-Pz	26.05	31.23	27.8	27
689	Punjab	Patiala	Sangatpura-Pz	29.93		30.55	29.75
690	Punjab	Patiala	Sauja-PZ	31.35		32.35	31.7
691	Punjab	Patiala	Surala Kalan-PZ	2.9		2.65	1.7
692	Punjab	Patiala	Thua	35.41		38.44	35.96
693	Punjab	Rupnagar	Ahmedpur	9.14	8.88		6.64
694	Punjab	Rupnagar	Amrali-PZ	17.55		18.55	17.75
695	Punjab	Rupnagar	Attari-PZ	6.9		5.6	5.8
696	Punjab	Rupnagar	Badali-Pz	13.2			
697	Punjab	Rupnagar	Bains	17.6	2.42	16.6	16.2
698	Punjab	Rupnagar	Bera Chauta	3.44		1.97	2.9
699	Punjab	Rupnagar	Bhatto-PZ	5.8		2.9	3.9
700	Punjab	Rupnagar	Bhalan		4.36	2.58	3.97
701	Punjab	Rupnagar	Braham Pur	5.37	3.33	3.21	3.4
702	Punjab	Rupnagar	Chakdera	4.05	1.4	3.63	4.19
703	Punjab	Rupnagar	Chatamli- Pz	39.65	41.15	39.27	38
704	Punjab	Rupnagar	Dhair	12.8	8.12	9.54	7.72
705	Punjab	Rupnagar	Dumewal			10.48	11.73
706	Punjab	Rupnagar	Hardinamoh	3.15	1.2	2.44	2.21
707	Punjab	Rupnagar	Kakrali			16.66	17.49
708	Punjab	Rupnagar	Klwan-PZ	10.6		9.6	9.9

709	Punjab	Rupnagar	Kotla	0.65			1.3
710	Punjab	Rupnagar	Morinda-PZ	24.5		25.2	24.8
711	Punjab	Rupnagar	Rajgiri-PZ	22.1		20.7	20.1
712	Punjab	Rupnagar	Rurki Heeran-Pz	20.95	21.9	20.22	19.01
713	Punjab	Rupnagar	Salempur	22.6		22.8	
714	Punjab	Rupnagar	Singh Bhagwant Pur	32.3		32.5	
715	Punjab	Sangrur	Bagarian-Pz	31.46	33.06	32.31	32.05
716	Punjab	Sangrur	Bakshiwala-PZ	36.1		36.55	36.25
717	Punjab	Sangrur	Banbhaura-PZ	28			28.6
718	Punjab	Sangrur	Bhogiwal- Pz	33			
719	Punjab	Sangrur	Bhojowali-Pz	38.1	40.4	39.42	38.05
720	Punjab	Sangrur	Bhunerheri-PZ			41.15	40.4
721	Punjab	Sangrur	Bopla-PZ	35.54			
722	Punjab	Sangrur	Bugra 1	34.22		33.75	
723	Punjab	Sangrur	Chatha Nanhera-PZ	29.25		30.05	29.8
724	Punjab	Sangrur	Chural Kalan M	29.57	31.31	31.24	31.46
725	Punjab	Sangrur	Dharamgarh-Pz	33.2		34.8	32.55
726	Punjab	Sangrur	Ghanauri Kalan-Pz	40.8	42.18	42.18	41.92
727	Punjab	Sangrur	Haryao-DW			23.95	23.6
728	Punjab	Sangrur	Hassanpur-Pz	32.45		33.6	33.1
729	Punjab	Sangrur	Kala Jhar-Pz	35.1		35.9	35.45
730	Punjab	Sangrur	Khanpur Fakiran-PZ	32.45		33.6	34.2
731	Punjab	Sangrur	Kheri Naran-PZ	35.05		36.25	35.3
732	Punjab	Sangrur	Khurni-PZ	36.15		37.35	37.1
733	Punjab	Sangrur	Kila Hakima	28.35		30.8	29.4
734	Punjab	Sangrur	Kokahar-PZ	26.9		28.3	27.25
735	Punjab	Sangrur	Kuler Khurd-Pz	36.05		37.3	37.1
736	Punjab	Sangrur	Ladda-Pz	34.93	36.98	37.17	36.25
737	Punjab	Sangrur	Lehal Kalan-Pz	31.4		32.8	32
738	Punjab	Sangrur	Longowal-Pz	30.31	31.8	31.17	31.21
739	Punjab	Sangrur	Malerkotla	31.26			
740	Punjab	Sangrur	Malerkotla-DW	39.26		38.65	38.48
741	Punjab	Sangrur	Manvi-Pz	25.26	26.01	24.34	27.52
742	Punjab	Sangrur	Minsa-Pz	35.55			
743	Punjab	Sangrur	Panjgaraian- Pz	40.4		41.96	41.2
744	Punjab	Sangrur	Rajo Majra-PZ	32.3		34	33.3
745	Punjab	Sangrur	Rampur Channa-Pz	29.3		31.2	30
746	Punjab	Sangrur	Rurgarh-PZ	43.3		44.71	43.75
747	Punjab	Sangrur	Rurki Kalan-Pz	24.8		26.03	24.9
748	Punjab	Sangrur	Sekhpur Khurd-PZ	37.95		39.1	38.5
749	Punjab	Sangrur	Sekhwas-PZ	27.65		29.3	28.15
750	Punjab	Sangrur	Sikandarpur-PZ	40.15		41.95	41.25
751	Punjab	Sangrur	Sunam-Pz	36.66	39.03	37.26	37.19
752	Punjab	SAS Nagar	Antala	4.66	3.94	2.84	3.19
753	Punjab	SAS Nagar	Balongi-PZ	42.55		41.35	40.1
754	Punjab	SAS Nagar	Barauli-PZ	35.95		36.75	34.65

755	Punjab	SAS Nagar	Chandiala-Pz	25.25		23.55	21.9
756	Punjab	SAS Nagar	Dera Bassi 07pz	15.95	13.19	12.35	12.27
757	Punjab	SAS Nagar	Dheri	6.06	5.6	4.79	5.1
758	Punjab	SAS Nagar	Gharoon	16.5		11.2	11.5
759	Punjab	SAS Nagar	Ghoga	6.32	3.13	1.93	3.3
760	Punjab	SAS Nagar	Gholu majra 07pz	12.83		35	6.08
761	Punjab	SAS Nagar	Joli	11.77	7.24	4.74	20.02
762	Punjab	SAS Nagar	Kurrha-Pz	21.9		5.43	
763	Punjab	SAS Nagar	Landran-Pz	16.59	15.49	21.5	
764	Punjab	SAS Nagar	Malkpur-Pz	6.7		14.35	
765	Punjab	SAS Nagar	Manoli-PZ	18.85		19.5	18.8
766	Punjab	SAS Nagar	Mirpur-Pz	28.9		27.65	30.7
767	Punjab	SAS Nagar	Palheri-PZ	27.65		51	26.9
768	Punjab	SAS Nagar	Pedol-PZ	50.7		16	49.8
769	Punjab	SAS Nagar	Raipur Kalan	17.9		31.6	15.8
770	Punjab	SAS Nagar	Singhpura-Pz	32.3		0.86	31.05
771	Punjab	SAS Nagar	Sirsini	2.32	0.7	2.6	1.02
772	Punjab	SAS Nagar	Sundran-Pz	24.35		22.85	
773	Punjab	SBS Nagar	Alowal-Pz	6.5		6.45	6.1
774	Punjab	SBS Nagar	Aur-PZ	12.4		12.6	11.4
775	Punjab	SBS Nagar	Badhwan-Pz	20.2		18.8	17.4
776	Punjab	SBS Nagar	Baharam-Pz			22	18.9
777	Punjab	SBS Nagar	Bahara-Pz	18.6		17.85	16.9
778	Punjab	SBS Nagar	Bahlora Kallan- Pz	6.83		5.27	5.4
779	Punjab	SBS Nagar	Bahua-Pz	23.8		25.3	21.9
780	Punjab	SBS Nagar	Balachore			14.9	19.8
781	Punjab	SBS Nagar	Balaipur-PZ	23		23.2	
782	Punjab	SBS Nagar	Banga-Pz			18.95	
783	Punjab	SBS Nagar	Bhadi-PZ	27.5		25	23.5
784	Punjab	SBS Nagar	Dhan Wala-PZ	46.8		48	47.1
785	Punjab	SBS Nagar	Dugri Garol-PZ	7.6		6.6	6.95
786	Punjab	SBS Nagar	Hakimpur-Pz	18.4		18.7	16.8
787	Punjab	SBS Nagar	Jethu Majra-PZ	18.9		18.8	17.7
788	Punjab	SBS Nagar	Kariam-Pz	16.8		16.8	16.3
789	Punjab	SBS Nagar	Langoya-PZ	18.7		18.5	17.5
790	Punjab	SBS Nagar	Mahalpur-PZ	13.3		14.9	12.5
791	Punjab	SBS Nagar	Mauhra-Pz	35.13	36.8	34.11	33.37
792	Punjab	SBS Nagar	Padmaiwal-PZ	21.4		19.9	18.4
793	Punjab	SBS Nagar	Raipur Dhaba-Pz	18.38			17.01
794	Punjab	SBS Nagar	Rahon		9.97	13	10.47
795	Punjab	SBS Nagar	Ramgarh-Pz	14.3		17.52	
796	Punjab	SBS Nagar	Saroya-Pz	33.2		12.9	
797	Punjab	Taran Taran	Aima Khurd-Pz	15.3		15.1	13.9
798	Punjab	Taran Taran	Aminshah Khalra			18	18
799	Punjab	Taran Taran	Attari-Pz	15.2		15.4	14.7
800	Punjab	Taran Taran	Bahla-Pz	21.3			

801	Punjab	Taran Taran	Bakipur-Pz	21.8		21.9	24.5
802	Punjab	Taran Taran	Bath-Pz	22.1		23	22.7
803	Punjab	Taran Taran	Bhagala-Pz	11.1		15.5	
804	Punjab	Taran Taran	Bhagwanpur-Pz	17.7		17.5	17.4
805	Punjab	Taran Taran	Bhalaipur-Pz	21.2			20.9
806	Punjab	Taran Taran	Bhankar Kalan-Pz	19.9		17.8	17
807	Punjab	Taran Taran	Bhikiwind- Pz	17.16	18.49	17.8	17.14
808	Punjab	Taran Taran	Bhura-Pz	15.9		16.3	
809	Punjab	Taran Taran	Bhure-Pz	22		22.3	21.9
810	Punjab	Taran Taran	Bhusse-Pz	16.7		15.5	16.6
811	Punjab	Taran Taran	Brahmpur-Pz	19.2		22.1	21.8
812	Punjab	Taran Taran	Chabal 07	18.3		18.9	18.07
813	Punjab	Taran Taran	Chakkare Khan-Pz	20.5		21.1	20.7
814	Punjab	Taran Taran	Chola Sahib-Pz	19.29	23.45	20.3	18.94
815	Punjab	Taran Taran	Chuselawad-Pz	22.5		24.1	24.1
816	Punjab	Taran Taran	Dholan-Pz	7.7			
817	Punjab	Taran Taran	Ekalgoda-Pz	24		23.9	23.3
818	Punjab	Taran Taran	Fatehabad- PZ	21		21.5	21.1
819	Punjab	Taran Taran	Gandi Wind-Pz	13.45	14.98	13.9	13.43
820	Punjab	Taran Taran	Goindwal 07		20.74	21.05	20.02
821	Punjab	Taran Taran	Jalalabad-PZ			15.7	
822	Punjab	Taran Taran	Jandoke-Pz	21.8		22.8	22.5
823	Punjab	Taran Taran	Kairon-PZ	18.9		18.9	18.6
824	Punjab	Taran Taran	Kalsia Kalan07	17.23	18.95	16.8	17.48
825	Punjab	Taran Taran	Khadur Sahib-Pz	20.02	21.05	20.09	19.26
826	Punjab	Taran Taran	Khalra-Pz	15.1		14.6	14.5
827	Punjab	Taran Taran	Kotbudda-Pz	14.8		12.8	12.7
828	Punjab	Taran Taran	Kotli Sur Singh-Pz	16.8		17.3	16.9
829	Punjab	Taran Taran	Mahendipur-Pz	18.5			
830	Punjab	Taran Taran	Marhona-Pz	18.2		21.3	20.7
831	Punjab	Taran Taran	Mari Kamboke-Pz	12.2		11.2	11.3
832	Punjab	Taran Taran	Mohawa	14.61		15.09	
833	Punjab	Taran Taran	Pindan-Pz	17.6		18.3	17.8
834	Punjab	Taran Taran	Rajoke-Pz	8.1		7.9	7.6
835	Punjab	Taran Taran	Ratoke-Pz	20.64	24.95	23.75	21.75
836	Punjab	Taran Taran	Sabran-Pz	27.1		26.5	26.8
837	Punjab	Taran Taran	Sahab Pura- Pz	21.33	23.44	21.68	20.99
838	Punjab	Taran Taran	Sheron-Pz	22.6		22.7	22.3
839	Punjab	Taran Taran	Sugga-Pz	20.9		20.8	20.5

Annexure II. Seasonal water Level Fluctuation

				2018 Jan	2018 May	2018 May	2018 May
S. No	State	District	Location	2018 May	2018 August	2018 November	2019 January
1	Chandigarh	**CHANDIGARH**	BURAIL	-1.46	-1.60	-1.55	-1.27
2	Chandigarh	**CHANDIGARH**	CSIO-S	-0.08	-0.15	0.57	-0.09
3	Chandigarh	**CHANDIGARH**	Sec-27, Ar Well		-0.53	0.22	-0.69
4	Chandigarh	**CHANDIGARH**	SECT 10C (D)		0.47	-0.20	-0.33
5	Chandigarh	**CHANDIGARH**	SECT 31D (D)	0.43	0.11	-0.32	0.00
6	Chandigarh	**CHANDIGARH**	SECT 31D (S)	-1.25	-1.09	-1.10	-3.11
7	Chandigarh	**CHANDIGARH**	SECT 37D (S)	-1.02	-3.01	-1.66	-1.32
8	Chandigarh	**CHANDIGARH**	Sector 52- PZ		4.71		6.01
9	Chandigarh	**CHANDIGARH**	Sector-46 (shallow)		-5.09	-1.15	-1.11
10	Punjab	**AMRITSAR**	Ajnala	-0.19		2.58	-0.42
11	Punjab	**AMRITSAR**	Amritsar1	-0.64	0.05	0.45	-0.61
12	Punjab	**AMRITSAR**	Bajwa-Pz	-0.80			
13	Punjab	**AMRITSAR**	Bal Kalan-Pz	-0.60		0.20	-0.70
14	Punjab	**AMRITSAR**	Beas07	-0.74	0.00	-0.57	-0.62
15	Punjab	**AMRITSAR**	Bhattaywad-Pz			-0.20	-0.50
16	Punjab	**AMRITSAR**	Bholewal-Pz	-0.80		0.50	
17	Punjab	**AMRITSAR**	Boparai Khurd-Pz	-0.80		-0.40	-1.50
18	Punjab	**AMRITSAR**	Chak Dogra-Pz	-0.70		0.80	-1.60
19	Punjab	**AMRITSAR**	Dhulika-Pz	-0.90		0.30	0.30
20	Punjab	**AMRITSAR**	Dohan-Pz	-0.60		-0.10	0.30
21	Punjab	**AMRITSAR**	Gill wali-Pz	-0.60		-0.70	-1.00
22	Punjab	**AMRITSAR**	Jandiala Guru-Pz	0.30	0.73	0.25	-0.22
23	Punjab	**AMRITSAR**	Jethuwal-Pz	-0.60		-0.10	-0.50
24	Punjab	**AMRITSAR**	Kandowali-Pz	-0.80		-0.30	-0.30
25	Punjab	**AMRITSAR**	Karyal-Pz	-0.80		-0.60	-1.00
26	Punjab	**AMRITSAR**	Khilchian-Pz	0.10			
27	Punjab	**AMRITSAR**	Mahima-Pz	-0.50		0.10	-0.60
28	Punjab	**AMRITSAR**	Majitha-Pz			0.00	
29	Punjab	**AMRITSAR**	Majitha-Pz				0.10
30	Punjab	**AMRITSAR**	Makhan Windi-Pz	-0.30		1.30	-0.20
31	Punjab	**AMRITSAR**	Mehleykey-Pz	-0.90		-0.10	-2.80
32	Punjab	**AMRITSAR**	Mehta	-1.08		-0.22	
33	Punjab	**AMRITSAR**	Mehta-Pz	-1.00		0.20	-0.15
34	Punjab	**AMRITSAR**	Miran Chak-Pz	-0.80		-0.30	0.00
35	Punjab	**AMRITSAR**	Nangal Sahaul-Pz	-1.00		-0.50	-0.60
36	Punjab	**AMRITSAR**	Nawan Tanal- Pz		0.89	-0.53	-1.43
37	Punjab	**AMRITSAR**	Ramdas-DW	-0.29	2.72	-0.19	-0.14
38	Punjab	**AMRITSAR**	Rampura-Pz	-0.20			
39	Punjab	**AMRITSAR**	Rayya-Pz	-0.40		-0.30	
40	Punjab	**AMRITSAR**	Rupowal Brahmana-Pz	-1.00		0.00	0.10
41	Punjab	**AMRITSAR**	Sarangra-Pz	-0.90		-0.20	
42	Punjab	**AMRITSAR**	Sathiala-Pz	-0.70		-0.30	
43	Punjab	**AMRITSAR**	Shabura-Pz	-0.90		-0.80	-1.10
44	Punjab	**AMRITSAR**	Sham Nagar-Pz	-1.20		-0.40	-0.70

45	Punjab	**AMRITSAR**	Talwandi Dogra-Pz	-1.20		-0.50	-1.20
46	Punjab	**AMRITSAR**	Tarsika-Pz	-0.90		-0.40	-0.60
47	Punjab	**AMRITSAR**	Ugar Aulakh-Pz	-0.70		-0.50	-0.20
48	Punjab	**AMRITSAR**	Vadala Kalan-Pz	-0.70		-0.10	
49	Punjab	**AMRITSAR**	Vadala Viran-Pz	-0.35		-0.75	
50	Punjab	**AMRITSAR**	Verka-Pz	-1.00		-0.40	
51	Punjab	**AMRITSAR**	Wandala Bittewad-Pz	-1.20		-0.90	-1.10
52	Punjab	**BARNALA**	Amla Singh Wala-PZ			0.17	3.16
53	Punjab	**BARNALA**	Barnala (s)	1.30	1.27	5.11	0.94
54	Punjab	**BARNALA**	Bhadaur-Pz	1.79	2.01	0.39	1.46
55	Punjab	**BARNALA**	Daula-Pz			0.22	
56	Punjab	**BARNALA**	Dhanaula-Pz				
57	Punjab	**BARNALA**	Kurar-Pz		4.10	0.21	2.93
58	Punjab	**BARNALA**	Lohgarh-Pz			0.21	3.18
59	Punjab	**BARNALA**	Mahal Kalan-Pz	1.74	2.02	0.75	1.42
60	Punjab	**BARNALA**	Nangal-Pz			0.22	
61	Punjab	**BARNALA**	Pakho Ke-Pz		-1.75	-0.59	-1.39
62	Punjab	**BARNALA**	Patti Dwarka-Pz		3.55	-0.88	
63	Punjab	**BARNALA**	Raisar-Pz		4.28	0.18	
64	Punjab	**BARNALA**	Ramgarh-Pz			0.18	
65	Punjab	**BARNALA**	Shekha			0.26	4.99
66	Punjab	**BATHINDA**	Ablu	0.83	0.83	-0.53	-0.42
67	Punjab	**BATHINDA**	Aleke Jalal-Pz		2.33	-0.20	
68	Punjab	**BATHINDA**	Badiala-Pz	2.34	2.44		0.89
69	Punjab	**BATHINDA**	Balianwali-Pz		0.98	0.35	0.40
70	Punjab	**BATHINDA**	Balluana1	0.22	0.08	-0.20	0.19
71	Punjab	**BATHINDA**	Balluana-Pz		0.66	0.22	0.32
72	Punjab	**BATHINDA**	Bandi-Pz		-0.07	-0.22	
73	Punjab	**BATHINDA**	Bhagibandar	0.50	0.60	-4.16	0.44
74	Punjab	**BATHINDA**	Bugran-Pz		2.44	0.08	1.58
75	Punjab	**BATHINDA**	Burj Gill-Pz		1.65	-0.74	1.19
76	Punjab	**BATHINDA**	Deratapp	-0.25	1.32	0.21	1.49
77	Punjab	**BATHINDA**	Dhapali1	2.26	-0.70		-0.23
78	Punjab	**BATHINDA**	Dhapali-Pz	2.00	2.22	0.92	2.40
79	Punjab	**BATHINDA**	Dialpur Mirza				
80	Punjab	**BATHINDA**	Dialpura Bhlaike	2.38	0.87	-0.10	1.43
81	Punjab	**BATHINDA**	Dialpura- Mirza	1.28	2.09		
82	Punjab	**BATHINDA**	Dulle Wala-Pz		2.00	-0.89	0.98
83	Punjab	**BATHINDA**	Ganga-Pz	1.55	1.10	-0.09	1.30
84	Punjab	**BATHINDA**	Ghudda				
85	Punjab	**BATHINDA**	Ghudda-Pz		0.22	-0.22	-0.84
86	Punjab	**BATHINDA**	Gobind Pura-Pz		1.68	-0.25	
87	Punjab	**BATHINDA**	Gulabgarh 2 (s)	0.57	0.00		-0.23
88	Punjab	**BATHINDA**	Guru Sar-Pz	0.66	0.31	-0.23	0.20
89	Punjab	**BATHINDA**	Harraipur-Pz		2.50		0.64
90	Punjab	**BATHINDA**	Jajjal	1.43	1.75	-0.15	0.15
91	Punjab	**BATHINDA**	Jassi Bhagwali	3.64	3.45	3.11	3.82
92	Punjab	**BATHINDA**	Jassi Paowali-Pz			-0.35	

93	Punjab	**BATHINDA**	Jhanduke	2.65	2.51	0.45	1.20
94	Punjab	**BATHINDA**	Jhanduke-Pz		1.11	0.17	0.42
95	Punjab	**BATHINDA**	Kalayan Sukha-S				
96	Punjab	**BATHINDA**	Kalla Bandar	0.05	4.54	-0.09	5.00
97	Punjab	**BATHINDA**	Kalyan Sukha-M		1.88	0.17	1.08
98	Punjab	**BATHINDA**	Koir Singh Wala-Pz		2.18	0.08	
99	Punjab	**BATHINDA**	Kot Shamir	0.95	0.91	-0.10	0.22
100	Punjab	**BATHINDA**	Kothaguru-Pz	1.48	1.88	-0.11	1.33
101	Punjab	**BATHINDA**	Lehra Dhulkot-Pz		-0.03	-0.91	0.55
102	Punjab	**BATHINDA**	Maihma Bhagwan-PZ		0.67	-1.10	0.28
103	Punjab	**BATHINDA**	Maisar Khana	1.02	1.14	-1.06	0.65
104	Punjab	**BATHINDA**	Maisar Khana-Pz		0.74	-1.98	
105	Punjab	**BATHINDA**	Maluka-Pz		1.83	-0.17	
106	Punjab	**BATHINDA**	Mandi Kalan-Pz		0.13	0.06	0.74
107	Punjab	**BATHINDA**	Mehraj-Pz		1.22	-0.35	0.77
108	Punjab	**BATHINDA**	Mehta-Pz		0.20	-0.54	0.12
109	Punjab	**BATHINDA**	Multania-Pz		0.88	0.07	0.69
110	Punjab	**BATHINDA**	Nahinwala	4.52	-0.04		-0.16
111	Punjab	**BATHINDA**	Nathana-Pz		2.95	-0.45	1.08
112	Punjab	**BATHINDA**	Phulla1	-4.25	-4.78	0.90	-5.75
113	Punjab	**BATHINDA**	Raike Kalan	1.01	0.47	-0.21	0.32
114	Punjab	**BATHINDA**	Rampura				
115	Punjab	**BATHINDA**	Rampura-Pz		1.73		
116	Punjab	**BATHINDA**	Rayya-Pz		1.24		
117	Punjab	**BATHINDA**	Salabatpur-Pz		1.78		
118	Punjab	**BATHINDA**	Sangat -Pz	0.35	-2.24	-0.31	2.19
119	Punjab	**BATHINDA**	Seema-DW			-0.07	
120	Punjab	**BATHINDA**	Sidhana			-0.64	-2.24
121	Punjab	**BATHINDA**	Sooch-Pz		1.04		
122	Punjab	**BATHINDA**	Tungwali-Pz			-0.46	0.11
123	Punjab	**FARIDKOT**	Aryan Wala-Pz	0.86		-0.66	
124	Punjab	**FARIDKOT**	Baja Khana	0.81	1.62	-1.48	0.91
125	Punjab	**FARIDKOT**	Bead Sikhanwala- Pz	0.69	-0.27		-0.09
126	Punjab	**FARIDKOT**	Behabal Kalan-Pz				
127	Punjab	**FARIDKOT**	Chahd Baja	1.37	1.25	-0.50	-0.04
128	Punjab	**FARIDKOT**	Deviwala-S	1.90	-0.36		0.73
129	Punjab	**FARIDKOT**	Dhilwan Kalan				
130	Punjab	**FARIDKOT**	Dhudi-Pz		0.20	-0.48	
131	Punjab	**FARIDKOT**	Dipsinghwala				
132	Punjab	**FARIDKOT**	Faridkot-Pz		0.35	-0.70	
133	Punjab	**FARIDKOT**	Ghuiana-Pz		-0.90	-0.60	
134	Punjab	**FARIDKOT**	Jand Sahib-Pz	-1.12		-1.22	-2.60
135	Punjab	**FARIDKOT**	Karirwali	1.66	-1.47	-0.13	-2.14
136	Punjab	**FARIDKOT**	Killi-Pz	-0.79		-0.73	-1.98
137	Punjab	**FARIDKOT**	Kot Kapura	0.55	1.39	-0.23	1.46
138	Punjab	**FARIDKOT**	Matta	1.58	1.86	0.08	1.34
139	Punjab	**FARIDKOT**	Mehmuana	-0.66	-0.98	-0.53	-0.73
140	Punjab	**FARIDKOT**	Mumra-Pz	0.49		-0.37	-1.18

141	Punjab	**FARIDKOT**	Nangal-Pz	1.84	0.44	-1.21	-0.89
142	Punjab	**FARIDKOT**	Nawan Killa-Pz				
143	Punjab	**FARIDKOT**	Pahluwala-Pz		-0.17	-0.42	
144	Punjab	**FARIDKOT**	Ratti Rori-Pz		0.15	-0.55	
145	Punjab	**FARIDKOT**	Rorian Kapura-Pz		1.42	-0.15	
146	Punjab	**FARIDKOT**	Sadiq-Pz	-0.04	-0.81	-0.01	-0.72
147	Punjab	**FARIDKOT**	Sandhwan-Pz				
148	Punjab	**FARIDKOT**	Sher Singh Wala- Pz	-0.02	-0.73	-0.67	-0.61
149	Punjab	**FARIDKOT**	Sukhwala-Pz	-0.51	-1.38	-0.70	-1.68
150	Punjab	**FARIDKOT**	Tehna-Pz	3.30	-0.80		-0.80
151	Punjab	**FARIDKOT**	Wara Dwarka-Pz	0.12	-0.46	-0.62	-0.06
152	Punjab	**FATEHGARH SAHIB**	Alipur Sodhian-Pz		1.30	0.30	1.00
153	Punjab	**FATEHGARH SAHIB**	Badalialasingh	3.81	0.96	0.62	0.08
154	Punjab	**FATEHGARH SAHIB**	Bagga Kalan		0.40	0.00	0.10
155	Punjab	**FATEHGARH SAHIB**	Bassi Pathana	1.44		-0.37	-0.28
156	Punjab	**FATEHGARH SAHIB**	Bhaddal Tuha-Pz	-14.08	-14.69		-15.43
157	Punjab	**FATEHGARH SAHIB**	Bhagrana				
158	Punjab	**FATEHGARH SAHIB**	Bhateri1	2.20	1.15	0.92	-0.08
159	Punjab	**FATEHGARH SAHIB**	Burj		0.35	-0.55	0.00
160	Punjab	**FATEHGARH SAHIB**	Chandiala-Pz		0.75	0.15	0.35
161	Punjab	**FATEHGARH SAHIB**	Chunni Kalan	-0.46	-0.59		-1.45
162	Punjab	**FATEHGARH SAHIB**	Fatehgarh Sahib-Pz	0.55	-0.83		
163	Punjab	**FATEHGARH SAHIB**	Fatehgarh Sahib-Pz			-0.37	-0.04
164	Punjab	**FATEHGARH SAHIB**	Inayatpur-PZ-S				
165	Punjab	**FATEHGARH SAHIB**	Jai Singh Wala		-0.20	0.20	0.50
166	Punjab	**FATEHGARH SAHIB**	Jhambela		0.65	0.00	0.50
167	Punjab	**FATEHGARH SAHIB**	Kalewal		1.30	-0.70	
168	Punjab	**FATEHGARH SAHIB**	Khamanon-pz		-0.35	-0.70	-0.10
169	Punjab	**FATEHGARH SAHIB**	Kharey_PZ		0.85	0.15	
170	Punjab	**FATEHGARH SAHIB**	Khera-Pz		0.20	0.30	0.00
171	Punjab	**FATEHGARH SAHIB**	Ladpur		0.80	0.10	
172	Punjab	**FATEHGARH SAHIB**	Lohar Majra		0.30	-0.05	0.05

173	Punjab	**FATEHGARH SAHIB**	Mianpur-Pz		0.30	0.00	-0.25
174	Punjab	**FATEHGARH SAHIB**	Nalini-Pz	1.22	0.42	-0.26	-0.90
175	Punjab	**FATEHGARH SAHIB**	Nandpur Kalaur-Pz		0.20	-0.10	-0.20
176	Punjab	**FATEHGARH SAHIB**	Pawala				
177	Punjab	**FATEHGARH SAHIB**	Sado Majra		0.25	0.20	
178	Punjab	**FATEHGARH SAHIB**	Salempur		-3.15	0.30	
179	Punjab	**FATEHGARH SAHIB**	Shahpur		0.45	-0.35	0.25
180	Punjab	**FATEHGARH SAHIB**	Sirhind-Pz		-1.60	-2.10	-1.80
181	Punjab	**FATEHGARH SAHIB**	Tahalpur		0.00	-0.20	-0.45
182	Punjab	**FATEHGARH SAHIB**	Talwara		-0.65	0.20	-0.80
183	Punjab	**FATEHGARH SAHIB**	Timber Pur-Pz		-0.50	0.15	-0.50
184	Punjab	**FAZILKA**	Abohar	0.18	-0.09	-0.53	-0.03
185	Punjab	**FAZILKA**	Alamgarh				
186	Punjab	**FAZILKA**	Asifwala-Pz		0.13	-0.38	-0.03
187	Punjab	**FAZILKA**	Bannawala	0.55	0.79	-0.08	0.05
188	Punjab	**FAZILKA**	Bazirdpura	0.07	-0.07		-0.20
189	Punjab	**FAZILKA**	Bulla Rai Uttar-Pz				
190	Punjab	**FAZILKA**	Chak Khere Wala-Pz		0.12	-0.37	-0.12
191	Punjab	**FAZILKA**	Danewal Satkosi	0.40	1.62	0.71	1.31
192	Punjab	**FAZILKA**	Danger Khera-Pz		0.01		0.02
193	Punjab	**FAZILKA**	Dipulana-Pz				
194	Punjab	**FAZILKA**	Fattu Wala-Pz		0.10	0.20	-0.18
195	Punjab	**FAZILKA**	Giddran Wali-Pz		-2.06	-1.56	
196	Punjab	**FAZILKA**	Godiwala-Pz		0.46	0.46	0.34
197	Punjab	**FAZILKA**	Hamed Saidoke-Pz		-0.20	-0.40	-0.33
198	Punjab	**FAZILKA**	Himmatpura-Pz		1.02	-0.13	0.72
199	Punjab	**FAZILKA**	Jaimal Singhwala Pz			0.30	
200	Punjab	**FAZILKA**	Jalalabad-Pz		0.28	-0.20	-8.72
201	Punjab	**FAZILKA**	Jand Wala Johian-Pz		0.49	-0.38	
202	Punjab	**FAZILKA**	Kaler Khera-Pz		-0.15		0.00
203	Punjab	**FAZILKA**	Khuiansarwar- Pz	0.19	0.63	-0.06	-0.01
204	Punjab	**FAZILKA**	Kundal1	0.04	0.25	-0.18	0.97
205	Punjab	**FAZILKA**	Ladhuwala		-0.23	0.18	0.54
206	Punjab	**FAZILKA**	Malukpur-Pz		-0.75	-0.48	-0.74
207	Punjab	**FAZILKA**	Motiwala 07pz				
208	Punjab	**FAZILKA**	Muradwala Dal-Pz		0.30	-0.85	0.22
209	Punjab	**FAZILKA**	Nihalkhera				
210	Punjab	**FAZILKA**	Nure-Ki-Uttar 07pz		17.16	0.46	17.63
211	Punjab	**FAZILKA**	Pancha Wali-Pz		-0.10	-0.26	-0.28
212	Punjab	**FAZILKA**	Pattiwalla-Pz		-0.55		-0.61

213	Punjab	**FAZILKA**	Ramsara-Pz		0.53	0.13	0.20
214	Punjab	**FAZILKA**	Sham Singhwala-Pz		-0.29		-2.97
215	Punjab	**FAZILKA**	Shatriwala-Pz		0.25		
216	Punjab	**FAZILKA**	Sherewala-Pz		0.02	-0.10	-0.30
217	Punjab	**FAZILKA**	Sitoganno	0.00	0.36	-0.25	0.15
218	Punjab	**FAZILKA**	Sohangarh Ratte	-0.09	-0.51	-0.63	-1.38
219	Punjab	**FAZILKA**	Swah Wala- Pz				
220	Punjab	**FIROZPUR**	Bara Mansur Wala-Pz		0.41	-0.11	0.14
221	Punjab	**FIROZPUR**	Chak Kandhe Shah-Pz		1.13	-2.97	-2.56
222	Punjab	**FIROZPUR**	Chamb-Pz		0.15	-0.45	-0.30
223	Punjab	**FIROZPUR**	Dulchi Ke-Pz		0.54	0.05	0.13
224	Punjab	**FIROZPUR**	Gogiani-Pz		1.23	0.00	0.57
225	Punjab	**FIROZPUR**	Jaimal wala-Pz		1.58	-0.07	0.67
226	Punjab	**FIROZPUR**	Jang-Pz		0.79	-0.24	0.62
227	Punjab	**FIROZPUR**	Karman 07pz				
228	Punjab	**FIROZPUR**	Katoran-Pz		-2.19	-0.03	
229	Punjab	**FIROZPUR**	Lauhke Kalan- Pz	5.05	1.93		-0.08
230	Punjab	**FIROZPUR**	Lohere Khurd-Pz		0.32	-0.18	-0.69
231	Punjab	**FIROZPUR**	Machi Bugra/ Gujran-Pz		0.50	0.00	-0.20
232	Punjab	**FIROZPUR**	Mallanwala Khas-Pz		0.83	-0.19	0.55
233	Punjab	**FIROZPUR**	Malluwala-Pz		0.92	-0.05	0.50
234	Punjab	**FIROZPUR**	Malsian-Pz				
235	Punjab	**FIROZPUR**	Mana Singh Wala-Pz		0.03	-0.40	-0.40
236	Punjab	**FIROZPUR**	Mohkam Khan Wala-Pz		0.81	-0.16	0.50
237	Punjab	**FIROZPUR**	Mohre Wala-Pz	0.70	0.00	-0.60	-0.12
238	Punjab	**FIROZPUR**	Mudki-Pz		0.58	-0.32	0.10
239	Punjab	**FIROZPUR**	Piyarana	0.50	-0.10	-0.70	-0.58
240	Punjab	**FIROZPUR**	Rala Hazi- Pz		0.79	0.03	0.40
241	Punjab	**FIROZPUR**	Rukne Wala-Pz		-0.20	-0.30	-0.28
242	Punjab	**FIROZPUR**	Sadhusha Wala-Pz		0.39	-0.61	0.10
243	Punjab	**FIROZPUR**	Sultan Khan Wala Urf-Pz		0.44	-0.20	0.75
244	Punjab	**FIROZPUR**	Talwandi Jalle Khan-pz		0.41	0.13	-0.91
245	Punjab	**FIROZPUR**	Tibbi Kalan-Pz		1.07	-0.40	0.76
246	Punjab	**FIROZPUR**	Tibbi Taiwan Laluwalla-Pz		0.42	-0.40	0.25
247	Punjab	**FIROZPUR**	Wage Wala-Pz		-0.04	-0.55	-0.40
248	Punjab	**GURDASPUR**	Aulakhkalan		0.10		
249	Punjab	**GURDASPUR**	Bariyar		-1.05	-1.20	-0.70
250	Punjab	**GURDASPUR**	Batala-Pz		-0.10	-0.55	
251	Punjab	**GURDASPUR**	Bhagowal	0.09	-1.76	-0.88	-1.21
252	Punjab	**GURDASPUR**	Bham		-1.44		
253	Punjab	**GURDASPUR**	Bilasbal-Pz		-1.00	-0.50	-1.40
254	Punjab	**GURDASPUR**	Chahal Kalan-Pz		-1.00	-0.60	-0.40
255	Punjab	**GURDASPUR**	Chahgill-Pz		-0.45	-1.00	
256	Punjab	**GURDASPUR**	Chone-Pz		-0.45	-0.50	-0.45
257	Punjab	**GURDASPUR**	Dakoha-Pz	1.41	-0.16	-0.82	-0.52
258	Punjab	**GURDASPUR**	Dera Baba Nanak	-0.16	-0.89	-0.78	-0.77
259	Punjab	**GURDASPUR**	Dhianpur		-0.95	-0.77	-1.00

260	Punjab	**GURDASPUR**	Dinanagar	-4.80	-3.97	-4.68	-1.35
261	Punjab	**GURDASPUR**	Dostpur-Pz		-0.90	-0.40	-0.90
262	Punjab	**GURDASPUR**	Gajikort-Pz		-1.10	-0.80	-0.60
263	Punjab	**GURDASPUR**	Galri	-1.38	-4.51	-0.95	-1.27
264	Punjab	**GURDASPUR**	Ghania Ki bangar- Pz	1.07	-0.66	-0.50	-0.72
265	Punjab	**GURDASPUR**	Ghumani Khurd-Pz		-1.10	-0.80	-4.20
266	Punjab	**GURDASPUR**	Gurdaspur-Pz		-0.25	0.10	-0.50
267	Punjab	**GURDASPUR**	Harchowal-Pz			-1.50	
268	Punjab	**GURDASPUR**	Harchowal-Pz-S	0.10	-1.21		-0.93
269	Punjab	**GURDASPUR**	Hassanpur Kalan-Pz		-0.65	-0.20	-0.55
270	Punjab	**GURDASPUR**	Jhabkra		-2.00	-0.50	-1.20
271	Punjab	**GURDASPUR**	Jhandalbana-Pz		-1.00	-0.40	-0.90
272	Punjab	**GURDASPUR**	Kala Afgana-Pz		-0.15	-0.55	-0.30
273	Punjab	**GURDASPUR**	Kalanaur-DW		-0.22	-0.23	
274	Punjab	**GURDASPUR**	Kalanaur-Pz	1.93	-0.84	6.80	-0.01
275	Punjab	**GURDASPUR**	Kalerkalan-Pz				
276	Punjab	**GURDASPUR**	Kaure-Pz		0.00	-0.20	-0.60
277	Punjab	**GURDASPUR**	Khan Fatta-Pz		-0.80	-0.50	-0.70
278	Punjab	**GURDASPUR**	Khanmalik-Pz		-1.75	-1.10	-1.65
279	Punjab	**GURDASPUR**	Khatgarh-Pz		-0.80	-0.80	-0.50
280	Punjab	**GURDASPUR**	Lakankala-Pz		-1.10	-0.45	-1.20
281	Punjab	**GURDASPUR**	Langurwal-Pz		-1.30	-1.00	-1.10
282	Punjab	**GURDASPUR**	Madipur Fatehgarhchuria	0.83	-0.64	-0.52	-0.68
283	Punjab	**GURDASPUR**	Malikpur-Pz		0.25	0.85	-0.60
284	Punjab	**GURDASPUR**	Mallewal-Pz				
285	Punjab	**GURDASPUR**	Maman-Pz		-1.20	-1.00	-1.40
286	Punjab	**GURDASPUR**	Masana-Pz		-1.70	-0.55	-1.00
287	Punjab	**GURDASPUR**	Massit-Pz		-0.90	-0.35	-0.60
288	Punjab	**GURDASPUR**	Mirza Jaan-Pz				
289	Punjab	**GURDASPUR**	Mullowali 1(vs)	0.63	-0.22	-0.19	
290	Punjab	**GURDASPUR**	Mullowali 2(m)		-0.19	-2.22	-2.31
291	Punjab	**GURDASPUR**	Nangal-Pz		-0.90	-0.20	-0.60
292	Punjab	**GURDASPUR**	Nishayara		0.21		0.12
293	Punjab	**GURDASPUR**	Pandoritalab	-0.33	-0.34	-1.18	-0.29
294	Punjab	**GURDASPUR**	Paniar				
295	Punjab	**GURDASPUR**	Parcha-Pz		-1.60	-0.40	-1.30
296	Punjab	**GURDASPUR**	Patti Atwal-Pz		-0.30	-0.40	-0.50
297	Punjab	**GURDASPUR**	Quaddian -Pz		-0.95	-0.30	
298	Punjab	**GURDASPUR**	Raipur		-1.95	-0.85	-1.50
299	Punjab	**GURDASPUR**	Saidowal Kalan-DW	-0.78	-1.35	-1.08	-1.22
300	Punjab	**GURDASPUR**	Saleh Chak-S	0.48	-0.33	-0.32	-0.93
301	Punjab	**GURDASPUR**	Salehchak(vs)	0.80	-0.33	-0.39	-0.28
302	Punjab	**GURDASPUR**	Sathial-Pz	0.31	-1.15	-1.96	-0.94
303	Punjab	**GURDASPUR**	Shahpur Jattan-Pz		0.30	-1.15	0.15
304	Punjab	**GURDASPUR**	Shahpur-Pz		-0.80	-1.00	-0.75
305	Punjab	**GURDASPUR**	Shezada Kalan-Pz		0.90	0.05	1.10
306	Punjab	**GURDASPUR**	Shikar-Pz			0.30	
307	Punjab	**GURDASPUR**	Sohal				

308	Punjab	**GURDASPUR**	Tikriwala-Pz		-0.80	0.20	-0.70
309	Punjab	**HOSHIARPUR**	Aallo Batti-Pz				
310	Punjab	**HOSHIARPUR**	Adowal Garhi-Pz	0.33	0.78		2.48
311	Punjab	**HOSHIARPUR**	Argowal-Pz				
312	Punjab	**HOSHIARPUR**	Badla-Pz				
313	Punjab	**HOSHIARPUR**	Bajwara-Pz				
314	Punjab	**HOSHIARPUR**	Barota-PZ				
315	Punjab	**HOSHIARPUR**	Bagpur-Pz				
316	Punjab	**HOSHIARPUR**	Baichan-Pz				
317	Punjab	**HOSHIARPUR**	Bersa				
318	Punjab	**HOSHIARPUR**	Bhalowal Gujjran-Pz				
319	Punjab	**HOSHIARPUR**	Bhamnaur				
320	Punjab	**HOSHIARPUR**	Bhangala-Chhota-DW				
321	Punjab	**HOSHIARPUR**	Bhanowal-Pz				
322	Punjab	**HOSHIARPUR**	Bhatolian-Pz				
323	Punjab	**HOSHIARPUR**	Bhunga-Pz				
324	Punjab	**HOSHIARPUR**	Boring-PZ				
325	Punjab	**HOSHIARPUR**	Budhi Pind-Pz				
326	Punjab	**HOSHIARPUR**	Chak Sheru-DW				
327	Punjab	**HOSHIARPUR**	Chohal	1.50	1.62	1.74	1.75
328	Punjab	**HOSHIARPUR**	Dadan-Pz				
329	Punjab	**HOSHIARPUR**	DAGAN-DW				
330	Punjab	**HOSHIARPUR**	Dallewal-Pz				
331	Punjab	**HOSHIARPUR**	Dasuya2 (s)		-3.39	-2.40	-7.19
332	Punjab	**HOSHIARPUR**	Dharampur1				
333	Punjab	**HOSHIARPUR**	Durimiwal	0.00	-1.44	-0.79	-1.08
334	Punjab	**HOSHIARPUR**	Fattowal-Pz				
335	Punjab	**HOSHIARPUR**	Garh Di Wala-Pz	1.69	2.13	-0.31	1.49
336	Punjab	**HOSHIARPUR**	Garhshankar (s)	3.88	3.56	2.32	4.11
337	Punjab	**HOSHIARPUR**	Grahaya-Pz				
338	Punjab	**HOSHIARPUR**	Haler Rampur-DW				
339	Punjab	**HOSHIARPUR**	Hazipur	-3.97	-2.82	-1.67	-1.42
340	Punjab	**HOSHIARPUR**	Heer Beh-PZ				
341	Punjab	**HOSHIARPUR**	Ittian-Pz				
342	Punjab	**HOSHIARPUR**	Jahidpur-PZ				
343	Punjab	**HOSHIARPUR**	Jalalpur-Pz				
344	Punjab	**HOSHIARPUR**	Jattpur-Pz				
345	Punjab	**HOSHIARPUR**	Jhir Da Khuh-DW				
346	Punjab	**HOSHIARPUR**	Khera-Pz				
347	Punjab	**HOSHIARPUR**	Mahil Baltohian-Pz				
348	Punjab	**HOSHIARPUR**	Mahilpur-Pz	-1.55	-3.98	-1.95	-4.18
349	Punjab	**HOSHIARPUR**	Mianipur-Pz				
350	Punjab	**HOSHIARPUR**	Mukerian Dw				
351	Punjab	**HOSHIARPUR**	Naharpur-Pz				
352	Punjab	**HOSHIARPUR**	Namoli-PZ				
353	Punjab	**HOSHIARPUR**	Nangal Bihala- DW	0.03	-0.93	-1.43	-1.42
354	Punjab	**HOSHIARPUR**	Nangal Thathal-Pz				
355	Punjab	**HOSHIARPUR**	Pan Khuh-DW				

356	Punjab	**HOSHIARPUR**	Pandori Mehal-Pz				
357	Punjab	**HOSHIARPUR**	Parshote-Pz				
358	Punjab	**HOSHIARPUR**	Phuglana- Pz	5.14	1.09	1.73	-1.93
359	Punjab	**HOSHIARPUR**	Rampur Colony (HSP) pz-medium				
360	Punjab	**HOSHIARPUR**	Samraj Tanda-DW				
361	Punjab	**HOSHIARPUR**	Satnoh-PZ.				
362	Punjab	**HOSHIARPUR**	Sham Chaurasi	0.49	-0.65	-0.27	-0.88
363	Punjab	**HOSHIARPUR**	Sibo Chak- DW				
364	Punjab	**HOSHIARPUR**	Simbli- OW	-1.03	-4.64	-6.00	
365	Punjab	**HOSHIARPUR**	Simbli-Pz	-2.18	-3.56	-4.81	-6.74
366	Punjab	**HOSHIARPUR**	Talwara1	-2.54	-2.00	-0.65	-1.19
367	Punjab	**HOSHIARPUR**	Tanda				
368	Punjab	**HOSHIARPUR**	Thakarwala	-1.44	-3.74	-0.52	-3.69
369	Punjab	**JALANDHAR**	Adampur 3(s)		-1.48	-1.13	-1.39
370	Punjab	**JALANDHAR**	Adarman-Pz				
371	Punjab	**JALANDHAR**	Akalpur-Pz		-0.10	-1.00	-0.40
372	Punjab	**JALANDHAR**	Allawalpur				
373	Punjab	**JALANDHAR**	Bhogpur-Pz			-1.60	
374	Punjab	**JALANDHAR**	Bilga-Pz		0.00	-0.40	-0.50
375	Punjab	**JALANDHAR**	Billi Chahrami-Pz		2.00	-1.25	0.10
376	Punjab	**JALANDHAR**	Chania-Pz		0.40	-1.20	-0.40
377	Punjab	**JALANDHAR**	Dhanda-Pz		0.40	-0.40	-0.10
378	Punjab	**JALANDHAR**	Dhirowal-Pz				
379	Punjab	**JALANDHAR**	Fateh Jalal-Pz		-0.50	-3.20	-4.75
380	Punjab	**JALANDHAR**	Gehlan-pz		0.50	-0.20	-0.80
381	Punjab	**JALANDHAR**	Gillian-Pz		1.20	-1.60	-0.90
382	Punjab	**JALANDHAR**	Gohiran				
383	Punjab	**JALANDHAR**	Hardo Pharwal-Pz				
384	Punjab	**JALANDHAR**	Hardo Sheikh-Pz		1.50	-0.70	1.10
385	Punjab	**JALANDHAR**	Jalandhar-Pz(VS)	-0.87	2.77	-2.39	-2.96
386	Punjab	**JALANDHAR**	Jalbhe	-1.29	-4.14		-2.62
387	Punjab	**JALANDHAR**	Jandiala-Pz	2.27	2.27	0.71	1.11
388	Punjab	**JALANDHAR**	Jandu Singha-Pz		0.30	0.10	
389	Punjab	**JALANDHAR**	Janian-Pz		0.60	-1.50	-0.50
390	Punjab	**JALANDHAR**	Kakar Kalan-Pz		-0.10	-0.60	-0.60
391	Punjab	**JALANDHAR**	Kala-Pz		-0.10	-1.30	-2.30
392	Punjab	**JALANDHAR**	Kalyanpur-Pz		0.70	-1.20	0.30
393	Punjab	**JALANDHAR**	Kang Sahib Rai-Pz		0.00	-0.50	-0.70
394	Punjab	**JALANDHAR**	Kartarpur 2(s)	0.41	-0.31	-1.38	-1.31
395	Punjab	**JALANDHAR**	Khaira Majha				
396	Punjab	**JALANDHAR**	Kharal Kalan Pz-S	-0.06	-2.08	-2.07	-3.24
397	Punjab	**JALANDHAR**	Kot Wadal Khan-Pz			-1.60	-2.40
398	Punjab	**JALANDHAR**	Kurla-Pz		-0.50	-1.10	
399	Punjab	**JALANDHAR**	Lallian kalan Pz-S	-2.57	1.54	-0.47	0.87
400	Punjab	**JALANDHAR**	Mahmuwal-Pz		0.20	-0.35	-0.10
401	Punjab	**JALANDHAR**	Mehsampur-Pz		2.20	-1.10	-0.90
402	Punjab	**JALANDHAR**	Nakodar 2(m)		3.54	4.24	3.49
403	Punjab	**JALANDHAR**	Nakodar 3(s)				

404	Punjab	**JALANDHAR**	Nangal Shaman		-1.20	-0.90	-1.50
405	Punjab	**JALANDHAR**	Nasirpur-Pz		0.40	-0.30	0.10
406	Punjab	**JALANDHAR**	Nussi-Pz		1.20	-1.75	-3.75
407	Punjab	**JALANDHAR**	Pathial-Pz		-0.80	-0.80	
408	Punjab	**JALANDHAR**	Pharwala-Pz		0.70	-1.50	-2.00
409	Punjab	**JALANDHAR**	Phillaur 2(s)	0.42	-0.03	-0.38	-0.33
410	Punjab	**JALANDHAR**	Rahimpur-Pz		-0.30	-2.20	-2.60
411	Punjab	**JALANDHAR**	Rurka Kalan- Pz		2.20	-2.30	-1.80
412	Punjab	**JALANDHAR**	Samarahi-Pz		-0.20	-1.90	-0.70
413	Punjab	**JALANDHAR**	Shahkot(s)		1.74		1.70
414	Punjab	**JALANDHAR**	Shahkot-Pz-Pb		0.10	-1.00	-0.30
415	Punjab	**JALANDHAR**	Skarar Pur-Pz		0.20	-4.00	
416	Punjab	**JALANDHAR**	Sultanpur-Pz		-0.60	-0.60	-1.00
417	Punjab	**JALANDHAR**	Talwani Madho-Pz				
418	Punjab	**JALANDHAR**	Talwan-Pz		0.60	-0.30	-1.90
419	Punjab	**JALANDHAR**	Thanda-Pz		3.80	-1.20	-0.40
420	Punjab	**JALANDHAR**	Udhopur	2.40		3.18	0.25
421	Punjab	**KAPURTHALA**	Amanipur-Pz				
422	Punjab	**KAPURTHALA**	Balera-Pz				
423	Punjab	**KAPURTHALA**	Bauril Harnampur-Pz		0.65	-0.85	
424	Punjab	**KAPURTHALA**	Begowal-Pz		0.15	-0.35	
425	Punjab	**KAPURTHALA**	Bhanoki-Pz		0.67	-1.23	
426	Punjab	**KAPURTHALA**	Bhatnura Khurd- S	0.63	-1.42		-1.65
427	Punjab	**KAPURTHALA**	Bhawanipur-Pz		1.36	-0.94	
428	Punjab	**KAPURTHALA**	Bholath M	1.06	-0.79	-0.60	-0.23
429	Punjab	**KAPURTHALA**	Bholath S	-0.57	-0.42	-7.10	-1.23
430	Punjab	**KAPURTHALA**	Chakoke-Pz		0.35	-1.00	
431	Punjab	**KAPURTHALA**	Dalla				
432	Punjab	**KAPURTHALA**	Hamira-Pz		0.75	-0.85	
433	Punjab	**KAPURTHALA**	Hazipur-Pz		0.15	-1.10	
434	Punjab	**KAPURTHALA**	Hussainpura-S Pz	-1.78	-0.44	-2.63	-2.78
435	Punjab	**KAPURTHALA**	Hussainpura-VS Pz		0.78	-4.40	-1.70
436	Punjab	**KAPURTHALA**	Kapurthala2 (s)	5.11	-1.15	-1.09	-3.86
437	Punjab	**KAPURTHALA**	Karnail Ganju-Pz		0.40	-0.60	
438	Punjab	**KAPURTHALA**	Kishanpur		0.30	-2.20	
439	Punjab	**KAPURTHALA**	Maheru-Pz		0.40	-0.50	
440	Punjab	**KAPURTHALA**	Miani Bola-Pz		-0.17	-0.95	
441	Punjab	**KAPURTHALA**	Mithra-Pz				
442	Punjab	**KAPURTHALA**	Nadala		0.28	-1.23	
443	Punjab	**KAPURTHALA**	Nangal Lubhana-Pz		0.15	-0.45	
444	Punjab	**KAPURTHALA**	Nathu Chahal-Pz		1.90	-3.00	
445	Punjab	**KAPURTHALA**	Nurpur Janoa-Pz		0.45	-0.75	
446	Punjab	**KAPURTHALA**	Paazian-Pz				
447	Punjab	**KAPURTHALA**	Phagwara(shallow)		-0.13	-0.88	
448	Punjab	**KAPURTHALA**	Phagwara2 (s)				
449	Punjab	**KAPURTHALA**	Rawalpindi-Pz		1.10	-1.30	
450	Punjab	**KAPURTHALA**	Saiflabad-Pz				
451	Punjab	**KAPURTHALA**	Sangatpur-Pz		1.60	-0.50	

452	Punjab	**KAPURTHALA**	Shalapur Dona-Pz				
453	Punjab	**KAPURTHALA**	Sultanpur2 (s)	1.60	-0.29	-1.57	-1.18
454	Punjab	**KAPURTHALA**	Talwandi Chaudary -Pz	12.90	11.15	10.00	9.69
455	Punjab	**KAPURTHALA**	Thikriwali-Pz		0.00	-0.75	
456	Punjab	**LUDHIANA**	Alamgir-Pz		-0.49	-0.95	-0.50
457	Punjab	**LUDHIANA**	Aliwal-Pz		-0.12	-0.22	-0.67
458	Punjab	**LUDHIANA**	Bassian MGOW				
459	Punjab	**LUDHIANA**	Begowal		-1.06		-1.19
460	Punjab	**LUDHIANA**	Bhagwanpur-Pz		-0.10	-0.50	-0.45
461	Punjab	**LUDHIANA**	Bhahlolpur-DW	0.00	-0.96	-0.60	-0.47
462	Punjab	**LUDHIANA**	Bharthala Randhawa-Pz		0.75	-0.45	0.05
463	Punjab	**LUDHIANA**	Bhikhi Khatron-Pz		-0.30	-0.80	-0.50
464	Punjab	**LUDHIANA**	Bilaspur-Pz		-0.80	-0.40	-0.70
465	Punjab	**LUDHIANA**	Chaminala-Pz		1.30	-0.40	-0.10
466	Punjab	**LUDHIANA**	Chankian Khurd-Pz		-0.25	-0.59	-1.25
467	Punjab	**LUDHIANA**	Chattar Singh Park-ldh				
468	Punjab	**LUDHIANA**	Chaunta-Pz		-0.55	-0.65	-0.85
469	Punjab	**LUDHIANA**	Chhapar-Pz		1.30	0.00	-0.35
470	Punjab	**LUDHIANA**	Dinnamder-Pz		0.93	-0.20	-0.20
471	Punjab	**LUDHIANA**	Dodpur-Pz		0.50	-0.65	-0.05
472	Punjab	**LUDHIANA**	Doraha-Pz	0.40	-0.88	-0.71	-0.46
473	Punjab	**LUDHIANA**	Galibkalan-Pz		2.30	0.65	1.81
474	Punjab	**LUDHIANA**	Gohaur-Pz		-0.20	-0.85	-0.40
475	Punjab	**LUDHIANA**	Gopalpur 2(s)		0.91	0.07	0.30
476	Punjab	**LUDHIANA**	Hallawara-Pz-S	2.91	0.59		-0.92
477	Punjab	**LUDHIANA**	Hambowal-Pz		-0.75	-0.65	-0.65
478	Punjab	**LUDHIANA**	Harnampur		-0.05	-0.85	-0.45
479	Punjab	**LUDHIANA**	Hedon-Pz		0.10	-0.65	-0.55
480	Punjab	**LUDHIANA**	Ikloha-Pz	1.57	0.70	0.84	0.24
481	Punjab	**LUDHIANA**	Jagraon 2(s)		67.46		6.50
482	Punjab	**LUDHIANA**	Kalsian		1.35	0.15	0.65
483	Punjab	**LUDHIANA**	Katanikalan-Pz		-0.50	-0.80	-0.70
484	Punjab	**LUDHIANA**	Khandur		0.60	0.10	0.25
485	Punjab	**LUDHIANA**	Kishangarh-Pz		0.00	-0.80	-0.60
486	Punjab	**LUDHIANA**	Kishanpur-Pz		1.45	0.00	0.05
487	Punjab	**LUDHIANA**	Lalan1	0.16	-1.53		-1.16
488	Punjab	**LUDHIANA**	Lelon-Pz				
489	Punjab	**LUDHIANA**	Lil- II Pz	3.28	1.84	2.04	
490	Punjab	**LUDHIANA**	Lil-Pz III	3.50	0.23	-1.73	
491	Punjab	**LUDHIANA**	Lodhiwal-Pz		-0.75	-0.25	0.00
492	Punjab	**LUDHIANA**	Lohara-Pz		0.45	-0.65	0.15
493	Punjab	**LUDHIANA**	Machhiwara-Pz		-1.41	-1.00	
494	Punjab	**LUDHIANA**	Maksudra-Pz				
495	Punjab	**LUDHIANA**	Manak Majra-Pz		0.80	-0.15	0.25
496	Punjab	**LUDHIANA**	Mangat-Pz		-0.25	-0.55	-1.25
497	Punjab	**LUDHIANA**	Mangat-Pz-S	0.63	-0.82		15.68
498	Punjab	**LUDHIANA**	Mansuran-MGOW				
499	Punjab	**LUDHIANA**	Mehduda		-0.45	-0.55	

500	Punjab	**LUDHIANA**	Mehma Singh Wala-Pz		0.70	-0.10	0.20
501	Punjab	**LUDHIANA**	Mushkabad		-1.27	-1.33	-1.27
502	Punjab	**LUDHIANA**	Nurpur-Pz		1.70	0.80	0.70
503	Punjab	**LUDHIANA**	P.A.U.Ludhiana 2(s)		-0.22	3.67	3.50
504	Punjab	**LUDHIANA**	Pabbian-Pz	13.64	0.75	0.30	0.50
505	Punjab	**LUDHIANA**	Pandori-Pz		-0.20	-0.55	-0.45
506	Punjab	**LUDHIANA**	Payal-Pz		-0.20	0.05	-0.60
507	Punjab	**LUDHIANA**	Punjeta				
508	Punjab	**LUDHIANA**	Ragba-Pz		0.00	-0.45	-0.80
509	Punjab	**LUDHIANA**	Raikot-Pz		0.64	-0.76	-0.56
510	Punjab	**LUDHIANA**	Rajona Khurd		1.10	-1.55	-2.20
511	Punjab	**LUDHIANA**	Rashiana-Pz		0.45	0.00	-0.60
512	Punjab	**LUDHIANA**	Rashin		0.75	0.45	-0.45
513	Punjab	**LUDHIANA**	Rattewal-Pz		1.56	0.35	-4.75
514	Punjab	**LUDHIANA**	Roomi-Pz		-0.06	-2.00	-2.00
515	Punjab	**LUDHIANA**	Sahoran-Pz				
516	Punjab	**LUDHIANA**	Sajaywal-Pz		-0.95	-2.90	-3.55
517	Punjab	**LUDHIANA**	Samrala 2(s)	0.40	-0.35	-0.65	-0.62
518	Punjab	**LUDHIANA**	Sanewal-Pz		-0.40	-0.40	-0.60
519	Punjab	**LUDHIANA**	Sangatpura-Pz		-0.85	-1.25	-1.45
520	Punjab	**LUDHIANA**	Sherian	0.23	-0.52	-0.20	-0.55
521	Punjab	**LUDHIANA**	Sherpur-Pz		-0.77	-0.57	-0.42
522	Punjab	**LUDHIANA**	Sidhwan Bet-Pz	1.35	-0.37	-0.99	0.08
523	Punjab	**LUDHIANA**	Talwandi Kalan-Pz		-0.10	-0.35	-0.72
524	Punjab	**LUDHIANA**	Tandari Kallon				
525	Punjab	**LUDHIANA**	Udonwal-Pz		-0.75		-0.65
526	Punjab	**LUDHIANA**	Upplan		-0.75	-0.80	-0.95
527	Punjab	**LUDHIANA**	Utlan		0.25		
528	Punjab	**MANSA**	Aklia-Pz		2.59	-0.15	
529	Punjab	**MANSA**	Alampur Mandran-Pz		-0.91	-0.84	
530	Punjab	**MANSA**	Alisher Khurd-Pz		1.00	-0.18	
531	Punjab	**MANSA**	Bahadur Pur-Pz		1.28	-1.21	
532	Punjab	**MANSA**	Bareh-Pz		-1.00	-0.42	
533	Punjab	**MANSA**	Behniwala-Pz			-0.06	
534	Punjab	**MANSA**	Bhamme Kalan-Pz		-0.04	-0.19	
535	Punjab	**MANSA**	Bhikhi 1 (s)	0.50	1.74	0.71	
536	Punjab	**MANSA**	Bhikhi 2 (s)		0.72		0.75
537	Punjab	**MANSA**	Budhlada				
538	Punjab	**MANSA**	Budhlada-Pz				0.43
539	Punjab	**MANSA**	Burj Bhalaike	-0.37	0.11	-1.46	0.20
540	Punjab	**MANSA**	Burj Rathi-Pz		1.60	-0.01	
541	Punjab	**MANSA**	Fattamaluka	0.22	-0.10	-0.70	0.30
542	Punjab	**MANSA**	Gharangne-Pz		-0.18	-0.35	
543	Punjab	**MANSA**	Hero Kalan-Pz		-0.03	0.06	
544	Punjab	**MANSA**	Hirke-Pz		1.50	-0.60	
545	Punjab	**MANSA**	Jhanda Khurd Pz				
546	Punjab	**MANSA**	Joga -Dp-PZ				
547	Punjab	**MANSA**	Junniar				

548	Punjab	**MANSA**	Khiala Kalan-Pz		-0.25	-0.16	
549	Punjab	**MANSA**	Khokhar Kalan-Pz		0.97	0.55	
550	Punjab	**MANSA**	Kot Dhamru	0.42	0.77	0.03	
551	Punjab	**MANSA**	Kotra	0.09	0.99	0.01	
552	Punjab	**MANSA**	Kusla-Pz		0.71	-1.10	
553	Punjab	**MANSA**	Lakhiwal-Pz		1.07	0.24	
554	Punjab	**MANSA**	Makha-[PZ		-0.43	-0.51	
555	Punjab	**MANSA**	Mansa				
556	Punjab	**MANSA**	Phaphare Bhaike-Pz		1.22	-0.23	
557	Punjab	**MANSA**	Raipur-Pz	-0.10	0.24	-0.01	-0.02
558	Punjab	**MANSA**	Ralla	0.84	0.60	-0.74	0.19
559	Punjab	**MANSA**	Tibbi Hari Singh-PZ		0.86	-0.74	
560	Punjab	**MOGA**	Baje Ke-Pz	4.90	1.37	-0.32	0.30
561	Punjab	**MOGA**	Baraghar-Pz				
562	Punjab	**MOGA**	Bilaspur-PZ			0.26	1.52
563	Punjab	**MOGA**	Budh Singh Wala-Pz	2.51	2.51	-0.14	1.38
564	Punjab	**MOGA**	Chand Nawan-PZ			0.31	3.49
565	Punjab	**MOGA**	Chogawan-Pz	4.87	8.50	2.32	3.31
566	Punjab	**MOGA**	Dagru- Pz	2.73	8.21	2.90	3.76
567	Punjab	**MOGA**	Damru Khurd	-1.97	3.85		-3.13
568	Punjab	**MOGA**	Darapur				
569	Punjab	**MOGA**	Darapur 07pz				
570	Punjab	**MOGA**	Daulatpur Niwan-Pz			0.26	2.71
571	Punjab	**MOGA**	Dhudi Ke-PZ			0.24	
572	Punjab	**MOGA**	Dinna-PZ			0.22	5.63
573	Punjab	**MOGA**	Ghoha Khurd-Pz				
574	Punjab	**MOGA**	Himatpura-Pz			0.17	
575	Punjab	**MOGA**	Indergarh-Pz		3.00	1.00	2.32
576	Punjab	**MOGA**	Jhandewala-Pz			0.24	
577	Punjab	**MOGA**	Kamalke-Pz		0.40	0.14	0.20
578	Punjab	**MOGA**	Khokri Kalan-Pz			0.16	
579	Punjab	**MOGA**	Khosa Randhir-Pz		-3.98	-0.30	-0.35
580	Punjab	**MOGA**	Mandar-Pz		0.95	-0.30	0.25
581	Punjab	**MOGA**	Mangewala-Pz			0.32	1.94
582	Punjab	**MOGA**	Mari Mustfa-PZ				
583	Punjab	**MOGA**	Meemana-PZ			0.32	6.05
584	Punjab	**MOGA**	Mehron-PZ			-0.74	4.22
585	Punjab	**MOGA**	Nathu Wala-Pz		1.72	0.25	
586	Punjab	**MOGA**	Nihalsinghwala-Pz	1.45	1.92	0.30	1.10
587	Punjab	**MOGA**	Raonke Kalan-Pz			-1.77	1.13
588	Punjab	**MOGA**	Samad Bhai-Pz		2.99	0.23	
589	Punjab	**MOGA**	Samalsar-Pz		3.24	0.10	
590	Punjab	**MOGA**	Thathe Bhai-Pz			-0.08	
591	Punjab	**MOGA**	Tota Singh Wala-Pz		0.70	0.65	0.15
592	Punjab	**MUKTSAR**	Abulkharana-Pz		-0.38	-0.20	
593	Punjab	**MUKTSAR**	Alam Wala				
594	Punjab	**MUKTSAR**	Balocha Khera(rasoolpur)	0.35	0.40	-0.15	-0.05
595	Punjab	**MUKTSAR**	Bhaliana	0.64	0.45	-0.12	0.03

596	Punjab	**MUKTSAR**	Bhiti Wala-Pz		0.06	-0.52	
597	Punjab	**MUKTSAR**	Chakmaan-Pz		-1.00	-0.40	
598	Punjab	**MUKTSAR**	Chaktam Kot-Pz		0.75	-0.10	
599	Punjab	**MUKTSAR**	Dahak-S				
600	Punjab	**MUKTSAR**	Dhalkot-Pz		1.05	-0.40	
601	Punjab	**MUKTSAR**	Doda	-1.33	-1.78	-0.01	-0.58
602	Punjab	**MUKTSAR**	Doda-Pz	-1.32	-0.96		-0.55
603	Punjab	**MUKTSAR**	Giddarbaha-Pz		-0.80	-0.35	
604	Punjab	**MUKTSAR**	Husnar-Pz		-0.50	-0.40	
605	Punjab	**MUKTSAR**	Jandwala-Pz		-0.67	-0.30	
606	Punjab	**MUKTSAR**	Jhurar-Pz				
607	Punjab	**MUKTSAR**	Kabar Wala	1.25	0.49	-0.26	-0.38
608	Punjab	**MUKTSAR**	Kattianwali-Pz			-0.30	
609	Punjab	**MUKTSAR**	Khirkian Wala-Pz			-0.53	
610	Punjab	**MUKTSAR**	Khunde Halal-Pz	0.52	-0.54	-0.54	-0.12
611	Punjab	**MUKTSAR**	Kollian Wali-pz		0.45	0.05	
612	Punjab	**MUKTSAR**	Kot Bhai- DW				
613	Punjab	**MUKTSAR**	Kuttianwali				
614	Punjab	**MUKTSAR**	Labanianwali	0.29	-0.62	0.36	-0.37
615	Punjab	**MUKTSAR**	Lambi	-0.50		-0.30	18.05
616	Punjab	**MUKTSAR**	Lambi-Pz		-0.43		-0.53
617	Punjab	**MUKTSAR**	Muktsar	-0.10	-0.15	-2.37	0.13
618	Punjab	**MUKTSAR**	Phulu Khera-Pz		-0.50	-0.30	
619	Punjab	**MUKTSAR**	Ratta Khera Chota-Pz		0.29	-0.16	
620	Punjab	**MUKTSAR**	Sehna khera-Pz		-0.12	-0.32	
621	Punjab	**MUKTSAR**	Sheikh-Pz		-0.27	-0.47	
622	Punjab	**MUKTSAR**	Sohiwal-Pz				
623	Punjab	**PATHANKOT**	Bamyal		-1.41	-0.50	-0.71
624	Punjab	**PATHANKOT**	Bhoa	-1.76	-0.76	-0.58	-0.64
625	Punjab	**PATHANKOT**	Dhar Khurd				
626	Punjab	**PATHANKOT**	Gharotakalan		-1.86		-1.29
627	Punjab	**PATHANKOT**	Ghoh DW	-3.38	-8.19	-3.33	
628	Punjab	**PATHANKOT**	Jainpur-PZ		-1.60	0.00	-0.70
629	Punjab	**PATHANKOT**	Jandwala		-6.10	-2.20	-4.10
630	Punjab	**PATHANKOT**	Jhakolahri	1.08	-0.12		0.64
631	Punjab	**PATHANKOT**	Khanikhui		-0.45		-0.62
632	Punjab	**PATHANKOT**	Khogaki Chaka-PZ		-1.55	-0.35	-1.20
633	Punjab	**PATHANKOT**	Kiari- DW	-4.79	-4.10	-2.43	-2.52
634	Punjab	**PATHANKOT**	Kirian Khurd-PZ		-3.20	-1.40	-2.20
635	Punjab	**PATHANKOT**	Kui-DW	-2.75	-2.80		-2.50
636	Punjab	**PATHANKOT**	Kuther-PZ		-5.00	-3.05	-6.40
637	Punjab	**PATHANKOT**	Malikpur				
638	Punjab	**PATHANKOT**	Matti-PZ		-12.30	-5.40	-7.20
639	Punjab	**PATHANKOT**	Mirthal		-2.05	0.25	
640	Punjab	**PATHANKOT**	Mirthal-DW				
641	Punjab	**PATHANKOT**	Muthi				
642	Punjab	**PATHANKOT**	Narot Jaimalsingh-Pz		-1.90	-0.60	-1.65
643	Punjab	**PATHANKOT**	Nawan Pind	-1.75	-0.70	-0.54	0.27

644	Punjab	**PATHANKOT**	Parmota-DW	-8.33	-7.03	-4.25	-3.91
645	Punjab	**PATHANKOT**	Pathankot1	-1.78	-0.60	1.00	0.19
646	Punjab	**PATHANKOT**	Philora-PZ		-1.00	-0.10	-0.50
647	Punjab	**PATHANKOT**	Phulpiara				
648	Punjab	**PATHANKOT**	Rakawal-PZ		-1.75	-0.55	-1.15
649	Punjab	**PATHANKOT**	Rani Pur-PZ		-7.70	-4.00	-6.40
650	Punjab	**PATHANKOT**	Sarna		-5.53	-2.25	-1.00
651	Punjab	**PATHANKOT**	Sarna1				
652	Punjab	**PATHANKOT**	Sujanpur-PZ		-2.00	-0.60	-0.35
653	Punjab	**PATIALA**	Bassma Pipla				
654	Punjab	**PATIALA**	Bhankhar-Pz			-0.30	0.15
655	Punjab	**PATIALA**	Bhojo majri 07pz				
656	Punjab	**PATIALA**	Bhora-Pz		0.80	-0.25	
657	Punjab	**PATIALA**	Bhunerheri-Pz		2.40	1.35	
658	Punjab	**PATIALA**	Birkauli	3.32	-0.18		-1.76
659	Punjab	**PATIALA**	Challeta-PZ		-0.05	0.10	-0.75
660	Punjab	**PATIALA**	Devigarh 1Pz	4.64	2.21	0.43	0.44
661	Punjab	**PATIALA**	Devigarh IIPz				
662	Punjab	**PATIALA**	Devigarh-III Pz				
663	Punjab	**PATIALA**	Dhaneta-PZ		1.95	0.10	0.35
664	Punjab	**PATIALA**	Gharam-PZ		1.80	-1.55	2.30
665	Punjab	**PATIALA**	Gulwatti-PZ		1.50	-0.75	1.05
666	Punjab	**PATIALA**	Haluka				
667	Punjab	**PATIALA**	Hari Majra				
668	Punjab	**PATIALA**	Harion Kalan-Pz				
669	Punjab	**PATIALA**	Jainagar-PZ		-0.65	0.20	-2.00
670	Punjab	**PATIALA**	Kakrala-Pz			-5.15	
671	Punjab	**PATIALA**	Kalyan 07pz	2.10	0.83	-0.26	-0.79
672	Punjab	**PATIALA**	Kami Kalan	-0.43	-1.21	-0.41	-0.94
673	Punjab	**PATIALA**	Kami Khurd-PZ		2.30	0.70	0.00
674	Punjab	**PATIALA**	Kheri Pandte-PZ		1.90	0.30	-3.50
675	Punjab	**PATIALA**	Kulburcha-Pz		1.65	0.55	0.50
676	Punjab	**PATIALA**	Kutha Kheri-Pz		0.80	-0.20	-0.10
677	Punjab	**PATIALA**	Lacharu Kalan	-2.20	-4.09	-1.55	-3.42
678	Punjab	**PATIALA**	Lachkani-Pz	2.65	0.02	-0.78	-0.48
679	Punjab	**PATIALA**	Mehmood Pur-PZ		2.05	0.20	1.75
680	Punjab	**PATIALA**	Miranpur- Pz				
681	Punjab	**PATIALA**	Mongowal-PZ		0.70	0.05	0.30
682	Punjab	**PATIALA**	Nanhera-Pz		-0.40	-0.15	-1.00
683	Punjab	**PATIALA**	Nariana				
684	Punjab	**PATIALA**	Passiana-PZ		0.50	-0.80	-0.40
685	Punjab	**PATIALA**	Patran-Pz	0.57	1.13	-0.45	1.27
686	Punjab	**PATIALA**	Rajgarh				
687	Punjab	**PATIALA**	Rajpura-PzSt	-8.40	0.16	2.20	-1.32
688	Punjab	**PATIALA**	Rakhra-Pz		0.45	-0.15	
689	Punjab	**PATIALA**	Ramgarh				
690	Punjab	**PATIALA**	Randhawa-Pz		0.05	-0.45	
691	Punjab	**PATIALA**	Rasoolpur Jaura-PZ		0.75	0.25	-0.25

692	Punjab	**PATIALA**	Samana-Pz	0.93	1.25	-0.29	0.81
693	Punjab	**PATIALA**	Samaspur-Pz		1.75	-0.15	0.95
694	Punjab	**PATIALA**	Sangatpura-Pz	1.30	0.62		-0.18
695	Punjab	**PATIALA**	Sauja-PZ		1.00	0.10	0.35
696	Punjab	**PATIALA**	Surala Kalan-PZ		-0.25	0.20	-1.20
697	Punjab	**PATIALA**	Thua		3.03	-0.28	0.55
698	Punjab	**RUPNAGAR**	Ahmedpur	-0.26			-2.50
699	Punjab	**RUPNAGAR**	Ahmedpur				
700	Punjab	**RUPNAGAR**	Amrali-PZ		1.00	-0.20	0.20
701	Punjab	**RUPNAGAR**	Attari-PZ		-1.30	-1.05	-1.10
702	Punjab	**RUPNAGAR**	Badali-Pz			-0.33	
703	Punjab	**RUPNAGAR**	Bains		-1.00	-0.50	-1.40
704	Punjab	**RUPNAGAR**	Bera Chauta	-1.02	-1.47	0.16	-0.54
705	Punjab	**RUPNAGAR**	Bhalan				
706	Punjab	**RUPNAGAR**	Bhatto-PZ		-2.90	-0.55	-1.90
707	Punjab	**RUPNAGAR**	Braham Pur	-2.04	-2.16	-0.64	-1.97
708	Punjab	**RUPNAGAR**	Chakdera	-3.55	-1.32	-0.76	-0.76
709	Punjab	**RUPNAGAR**	Chatamli- Pz	1.50	-0.38	0.16	-1.65
710	Punjab	**RUPNAGAR**	Dhair	-4.68	-3.26	-3.82	-5.08
711	Punjab	**RUPNAGAR**	Dumewal				
712	Punjab	**RUPNAGAR**	Hardinamoh	-1.95	-0.71	-1.05	-0.94
713	Punjab	**RUPNAGAR**	Kakrali				
714	Punjab	**RUPNAGAR**	Klwan-PZ		-1.00	-0.45	-0.70
715	Punjab	**RUPNAGAR**	Kotla			0.15	0.65
716	Punjab	**RUPNAGAR**	Morinda-PZ		0.70	0.10	0.30
717	Punjab	**RUPNAGAR**	Nurpurbedi				
718	Punjab	**RUPNAGAR**	Rajgiri-PZ		-1.40	-0.70	-2.00
719	Punjab	**RUPNAGAR**	Rampur-PZ				
720	Punjab	**RUPNAGAR**	Rurki Heeran-Pz	0.95	-0.73	-1.83	-1.94
721	Punjab	**RUPNAGAR**	Salempur		0.20	-0.15	
722	Punjab	**SANGRUR**	Bagarian-Pz	1.60	0.85	-0.36	0.59
723	Punjab	**SANGRUR**	Bakshiwala-PZ		0.45	-0.80	0.15
724	Punjab	**SANGRUR**	Banbhaura-PZ			0.10	0.60
725	Punjab	**SANGRUR**	Benra-PZ-S	-2.19	-1.14		-1.17
726	Punjab	**SANGRUR**	Bhogiwal- Pz			0.50	
727	Punjab	**SANGRUR**	Bhojowali-Pz	2.30	1.32	-0.25	-0.05
728	Punjab	**SANGRUR**	Bhunerheri-PZ				
729	Punjab	**SANGRUR**	Bopla-PZ			5.16	
730	Punjab	**SANGRUR**	Bugra 1		-0.47	-1.68	
731	Punjab	**SANGRUR**	Chatha Nanhera-PZ		0.80	0.80	0.55
732	Punjab	**SANGRUR**	Chural Kalan M	1.74	1.67	0.09	1.89
733	Punjab	**SANGRUR**	Dharamgarh-Pz		1.60	-1.05	-0.65
734	Punjab	**SANGRUR**	Ghanauri Kalan-Pz	1.38	1.38	0.17	1.12
735	Punjab	**SANGRUR**	Haryao-DW				
736	Punjab	**SANGRUR**	Hassanpur-Pz		1.15	-0.35	0.65
737	Punjab	**SANGRUR**	Kala Jhar-Pz		0.80	0.50	0.35
738	Punjab	**SANGRUR**	Khanpur Fakiran-PZ		1.15	-0.10	1.75
739	Punjab	**SANGRUR**	Kheri Naran-PZ		1.20	-0.10	0.25

740	Punjab	**SANGRUR**	Khurni-PZ		1.20	0.50	0.95
741	Punjab	**SANGRUR**	Kila Hakima		2.45	0.25	1.05
742	Punjab	**SANGRUR**	Kokahar-PZ		1.40	0.75	0.35
743	Punjab	**SANGRUR**	Kuler Khurd-Pz		1.25	-0.80	1.05
744	Punjab	**SANGRUR**	Ladda-Pz	2.08	2.27	-0.15	1.35
745	Punjab	**SANGRUR**	Lehal Kalan-Pz		1.40	0.50	0.60
746	Punjab	**SANGRUR**	Longowal-Pz	1.49	0.86	-0.79	0.90
747	Punjab	**SANGRUR**	Majji-PZ	6.21	6.23		6.31
748	Punjab	**SANGRUR**	Malerkotla				
749	Punjab	**SANGRUR**	Malerkotla-DW		-0.61		-0.78
750	Punjab	**SANGRUR**	Manvi-Pz	0.75	-0.92	-1.68	2.26
751	Punjab	**SANGRUR**	Mehsampur-Pz				
752	Punjab	**SANGRUR**	Minsa-Pz			-0.05	
753	Punjab	**SANGRUR**	Panjgaraian- Pz		1.56	0.00	0.80
754	Punjab	**SANGRUR**	Rajo Majra-PZ		1.70	0.30	1.00
755	Punjab	**SANGRUR**	Rampur Channa-Pz		1.90	0.20	0.70
756	Punjab	**SANGRUR**	Rurgarh-PZ		1.41	0.35	0.45
757	Punjab	**SANGRUR**	Rurki Kalan-Pz		1.23	-0.10	0.10
758	Punjab	**SANGRUR**	Sekhpur Khurd-PZ		1.15	0.30	0.55
759	Punjab	**SANGRUR**	Sekhwas-PZ		1.65	0.25	0.50
760	Punjab	**SANGRUR**	Sikandarpur-PZ		1.80	0.55	1.10
761	Punjab	**SANGRUR**	Sunam-Pz	2.39	0.62	-0.47	0.55
762	Punjab	**SAS NAGAR**	Antala	-0.72	-1.82	-1.31	-1.47
763	Punjab	**SAS NAGAR**	Balongi-PZ		-1.20	-1.43	-2.45
764	Punjab	**SAS NAGAR**	Barauli-PZ		0.80	2.55	-1.30
765	Punjab	**SAS NAGAR**	Chandiala-Pz		-1.70	0.25	-3.35
766	Punjab	**SAS NAGAR**	Dera Bassi 07pz	-2.76	-3.60	-2.80	-3.68
767	Punjab	**SAS NAGAR**	Dheri	-1.00	-1.81	-1.24	-1.50
768	Punjab	**SAS NAGAR**	Gharoon		-5.30	-2.35	-5.00
769	Punjab	**SAS NAGAR**	Ghoga	-3.19	-4.39	-2.46	-3.02
770	Punjab	**SAS NAGAR**	Gholu majra 07pz		22.17		
771	Punjab	**SAS NAGAR**	Issapur- DW		-1.99		
772	Punjab	**SAS NAGAR**	Joli	-4.53	-6.34	-2.67	-5.69
773	Punjab	**SAS NAGAR**	Kurrha-Pz		-0.40	-0.45	-1.88
774	Punjab	**SAS NAGAR**	Landran-Pz	-1.10	-2.24		
775	Punjab	**SAS NAGAR**	Malkpur-Pz			-1.65	
776	Punjab	**SAS NAGAR**	Manoli-PZ		0.65	-0.30	-0.05
777	Punjab	**SAS NAGAR**	Mirpur-Pz				1.80
778	Punjab	**SAS NAGAR**	Palheri-PZ		0.00	1.65	-0.75
779	Punjab	**SAS NAGAR**	Pedol-PZ		0.30	-0.30	-0.90
780	Punjab	**SAS NAGAR**	Raipur Kalan		-1.90	-0.05	-2.10
781	Punjab	**SAS NAGAR**	Rurkan-PZ				
782	Punjab	**SAS NAGAR**	Singhpura-Pz		-0.70	-0.90	-1.25
783	Punjab	**SAS NAGAR**	Sirsini	-1.62	-1.46		-1.30
784	Punjab	**SAS NAGAR**	Sohana-PZ				
785	Punjab	**SAS NAGAR**	Sundran-Pz		-2.41	-2.00	
786	Punjab	**SBS NAGAR**	Alowal-Pz		-0.05	-0.50	-0.40
787	Punjab	**SBS NAGAR**	Aur-PZ		0.20	-0.90	-1.00

788	Punjab	**SBS NAGAR**	Badhwan-Pz		-1.40	-1.30	-2.80
789	Punjab	**SBS NAGAR**	Baharam-Pz				
790	Punjab	**SBS NAGAR**	Bahara-Pz		-0.75	-1.35	-1.70
791	Punjab	**SBS NAGAR**	Bahlora Kallan- Pz		-1.56	-1.42	-1.43
792	Punjab	**SBS NAGAR**	Bahua-Pz		1.50	-0.50	-1.90
793	Punjab	**SBS NAGAR**	Balachore				
794	Punjab	**SBS NAGAR**	Balaipur-PZ		0.20	-0.10	-3.20
795	Punjab	**SBS NAGAR**	Banga-Pz		-3.25	-1.30	
796	Punjab	**SBS NAGAR**	Begowal-Pz				
797	Punjab	**SBS NAGAR**	Bhadi-PZ		-2.50	-1.10	-4.00
798	Punjab	**SBS NAGAR**	Dhan Wala-PZ		1.20	-0.20	0.30
799	Punjab	**SBS NAGAR**	Dugri Garol-PZ		-1.00	-0.70	-0.65
800	Punjab	**SBS NAGAR**	Hakimpur-Pz		0.30	-0.10	-1.60
801	Punjab	**SBS NAGAR**	Jethu Majra-PZ		-0.10	-0.70	-1.20
802	Punjab	**SBS NAGAR**	Kariam-Pz		0.00	-1.20	-0.50
803	Punjab	**SBS NAGAR**	Langoya-PZ		-0.20	-0.40	-1.20
804	Punjab	**SBS NAGAR**	Mahalpur-PZ		1.60	-0.70	-0.80
805	Punjab	**SBS NAGAR**	Mauhra-Pz	1.67	-1.02	-0.96	-1.76
806	Punjab	**SBS NAGAR**	Padmaiwal-PZ		-1.50	-0.20	-3.00
807	Punjab	**SBS NAGAR**	Rahon				
808	Punjab	**SBS NAGAR**	Raipur Dhaba-Pz		-4.66	-4.62	-5.17
809	Punjab	**SBS NAGAR**	Ramgarh-Pz		-1.40	-0.90	
810	Punjab	**SBS NAGAR**	Saroya-Pz			0.30	
811	Punjab	**TARAN TARAN**	Aima Khurd-Pz		-0.20	-0.90	-1.40
812	Punjab	**TARAN TARAN**	Aminshah Khalra				
813	Punjab	**TARAN TARAN**	Attari-Pz		0.20	-0.70	-0.50
814	Punjab	**TARAN TARAN**	Bahla-Pz		-0.40	-0.20	
815	Punjab	**TARAN TARAN**	Bakipur-Pz		0.10	-1.20	2.70
816	Punjab	**TARAN TARAN**	Bath-PZ				
817	Punjab	**TARAN TARAN**	Bath-Pz		0.90		0.60
818	Punjab	**TARAN TARAN**	Bhagala-Pz				
819	Punjab	**TARAN TARAN**	Bhagwanpur-Pz		-0.20		-0.30
820	Punjab	**TARAN TARAN**	Bhalaipur-Pz			-0.70	-0.30
821	Punjab	**TARAN TARAN**	Bhankar Kalan-Pz		-2.10	-2.70	-2.90
822	Punjab	**TARAN TARAN**	Bhikiwind- Pz	1.33	0.64		-0.02
823	Punjab	**TARAN TARAN**	Bhura-Pz		0.40		
824	Punjab	**TARAN TARAN**	Bhure-Pz		0.30	-0.90	-0.10
825	Punjab	**TARAN TARAN**	Bhusse-Pz		-1.20	-0.70	-0.10
826	Punjab	**TARAN TARAN**	Brahmpur-Pz		2.90	-0.20	2.60
827	Punjab	**TARAN TARAN**	Chabal 07		0.60		-0.23
828	Punjab	**TARAN TARAN**	Chakkare Khan-Pz		0.60	-0.40	0.20
829	Punjab	**TARAN TARAN**	Chola Sahib-Pz	4.16	1.01		-0.35
830	Punjab	**TARAN TARAN**	Chuselawad-Pz		1.60		1.60
831	Punjab	**TARAN TARAN**	Dholan-Pz				
832	Punjab	**TARAN TARAN**	Ekalgoda-Pz		-0.10	-1.30	-0.70
833	Punjab	**TARAN TARAN**	Fatehabad- PZ		0.50	0.00	0.10
834	Punjab	**TARAN TARAN**	Gandi Wind-Pz	1.53	0.45		-0.02
835	Punjab	**TARAN TARAN**	Goindwal 07				

836	Punjab	**TARAN TARAN**	Jalalabad-PZ				
837	Punjab	**TARAN TARAN**	Jandoke-Pz		1.00	-0.70	0.70
838	Punjab	**TARAN TARAN**	Kairon-PZ		0.00		-0.30
839	Punjab	**TARAN TARAN**	Kalsia Kalan07	1.72	-0.43		0.25
840	Punjab	**TARAN TARAN**	Khadur Sahib-Pz	1.03	0.07		-0.76
841	Punjab	**TARAN TARAN**	Khalra-Pz		-0.50		-0.60
842	Punjab	**TARAN TARAN**	Kirtowal-Pz		-0.60		
843	Punjab	**TARAN TARAN**	Kotbudda-Pz		-2.00		-2.10
844	Punjab	**TARAN TARAN**	Kotli Sur Singh-Pz		0.50		0.10
845	Punjab	**TARAN TARAN**	Mahendipur-Pz				
846	Punjab	**TARAN TARAN**	Marhona-Pz		3.10	-0.70	2.50
847	Punjab	**TARAN TARAN**	Mari Kamboke-Pz		-1.00		-0.90
848	Punjab	**TARAN TARAN**	Mohawa		0.48		
849	Punjab	**TARAN TARAN**	Nandpur-Pz		2.80	-0.80	
850	Punjab	**TARAN TARAN**	Pindan-Pz		0.70	-0.30	0.20
851	Punjab	**TARAN TARAN**	Rajoke-Pz		-0.20		-0.50
852	Punjab	**TARAN TARAN**	Ratoke-Pz	4.31	3.11		1.11
853	Punjab	**TARAN TARAN**	Sabran-Pz		-0.60		-0.30
854	Punjab	**TARAN TARAN**	Sahab Pura- Pz	2.11	0.35		-0.34
855	Punjab	**TARAN TARAN**	Sheron-Pz		0.10	-0.60	-0.30
856	Punjab	**TARAN TARAN**	Sugga-Pz		-0.10		-0.40
857	Punjab	**TARAN TARAN**	Varing-Pz		-0.10	-0.60	

Annexure III. Annual Water Level Fluctuation

				2017 May	2017 August	2017 November	2018 January
S. No	State	District	Location	2018 May	2018 August	2018 November	2019 January
1	Chandigarh	Chandigarh	BURAIL	-1.54	-0.12	-0.30	-0.19
2	Chandigarh	Chandigarh	CSIO-S	-0.01	0.06	-0.62	0.01
3	Chandigarh	Chandigarh	NEW INDUST AREA		-0.64	1.85	3.10
4	Chandigarh	Chandigarh	Sec-27, Ar Well	0.16	-0.74	-1.44	
5	Chandigarh	Chandigarh	SECT 10C (D)		-6.18	-4.61	
6	Chandigarh	Chandigarh	SECT 10C (S)			-10.29	
7	Chandigarh	Chandigarh	SECT 31D (D)	1.12	0.50	0.84	0.43
8	Chandigarh	Chandigarh	SECT 31D (S)	-1.23	-0.22	-0.22	1.86
9	Chandigarh	Chandigarh	SECT 37D (S)	-0.65	1.82	0.43	0.30
10	Chandigarh	Chandigarh	SECT 39D (S)				
11	Chandigarh	Chandigarh	SECT 44D (S)		0.58	0.42	0.50
12	Chandigarh	Chandigarh	Sector-46 (shallow)	0.48	4.01	0.28	
13	Punjab	Amritsar	Ajnala	-0.56		-2.06	0.23
14	Punjab	Amritsar	Amritsar				5.70
15	Punjab	Amritsar	Amritsar1	-0.62	-0.05	-0.95	-0.03
16	Punjab	Amritsar	Bal Kalan-Pz	2.20		0.40	0.10
17	Punjab	Amritsar	Barnala (s)			-1.27	
18	Punjab	Amritsar	Beas07	-0.14	-0.87	-0.47	-0.12
19	Punjab	Amritsar	Bhadaur-Pz			-1.05	
20	Punjab	Amritsar	Bhattaywad-Pz	-0.10		-10.90	
21	Punjab	Amritsar	Bholewal-Pz			-0.60	
22	Punjab	Amritsar	Boparai Khurd-Pz			0.90	0.70
23	Punjab	Amritsar	Chak Dogra-Pz	1.10		1.00	0.90
24	Punjab	Amritsar	ChogWan- Pz		-0.38	-0.41	-0.96
25	Punjab	Amritsar	Dhanaula-Pz			-9.38	
26	Punjab	Amritsar	Dhulika-Pz	-0.60		-0.90	-1.20
27	Punjab	Amritsar	Dohan-Pz	0.90		-1.10	-0.90
28	Punjab	Amritsar	Gago Mahal- Pz		-1.09	-0.53	0.69
29	Punjab	Amritsar	Gill wali-Pz	0.30		-0.10	0.40
30	Punjab	Amritsar	Jandiala Guru-Pz	-0.88	-0.83	-0.47	0.52
31	Punjab	Amritsar	Jethuwal-Pz	1.50		0.90	-0.10
32	Punjab	Amritsar	Kandowali-Pz	1.00		0.30	-0.50
33	Punjab	Amritsar	Karyal-Pz	-0.30		-0.40	0.20
34	Punjab	Amritsar	Khilchian-Pz	1.80			
35	Punjab	Amritsar	Kurar-Pz			-3.60	
36	Punjab	Amritsar	Mahal Kalan-Pz			-0.98	
37	Punjab	Amritsar	Mahima-Pz	0.50		-0.50	0.10
38	Punjab	Amritsar	Majitha-Pz	0.60		-0.20	-0.40
39	Punjab	Amritsar	Makhan Windi-Pz	2.80		0.30	-0.10
40	Punjab	Amritsar	Mehleykey-Pz	-2.50		0.20	1.90
41	Punjab	Amritsar	Mehta	-0.92		0.05	
42	Punjab	Amritsar	Mehta-Pz	1.18		2.10	-0.85
43	Punjab	Amritsar	Miran Chak-Pz	1.00		-0.10	-0.80
44	Punjab	Amritsar	Nangal Sahaul-Pz	0.30		-0.40	-0.40

45	Punjab	Amritsar	Nawan Tanal- Pz	-0.81	-1.27	-0.57	
46	Punjab	Amritsar	Pakho Ke-Pz			1.50	
47	Punjab	Amritsar	Patti Dwarka-Pz			-3.03	
48	Punjab	Amritsar	Raisar-Pz			-3.82	
49	Punjab	Amritsar	Ramdas-DW	1.46	-2.52	-0.23	-0.15
50	Punjab	Amritsar	Rampura-Pz	2.20			
51	Punjab	Amritsar	Rayya-Pz			-0.10	
52	Punjab	Amritsar	Rupowal Brahmana-Pz	0.30		-0.60	-1.10
53	Punjab	Amritsar	Sarangra-Pz			-0.10	
54	Punjab	Amritsar	Sathiala-Pz	0.90		-0.10	
55	Punjab	Amritsar	Shabura-Pz	-1.90		-0.80	0.20
56	Punjab	Amritsar	Sham Nagar-Pz	0.40		0.00	-0.50
57	Punjab	Amritsar	Shekha			-1.29	0.00
58	Punjab	Amritsar	Talwandi Dogra-Pz	-0.60		-0.70	-0.30
59	Punjab	Amritsar	Tarsika-Pz	1.20		0.70	-0.50
60	Punjab	Amritsar	Ugar Aulakh-Pz	-0.10		-0.30	
61	Punjab	Amritsar	Vadala Kalan-Pz	0.00		-0.60	
62	Punjab	Amritsar	Vadala Viran-Pz			0.50	
63	Punjab	Amritsar	Verka-Pz			1.40	
64	Punjab	Amritsar	Wandala Bittewad-Pz	-0.90		-0.40	-0.10
65	Punjab	Barnala	Amla Singh Wala-PZ	-0.62			-2.99
66	Punjab	Barnala	Barnala (s)	-4.03	-1.85	-1.27	4.17
67	Punjab	Barnala	Bhadaur-Pz	-1.00	-1.19	-1.05	-1.07
68	Punjab	Barnala	Daula-Pz			-9.38	
69	Punjab	Barnala	Dhanaula-Pz			-3.60	-9.63
70	Punjab	Barnala	Kurar-Pz	-0.60			-2.72
71	Punjab	Barnala	Lohgarh-Pz	-1.20			-2.97
72	Punjab	Barnala	Mahal Kalan-Pz	-1.40	-1.16	-0.98	-0.67
73	Punjab	Barnala	Nangal-Pz	-0.61			
74	Punjab	Barnala	Pakho Ke-Pz	-1.20		1.50	0.80
75	Punjab	Barnala	Patti Dwarka-Pz			-3.03	
76	Punjab	Barnala	Raisar-Pz			-3.82	
77	Punjab	Barnala	Ramgarh-Pz	-0.85			-4.73
78	Punjab	Barnala	Shekha	-0.81		-1.29	
79	Punjab	BATHINDA	Ablu	-0.55	-3.13	-0.60	-0.11
80	Punjab	BATHINDA	Aleke Jalal-Pz	-1.32		-0.97	
81	Punjab	BATHINDA	Badiala-Pz	-1.42	-2.34	-0.85	
82	Punjab	BATHINDA	Bagher Mohabat Singh-Pz			-1.33	
83	Punjab	BATHINDA	Bahman Kaur Singh-Pz			-0.73	
84	Punjab	BATHINDA	Balianwali-Pz	-1.29		-0.54	-0.05
85	Punjab	BATHINDA	Balluana1	0.12	-0.01	-0.06	-0.39
86	Punjab	BATHINDA	Balluana-Pz	0.44		-0.19	-0.10
87	Punjab	BATHINDA	Bandi-Pz			-0.05	
88	Punjab	BATHINDA	Bhagibandar	-0.40	-0.56	-0.60	-4.60
89	Punjab	BATHINDA	Bugran-Pz	-1.53		-1.99	-1.50

90	Punjab	BATHINDA	Burj Gill-Pz	-1.29		-1.23	-1.93
91	Punjab	BATHINDA	Deratapp	-0.52	0.42	-0.98	-1.28
92	Punjab	BATHINDA	Dhapali1	-3.22	-2.98	-0.22	
93	Punjab	BATHINDA	Dhapali-Pz	-1.93	0.61	-0.02	-1.48
94	Punjab	BATHINDA	Dialpur Mirza			-0.45	
95	Punjab	BATHINDA	Dialpura Bhlaike	-1.00	-3.33	-0.14	-1.53
96	Punjab	BATHINDA	Dulle Wala-Pz	-1.29		-0.80	
97	Punjab	BATHINDA	Ganga-Pz	-0.40	-0.42	-0.50	-1.39
98	Punjab	BATHINDA	Ghudda-Pz	0.10		0.00	0.62
99	Punjab	BATHINDA	Gobind Pura-Pz			-1.03	
100	Punjab	BATHINDA	Gulabgarh 2 (s)			-0.53	
101	Punjab	BATHINDA	Guru Sar-Pz	-0.36	-0.38	-0.27	-0.43
102	Punjab	BATHINDA	Harraipur-Pz	-0.83		-1.83	
103	Punjab	BATHINDA	Jajjal	-1.45			-0.30
104	Punjab	BATHINDA	Jassi Bhagwali	3.12	-1.42	-0.18	
105	Punjab	BATHINDA	Jassi Paowali-Pz	0.41			
106	Punjab	BATHINDA	Jhanduke	-0.25	-1.95	-0.81	-0.75
107	Punjab	BATHINDA	Jhanduke-Pz	-1.30		0.76	-0.25
108	Punjab	BATHINDA	Kalayan Sukha-S				-1.69
109	Punjab	BATHINDA	Kalla Bandar	0.55	-0.50	-4.39	-5.09
110	Punjab	BATHINDA	Kalyan Sukha-M				-0.91
111	Punjab	BATHINDA	Koir Singh Wala-Pz	-0.57		-1.51	
112	Punjab	BATHINDA	Kot Bhaktu-Pz			0.19	
113	Punjab	BATHINDA	Kot Shamir	-0.24	-0.72		-0.32
114	Punjab	BATHINDA	Kothaguru-Pz	-1.34	-0.13	-1.25	-1.44
115	Punjab	BATHINDA	Lalliana-Pz			0.00	
116	Punjab	BATHINDA	Lehra Dhulkot-Pz	-0.06		0.46	-1.46
117	Punjab	BATHINDA	Maihma Bhagwan-PZ	-0.15		-0.39	-1.38
118	Punjab	BATHINDA	Maisar Khana	-1.75		-1.69	-1.71
119	Punjab	BATHINDA	Maisar Khana-Pz	-2.29		-2.38	
120	Punjab	BATHINDA	Maluka-Pz	-1.11		-1.76	
121	Punjab	BATHINDA	Mandi Kalan-Pz	-0.79		-0.53	-0.68
122	Punjab	BATHINDA	Maur Kalan-Pz			-2.09	
123	Punjab	BATHINDA	Mehraj-Pz	-1.53		-2.05	-1.12
124	Punjab	BATHINDA	Mehta-Pz	-0.27		-0.23	-0.66
125	Punjab	BATHINDA	Multania-Pz	0.22		0.04	-0.62
126	Punjab	BATHINDA	Nahinwala	-0.74	-4.45	-0.02	-1.53
127	Punjab	BATHINDA	Nathana-Pz	-2.61		-0.30	
128	Punjab	BATHINDA	Nathena-Pz			0.29	
129	Punjab	BATHINDA	Phulla1	-6.40	-1.61	-1.35	6.65
130	Punjab	BATHINDA	Raike Kalan	0.82	-0.34	-0.35	-0.53
131	Punjab	BATHINDA	Rajgarh Kubey-Pz			-2.38	
132	Punjab	BATHINDA	Rayya-Pz	-2.15		-1.21	
133	Punjab	BATHINDA	Salabatpur-Pz	-0.97		-0.17	
134	Punjab	BATHINDA	Sangat -Pz	-0.41	-0.47	2.15	1.60
135	Punjab	BATHINDA	Sooch-Pz	-1.27		-0.64	-0.57
136	Punjab	FARIDKOT	Aryan Wala-Pz	-0.03			
137	Punjab	FARIDKOT	Baja Khana	-0.83	0.91	5.11	-2.39

138	Punjab	FARIDKOT	Bead Sikhanwala- Pz	0.59	-1.29	2.27	
139	Punjab	FARIDKOT	Behabal Kalan-Pz		-0.74	-5.61	
140	Punjab	FARIDKOT	Chahd Baja	-0.51		-1.08	-0.46
141	Punjab	FARIDKOT	Chak Kalan-Pz			0.10	
142	Punjab	FARIDKOT	Dhilwan Kalan		0.90	-3.30	-1.95
143	Punjab	FARIDKOT	Dhudi-Pz	-0.70		-0.50	
144	Punjab	FARIDKOT	Dipsinghwala			-0.17	-0.22
145	Punjab	FARIDKOT	Faridkot-Pz	0.05		-1.10	
146	Punjab	FARIDKOT	Fatehgarh-Pz			-0.05	
147	Punjab	FARIDKOT	Ghuiana-Pz	-0.10		0.60	
148	Punjab	FARIDKOT	Jand Sahib-Pz	-1.24	0.47		1.38
149	Punjab	FARIDKOT	Karirwali	-1.44	-1.97	1.67	2.01
150	Punjab	FARIDKOT	Killi-Pz	-0.01	-0.16		1.25
151	Punjab	FARIDKOT	Kot Kapura	-0.14	-0.44	-1.53	-1.69
152	Punjab	FARIDKOT	Matta	-0.06	-0.82	-1.76	-1.26
153	Punjab	FARIDKOT	Mehmuana	0.01	-0.17	0.35	0.20
154	Punjab	FARIDKOT	Mumra-Pz	0.08	-0.24		0.81
155	Punjab	FARIDKOT	Nangal-Pz	-0.66	-2.45	-2.30	-0.32
156	Punjab	FARIDKOT	Nawan Killa-Pz				-57.55
157	Punjab	FARIDKOT	Pahluwala-Pz	-0.17		0.15	
158	Punjab	FARIDKOT	Ratti Rori-Pz	0.10		-0.75	
159	Punjab	FARIDKOT	Rorian Kapura-Pz	-0.98		-1.25	
160	Punjab	FARIDKOT	Sadiq-Pz	-0.46	0.05	0.75	0.71
161	Punjab	FARIDKOT	Sandhwan-Pz		0.14		
162	Punjab	FARIDKOT	Sher Singh Wala- Pz	0.14	-0.22	0.22	-0.06
163	Punjab	FARIDKOT	Sukhwala-Pz	0.12	-3.43	0.96	0.98
164	Punjab	FARIDKOT	Tehna-Pz		-0.84	0.32	
165	Punjab	FARIDKOT	Wara Dwarka-Pz	0.26		-0.25	-0.56
166	Punjab	FATEHGARH SAHIB	Alipur Sodhian-Pz	-1.05		-1.30	-0.70
167	Punjab	FATEHGARH SAHIB	Amloh1			-0.45	
168	Punjab	FATEHGARH SAHIB	Badalialasingh	-0.52	-2.09	0.84	0.54
169	Punjab	FATEHGARH SAHIB	Bagga Kalan	-2.10	-0.32		-0.10
170	Punjab	FATEHGARH SAHIB	Bassi Pathana	-0.74			-0.09
171	Punjab	FATEHGARH SAHIB	Bhagrana		-1.45	0.44	1.80
172	Punjab	FATEHGARH SAHIB	Bhateri1	-0.91	-0.83	-0.46	1.00
173	Punjab	FATEHGARH SAHIB	Burj	-1.65		-0.90	-0.55
174	Punjab	FATEHGARH SAHIB	Chandiala-Pz	1.45		0.90	-0.20
175	Punjab	FATEHGARH SAHIB	Chuni Khurd-PZ		0.88		
176	Punjab	FATEHGARH SAHIB	Chunni Kalan		-0.69	0.65	
177	Punjab	FATEHGARH SAHIB	Fatehgarh Sahib			0.77	-0.33

178	Punjab	FATEHGARH SAHIB	Fatehgarh Sahib-Pz	-0.44			
179	Punjab	FATEHGARH SAHIB	Inayatpur-PZ-S			-0.15	
180	Punjab	FATEHGARH SAHIB	Jai Singh Wala	-1.85		-0.10	-0.30
181	Punjab	FATEHGARH SAHIB	Jhambela	-1.80		-1.15	-0.50
182	Punjab	FATEHGARH SAHIB	Kalewal			-1.35	
183	Punjab	FATEHGARH SAHIB	Khamanon-pz	-0.45		0.15	-0.60
184	Punjab	FATEHGARH SAHIB	Kharey_PZ			0.90	
185	Punjab	FATEHGARH SAHIB	Khera-Pz	-0.80		0.00	0.30
186	Punjab	FATEHGARH SAHIB	Ladpur			-0.60	
187	Punjab	FATEHGARH SAHIB	Lohar Majra	-0.25		0.05	-0.10
188	Punjab	FATEHGARH SAHIB	Mianpur-Pz	-0.60		-0.20	0.25
189	Punjab	FATEHGARH SAHIB	Nalini-Pz	-1.09	-1.96	0.00	0.64
190	Punjab	FATEHGARH SAHIB	Nandpur Kalaur-Pz	-2.10		-0.80	0.10
191	Punjab	FATEHGARH SAHIB	Pawala		0.69		
192	Punjab	FATEHGARH SAHIB	Sado Majra	-1.85		-0.45	
193	Punjab	FATEHGARH SAHIB	Salempur			3.55	
194	Punjab	FATEHGARH SAHIB	Shahpur	-1.75		-1.20	-0.60
195	Punjab	FATEHGARH SAHIB	Sirhind-Pz	-3.20		-1.70	-0.30
196	Punjab	FATEHGARH SAHIB	Tahalpur	-1.90		-0.20	0.25
197	Punjab	FATEHGARH SAHIB	Talwara	-2.70		0.35	1.00
198	Punjab	FATEHGARH SAHIB	Timber Pur-Pz	2.15		1.20	0.65
199	Punjab	FAZILKA	Abohar	-0.17	-0.68	-0.21	-0.50
200	Punjab	FAZILKA	Alamgarh		0.14	0.72	-0.43
201	Punjab	FAZILKA	Asifwala-Pz	-0.78		-0.39	-0.35
202	Punjab	FAZILKA	Bannawala		-0.07	-0.59	-0.13
203	Punjab	FAZILKA	Bazirdpura	0.22	0.10	0.17	-0.25
204	Punjab	FAZILKA	Chak Khere Wala-Pz	-0.79		-0.36	
205	Punjab	FAZILKA	Chak Pune Wala-Pz				
206	Punjab	FAZILKA	Danewal Satkosi	1.09	0.71	-1.66	-0.60
207	Punjab	FAZILKA	Danger Khera-Pz	-0.11		0.07	
208	Punjab	FAZILKA	Dipulana-Pz			-1.57	
209	Punjab	FAZILKA	Fattu Wala-Pz	-1.13		0.11	0.38
210	Punjab	FAZILKA	Giddran Wali-Pz	-1.02		2.56	
211	Punjab	FAZILKA	Godiwala-Pz	0.04		0.06	0.12

212	Punjab	FAZILKA	Guru Harsahai-Pz				
213	Punjab	FAZILKA	Hamed Saidoke-Pz	-0.90		-0.08	-0.07
214	Punjab	FAZILKA	Himmatpura-Pz	-0.37		-1.05	-0.85
215	Punjab	FAZILKA	Jaimal Singhwala Pz	-0.21			
216	Punjab	FAZILKA	Jalalabad-Pz			-0.38	8.52
217	Punjab	FAZILKA	Jand Wala Johian-Pz	-0.71		-0.80	
218	Punjab	FAZILKA	Kaler Khera-Pz	-0.18		0.25	
219	Punjab	FAZILKA	Khuiansarwar- Pz	0.45	-0.10	-0.73	-0.05
220	Punjab	FAZILKA	Kundal1	0.15	0.11	0.07	-1.15
221	Punjab	FAZILKA	Ladhuwala	0.90		0.25	-0.36
222	Punjab	FAZILKA	Malukpur-Pz	-0.64		0.30	0.26
223	Punjab	FAZILKA	Markhiwa Bhamni-Pz				
224	Punjab	FAZILKA	Muradwala Dal-Pz	-1.14		-1.14	-1.07
225	Punjab	FAZILKA	Nihalkhera		-0.27	-0.33	-0.80
226	Punjab	FAZILKA	Nure-Ki-Uttar 07pz	-0.90		-17.02	-17.17
227	Punjab	FAZILKA	Pancha Wali-Pz	-0.71		-0.10	0.02
228	Punjab	FAZILKA	Pattiwalla-Pz	-0.74		0.10	
229	Punjab	FAZILKA	Ramsara-Pz	0.07		-0.27	-0.07
230	Punjab	FAZILKA	Sham Singhwala-Pz	-0.16			
231	Punjab	FAZILKA	Shatriwala-Pz	-0.06		0.19	
232	Punjab	FAZILKA	Sherewala-Pz	-0.13		-0.02	0.20
233	Punjab	FAZILKA	Singhpura-Pz				
234	Punjab	FAZILKA	Sitoganno	0.32	-0.17	-0.33	-0.40
235	Punjab	FAZILKA	Sohangarh Ratte	0.02	-0.57	-0.19	0.75
236	Punjab	FAZILKA	Swah Wala- Pz		-0.63	-0.69	0.83
237	Punjab	FIROZPUR	Bara Mansur Wala-Pz	-2.41		-1.15	-0.25
238	Punjab	FIROZPUR	Chak Kandhe Shah-Pz	-3.64		-3.99	-0.41
239	Punjab	FIROZPUR	Chamb-Pz	-1.05		-0.05	-0.15
240	Punjab	FIROZPUR	Dulchi Ke-Pz	-0.96		-0.30	-0.08
241	Punjab	FIROZPUR	Gogiani-Pz	-0.45		-1.03	-0.57
242	Punjab	FIROZPUR	Jaimal wala-Pz	-0.63		-1.48	-0.74
243	Punjab	FIROZPUR	Jang-Pz	-0.80		-0.95	-0.86
244	Punjab	FIROZPUR	Katoran-Pz			2.43	
245	Punjab	FIROZPUR	Lauhke Kalan- Pz	-0.54	-3.40	-0.72	
246	Punjab	FIROZPUR	Lohere Khurd-Pz	-1.44		-0.50	0.51
247	Punjab	FIROZPUR	Machi Bugra/ Gujran-Pz	-1.00		-0.36	0.20
248	Punjab	FIROZPUR	Mallanwala Khas-Pz	-0.65		10.02	-0.74
249	Punjab	FIROZPUR	Malluwala-Pz	-2.10		-0.74	-0.55
250	Punjab	FIROZPUR	Malsian-Pz		-0.75	-1.12	-1.19
251	Punjab	FIROZPUR	Mana Singh Wala-Pz	-1.02		-0.38	0.00
252	Punjab	FIROZPUR	Mohkam Khan Wala-Pz	-0.88		-0.80	-0.66
253	Punjab	FIROZPUR	Mohre Wala-Pz		0.65	0.15	-0.48
254	Punjab	FIROZPUR	Mudki-Pz	-0.88		-0.66	-0.42
255	Punjab	FIROZPUR	Piyarana	-0.09	-0.50	-0.89	-0.12
256	Punjab	FIROZPUR	Rala Hazi- Pz	-0.80		-0.67	-0.37

257	Punjab	FIROZPUR	Rukne Wala-Pz	-1.35		-0.19	-0.02
258	Punjab	FIROZPUR	Sadhusha Wala-Pz	-1.05		-0.79	-0.71
259	Punjab	FIROZPUR	Sultan Khan Wala Urf-Pz	-2.10			-0.95
260	Punjab	FIROZPUR	Talwandi Jalle Khan-pz	-2.20		-0.21	1.04
261	Punjab	FIROZPUR	Tibbi Kalan-Pz	-1.49		-1.21	-1.16
262	Punjab	FIROZPUR	Tibbi Taiwan Laluwalla-Pz	-0.87		-0.72	-0.65
263	Punjab	FIROZPUR	Wage Wala-Pz	-0.87		-0.34	-0.15
264	Punjab	GURDASPUR	Aulakhkalan				
265	Punjab	GURDASPUR	Bariyar	-0.90		-0.40	-0.50
266	Punjab	GURDASPUR	Batala-Pz				
267	Punjab	GURDASPUR	Bhagowal	-0.09	-2.15	0.52	0.33
268	Punjab	GURDASPUR	Bham	0.00			
269	Punjab	GURDASPUR	Bilasbal-Pz	0.30		0.90	0.90
270	Punjab	GURDASPUR	Chahal Kalan-Pz	-0.10		0.45	-0.20
271	Punjab	GURDASPUR	Chahgill-Pz	-0.70		-0.15	
272	Punjab	GURDASPUR	Chone-Pz	-0.75		0.20	-0.05
273	Punjab	GURDASPUR	Dakoha-Pz	-0.35		-0.24	-0.30
274	Punjab	GURDASPUR	Dera Baba Nanak	-0.21	-1.03	-0.12	-0.01
275	Punjab	GURDASPUR	Dhianpur	0.06	-1.29	0.58	0.23
276	Punjab	GURDASPUR	Dinanagar	0.01		3.92	-3.33
277	Punjab	GURDASPUR	Dostpur-Pz	0.00		0.30	0.50
278	Punjab	GURDASPUR	Gajikort-Pz	0.70		0.10	-0.20
279	Punjab	GURDASPUR	Galri	-0.22	-1.09	3.24	0.32
280	Punjab	GURDASPUR	Ghania Ki bangar-Pz	-0.11	-1.03	0.25	0.22
281	Punjab	GURDASPUR	Ghumani Khurd-Pz	0.00		0.35	3.40
282	Punjab	GURDASPUR	Gurdaspur-Pz	-0.60		-0.10	0.60
283	Punjab	GURDASPUR	Hassanpur Kalan-Pz	0.10		0.15	0.35
284	Punjab	GURDASPUR	Jhabkra	0.60		1.00	0.70
285	Punjab	GURDASPUR	Jhandalbana-Pz	0.50		0.10	0.50
286	Punjab	GURDASPUR	Kala Afgana-Pz	0.30		-0.60	-0.25
287	Punjab	GURDASPUR	Kalanaur-DW	-0.61		0.67	6.81
288	Punjab	GURDASPUR	Kalanaur-Pz	0.77	0.92	0.46	
289	Punjab	GURDASPUR	Kalerkalan-Pz			0.90	
290	Punjab	GURDASPUR	Kaure-Pz	-1.00		0.60	0.40
291	Punjab	GURDASPUR	Khan Fatta-Pz	0.00		0.10	0.20
292	Punjab	GURDASPUR	Khanmalik-Pz	-0.90		0.45	0.55
293	Punjab	GURDASPUR	Khatgarh-Pz	0.50		-0.50	-0.30
294	Punjab	GURDASPUR	Lakankala-Pz	-0.30		0.35	0.75
295	Punjab	GURDASPUR	Langurwal-Pz	-0.60		0.15	0.10
296	Punjab	GURDASPUR	Madipur Fatehgarhchuria	-0.39	-0.65	0.31	0.16
297	Punjab	GURDASPUR	Malikpur-Pz	-0.15		0.40	1.45
298	Punjab	GURDASPUR	Maman-Pz	-0.60		-0.30	0.40
299	Punjab	GURDASPUR	Masana-Pz	0.20		1.00	0.45
300	Punjab	GURDASPUR	Massit-Pz	0.40		0.30	0.25

301	Punjab	GURDASPUR	Mullowali 1(vs)			-0.11	
302	Punjab	GURDASPUR	Mullowali 2(m)			-1.99	0.09
303	Punjab	GURDASPUR	Nangal-Pz	0.50		0.55	0.40
304	Punjab	GURDASPUR	Nishayara				
305	Punjab	GURDASPUR	Pandoritalab	-0.04	0.10	0.13	-0.89
306	Punjab	GURDASPUR	Parcha-Pz	-0.10		0.95	0.90
307	Punjab	GURDASPUR	Patti Atwal-Pz	-0.50		-0.30	0.10
308	Punjab	GURDASPUR	Quaddian -Pz			0.45	
309	Punjab	GURDASPUR	Raipur	-0.75		0.15	0.65
310	Punjab	GURDASPUR	Saidowal Kalan-DW	0.08	0.23	0.51	0.14
311	Punjab	GURDASPUR	Saleh Chak-S		-1.24	-0.27	0.61
312	Punjab	GURDASPUR	Salehchak(vs)		-1.77	-0.17	-0.11
313	Punjab	GURDASPUR	Sathial-Pz	-0.36	-1.00	-0.12	-1.02
314	Punjab	GURDASPUR	Shahpur Jattan-Pz	-0.35		-1.50	-1.30
315	Punjab	GURDASPUR	Shahpur-Pz	-0.70		-0.40	-0.25
316	Punjab	GURDASPUR	Shezada Kalan-Pz	0.85		-1.05	-1.05
317	Punjab	GURDASPUR	Shikar-Pz	0.90			
318	Punjab	GURDASPUR	Tikriwala-Pz	-0.30		0.70	0.90
319	Punjab	HOSHIARPUR	Aallo Batti-Pz				
320	Punjab	HOSHIARPUR	Adowal Garhi-Pz		-2.20	-1.25	
321	Punjab	HOSHIARPUR	Bhangala-Chhota-DW		-1.33	0.97	
322	Punjab	HOSHIARPUR	Bhatolian-Pz				0.36
323	Punjab	HOSHIARPUR	Chak Sheru-DW		-1.10	0.41	0.45
324	Punjab	HOSHIARPUR	Chohal	1.90	-2.10	-0.05	-0.01
325	Punjab	HOSHIARPUR	Dadan-Pz				0.45
326	Punjab	HOSHIARPUR	DAGAN-DW		-1.18	-1.58	-0.01
327	Punjab	HOSHIARPUR	Dasuya2 (s)	-2.79		1.74	4.79
328	Punjab	HOSHIARPUR	Durimiwal	-1.18	-2.08	-0.04	0.29
329	Punjab	HOSHIARPUR	Fattowal-Pz				-1.80
330	Punjab	HOSHIARPUR	Garh Di Wala-Pz		-1.29	-0.44	-1.79
331	Punjab	HOSHIARPUR	Garhshankar (s)	-4.94	-7.49	1.51	
332	Punjab	HOSHIARPUR	Haler Rampur-DW			2.45	0.97
333	Punjab	HOSHIARPUR	Hazipur	-0.09	-1.10	-3.73	
334	Punjab	HOSHIARPUR	Heer Beh-PZ				0.97
335	Punjab	HOSHIARPUR	Ittian-Pz				-0.25
336	Punjab	HOSHIARPUR	Jhir Da Khuh-DW			2.45	
337	Punjab	HOSHIARPUR	Khera-Pz			-3.73	
338	Punjab	HOSHIARPUR	Mahilpur-Pz			1.59	2.23
339	Punjab	HOSHIARPUR	Mahilpur-Pz	-0.32	-0.04		
340	Punjab	HOSHIARPUR	Mukerian Dw		-0.30	1.53	
341	Punjab	HOSHIARPUR	Nangal Bihala- DW	-0.63	-1.36	-0.30	-0.01
342	Punjab	HOSHIARPUR	Pan Khuh-DW		0.05		-0.26
343	Punjab	HOSHIARPUR	Phuglana- Pz	-0.53	-1.71		3.66
344	Punjab	HOSHIARPUR	Samraj Tanda-DW		0.30	0.43	-0.39
345	Punjab	HOSHIARPUR	Sham Chaurasi	-0.48	-3.18	0.21	0.61
346	Punjab	HOSHIARPUR	Sibo Chak- DW		0.13	0.20	0.10
347	Punjab	HOSHIARPUR	Simbli- OW	-3.57	0.14	0.11	
348	Punjab	HOSHIARPUR	Simbli-Pz	1.25	2.94	-0.68	1.93

349	Punjab	HOSHIARPUR	Talwara1	1.42	1.82	0.88	0.54
350	Punjab	HOSHIARPUR	Thakarwala	2.43	5.14	2.84	3.17
351	Punjab	JALANDHAR	Adampur 3(s)	-1.53		0.38	0.26
352	Punjab	JALANDHAR	Akalpur-Pz	-1.70		-0.60	-0.60
353	Punjab	JALANDHAR	Allawalpur			0.35	0.68
354	Punjab	JALANDHAR	Bhogpur-Pz				
355	Punjab	JALANDHAR	Bilga-Pz	-1.10		0.00	0.10
356	Punjab	JALANDHAR	Billi Chahrami-Pz	-1.50		-3.00	-1.35
357	Punjab	JALANDHAR	Chania-Pz	-2.00		-0.75	-0.80
358	Punjab	JALANDHAR	Dhanda-Pz	-1.60		-0.50	-0.30
359	Punjab	JALANDHAR	Fateh Jalal-Pz	0.15		1.70	1.55
360	Punjab	JALANDHAR	Gehlan-pz	-0.30		0.00	0.60
361	Punjab	JALANDHAR	Gillian-Pz	-2.15		-2.60	-0.70
362	Punjab	JALANDHAR	Gohiran			-1.22	-1.32
363	Punjab	JALANDHAR	Hardo Sheikh-Pz	-2.90		-1.80	-1.80
364	Punjab	JALANDHAR	Jalandhar-Pz(VS)	-0.48	-4.30	-3.76	0.57
365	Punjab	JALANDHAR	Jandiala-Pz	-0.89	-3.11	-1.13	-0.40
366	Punjab	JALANDHAR	Jandu Singha-Pz	-0.80		0.40	
367	Punjab	JALANDHAR	Janian-Pz	-3.90		-1.80	-1.00
368	Punjab	JALANDHAR	Kakar Kalan-Pz	-2.10		0.00	0.00
369	Punjab	JALANDHAR	Kala-Pz	-0.10		0.60	1.00
370	Punjab	JALANDHAR	Kalyanpur-Pz	-2.20		-1.60	-1.50
371	Punjab	JALANDHAR	Kang Sahib Rai-Pz	-2.30		-0.30	0.20
372	Punjab	JALANDHAR	Kartarpur 2(s)	-1.88	-0.36	1.44	-0.07
373	Punjab	JALANDHAR	Kharal Kalan Pz-S	-2.46	-4.15	0.75	1.17
374	Punjab	JALANDHAR	Kot Wadal Khan-Pz	-3.20			0.80
375	Punjab	JALANDHAR	Kurla-Pz	-0.60		0.40	
376	Punjab	JALANDHAR	Lallian kalan Pz-S	-1.44	-0.97	-1.69	-1.34
377	Punjab	JALANDHAR	Mahmuwal-Pz	-1.70		-0.10	-0.25
378	Punjab	JALANDHAR	Mehsampur-Pz	-3.00		-1.60	-0.20
379	Punjab	JALANDHAR	Nakodar 2(m)	2.54		-2.56	0.75
380	Punjab	JALANDHAR	Nakodar 3(s)			-4.05	
381	Punjab	JALANDHAR	Nangal Shaman	-1.45		0.60	0.60
382	Punjab	JALANDHAR	Nasirpur-Pz	-0.90		-0.20	-0.40
383	Punjab	JALANDHAR	Nussi-Pz	-1.50		-1.20	2.00
384	Punjab	JALANDHAR	Pathial-Pz	-0.25		0.60	
385	Punjab	JALANDHAR	Pharwala-Pz	-2.20		-1.00	0.50
386	Punjab	JALANDHAR	Phillaur 2(s)		-2.05	-0.55	-0.05
387	Punjab	JALANDHAR	Rahimpur-Pz	-1.25		0.90	0.40
388	Punjab	JALANDHAR	Rurka Kalan- Pz	-2.20		-1.70	-0.50
389	Punjab	JALANDHAR	Samarahi-Pz	-1.40		-1.40	-1.20
390	Punjab	JALANDHAR	Shahkot(s)				
391	Punjab	JALANDHAR	Shahkot-Pz-Pb	-0.30		0.50	-0.70
392	Punjab	JALANDHAR	Skarar Pur-Pz	-1.90		-0.60	
393	Punjab	JALANDHAR	Sultanpur-Pz	-1.10		0.50	0.40
394	Punjab	JALANDHAR	Talwan-Pz	-0.70		0.60	1.60
395	Punjab	JALANDHAR	Thanda-Pz	-1.80		-4.50	-0.80
396	Punjab	JALANDHAR	Udhopur	3.00	0.30		2.93

397	Punjab	KAPURTHALA	Bauril Harnampur-Pz	-0.85		-0.65	
398	Punjab	KAPURTHALA	Begowal-Pz	-0.35		0.00	
399	Punjab	KAPURTHALA	Bhanoki-Pz	-0.23		0.00	
400	Punjab	KAPURTHALA	Bhatnura Khurd- S	-0.91	0.73	0.28	
401	Punjab	KAPURTHALA	Bhawanipur-Pz	-0.24		-0.68	
402	Punjab	KAPURTHALA	Bholath M	0.05	-1.09	-0.34	-0.37
403	Punjab	KAPURTHALA	Bholath S	-0.48	0.00	-0.56	-5.87
404	Punjab	KAPURTHALA	Chakoke-Pz	-1.10		-0.83	
405	Punjab	KAPURTHALA	Hamira-Pz	-1.45		-1.10	
406	Punjab	KAPURTHALA	Hazipur-Pz	-0.65		-0.55	
407	Punjab	KAPURTHALA	Hussainpura-S Pz		1.72	-4.92	0.15
408	Punjab	KAPURTHALA	Hussainpura-VS Pz			-4.00	-2.70
409	Punjab	KAPURTHALA	Kapurthala2 (s)	-2.30	-4.94	2.81	2.77
410	Punjab	KAPURTHALA	Karnail Ganju-Pz	-1.15		-0.30	
411	Punjab	KAPURTHALA	Kishanpur	-0.50		-1.00	
412	Punjab	KAPURTHALA	Maheru-Pz	-0.30		0.30	
413	Punjab	KAPURTHALA	Miani Bola-Pz	-0.80		-0.43	
414	Punjab	KAPURTHALA	Nadala			-0.71	
415	Punjab	KAPURTHALA	Nangal Lubhana-Pz			-0.25	
416	Punjab	KAPURTHALA	Nathu Chahal-Pz	-0.50		-1.10	
417	Punjab	KAPURTHALA	Nurpur Janoa-Pz	-0.70		-0.25	
418	Punjab	KAPURTHALA	Phagwara(shallow)			1.97	
419	Punjab	KAPURTHALA	Phagwara2 (s)				1.74
420	Punjab	KAPURTHALA	Rawalpindi-Pz	-0.90		-1.00	
421	Punjab	KAPURTHALA	Sangatpur-Pz	-2.40		0.60	
422	Punjab	KAPURTHALA	Sultanpur2 (s)	-4.66	-2.62	-1.09	-0.39
423	Punjab	KAPURTHALA	Talwandi Chaudary - Pz	-2.21	-2.65	-3.08	0.31
424	Punjab	KAPURTHALA	Thikriwali-Pz	-0.90		-0.25	
425	Punjab	LUDHIANA	Alamgir-Pz	-1.75		-0.31	-0.45
426	Punjab	LUDHIANA	Aliwal-Pz	-0.82		0.20	0.45
427	Punjab	LUDHIANA	Bassian MGOW			-1.00	
428	Punjab	LUDHIANA	Begowal			-0.01	
429	Punjab	LUDHIANA	Bhagwanpur-Pz	-0.35		0.35	-0.05
430	Punjab	LUDHIANA	Bhahlolpur-DW	-0.13	-1.15	-0.14	-0.13
431	Punjab	LUDHIANA	Bharthala Randhawa-Pz	-0.86		-0.78	-0.50
432	Punjab	LUDHIANA	Bhikhi Khatron-Pz	-1.70		-0.50	-0.30
433	Punjab	LUDHIANA	Bilaspur-Pz	-0.40		0.50	0.30
434	Punjab	LUDHIANA	Chaminala-Pz	-1.70		-1.30	-0.30
435	Punjab	LUDHIANA	Chankian Khurd-Pz	-0.30		-0.30	0.66
436	Punjab	LUDHIANA	Chaunta-Pz	-0.60		0.05	0.20
437	Punjab	LUDHIANA	Chhapar-Pz	-1.15		-0.40	0.35
438	Punjab	LUDHIANA	Dinnamder-Pz	-1.15		-0.13	0.00
439	Punjab	LUDHIANA	Dodpur-Pz	-1.05		-0.85	-0.60
440	Punjab	LUDHIANA	Doraha-Pz	-0.12	-0.70	0.13	-0.25
441	Punjab	LUDHIANA	Galibkalan-Pz	-1.35		-1.75	-1.16
442	Punjab	LUDHIANA	Gohaur-Pz	-0.70		-0.60	-0.45
443	Punjab	LUDHIANA	Gopalpur 2(s)	-0.27		-1.01	-0.23

444	Punjab	LUDHIANA	Hambowal-Pz	-0.25		0.40	0.00
445	Punjab	LUDHIANA	Harnampur	-1.00		-0.32	-0.40
446	Punjab	LUDHIANA	Hedon-Pz	-0.35		0.35	-0.10
447	Punjab	LUDHIANA	Ikloha-Pz	-0.93	-1.10	-0.78	0.60
448	Punjab	LUDHIANA	Kalsian			-8.00	-0.50
449	Punjab	LUDHIANA	Katanikalan-Pz	0.15		0.00	-0.10
450	Punjab	LUDHIANA	Khandur	-0.97		-0.30	-0.15
451	Punjab	LUDHIANA	Kishangarh-Pz	-1.20		-0.45	-0.20
452	Punjab	LUDHIANA	Kishanpur-Pz	-1.25		0.00	-0.05
453	Punjab	LUDHIANA	Lalan1	0.61		-0.15	
454	Punjab	LUDHIANA	Lil- II Pz	-0.62	-1.02	0.66	
455	Punjab	LUDHIANA	Lil-Pz III		-5.00	-0.45	
456	Punjab	LUDHIANA	Lodhiwal-Pz	0.25		1.61	-0.25
457	Punjab	LUDHIANA	Lohara-Pz	-1.45		-1.20	-0.80
458	Punjab	LUDHIANA	Machhiwara-Pz			0.71	
459	Punjab	LUDHIANA	Manak Majra-Pz	-0.85		-0.25	-0.40
460	Punjab	LUDHIANA	Mangat-Pz	-0.60		3.10	0.70
461	Punjab	LUDHIANA	Manoke-Pz			2.54	
462	Punjab	LUDHIANA	Mehduda			0.10	
463	Punjab	LUDHIANA	Mehma Singh Wala-Pz	-1.30		-0.58	-0.30
464	Punjab	LUDHIANA	Mushkabad			-0.73	-0.06
465	Punjab	LUDHIANA	Nurpur-Pz	-1.40		-1.10	0.10
466	Punjab	LUDHIANA	P.A.U.Ludhiana 2(s)	-1.18		4.22	0.17
467	Punjab	LUDHIANA	Pabbian-Pz	-0.70		-0.05	-0.20
468	Punjab	LUDHIANA	Pandori-Pz	-1.30		0.80	-0.10
469	Punjab	LUDHIANA	Payal-Pz	-0.80		0.40	0.65
470	Punjab	LUDHIANA	Punjeta			1.67	
471	Punjab	LUDHIANA	Ragba-Pz	-1.62		0.16	0.35
472	Punjab	LUDHIANA	Raikot-Pz	-2.40		-1.00	-0.20
473	Punjab	LUDHIANA	Rajona Khurd	-2.45		0.40	0.65
474	Punjab	LUDHIANA	Rashiana-Pz	-0.90		0.40	0.60
475	Punjab	LUDHIANA	Rashin			-0.40	0.90
476	Punjab	LUDHIANA	Rattewal-Pz	-0.90		0.04	5.10
477	Punjab	LUDHIANA	Roomi-Pz	-2.50		1.06	0.00
478	Punjab	LUDHIANA	Sajaywal-Pz	-3.45		1.75	0.65
479	Punjab	LUDHIANA	Samrala 2(s)	-0.11	-0.43	-0.18	-0.03
480	Punjab	LUDHIANA	Sanewal-Pz	-0.65		0.10	0.20
481	Punjab	LUDHIANA	Sangatpura-Pz	-0.80		0.20	0.20
482	Punjab	LUDHIANA	Sherian	-0.20	-0.38	0.12	0.35
483	Punjab	LUDHIANA	Sherpur-Pz	-0.07		0.20	-0.15
484	Punjab	LUDHIANA	Sidhwan Bet-Pz	-0.41	-2.20	-0.48	-1.07
485	Punjab	LUDHIANA	Talwandi Kalan-Pz	-1.45		0.50	0.37
486	Punjab	LUDHIANA	Udonwal-Pz	-0.15		0.20	
487	Punjab	LUDHIANA	Upplan	-0.30		0.30	0.15
488	Punjab	LUDHIANA	Utlan	1.94		1.91	
489	Punjab	MANSA	Aklia-Pz	-2.03		-1.46	
490	Punjab	MANSA	Alampur Mandran-Pz	-1.06		0.31	
491	Punjab	MANSA	Alisher Khurd-Pz	-1.37		-1.08	

492	Punjab	MANSA	Bahadur Pur-Pz	-2.19		-2.00	
493	Punjab	MANSA	Bareh-Pz	-0.38		0.68	
494	Punjab	MANSA	Behniwala-Pz	-0.66			
495	Punjab	MANSA	Bhamme Kalan-Pz	-0.07		-0.86	
496	Punjab	MANSA	Bhikhi 1 (s)	1.08	-0.75	-0.76	
497	Punjab	MANSA	Bhikhi 2 (s)			-0.77	
498	Punjab	MANSA	Budhlada				-1.71
499	Punjab	MANSA	Budhlada-Pz	-0.94			
500	Punjab	MANSA	Burj Bhalaike		-3.83	-3.58	-1.66
501	Punjab	MANSA	Burj Rathi-Pz	-0.95		-1.28	
502	Punjab	MANSA	Fattamaluka	0.92	-0.75	-0.24	-1.00
503	Punjab	MANSA	Gehlan-Pz		-0.17		
504	Punjab	MANSA	Gharangne-Pz	-0.58		-0.11	
505	Punjab	MANSA	Hero Kalan-Pz	-3.03		0.19	
506	Punjab	MANSA	Hirke-Pz	-0.97		-1.27	
507	Punjab	MANSA	Junniar			-0.36	
508	Punjab	MANSA	Khiala Kalan-Pz	-1.01		-0.02	
509	Punjab	MANSA	Khokhar Kalan-Pz	0.10		-0.14	
510	Punjab	MANSA	Kot Dhamru	0.74		-0.65	
511	Punjab	MANSA	Kotra	-0.53	0.17	-0.58	
512	Punjab	MANSA	Kusla-Pz	-0.08		-1.34	
513	Punjab	MANSA	Lakhiwal-Pz	-0.89		-0.83	
514	Punjab	MANSA	Makha-[PZ	-0.58		-0.02	
515	Punjab	MANSA	Phaphare Bhaike-Pz	-1.52		-1.27	
516	Punjab	MANSA	Raipur-Pz	0.74	0.64	0.00	0.01
517	Punjab	MANSA	Ralla	-1.31	1.20	-1.15	-0.93
518	Punjab	MANSA	Tibbi Hari Singh-PZ	-0.65		-0.75	
519	Punjab	MOGA	Baje Ke-Pz	-0.33	-2.52	-1.47	-0.62
520	Punjab	MOGA	Baraghar-Pz				
521	Punjab	MOGA	Bilaspur-PZ	-0.53			-1.26
522	Punjab	MOGA	Budh Singh Wala-Pz	0.67	-0.96	-1.65	-1.52
523	Punjab	MOGA	Chand Nawan-PZ	-0.33			-3.18
524	Punjab	MOGA	Chogawan-Pz	1.54	-0.26	-5.11	-0.99
525	Punjab	MOGA	Dagru- Pz	2.63	0.37	-4.75	-0.86
526	Punjab	MOGA	Damru Khurd	-3.70	-0.09	-6.07	
527	Punjab	MOGA	Daulatpur Niwan-Pz	-0.52			-2.45
528	Punjab	MOGA	Dhudi Ke-PZ	-0.43			
529	Punjab	MOGA	Dinna-PZ	-0.79			-5.41
530	Punjab	MOGA	Indergarh-Pz	1.12		-1.64	-1.32
531	Punjab	MOGA	Jhandewala-Pz	-0.39			
532	Punjab	MOGA	Kamalke-Pz	-0.95		-0.10	-0.06
533	Punjab	MOGA	Khokri Kalan-Pz	-0.60			
534	Punjab	MOGA	Khosa Randhir-Pz	-0.90		3.98	0.05
535	Punjab	MOGA	Mandar-Pz	-1.75		-1.25	-0.55
536	Punjab	MOGA	Mangewala-Pz	-0.70			-1.62
537	Punjab	MOGA	Meemana-PZ	-0.50			-5.73
538	Punjab	MOGA	Mehron-PZ	-1.34			-4.96
539	Punjab	MOGA	Nathu Wala-Pz	-0.88		-1.19	

540	Punjab	MOGA	Nihalsinghwala-Pz	-1.80	-2.78	-0.97	-0.80
541	Punjab	MOGA	Raonke Kalan-Pz				-2.90
542	Punjab	MOGA	Samad Bhai-Pz	-0.86		5.60	
543	Punjab	MOGA	Samalsar-Pz	-1.11		-2.74	
544	Punjab	MOGA	Thathe Bhai-Pz	-1.06			
545	Punjab	MOGA	Tota Singh Wala-Pz	-1.20		-0.45	0.50
546	Punjab	MUKTSAR	Abulkharana-Pz	-0.08		0.21	
547	Punjab	MUKTSAR	Alam Wala				
548	Punjab	MUKTSAR	Balocha Khera(rasoolpur)	0.29	0.23	-0.18	-0.10
549	Punjab	MUKTSAR	Bhaliana	-0.44	-0.46	-0.26	-0.15
550	Punjab	MUKTSAR	Bhiti Wala-Pz	-0.94		-0.48	
551	Punjab	MUKTSAR	Chakmaan-Pz			0.60	
552	Punjab	MUKTSAR	Chaktam Kot-Pz	0.28		-0.80	
553	Punjab	MUKTSAR	Dhalkot-Pz	-0.10		-0.98	
554	Punjab	MUKTSAR	Doda	-0.34	-0.31	1.01	0.57
555	Punjab	MUKTSAR	Doda-Pz	-0.27	0.52	0.12	
556	Punjab	MUKTSAR	Giddarbaha-Pz				
557	Punjab	MUKTSAR	Husnar-Pz	-0.20		0.20	
558	Punjab	MUKTSAR	Jandwala-Pz			0.47	
559	Punjab	MUKTSAR	Kabar Wala	1.31	-0.86	-0.60	0.12
560	Punjab	MUKTSAR	Kattianwali-Pz	-0.15			
561	Punjab	MUKTSAR	Khirkian Wala-Pz	-0.08			
562	Punjab	MUKTSAR	Khunde Halal-Pz	0.32	-0.94	0.00	-0.42
563	Punjab	MUKTSAR	Killian Wali-Pz			-0.25	
564	Punjab	MUKTSAR	Labanianwali	-0.46	-1.06	-0.42	0.73
565	Punjab	MUKTSAR	Lambi	-1.18			-18.35
566	Punjab	MUKTSAR	Lambi-Pz	0.12		0.14	
567	Punjab	MUKTSAR	Muktsar	0.04	0.17	0.04	-2.50
568	Punjab	MUKTSAR	Phulu Khera-Pz	-0.40		0.23	
569	Punjab	MUKTSAR	Ratta Khera Chota-Pz	0.29		-0.50	
570	Punjab	MUKTSAR	Sehna khera-Pz			-0.17	
571	Punjab	MUKTSAR	Sheikh-Pz	-0.54		0.10	
572	Punjab	PATHANKOT	Bamyal	-0.60		0.50	0.21
573	Punjab	PATHANKOT	Bhoa	-0.08	0.08	0.15	0.06
574	Punjab	PATHANKOT	Gharotakalan	0.35		1.16	
575	Punjab	PATHANKOT	Ghoh DW	-1.30			
576	Punjab	PATHANKOT	Jainpur-PZ	-0.10		1.60	0.70
577	Punjab	PATHANKOT	Jandwala	-0.40		3.00	1.90
578	Punjab	PATHANKOT	Jhakolahri		1.15		
579	Punjab	PATHANKOT	Khanikhui	0.83		0.23	
580	Punjab	PATHANKOT	Khogaki Chaka-PZ	0.95		0.85	0.85
581	Punjab	PATHANKOT	Kiari- DW	-0.60	4.00	0.77	0.09
582	Punjab	PATHANKOT	Kirian Khurd-PZ	0.00		1.50	0.80
583	Punjab	PATHANKOT	Kui-DW	1.13	3.15	0.20	
584	Punjab	PATHANKOT	Kuther-PZ	-2.50		2.60	3.35
585	Punjab	PATHANKOT	Malikpur				
586	Punjab	PATHANKOT	Matti-PZ	1.30		3.60	1.80

587	Punjab	PATHANKOT	Mirthal	1.35		2.30	2.10
588	Punjab	PATHANKOT	Narot Jaimalsingh-Pz	-0.35		1.00	1.05
589	Punjab	PATHANKOT	Nawan Pind	-0.82	-1.37	-0.20	-0.81
590	Punjab	PATHANKOT	Parmota-DW	1.17	9.73	2.75	-0.34
591	Punjab	PATHANKOT	Pathankot1	0.45	-0.19	-0.50	0.81
592	Punjab	PATHANKOT	Philora-PZ	0.50		0.20	0.40
593	Punjab	PATHANKOT	Rakawal-PZ	-0.15		0.95	0.60
594	Punjab	PATHANKOT	Rani Pur-PZ	-2.40		2.80	2.40
595	Punjab	PATHANKOT	Sarna		-1.63	3.70	-1.25
596	Punjab	PATHANKOT	Sujanpur-PZ	0.75		0.95	-0.25
597	Punjab	PATIALA	Bassma Pipla				0.72
598	Punjab	PATIALA	Bhankhar-Pz	-3.25			-0.45
599	Punjab	PATIALA	Bhojo majri 07pz		-1.33	0.30	-0.61
600	Punjab	PATIALA	Bhora-Pz			-1.75	
601	Punjab	PATIALA	Bhunerheri-Pz			-2.30	
602	Punjab	PATIALA	Birkauli	-1.66	-3.37	1.40	
603	Punjab	PATIALA	Challeta-PZ	-0.60		-0.25	0.85
604	Punjab	PATIALA	Devigarh 1Pz	-0.36	1.19	-1.86	-0.01
605	Punjab	PATIALA	Devigarh IIPz			1.03	0.02
606	Punjab	PATIALA	Devigarh-III Pz			-1.48	-0.05
607	Punjab	PATIALA	Dhaneta-PZ	-1.80		-2.35	-0.25
608	Punjab	PATIALA	Gharam-PZ	-2.70		-3.30	-3.85
609	Punjab	PATIALA	Gulwatti-PZ	-1.75		-3.25	-1.80
610	Punjab	PATIALA	Haluka			0.56	
611	Punjab	PATIALA	Jainagar-PZ	-0.40		1.45	2.20
612	Punjab	PATIALA	Kakrala-Pz	-7.45			
613	Punjab	PATIALA	Kalyan 07pz	-0.95	-3.15	-0.70	0.53
614	Punjab	PATIALA	Kami Kalan	-0.28	-0.15	2.16	0.53
615	Punjab	PATIALA	Kami Khurd-PZ			-2.65	0.70
616	Punjab	PATIALA	Kheri Pandte-PZ	-1.35		-3.00	3.80
617	Punjab	PATIALA	Kulburcha-Pz	-2.40		-1.60	0.05
618	Punjab	PATIALA	Kutha Kheri-Pz	-0.40		-0.85	-0.10
619	Punjab	PATIALA	Lacharu Kalan	-0.70	0.12	2.29	1.87
620	Punjab	PATIALA	Lachkani-Pz	-1.25	-2.46	-0.47	-0.30
621	Punjab	PATIALA	Mehmood Pur-PZ	0.05		-0.55	-1.55
622	Punjab	PATIALA	Mongowal-PZ	-1.25		-0.65	-0.25
623	Punjab	PATIALA	Nanhera-Pz	-1.40		6.80	0.85
624	Punjab	PATIALA	Passiana-PZ	-1.10		-1.35	-0.40
625	Punjab	PATIALA	Patran-Pz	-1.73	-1.70	-1.69	-1.72
626	Punjab	PATIALA	Rajpura-PzSt	0.33	10.37		
627	Punjab	PATIALA	Rakhra-Pz			-0.40	
628	Punjab	PATIALA	Randhawa-Pz			-0.40	
629	Punjab	PATIALA	Rasoolpur Jaura-PZ	-0.35		-0.35	0.50
630	Punjab	PATIALA	Samana-Pz	-1.32	-1.23	-1.37	-1.10
631	Punjab	PATIALA	Samaspur-Pz	-1.20		-1.10	-1.10
632	Punjab	PATIALA	Sangatpura-Pz	-1.31		-0.30	
633	Punjab	PATIALA	Sauja-PZ	-1.35		-0.65	-0.25
634	Punjab	PATIALA	Surala Kalan-PZ	0.75		0.95	1.40

635	Punjab	PATIALA	Thua	-1.38		3.94	-0.83
636	Punjab	RUPNAGAR	Ahmedpur	0.01	-2.76		-0.40
637	Punjab	RUPNAGAR	Amrali-PZ	-0.30		-0.80	0.05
638	Punjab	RUPNAGAR	Attari-PZ	0.10		0.80	
639	Punjab	RUPNAGAR	Badali-Pz			0.75	0.90
640	Punjab	RUPNAGAR	Bains	-1.40			
641	Punjab	RUPNAGAR	Bera Chauta	0.49	0.77	0.56	0.70
642	Punjab	RUPNAGAR	Bhalan		-0.11		1.43
643	Punjab	RUPNAGAR	Bhatto-PZ	0.25		2.80	1.35
644	Punjab	RUPNAGAR	Braham Pur	-0.05	-0.08	1.09	1.33
645	Punjab	RUPNAGAR	Chakdera	1.02	2.78	0.47	0.00
646	Punjab	RUPNAGAR	Chatamli- Pz	-0.81	0.53		1.81
647	Punjab	RUPNAGAR	Dhair	-3.22	0.69	-1.00	1.26
648	Punjab	RUPNAGAR	Dumewal			2.52	1.30
649	Punjab	RUPNAGAR	Hardinamoh	-0.01	-0.06	-0.25	-0.11
650	Punjab	RUPNAGAR	Klwan-PZ	-0.80			
651	Punjab	RUPNAGAR	Kakrali				1.35
652	Punjab	RUPNAGAR	Klwan-PZ			0.30	0.25
653	Punjab	RUPNAGAR	Kotla	0.95			-0.50
654	Punjab	RUPNAGAR	Morinda-PZ	-0.50		-0.70	-0.20
655	Punjab	RUPNAGAR	Rajgiri-PZ	-2.20		0.90	1.30
656	Punjab	RUPNAGAR	Rampur-PZ				
657	Punjab	RUPNAGAR	Rurki Heeran-Pz	-1.41	-0.95	-0.47	0.11
658	Punjab	SANGRUR	Bagarian-Pz	1.26	-1.73	-1.26	-0.95
659	Punjab	SANGRUR	Bakshiwala-PZ	-1.80		-1.80	-0.95
660	Punjab	SANGRUR	Balang-PZ				
661	Punjab	SANGRUR	Banbhaura-PZ	-1.55			-0.50
662	Punjab	SANGRUR	Bhojowali-Pz	-2.50	-0.70	-0.90	-0.20
663	Punjab	SANGRUR	Bhunerheri-PZ			-1.55	-0.70
664	Punjab	SANGRUR	Bugra 1	-3.88		-1.41	
665	Punjab	SANGRUR	Chatha Nanhera-PZ	-0.65		-0.85	0.25
666	Punjab	SANGRUR	Chural Kalan M	-1.19	-0.26	-0.76	-1.80
667	Punjab	SANGRUR	Dharamgarh-Pz	-3.25		-4.45	-0.40
668	Punjab	SANGRUR	Ghanauri Kalan-Pz	-0.16	-0.81	-1.96	-0.95
669	Punjab	SANGRUR	Haryao-DW				
670	Punjab	SANGRUR	Hassanpur-Pz	-1.50		-0.30	-1.00
671	Punjab	SANGRUR	Kala Jhar-Pz	-2.75		-1.65	0.15
672	Punjab	SANGRUR	Khanpur Fakiran-PZ	-1.00		-1.55	-1.85
673	Punjab	SANGRUR	Kheri Naran-PZ	-2.15		-1.90	-0.35
674	Punjab	SANGRUR	Khurni-PZ	-1.70		-1.30	-0.45
675	Punjab	SANGRUR	Kila Hakima	-1.35		-1.50	-0.80
676	Punjab	SANGRUR	Kokahar-PZ	-1.25		-1.55	0.40
677	Punjab	SANGRUR	Kuler Khurd-Pz	-1.40		-2.55	-1.85
678	Punjab	SANGRUR	Ladda-Pz		-1.33	-2.67	-1.50
679	Punjab	SANGRUR	Lehal Kalan-Pz	-1.35		-1.45	-0.10
680	Punjab	SANGRUR	Longowal-Pz	-1.83	-1.90	-1.75	-1.69
681	Punjab	SANGRUR	Malerkotla-DW	-1.52		-0.46	
682	Punjab	SANGRUR	Manvi-Pz	-2.19	-1.57	-0.54	-3.94

683	Punjab	SANGRUR	Mehsampur-Pz		-2.60		
684	Punjab	SANGRUR	Panjgaraian- Pz	-1.85		-0.56	-0.80
685	Punjab	SANGRUR	Rajo Majra-PZ	-1.15		1.70	-0.70
686	Punjab	SANGRUR	Rampur Channa-Pz	-1.10		-0.50	-0.50
687	Punjab	SANGRUR	Rurgarh-PZ	-1.17		-0.71	-0.10
688	Punjab	SANGRUR	Rurki Kalan-Pz	-1.30		-0.63	-0.20
689	Punjab	SANGRUR	Sekhpur Khurd-PZ	-1.25		-0.40	-0.25
690	Punjab	SANGRUR	Sekhwas-PZ	-1.20		-1.55	-0.25
691	Punjab	SANGRUR	Sikandarpur-PZ	-0.60		-0.80	-0.55
692	Punjab	SAS NAGAR	Antala	-0.64	-1.94	0.18	0.16
693	Punjab	SAS NAGAR	Balongi-PZ	-0.35		0.70	1.03
694	Punjab	SAS NAGAR	Barauli-PZ	1.90		2.55	3.85
695	Punjab	SAS NAGAR	Chandiala-Pz	-1.55		1.30	3.60
696	Punjab	SAS NAGAR	Dera Bassi 07pz	-2.48	-0.09	0.60	0.88
697	Punjab	SAS NAGAR	Dheri	-0.21	-0.09	0.19	0.26
698	Punjab	SAS NAGAR	Gharoon	-0.20		4.60	2.65
699	Punjab	SAS NAGAR	Ghoga		-0.04	0.74	0.56
700	Punjab	SAS NAGAR	Issapur- DW			1.07	
701	Punjab	SAS NAGAR	Joli	-4.00	0.20	0.47	3.02
702	Punjab	SAS NAGAR	Kurrha-Pz	-0.25		-0.10	1.43
703	Punjab	SAS NAGAR	Landran-Pz	0.56	1.78	2.33	
704	Punjab	SAS NAGAR	Malkpur-Pz	2.10			
705	Punjab	SAS NAGAR	Manoli-PZ	-1.10		-0.70	-0.25
706	Punjab	SAS NAGAR	Palheri-PZ	3.21		2.40	2.40
707	Punjab	SAS NAGAR	Pedol-PZ	-2.75		-0.80	0.60
708	Punjab	SAS NAGAR	Raipur Kalan	0.00		1.35	2.05
709	Punjab	SAS NAGAR	Rurkan-PZ				
710	Punjab	SAS NAGAR	Singhpura-Pz	-1.75		0.45	0.35
711	Punjab	SAS NAGAR	Sirsini	-0.52		0.37	
712	Punjab	SAS NAGAR	Sunam-Pz	-1.69		-1.05	-1.02
713	Punjab	SAS NAGAR	Sundran-Pz			0.46	
714	Punjab	SBS NAGAR	Alowal-Pz	-0.20		0.05	-0.10
715	Punjab	SBS NAGAR	Aur-PZ	-1.40		-0.80	0.10
716	Punjab	SBS NAGAR	Badhwan-Pz	-3.10		0.40	1.50
717	Punjab	SBS NAGAR	Baharam-Pz			0.75	3.20
718	Punjab	SBS NAGAR	Bahara-Pz	-1.30		-0.25	0.35
719	Punjab	SBS NAGAR	Bahlora Kallan- Pz			0.05	0.01
720	Punjab	SBS NAGAR	Bahua-Pz	-2.10		-1.50	1.40
721	Punjab	SBS NAGAR	Balachore			-0.20	
722	Punjab	SBS NAGAR	Balaipur-PZ	-2.90		0.10	3.10
723	Punjab	SBS NAGAR	Banga-Pz			2.05	
724	Punjab	SBS NAGAR	Bhadi-PZ	-2.40		1.80	2.90
725	Punjab	SBS NAGAR	Dhan Wala-PZ	-2.90		-2.80	-0.50
726	Punjab	SBS NAGAR	Dugri Garol-PZ	0.80		1.30	-0.05
727	Punjab	SBS NAGAR	Hakimpur-Pz	-1.75		0.10	1.50
728	Punjab	SBS NAGAR	Jethu Majra-PZ	-1.40		-0.30	0.50
729	Punjab	SBS NAGAR	Kariam-Pz	-1.40		-0.90	-0.70
730	Punjab	SBS NAGAR	Langoya-PZ	-1.10		0.30	0.80

731	Punjab	SBS NAGAR	Mahalpur-PZ	0.00		-1.60	0.10
732	Punjab	SBS NAGAR	Mauhra-Pz	0.21	-1.75	1.07	0.80
733	Punjab	SBS NAGAR	Padmaiwal-PZ	-2.30		1.90	2.80
734	Punjab	SBS NAGAR	Rahon				0.40
735	Punjab	SBS NAGAR	Raipur Dhaba-Pz	-0.88		1.13	0.55
736	Punjab	SBS NAGAR	Ramgarh-Pz			1.90	
737	Punjab	TARAN TARAN	Aima Khurd-Pz	0.20		1.10	0.50
738	Punjab	TARAN TARAN	Attari-Pz	3.30		-0.20	-0.20
739	Punjab	TARAN TARAN	Bakipur-Pz	1.00		0.60	-3.90
740	Punjab	TARAN TARAN	Bhagala-Pz	3.40		-0.70	
741	Punjab	TARAN TARAN	Bhagwanpur-Pz	0.40		0.70	
742	Punjab	TARAN TARAN	Bhalaipur-Pz	0.50			-0.40
743	Punjab	TARAN TARAN	Bhankar Kalan-Pz	-1.80		-0.20	0.20
744	Punjab	TARAN TARAN	Bhikiwind- Pz	-1.23	-0.88	-0.42	
745	Punjab	TARAN TARAN	Bhura-Pz	1.30			
746	Punjab	TARAN TARAN	Bhure-Pz	-2.50		-1.90	-0.80
747	Punjab	TARAN TARAN	Bhusse-Pz	1.50		1.00	-0.60
748	Punjab	TARAN TARAN	Brahmpur-Pz	1.50			-2.80
749	Punjab	TARAN TARAN	Chabal 07				
750	Punjab	TARAN TARAN	Chakkare Khan-Pz	0.00		-0.10	-0.60
751	Punjab	TARAN TARAN	Chola Sahib-Pz	-0.94	-2.19	-0.84	
752	Punjab	TARAN TARAN	Choudhary Wala-Pz				
753	Punjab	TARAN TARAN	Chuselawad-Pz	0.60		-1.70	
754	Punjab	TARAN TARAN	Dholan-Pz	2.60			
755	Punjab	TARAN TARAN	Ekalgoda-Pz	0.60		0.20	-0.60
756	Punjab	TARAN TARAN	Fatehabad- PZ	-0.90		-1.40	-0.10
757	Punjab	TARAN TARAN	Gandi Wind-Pz	-1.13	-1.30	-0.53	
758	Punjab	TARAN TARAN	Goindwal 07		-1.32	-0.35	
759	Punjab	TARAN TARAN	Jandoke-Pz	0.70		-0.90	-1.40
760	Punjab	TARAN TARAN	Kairon-PZ	-0.40		-0.80	
761	Punjab	TARAN TARAN	Kalsia Kalan07	-0.18	-1.68	1.68	
762	Punjab	TARAN TARAN	Khadur Sahib-Pz	-0.82	-0.44	0.45	
763	Punjab	TARAN TARAN	Khalra-Pz	-0.50		-0.50	
764	Punjab	TARAN TARAN	Kotbudda-Pz	-0.70		1.20	
765	Punjab	TARAN TARAN	Kotli Sur Singh-Pz	2.30		1.00	
766	Punjab	TARAN TARAN	Mahendipur-Pz	3.40			
767	Punjab	TARAN TARAN	Marhona-Pz	2.90		-1.00	-3.20
768	Punjab	TARAN TARAN	Mari Kamboke-Pz			0.30	
769	Punjab	TARAN TARAN	Mohawa	-1.07		-0.10	
770	Punjab	TARAN TARAN	Nandpur-Pz				
771	Punjab	TARAN TARAN	Pindan-Pz	0.30		-0.30	-0.50
772	Punjab	TARAN TARAN	Rajoke-Pz	1.10		0.80	
773	Punjab	TARAN TARAN	Ratoke-Pz	-0.65	-1.57	-1.60	
774	Punjab	TARAN TARAN	Sabran-Pz	-2.20		-0.20	
775	Punjab	TARAN TARAN	Sahab Pura- Pz	-0.58	-2.31	-0.12	
776	Punjab	TARAN TARAN	Sheron-Pz	-1.00		-0.70	-0.30
777	Punjab	TARAN TARAN	Sugga-Pz	0.00		0.00	

Annexure IV. Decadal Mean Water Level Fluctuation

S. No	State	District		May FL	Aug FL	NOV FL	JAN FL
				(mbgl)	(mbgl)	(mbgl)	(mbgl)
1	Chandigarh	Chandigarh	BURAIL	1.56	0.01	-0.04	0.25
2	Chandigarh	Chandigarh	Csio-combined			1.01	0.95
3	Chandigarh	Chandigarh	CSIO-S	2.40	0.92	1.61	1.59
4	Chandigarh	Chandigarh	NEW INDUST AREA		3.87	1.22	-0.87
5	Chandigarh	Chandigarh	Sec-27, Ar Well	5.70	3.21	3.45	2.99
6	Chandigarh	Chandigarh	SECT 10C (D)	0.17	4.25	3.21	8.27
7	Chandigarh	Chandigarh	SECT 10C (S)	2.04	-2.73	5.56	
8	Chandigarh	Chandigarh	SECT 31D (D)		-0.16	-0.16	0.75
9	Chandigarh	Chandigarh	SECT 31D (S)	0.84	1.25	0.74	-0.91
10	Chandigarh	Chandigarh	SECT 37D (S)	-5.44	-1.01	-0.08	0.74
11	Chandigarh	Chandigarh	SECT 44D (S)	0.95	0.27	0.55	0.54
12	Chandigarh	Chandigarh	Sector-46 (shallow)		-4.03	0.35	0.12
13	Chandigarh	Chandigarh	Sector-46(vs)			0.15	
14	Punjab	Amritsar	Ajnala	1.08		2.96	0.62
15	Punjab	Amritsar	Amritsar				-5.70
16	Punjab	Amritsar	Amritsar1	1.29	1.34	2.20	0.55
17	Punjab	Amritsar	Bal Kalan-Pz	-0.10		0.15	0.22
18	Punjab	Amritsar	Beas07	0.61	0.96	0.48	0.48
19	Punjab	Amritsar	Bhattaywad-Pz	1.33		3.65	1.41
20	Punjab	Amritsar	Bholewal-Pz			0.60	
21	Punjab	Amritsar	Boparai Khurd-Pz	2.16		0.78	0.35
22	Punjab	Amritsar	Chak Dogra-Pz	0.73		0.65	-0.72
23	Punjab	Amritsar	ChogWan- Pz		2.09	1.48	1.67
24	Punjab	Amritsar	Dhulika-Pz	1.33		1.78	2.18
25	Punjab	Amritsar	Dohan-Pz	0.88		0.90	1.64
26	Punjab	Amritsar	Gago Mahal- Pz		0.58	0.85	-0.46
27	Punjab	Amritsar	Gill wali-Pz	1.43		0.83	1.26
28	Punjab	Amritsar	Jandiala Guru-Pz	1.30	1.26	1.27	1.16
29	Punjab	Amritsar	Jethuwal-Pz	0.53		0.20	0.66
30	Punjab	Amritsar	Kandowali-Pz	0.88		0.50	1.22
31	Punjab	Amritsar	Karyal-Pz	1.23		0.73	0.94
32	Punjab	Amritsar	Khilchian-Pz	-0.02			
33	Punjab	Amritsar	Mahima-Pz	2.07		2.40	1.70
34	Punjab	Amritsar	Majitha-Pz	-0.60		0.20	1.00
35	Punjab	Amritsar	Makhan Windi-Pz	-1.55		-0.10	-0.42
36	Punjab	Amritsar	Mehleykey-Pz	4.56		3.35	0.46
37	Punjab	Amritsar	Mehta	1.12		1.05	
38	Punjab	Amritsar	Mehta-Pz	0.10		-0.23	1.00
39	Punjab	Amritsar	Miran Chak-Pz	0.00		-0.65	0.38

40	Punjab	Amritsar	Nangal Sahaul-Pz	1.05		0.78	0.96
41	Punjab	Amritsar	Nawan Tanal- Pz	1.38	1.50	0.93	0.52
42	Punjab	Amritsar	Ramdas-DW	-1.82	1.09	0.96	-1.53
43	Punjab	Amritsar	Rampura-Pz	-1.08			
44	Punjab	Amritsar	Rayya-Pz			0.10	
45	Punjab	Amritsar	Rupowal Brahmana-Pz	1.55		1.10	1.75
46	Punjab	Amritsar	Sarangra-Pz			0.10	
47	Punjab	Amritsar	Sathiala-Pz	0.68		0.73	
48	Punjab	Amritsar	Shabura-Pz	3.13		1.93	
49	Punjab	Amritsar	Sham Nagar-Pz	0.80		0.83	-0.77
50	Punjab	Amritsar	Talwandi Dogra-Pz	2.90		1.05	0.94
51	Punjab	Amritsar	Tarsika-Pz	-0.28		-0.50	1.22
52	Punjab	Amritsar	Ugar Aulakh-Pz	0.58		0.38	0.35
53	Punjab	Amritsar	Vadala Kalan-Pz	1.13		1.13	2.00
54	Punjab	Amritsar	Vadala Viran-Pz			-0.50	
55	Punjab	Amritsar	Verka-Pz			-1.40	
56	Punjab	Amritsar	Wandala Bittewad-Pz	1.63		0.68	0.80
57	Punjab	Barnala	Amla Singh Wala-PZ	1.07			3.29
58	Punjab	Barnala	Barnala (s)	7.37	7.57	7.11	6.40
59	Punjab	Barnala	Bhadaur-Pz	5.10	4.18	4.56	5.45
60	Punjab	Barnala	Dhanaula-Pz			9.56	9.99
61	Punjab	Barnala	Daula-Pz	6.79			
62	Punjab	Barnala	Kurar-Pz	4.96		7.00	6.97
63	Punjab	Barnala	Lohgarh-Pz	2.73			5.08
64	Punjab	Barnala	Mahal Kalan-Pz	5.99	4.00	5.09	5.57
65	Punjab	Barnala	Nangal-Pz	3.94			
66	Punjab	Barnala	Pakho Ke-Pz	1.45		-1.33	-0.50
67	Punjab	Barnala	Patti Dwarka-Pz	9.28		8.36	
68	Punjab	Barnala	Raisar-Pz	7.84		8.72	
69	Punjab	Barnala	Ramgarh-Pz	3.45			
70	Punjab	Barnala	Shekha	1.92		4.29	6.01
71	Punjab	Bathinda	Ablu	2.19	2.58	2.66	1.67
72	Punjab	Barnala	Aleke Jalal-Pz	3.40		2.74	
73	Punjab	Bathinda	Badiala-Pz	3.83	3.52	4.11	4.19
74	Punjab	Barnala	Bagher Mohabat Singh-Pz			1.53	
75	Punjab	Bathinda	Bahman Kaur Singh-Pz			0.69	
76	Punjab	Barnala	Balianwali-Pz	3.98		-0.16	3.11
77	Punjab	Bathinda	Balluana1	0.54	0.87	-1.00	1.15
78	Punjab	Barnala	Balluana-Pz	-1.38		-1.84	0.51
79	Punjab	Bathinda	Bandi-Pz	0.25		-2.68	

80	Punjab	Barnala	Bhagibandar	0.67	1.31	1.30	1.56
81	Punjab	Bathinda	Bugran-Pz	3.98		3.07	3.94
82	Punjab	Barnala	Burj Gill-Pz	4.02		3.27	5.04
83	Punjab	Bathinda	Burj-Pz			1.80	
84	Punjab	Barnala	Deratapp	1.13	1.06	2.49	2.75
85	Punjab	Bathinda	Dhapali1	9.75	11.06	7.42	9.03
86	Punjab	Barnala	Dhapali-Pz	6.81	4.12	5.18	6.13
87	Punjab	Bathinda	Dialpur Mirza			5.86	6.16
88	Punjab	Barnala	Dialpura Bhlaike	6.07	7.14	5.04	6.56
89	Punjab	Bathinda	Dulle Wala-Pz	3.83		3.30	4.50
90	Punjab	Barnala	Ganga-Pz	1.47	1.75	1.11	2.58
91	Punjab	Bathinda	Ghudda			22.66	22.71
92	Punjab	Barnala	Ghudda-Pz	0.12		0.17	-0.60
93	Punjab	Bathinda	Gill Patti-DW			2.66	
94	Punjab	Barnala	Gobind Pura-Pz			1.03	
95	Punjab	Bathinda	Gulabgarh 2 (s)	2.22	1.90	1.60	2.07
96	Punjab	Barnala	Guru Sar-Pz	0.44	0.22	0.43	0.79
97	Punjab	Bathinda	Harraipur-Pz	1.08		2.63	2.03
98	Punjab	Barnala	Jajjal	0.44	2.09	2.27	0.94
99	Punjab	Bathinda	Jassi Bhagwali	-4.93	-1.32	-1.09	-0.24
100	Punjab	Barnala	Jassi Paowali-Pz	0.08			
101	Punjab	Bathinda	Jhanduke	3.87	5.10	4.88	4.74
102	Punjab	Barnala	Jhanduke-Pz	2.87		0.68	2.62
103	Punjab	Bathinda	Kalayan Sukha-S				1.69
104	Punjab	Barnala	Kalla Bandar	-1.30	-0.84	3.11	3.67
105	Punjab	Bathinda	Kalyan Sukha-M				0.91
106	Punjab	Barnala	Koir Singh Wala-Pz	2.28		2.51	
107	Punjab	Bathinda	Kot Bhaktu-Pz			0.55	
108	Punjab	Barnala	Kot Guru			0.40	
109	Punjab	Bathinda	Kot Shamir	0.71	0.78	1.65	0.83
110	Punjab	Barnala	Kothaguru-Pz	4.14	4.17	4.40	4.64
111	Punjab	Bathinda	Lalliana-Pz			0.67	
112	Punjab	Barnala	Lehra Dhulkot-Pz	3.55		0.92	4.16
113	Punjab	Bathinda	Maihma Bhagwan-PZ	0.49		0.48	1.12
114	Punjab	Barnala	Maisar Khana	3.93	4.31	4.81	4.47
115	Punjab	Bathinda	Maisar Khana-Pz	2.73		3.25	
116	Punjab	Barnala	Maluka-Pz	2.83		2.83	
117	Punjab	Bathinda	Mandi Kalan-Pz	3.30		0.79	3.17
118	Punjab	Barnala	Maur Kalan-Pz			2.09	

119	Punjab	Bathinda	Mehraj-Pz	3.65		3.34	3.87
120	Punjab	Barnala	Mehta-Pz	0.30		0.39	0.61
121	Punjab	Bathinda	Multania-Pz	-0.04		0.27	0.82
122	Punjab	Barnala	Nahinwala	2.53	7.31	2.28	2.73
123	Punjab	Bathinda	Nathana-Pz	3.86		2.82	4.22
124	Punjab	Barnala	Nathena-Pz			0.20	
125	Punjab	Bathinda	Phulla1	12.77	7.60	6.17	5.37
126	Punjab	Barnala	Puhla-Pz			7.18	
127	Punjab	Bathinda	Raike Kalan	0.12	0.10	0.36	0.61
128	Punjab	Barnala	Rampura				10.30
129	Punjab	Bathinda	Rajgarh Kubey-Pz			2.67	
130	Punjab	Barnala	Rayya-Pz	4.41		3.24	5.98
131	Punjab	Bathinda	Salabatpur-Pz	3.19		2.28	
132	Punjab	Barnala	Sangat -Pz	0.57	0.81	-1.98	-1.98
133	Punjab	Bathinda	Seema-DW			5.15	
134	Punjab	Barnala	Sooch-Pz	2.87		1.73	2.47
135	Punjab	Bathinda	Teona-Pz			0.38	
136	Punjab	Barnala	Tungwali-Pz				2.11
137	Punjab	Faridkot	Aryan Wala-Pz	0.15	0.92		
138	Punjab	Faridkot	Baja Khana	7.43	1.26	0.10	2.71
139	Punjab	Faridkot	Bead Sikhanwala- Pz	0.07	0.42	-0.09	0.15
140	Punjab	Faridkot	Behabal Kalan-Pz			5.39	
141	Punjab	Faridkot	Chahd Baja	0.96	1.86	2.12	1.43
142	Punjab	Faridkot	Chak Kalan-Pz			-0.18	
143	Punjab	Faridkot	Dhilwan Kalan		2.34	4.58	3.20
144	Punjab	Faridkot	Dhudi-Pz	1.29		0.88	
145	Punjab	Faridkot	Dipsinghwala			1.00	1.30
146	Punjab	Faridkot	Faridkot-Pz	0.07		0.68	
147	Punjab	Faridkot	Fatehgarh-Pz			1.23	
148	Punjab	Faridkot	Ghuiana-Pz	0.21		-0.88	
149	Punjab	Faridkot	Jand Sahib-Pz	1.18	-0.37		-1.16
150	Punjab	Faridkot	Karirwali	3.57	4.42	1.94	1.19
151	Punjab	Faridkot	Killi-Pz	0.17	-0.20		-1.02
152	Punjab	Faridkot	Kot Kapura	0.69	1.29	1.97	2.39
153	Punjab	Faridkot	Matta	1.36	2.13	3.02	2.64
154	Punjab	Faridkot	Mehmuana	-0.95	-1.10	-1.40	-1.09
155	Punjab	Faridkot	Mumra-Pz	0.25	-0.08		-0.86
156	Punjab	Faridkot	Nangal-Pz	0.80	-0.69	2.28	0.65
157	Punjab	Faridkot	Nawan Killa-Pz				57.55

158	Punjab	Faridkot	Pahluwala-Pz	0.78		0.39	
159	Punjab	Faridkot	Ratti Rori-Pz	-0.05		0.62	
160	Punjab	Faridkot	Rorian Kapura-Pz	1.16		2.36	
161	Punjab	Faridkot	Sadiq-Pz	0.11		-0.80	-0.72
162	Punjab	Faridkot	Sandhwan-Pz			2.42	
163	Punjab	Faridkot	Sher Singh Wala- Pz	0.13	-0.23	-0.47	-0.41
164	Punjab	Faridkot	Sukhwala-Pz	-0.07	-0.20	-1.11	-1.35
165	Punjab	Faridkot	Tehna-Pz	0.48	-0.41	-0.29	-0.30
166	Punjab	Faridkot	Wara Dwarka-Pz	0.25	3.92	0.23	0.60
167	Punjab	Fatehgarh Sahib	Alipur Sodhian-Pz	1.84		2.38	1.95
168	Punjab	Fatehgarh Sahib	Amloh1			3.58	
169	Punjab	Fatehgarh Sahib	Badalialasingh	5.00	4.67	4.46	3.50
170	Punjab	Fatehgarh Sahib	Bagga Kalan	5.34		5.79	4.58
171	Punjab	Fatehgarh Sahib	Bassi Pathana	3.07	3.31		2.91
172	Punjab	Fatehgarh Sahib	Bhagrana		-1.55	-1.30	-2.66
173	Punjab	Fatehgarh Sahib	Bhateri1	3.54	4.65	4.02	2.79
174	Punjab	Fatehgarh Sahib	Burj	3.04		3.07	2.81
175	Punjab	Fatehgarh Sahib	Chandiala-Pz	-0.31		-0.33	-0.23
176	Punjab	Fatehgarh Sahib	Chuni Khurd-PZ			-0.50	
177	Punjab	Fatehgarh Sahib	Chunni Kalan	-0.89	-0.78	-0.68	-1.51
178	Punjab	Fatehgarh Sahib	Fatehgarh Sahib-Pz	3.18	3.29	1.76	3.25
179	Punjab	Fatehgarh Sahib	Inayatpur-PZ-S			0.15	
180	Punjab	Fatehgarh Sahib	Jai Singh Wala	4.52		3.65	3.83
181	Punjab	Fatehgarh Sahib	Jhambela	3.78		3.95	3.85
182	Punjab	Fatehgarh Sahib	Kalewal	1.75		3.02	
183	Punjab	Fatehgarh Sahib	Khamanon-pz	0.68		0.03	0.55
184	Punjab	Fatehgarh Sahib	Kharey_PZ			-0.90	
185	Punjab	Fatehgarh Sahib	Khera-Pz	0.80		0.00	0.45
186	Punjab	Fatehgarh Sahib	Ladpur	3.35		3.25	
187	Punjab	Fatehgarh Sahib	Lohar Majra	2.17		1.92	1.52
188	Punjab	Fatehgarh Sahib	Mianpur-Pz	1.89		1.43	0.68
189	Punjab	Fatehgarh Sahib	Nalini-Pz	3.13	3.70	2.08	1.26
190	Punjab	Fatehgarh Sahib	Nandpur Kalaur-Pz	4.05		3.08	2.27
191	Punjab	Fatehgarh Sahib	Pawala		-1.27	2.15	1.64
192	Punjab	Fatehgarh Sahib	Sado Majra	3.46		3.18	
193	Punjab	Fatehgarh Sahib	Salempur	5.05		0.82	
194	Punjab	Fatehgarh Sahib	Shahpur	3.41		3.46	2.88
195	Punjab	Fatehgarh Sahib	Sirhind-Pz	4.33		2.22	1.63
196	Punjab	Fatehgarh Sahib	Tahalpur	5.18		4.49	3.49

197	Punjab	Fatehgarh Sahib	Talwara	4.07		2.78	2.44
198	Punjab	Fatehgarh Sahib	Timber Pur-Pz	-2.10		-2.26	-2.03
199	Punjab	Fazilka	Abohar	0.95	1.07	0.84	1.06
200	Punjab	Fazilka	Alamgarh		0.06	-0.40	0.40
201	Punjab	Fazilka	Asifwala-Pz	0.24		0.25	0.10
202	Punjab	Fazilka	Bannawala	0.10	0.69	0.66	0.34
203	Punjab	Fazilka	Bazirdpura	-1.60	-1.81	-1.59	-2.06
204	Punjab	Fazilka	Chak Khere Wala-Pz	1.04		0.46	0.33
205	Punjab	Fazilka	Chak Pune Wala-Pz			8.06	
206	Punjab	Fazilka	Danewal Satkosi	-0.33	-0.53	0.99	0.61
207	Punjab	Fazilka	Danger Khera-Pz	0.50		0.10	0.26
208	Punjab	Fazilka	Dipulana-Pz		1.55	1.58	1.56
209	Punjab	Fazilka	Fattu Wala-Pz	2.04		0.42	1.02
210	Punjab	Fazilka	Giddran Wali-Pz	0.88		-1.45	
211	Punjab	Fazilka	Godiwala-Pz	0.41		0.33	0.58
212	Punjab	Fazilka	Hamed Saidoke-Pz	0.65		-0.29	0.04
213	Punjab	Fazilka	Himmatpura-Pz	0.38		0.85	0.65
214	Punjab	Fazilka	Jaimal Singhwala Pz	0.52			
215	Punjab	Fazilka	Jalalabad-Pz			0.38	-8.52
216	Punjab	Fazilka	Jand Wala Johian-Pz	0.91		1.89	
217	Punjab	Fazilka	Kaler Khera-Pz	0.49		-0.04	0.29
218	Punjab	Fazilka	Kandh Wala-Pz			-0.30	0.37
219	Punjab	Fazilka	Khuiansarwar- Pz	0.08	0.61	1.07	1.46
220	Punjab	Fazilka	Kundal1	0.37	0.35	0.59	0.49
221	Punjab	Fazilka	Ladhuwala	-0.59		0.04	0.25
222	Punjab	Fazilka	Malukpur-Pz	1.00		-0.04	
223	Punjab	Fazilka	Markhiwa Bhamni-Pz			2.13	
224	Punjab	Fazilka	Motiwala 07pz			24.39	24.78
225	Punjab	Fazilka	Muradwala Dal-Pz	1.51		1.25	1.45
226	Punjab	Fazilka	Nihalkhera		0.14	0.58	0.88
227	Punjab	Fazilka	Nure-Ki-Uttar 07pz	1.98		18.54	19.24
228	Punjab	Fazilka	Pancha Wali-Pz	-0.19		-0.41	-0.58
229	Punjab	Fazilka	Pattiwalla-Pz	0.23		-0.46	-0.51
230	Punjab	Fazilka	Ramsara-Pz	0.43		0.55	0.52
231	Punjab	Fazilka	Sham Singhwala-Pz	0.57		0.89	-1.96
232	Punjab	Fazilka	Shatriwala-Pz	0.06		0.18	
233	Punjab	Fazilka	Sherewala-Pz	0.51		0.09	0.06
234	Punjab	Fazilka	Singhpura-Pz			1.45	
235	Punjab	Fazilka	Sitoganno	-2.02	-1.49	-1.02	-1.41

236	Punjab	Fazilka	Sohangarh Ratte	0.41	0.90	0.59	-0.20
237	Punjab	Fazilka	Swah Wala- Pz		1.49	1.82	0.05
238	Punjab	Firozpur	Bara Mansur Wala-Pz	2.78		1.51	1.50
239	Punjab	Firozpur	Chak Kandhe Shah-Pz	3.61		3.55	0.60
240	Punjab	Firozpur	Chamb-Pz	1.83		0.64	0.94
241	Punjab	Firozpur	Dulchi Ke-Pz	0.77		0.75	0.61
242	Punjab	Firozpur	Gogiani-Pz	1.67		1.92	2.24
243	Punjab	Firozpur	Jaimal wala-Pz	0.66		1.67	1.03
244	Punjab	Firozpur	Jang-Pz	0.69		0.89	0.82
245	Punjab	Firozpur	Katoran-Pz	3.09		0.15	
246	Punjab	Firozpur	Lauhke Kalan- Pz	1.60	2.51	1.40	-0.21
247	Punjab	Firozpur	Lohere Khurd-Pz	1.42		0.45	-0.02
248	Punjab	Firozpur	Machi Bugra/ Gujran-Pz	1.20		0.15	0.41
249	Punjab	Firozpur	Mallanwala Khas-Pz	0.69		-2.92	0.82
250	Punjab	Firozpur	Malluwala-Pz	2.27		1.65	1.82
251	Punjab	Firozpur	Malsian-Pz		2.11	2.63	2.30
252	Punjab	Firozpur	Mana Singh Wala-Pz	1.31		1.54	0.88
253	Punjab	Firozpur	Mohkam Khan Wala-Pz	0.70		0.85	1.08
254	Punjab	Firozpur	Mohre Wala-Pz	0.15	-0.52	-0.04	-0.09
255	Punjab	Firozpur	Mudki-Pz	0.92		0.75	0.77
256	Punjab	Firozpur	Piyarana	0.66	1.02	0.98	0.49
257	Punjab	Firozpur	Rala Hazi- Pz	0.42		0.63	0.26
258	Punjab	Firozpur	Rukne Wala-Pz	1.46		0.46	1.55
259	Punjab	Firozpur	Sadhusha Wala-Pz	1.91		1.02	1.38
260	Punjab	Firozpur	Sultan Khan Wala Urf-Pz	1.90		0.69	1.01
261	Punjab	Firozpur	Talwandi Jalle Khan-pz	2.53		0.61	0.24
262	Punjab	Firozpur	Tibbi Kalan-Pz	2.08		1.31	1.35
263	Punjab	Firozpur	Tibbi Taiwan Laluwalla-Pz	0.72		0.76	0.67
264	Punjab	Firozpur	Wage Wala-Pz	0.82		0.04	0.05
265	Punjab	Gurdaspur	Aulakhkalan	0.47		0.76	
266	Punjab	Gurdaspur	Bariyar	0.90		0.13	0.45
267	Punjab	Gurdaspur	Bhagowal	1.29	2.17	0.03	0.21
268	Punjab	Gurdaspur	Bham	2.39		1.90	
269	Punjab	Gurdaspur	Bilasbal-Pz	0.41		-0.63	-0.85
270	Punjab	Gurdaspur	Chahal Kalan-Pz	1.12		0.12	0.94
271	Punjab	Gurdaspur	Chahgill-Pz	1.13		0.65	
272	Punjab	Gurdaspur	Chone-Pz	2.22		1.77	1.74
273	Punjab	Gurdaspur	Dakoha-Pz	1.85	2.05	1.56	1.61
274	Punjab	Gurdaspur	Dera Baba Nanak	0.29	1.33	0.23	0.43

275	Punjab	Gurdaspur	Dhianpur	-0.45		-2.43	-1.08
276	Punjab	Gurdaspur	Dinanagar	0.01	1.09	1.03	2.74
277	Punjab	Gurdaspur	Dostpur-Pz	0.80		-0.05	0.05
278	Punjab	Gurdaspur	Gajikort-Pz	0.22		-0.78	-0.30
279	Punjab	Gurdaspur	Galri	0.69	1.02	-2.96	0.24
280	Punjab	Gurdaspur	Ghania Ki bangar- Pz	0.72	1.17	0.23	0.22
281	Punjab	Gurdaspur	Ghumani Khurd-Pz	0.71		-0.16	-3.16
282	Punjab	Gurdaspur	Gurdaspur-Pz	1.60		0.84	0.53
283	Punjab	Gurdaspur	Harchowal-Pz	-0.45			
284	Punjab	Gurdaspur	Hassanpur Kalan-Pz	0.70		-0.04	-0.05
285	Punjab	Gurdaspur	Jhabkra	-0.25		-1.50	-1.00
286	Punjab	Gurdaspur	Jhandalbana-Pz	-0.18		-1.05	-0.90
287	Punjab	Gurdaspur	Kala Afgana-Pz	0.75		0.60	0.36
288	Punjab	Gurdaspur	Kalanaur-DW	0.63		0.44	-3.28
289	Punjab	Gurdaspur	Kalanaur-Pz	0.20	0.95	-0.63	
290	Punjab	Gurdaspur	Kalerkalan-Pz			-1.50	
291	Punjab	Gurdaspur	Kaure-Pz	1.97		1.30	0.81
292	Punjab	Gurdaspur	Khan Fatta-Pz	0.15		-0.25	-0.18
293	Punjab	Gurdaspur	Khanmalik-Pz	1.28		-0.38	-0.23
294	Punjab	Gurdaspur	Khatgarh-Pz	0.44		-0.08	0.20
295	Punjab	Gurdaspur	Lakankala-Pz	1.30		0.06	-0.01
296	Punjab	Gurdaspur	Langurwal-Pz	1.32		0.04	0.21
297	Punjab	Gurdaspur	Madipur Fatehgarhchuria	1.17	1.12	0.50	0.56
298	Punjab	Gurdaspur	Malikpur-Pz	0.72		1.25	0.33
299	Punjab	Gurdaspur	Mallewal-Pz			-0.07	
300	Punjab	Gurdaspur	Maman-Pz	1.64		0.48	0.18
301	Punjab	Gurdaspur	Masana-Pz	0.14		-1.22	-0.23
302	Punjab	Gurdaspur	Massit-Pz	0.31		-0.37	-0.16
303	Punjab	Gurdaspur	Mirza Jaan-Pz			1.25	
304	Punjab	Gurdaspur	Mullowali 1(vs)	0.73	1.16	0.33	
305	Punjab	Gurdaspur	Mullowali 2(m)	2.65		2.39	0.54
306	Punjab	Gurdaspur	Nangal-Pz	-0.02		-0.86	-0.53
307	Punjab	Gurdaspur	Nishayara	0.42		1.34	1.20
308	Punjab	Gurdaspur	Pandoritalab	-0.29	0.23	-0.42	-0.22
309	Punjab	Gurdaspur	Paniar			0.85	
310	Punjab	Gurdaspur	Parcha-Pz	0.75		-0.86	-0.65
311	Punjab	Gurdaspur	Patti Atwal-Pz	1.59		1.12	0.85
312	Punjab	Gurdaspur	Quaddian -Pz	2.77		0.89	
313	Punjab	Gurdaspur	Raipur	0.48		-1.03	-1.05

314	Punjab	Gurdaspur	Saidowal Kalan-DW	0.09	0.08	-0.65	-0.34
315	Punjab	Gurdaspur	Saleh Chak-S	1.26	1.94	1.09	0.37
316	Punjab	Gurdaspur	Salehchak(vs)	0.80	2.00	0.61	0.58
317	Punjab	Gurdaspur	Sathial-Pz	0.64	1.59	0.09	0.93
318	Punjab	Gurdaspur	Shahpur Jattan-Pz	1.00		1.41	1.21
319	Punjab	Gurdaspur	Shahpur-Pz	1.49		0.70	0.75
320	Punjab	Gurdaspur	Shezada Kalan-Pz	-0.10		0.85	1.06
321	Punjab	Gurdaspur	Shikar-Pz	-1.27		-0.20	
322	Punjab	Gurdaspur	Tikriwala-Pz	1.89		1.08	1.23
323	Punjab	Hoshiarpur	Aallo Batti-Pz			-3.98	-3.18
324	Punjab	Hoshiarpur	Adowal Garhi-Pz	5.43	4.73	4.90	
325	Punjab	Hoshiarpur	Argowal-Pz			1.85	1.84
326	Punjab	Hoshiarpur	Badla-Pz			0.68	-0.67
327	Punjab	Hoshiarpur	Bagpur-Pz			0.17	
328	Punjab	Hoshiarpur	Baichan-Pz			-0.78	
329	Punjab	Hoshiarpur	Bajwara-Pz			1.25	0.30
330	Punjab	Hoshiarpur	Barota-PZ				-2.15
331	Punjab	Hoshiarpur	Bersa			0.05	0.00
332	Punjab	Hoshiarpur	Bhalowal Gujjran-Pz			3.13	2.68
333	Punjab	Hoshiarpur	Bhangala-Chhota-DW		1.28	-0.81	-0.47
334	Punjab	Hoshiarpur	Bhanowal-Pz			1.98	1.65
335	Punjab	Hoshiarpur	Bhatolian-Pz			4.68	4.60
336	Punjab	Hoshiarpur	Boring-PZ			-3.25	-0.30
337	Punjab	Hoshiarpur	Budhi Pind-Pz			0.52	
338	Punjab	Hoshiarpur	Chak Sheru-DW		0.80	-0.49	-0.37
339	Punjab	Hoshiarpur	Chohal	-1.66	0.02	0.28	0.07
340	Punjab	Hoshiarpur	Dadan-Pz			3.78	2.55
341	Punjab	Hoshiarpur	DAGAN-DW		1.78	1.29	2.53
342	Punjab	Hoshiarpur	Dallewal-Pz			1.58	1.28
343	Punjab	Hoshiarpur	Dasuya2 (s)	4.11		0.79	-2.92
344	Punjab	Hoshiarpur	Dharampur1			-1.54	
345	Punjab	Hoshiarpur	Durimiwal	2.83	3.80	1.93	2.02
346	Punjab	Hoshiarpur	Fattowal-Pz			4.07	2.98
347	Punjab	Hoshiarpur	Garh Di Wala-Pz	4.26	2.46	2.71	4.06
348	Punjab	Hoshiarpur	Garhshankar (s)	3.58	4.60	4.70	6.46
349	Punjab	Hoshiarpur	Grahaya-Pz			3.50	3.63
350	Punjab	Hoshiarpur	Haler Rampur-DW			-0.86	0.11
351	Punjab	Hoshiarpur	Hazipur	0.75	-0.99	-0.56	-0.33
352	Punjab	Hoshiarpur	Heer Beh-PZ			-0.60	-0.90

353	Punjab	Hoshiarpur	Ittian-Pz			-3.70	-3.10
354	Punjab	Hoshiarpur	Jahidpur-PZ			-3.70	-1.50
355	Punjab	Hoshiarpur	Jalalpur-Pz			-0.80	
356	Punjab	Hoshiarpur	Jattpur-Pz			0.75	-0.77
357	Punjab	Hoshiarpur	Jhir Da Khuh-DW	3.15	2.16	0.70	
358	Punjab	Hoshiarpur	Khera-Pz			9.95	9.72
359	Punjab	Hoshiarpur	Mahil Baltohian-Pz			2.13	1.83
360	Punjab	Hoshiarpur	Mahilpur-Pz			0.07	0.50
361	Punjab	Hoshiarpur	Mianipur-Pz			-1.82	
362	Punjab	Hoshiarpur	Mukerian Dw		1.47	-0.93	0.42
363	Punjab	Hoshiarpur	Naharpur-Pz			-3.13	-1.63
364	Punjab	Hoshiarpur	Namoli-PZ			-11.15	
365	Punjab	Hoshiarpur	Nangal Bihala- DW	1.22	1.70	1.01	0.48
366	Punjab	Hoshiarpur	Nangal Thathal-Pz			2.40	1.97
367	Punjab	Hoshiarpur	Pan Khuh-DW		0.13	0.12	1.12
368	Punjab	Hoshiarpur	Pandori Mehal-Pz			3.93	2.03
369	Punjab	Hoshiarpur	Parshote-Pz			0.98	0.73
370	Punjab	Hoshiarpur	Phuglana- Pz	1.45	1.36	-0.39	-1.13
371	Punjab	Hoshiarpur	Rampur Colony (HSP) pz-medium				1.25
372	Punjab	Hoshiarpur	Samraj Tanda-DW		0.28	-0.44	0.40
373	Punjab	Hoshiarpur	Satnoh-PZ.			5.00	3.40
374	Punjab	Hoshiarpur	Sham Chaurasi	2.31	3.88	1.37	1.22
375	Punjab	Hoshiarpur	Sibo Chak- DW		-0.47	-0.66	-0.15
376	Punjab	Hoshiarpur	Simbli- OW	4.19	1.84	0.53	
377	Punjab	Hoshiarpur	Simbli-Pz	2.89	0.77	2.66	0.06
378	Punjab	Hoshiarpur	Talwara1	0.20	-1.14	-1.02	-0.48
379	Punjab	Hoshiarpur	Tanda			-3.15	
380	Punjab	Hoshiarpur	Thakarwala	1.75	0.48	-1.24	-0.88
381	Punjab	Jalandhar	Adampur 3(s)	1.08		0.19	0.71
382	Punjab	Jalandhar	Akalpur-Pz	1.84		0.84	1.50
383	Punjab	Jalandhar	Allawalpur		1.52	0.41	-0.18
384	Punjab	Jalandhar	Bhogpur-Pz	5.60			
385	Punjab	Jalandhar	Bilga-Pz	3.40		1.30	1.65
386	Punjab	Jalandhar	Billi Chahrami-Pz	3.45		4.63	3.42
387	Punjab	Jalandhar	Chania-Pz	3.36		2.15	2.50
388	Punjab	Jalandhar	Dhanda-Pz	3.23		1.69	2.45
389	Punjab	Jalandhar	Dhirowal-Pz			-0.77	
390	Punjab	Jalandhar	Fateh Jalal-Pz	3.56		0.20	-1.79
391	Punjab	Jalandhar	Gehlan-pz	2.31		1.08	0.69

392	Punjab	Jalandhar	Gillian-Pz	2.59		2.19	0.95
393	Punjab	Jalandhar	Gohiran			6.21	6.08
394	Punjab	Jalandhar	Hardo Sheikh-Pz	4.48		3.71	4.21
395	Punjab	Jalandhar	Jalandhar-Pz(VS)	7.46	7.19	9.60	5.18
396	Punjab	Jalandhar	Jalbhe	1.34	-0.02	-2.30	-0.76
397	Punjab	Jalandhar	Jandiala-Pz	3.47	5.39	4.39	3.81
398	Punjab	Jalandhar	Jandu Singha-Pz	5.55		2.78	
399	Punjab	Jalandhar	Janian-Pz	9.51		7.23	6.89
400	Punjab	Jalandhar	Kakar Kalan-Pz	3.73		1.38	1.93
401	Punjab	Jalandhar	Kala-Pz	1.13		-0.75	-1.43
402	Punjab	Jalandhar	Kalyanpur-Pz	4.54		4.39	4.21
403	Punjab	Jalandhar	Kang Sahib Rai-Pz	3.45		1.80	1.88
404	Punjab	Jalandhar	Kartarpur 2(s)	3.61	3.00	3.48	3.09
405	Punjab	Jalandhar	Khaira Majha			7.38	
406	Punjab	Jalandhar	Kharal Kalan Pz-S	4.17	4.27	2.24	1.15
407	Punjab	Jalandhar	Kot Wadal Khan-Pz	4.30			0.95
408	Punjab	Jalandhar	Kurla-Pz	2.50		0.15	
409	Punjab	Jalandhar	Lallian kalan Pz-S	5.40	0.08	4.55	5.45
410	Punjab	Jalandhar	Mahmuwal-Pz	3.40		1.85	2.48
411	Punjab	Jalandhar	Mehsampur-Pz	3.33		3.76	1.76
412	Punjab	Jalandhar	Nakodar 2(m)	3.81		5.94	7.58
413	Punjab	Jalandhar	Nakodar 3(s)			5.84	
414	Punjab	Jalandhar	Nangal Shaman	5.23		2.54	2.55
415	Punjab	Jalandhar	Nasirpur-Pz	2.60		2.49	2.41
416	Punjab	Jalandhar	Nussi-Pz	1.83		1.83	-2.15
417	Punjab	Jalandhar	Pathial-Pz	2.41		0.01	
418	Punjab	Jalandhar	Pharwala-Pz	3.53		2.43	0.84
419	Punjab	Jalandhar	Phillaur 2(s)	1.84	2.45	2.05	1.41
420	Punjab	Jalandhar	Rahimpur-Pz	3.55		0.35	0.30
421	Punjab	Jalandhar	Rurka Kalan- Pz	2.14		3.11	0.09
422	Punjab	Jalandhar	Samarahi-Pz	2.03		0.55	0.97
423	Punjab	Jalandhar	Shahkot(s)	0.69		1.60	2.10
424	Punjab	Jalandhar	Shahkot-Pz-Pb	1.95		0.33	0.92
425	Punjab	Jalandhar	Skarar Pur-Pz	5.30		2.53	
426	Punjab	Jalandhar	Sultanpur-Pz	1.15		0.40	0.93
427	Punjab	Jalandhar	Talwani Madho-Pz			5.75	0.81
428	Punjab	Jalandhar	Talwan-Pz	3.01		2.70	1.40
429	Punjab	Jalandhar	Thanda-Pz	2.88		4.69	-2.66
430	Punjab	Jalandhar	Udhopur	-3.55	0.10		

431	Punjab	Kapurthala	Bauril Harnampur-Pz	2.99		2.64	
432	Punjab	Kapurthala	Begowal-Pz	0.85		0.63	
433	Punjab	Kapurthala	Bhanoki-Pz	2.16		1.23	
434	Punjab	Kapurthala	Bhatnura Khurd- S	2.67	0.91	1.75	1.83
435	Punjab	Kapurthala	Bhawanipur-Pz	1.38		1.36	
436	Punjab	Kapurthala	Bholath M	2.30	2.68	1.62	2.07
437	Punjab	Kapurthala	Bholath S	1.92	1.18	1.80	1.85
438	Punjab	Kapurthala	Chakoke-Pz	1.44		1.61	
439	Punjab	Kapurthala	Dalla			10.31	
440	Punjab	Kapurthala	Hamira-Pz	2.28		2.80	
441	Punjab	Kapurthala	Hazipur-Pz	2.51		2.08	
442	Punjab	Kapurthala	Hussainpura-S Pz	4.13	-1.00	4.19	2.76
443	Punjab	Kapurthala	Hussainpura-VS Pz			4.97	4.70
444	Punjab	Kapurthala	Kapurthala2 (s)	4.35	8.48	1.99	1.49
445	Punjab	Kapurthala	Karnail Ganju-Pz	2.03		1.73	
446	Punjab	Kapurthala	Kishanpur	6.51		3.02	
447	Punjab	Kapurthala	Maheru-Pz	3.33		1.29	
448	Punjab	Kapurthala	Miani Bola-Pz	1.84		1.12	
449	Punjab	Kapurthala	Mithra-Pz			3.53	
450	Punjab	Kapurthala	Nadala	2.64		2.62	
451	Punjab	Kapurthala	Nangal Lubhana-Pz	0.77		0.88	
452	Punjab	Kapurthala	Nathu Chahal-Pz	5.19		3.66	
453	Punjab	Kapurthala	Nurpur Janoa-Pz	1.18		1.13	
454	Punjab	Kapurthala	Paazian-Pz			2.32	
455	Punjab	Kapurthala	Phagwara(shallow)	4.44		3.48	
456	Punjab	Kapurthala	Phagwara2 (s)			4.53	3.32
457	Punjab	Kapurthala	Rawalpindi-Pz	5.38		1.53	
458	Punjab	Kapurthala	Saiflabad-Pz			0.90	
459	Punjab	Kapurthala	Sangatpur-Pz	5.93		1.60	
460	Punjab	Kapurthala	Shalapur Dona-Pz	5.45	5.51	1.40	
461	Punjab	Kapurthala	Sultanpur2 (s)			2.12	3.16
462	Punjab	Kapurthala	Talwandi Chaudary -Pz	1.56	2.33	2.12	0.75
463	Punjab	Kapurthala	Thikriwali-Pz	1.27		0.73	
464	Punjab	Ludhiana	Alamgir-Pz	2.17		0.91	1.55
465	Punjab	Ludhiana	Aliwal-Pz	1.95		0.85	0.52
466	Punjab	Ludhiana	Bassian MGOW			7.11	
467	Punjab	Ludhiana	Begowal	1.65		0.48	0.47
468	Punjab	Ludhiana	Bhagwanpur-Pz	0.71		-0.10	0.09
469	Punjab	Ludhiana	Bhahlolpur-DW	0.72	0.91	0.43	0.65

470	Punjab	Ludhiana	Bharthala Randhawa-Pz	2.18		1.83	1.85
471	Punjab	Ludhiana	Bhikhi Khatron-Pz	2.31		1.56	1.59
472	Punjab	Ludhiana	Bilaspur-Pz	1.23		0.02	0.20
473	Punjab	Ludhiana	Chaminala-Pz	2.73		2.78	2.08
474	Punjab	Ludhiana	Chankian Khurd-Pz	1.28		0.77	-0.14
475	Punjab	Ludhiana	Chattar Singh Park-ldh			5.85	
476	Punjab	Ludhiana	Chaunta-Pz	0.30		-0.83	-0.71
477	Punjab	Ludhiana	Chhapar-Pz	2.54		2.10	1.31
478	Punjab	Ludhiana	Dinnamder-Pz	2.91		2.31	1.65
479	Punjab	Ludhiana	Dodpur-Pz	1.93		1.66	1.38
480	Punjab	Ludhiana	Doraha-Pz	0.94	1.17	-0.09	0.53
481	Punjab	Ludhiana	Galibkalan-Pz	3.16		2.45	3.21
482	Punjab	Ludhiana	Gohaur-Pz	1.95		1.49	1.59
483	Punjab	Ludhiana	Gopalpur 2(s)	3.88		4.09	3.55
484	Punjab	Ludhiana	Hambowal-Pz	0.56		-0.90	-0.46
485	Punjab	Ludhiana	Harnampur	2.32		1.43	1.73
486	Punjab	Ludhiana	Hedon-Pz	0.67		-0.05	-0.25
487	Punjab	Ludhiana	Ikloha-Pz	2.89	3.49	3.45	2.91
488	Punjab	Ludhiana	Jagraon 2(s)	-1.80		65.36	5.25
489	Punjab	Ludhiana	Kalsian	6.04		6.40	4.33
490	Punjab	Ludhiana	Katanikalan-Pz	0.28		0.03	-0.06
491	Punjab	Ludhiana	Khandur	3.72		3.41	2.99
492	Punjab	Ludhiana	Kishangarh-Pz	2.03		1.06	1.13
493	Punjab	Ludhiana	Kishanpur-Pz	2.80		1.47	1.23
494	Punjab	Ludhiana	Lalan1	0.93	1.69	0.41	1.18
495	Punjab	Ludhiana	Lil- II Pz	0.64	4.02	2.50	
496	Punjab	Ludhiana	Lil-Pz III	3.82	4.65	0.96	
497	Punjab	Ludhiana	Lodhiwal-Pz	0.56		-0.76	0.43
498	Punjab	Ludhiana	Lohara-Pz	2.66		2.34	2.21
499	Punjab	Ludhiana	Machhiwara-Pz	-0.22		-1.10	
500	Punjab	Ludhiana	Maksudra-Pz			-0.11	0.46
501	Punjab	Ludhiana	Manak Majra-Pz	1.76		1.29	1.30
502	Punjab	Ludhiana	Mangat-Pz	1.46		-0.42	-0.41
503	Punjab	Ludhiana	Mansuran-MGOW			1.91	
504	Punjab	Ludhiana	Mehduda	1.45		0.73	
505	Punjab	Ludhiana	Mehma Singh Wala-Pz	2.72		1.39	1.47
506	Punjab	Ludhiana	Mushkabad	1.17		0.60	0.66
507	Punjab	Ludhiana	Nurpur-Pz	3.19		2.75	2.28
508	Punjab	Ludhiana	P.A.U.Ludhiana 2(s)	1.48		2.10	6.11

509	Punjab	Ludhiana	Pabbian-Pz	1.88	14.65	1.55	1.88
510	Punjab	Ludhiana	Pandori-Pz	2.37		0.54	1.55
511	Punjab	Ludhiana	Payal-Pz	1.86		0.81	0.69
512	Punjab	Ludhiana	Punjeta		0.71	-0.08	-0.02
513	Punjab	Ludhiana	Ragba-Pz	2.74		1.35	1.34
514	Punjab	Ludhiana	Raikot-Pz	4.56		2.63	3.03
515	Punjab	Ludhiana	Rajona Khurd	5.64		4.38	2.23
516	Punjab	Ludhiana	Rashiana-Pz	2.11		0.88	0.59
517	Punjab	Ludhiana	Rashin	5.82		4.66	3.15
518	Punjab	Ludhiana	Rattewal-Pz	2.70		2.03	-3.36
519	Punjab	Ludhiana	Roomi-Pz	5.11		0.92	2.05
520	Punjab	Ludhiana	Sajaywal-Pz	5.42		-0.45	1.40
521	Punjab	Ludhiana	Samrala 2(s)	1.99	2.66	1.47	1.07
522	Punjab	Ludhiana	Sanewal-Pz	1.54		0.68	0.60
523	Punjab	Ludhiana	Sangatpura-Pz	0.72		-1.04	-0.86
524	Punjab	Ludhiana	Sherian	0.09	-0.00	-0.12	-0.22
525	Punjab	Ludhiana	Sherpur-Pz	1.06		0.07	0.58
526	Punjab	Ludhiana	Sidhwan Bet-Pz	0.95	3.46	1.57	2.23
527	Punjab	Ludhiana	Talwandi Kalan-Pz	2.70		1.01	1.18
528	Punjab	Ludhiana	Udonwal-Pz	0.94		-0.07	0.22
529	Punjab	Ludhiana	Upplan	0.44		-0.42	-0.52
530	Punjab	Ludhiana	Utlan	-2.59		-2.53	
531	Punjab	Mansa	Aklia-Pz	2.86		2.32	
532	Punjab	Mansa	Alampur Mandran-Pz	1.70		-0.20	
533	Punjab	Mansa	Alisher Khurd-Pz	2.08		1.52	
534	Punjab	Mansa	Bahadur Pur-Pz	3.15		2.87	
535	Punjab	Mansa	Bareh-Pz	0.55		-0.76	
536	Punjab	Mansa	Behniwala-Pz	0.56			
537	Punjab	Mansa	Bhamme Kalan-Pz	0.48		0.31	
538	Punjab	Mansa	Bhikhi 1 (s)	-1.08	1.87	2.61	
539	Punjab	Mansa	Bhikhi 2 (s)	4.31		4.30	5.04
540	Punjab	Mansa	Budhlada				5.31
541	Punjab	Mansa	Budhlada-Pz	2.84			3.68
542	Punjab	Mansa	Burj Bhalaike	-0.00	0.78	1.36	0.77
543	Punjab	Mansa	Burj Rathi-Pz	1.45		1.71	
544	Punjab	Mansa	Fattamaluka	0.12	0.74	0.44	0.79
545	Punjab	Mansa	Gharangne-Pz	0.75		0.10	
546	Punjab	Mansa	Hero Kalan-Pz	4.24		1.41	
547	Punjab	Mansa	Hirke-Pz	1.97		2.29	

548	Punjab	Mansa	Jhanda Khurd Pz			16.86	15.73
549	Punjab	Mansa	Joga -Dp-PZ			7.98	
550	Punjab	Mansa	Junniar			0.36	
551	Punjab	Mansa	Khiala Kalan-Pz	1.51		0.59	
552	Punjab	Mansa	Khokhar Kalan-Pz	0.15		-0.31	
553	Punjab	Mansa	Kot Dhamru	0.48	0.91	1.21	
554	Punjab	Mansa	Kotra	3.88	3.94	4.63	
555	Punjab	Mansa	Kusla-Pz	0.77		1.18	
556	Punjab	Mansa	Lakhiwal-Pz	1.49		1.27	
557	Punjab	Mansa	Makha-[PZ	0.60		0.07	
558	Punjab	Mansa	Mansa			1.03	
559	Punjab	Mansa	Phaphare Bhaike-Pz	1.95		1.56	
560	Punjab	Mansa	Raipur-Pz	0.12	-0.55	0.17	0.12
561	Punjab	Mansa	Ralla	4.15	4.71	4.54	4.59
562	Punjab	Mansa	Tibbi Hari Singh-PZ	0.65		0.96	
563	Punjab	Moga	Baje Ke-Pz	0.59	2.83	1.60	0.57
564	Punjab	Moga	Budh Singh Wala-Pz		3.38	4.10	4.31
565	Punjab	Moga	Bilaspur-PZ	0.83			1.57
566	Punjab	Moga	Budh Singh Wala-Pz	3.07			
567	Punjab	Moga	Chand Nawan-PZ	0.73			3.40
568	Punjab	Moga	Chogawan-Pz	1.07	3.09	6.78	2.55
569	Punjab	Moga	Dagru- Pz	0.67	1.72	6.52	3.15
570	Punjab	Moga	Damru Khurd	8.13	4.34	9.99	4.22
571	Punjab	Moga	Darapur 07pz		0.45	11.49	
572	Punjab	Moga	Daulatpur Niwan-Pz	2.52			4.52
573	Punjab	Moga	Dhudi Ke-PZ	0.83			
574	Punjab	Moga	Dinna-PZ	1.19			5.82
575	Punjab	Moga	Himatpura-Pz	3.66			
576	Punjab	Moga	Indergarh-Pz	-0.02		1.66	1.22
577	Punjab	Moga	Jhandewala-Pz	2.66			
578	Punjab	Moga	Kamalke-Pz	1.13		0.22	0.13
579	Punjab	Moga	Khokri Kalan-Pz	3.17			
580	Punjab	Moga	Khosa Randhir-Pz	1.06		-4.14	-0.33
581	Punjab	Moga	Mandar-Pz	1.79		1.40	0.75
582	Punjab	Moga	Mangewala-Pz	2.40			3.43
583	Punjab	Moga	Meemana-PZ	0.78			6.02
584	Punjab	Moga	Mehron-PZ	1.52			5.19
585	Punjab	Moga	Nathu Wala-Pz	1.31		1.01	
586	Punjab	Moga	Nihalsinghwala-Pz	4.27	4.07	3.93	3.63

587	Punjab	Moga	Samad Bhai-Pz	1.68		0.32	
588	Punjab	Moga	Samalsar-Pz	2.97		4.98	
589	Punjab	Moga	Thathe Bhai-Pz	2.00			
590	Punjab	Moga	Raonke Kalan-Pz				5.74
591	Punjab	Moga	Tota Singh Wala-Pz	1.37		0.58	-0.25
592	Punjab	Muktsar	Abulkharana-Pz	0.60		0.18	
593	Punjab	Muktsar	Alam Wala			1.35	
594	Punjab	Muktsar	Balocha Khera(rasoolpur)	0.18	0.25	0.59	0.21
595	Punjab	Muktsar	Bhaliana	1.55	1.71	2.11	1.57
596	Punjab	Muktsar	Bhiti Wala-Pz	1.52		1.24	
597	Punjab	Muktsar	Chakmaan-Pz			-0.60	
598	Punjab	Muktsar	Chaktam Kot-Pz	-0.10		0.63	
599	Punjab	Muktsar	Dhalkot-Pz	-0.23		0.66	
600	Punjab	Muktsar	Doda	0.17	-0.71	-0.83	-0.18
601	Punjab	Muktsar	Doda-Pz	0.50	-0.60	0.24	0.20
602	Punjab	Muktsar	Husnar-Pz	0.13		-0.45	
603	Punjab	Muktsar	Jandwala-Pz			-0.47	
604	Punjab	Muktsar	Jhurar-Pz			0.34	
605	Punjab	Muktsar	Kabar Wala	0.43	1.42	0.86	-0.11
606	Punjab	Muktsar	Kattianwali-Pz	0.29	-0.36		
607	Punjab	Muktsar	Kuttianwali			2.06	-0.23
608	Punjab	Muktsar	Khirkian Wala-Pz	0.16			
609	Punjab	Muktsar	Khunde Halal-Pz	-0.19		-0.35	0.05
610	Punjab	Muktsar	Kollian Wali-pz	0.57		0.75	
611	Punjab	Muktsar	Kot Bhai- DW			0.70	
612	Punjab	Muktsar	Labanianwali	0.84	0.69	0.17	0.08
613	Punjab	Muktsar	Lambi	0.96	-0.18		18.83
614	Punjab	Muktsar	Lambi-Pz	0.21		-0.19	-0.31
615	Punjab	Muktsar	Muktsar	0.35	0.59	0.66	1.09
616	Punjab	Muktsar	Phulu Khera-Pz	0.85		0.23	
617	Punjab	Muktsar	Ratta Khera Chota-Pz	-0.25		0.51	
618	Punjab	Muktsar	Sehna khera-Pz			0.17	
619	Punjab	Muktsar	Sohiwal-Pz			1.26	
620	Punjab	Muktsar	Sheikh-Pz	0.75		0.28	
621	Punjab	Pathankot	Bamyal	-0.37			-0.42
622	Punjab	Pathankot	Bhoa	-0.07	-0.29		-0.05
623	Punjab	Pathankot	Dhar Khurd			-0.20	
624	Punjab	Pathankot	Gharotakalan	-0.18		-0.68	-0.04
625	Punjab	Pathankot	Ghoh DW	-0.87	-2.38	-5.98	

626	Punjab	Pathankot	Jainpur-PZ	0.00		-1.75	-0.83
627	Punjab	Pathankot	Jandwala	3.00		-4.80	-2.93
628	Punjab	Pathankot	Jhakolahri	-0.93	0.58	-1.12	-0.23
629	Punjab	Pathankot	Khanikhui	-0.29		-0.27	-0.20
630	Punjab	Pathankot	Khogaki Chaka-PZ	-0.85		-1.55	-1.30
631	Punjab	Pathankot	Kiari- DW	1.66		-0.73	-1.04
632	Punjab	Pathankot	Kirian Khurd-PZ	0.65		-2.23	-1.40
633	Punjab	Pathankot	Kui-DW	-0.95	-2.15	-0.73	-1.46
634	Punjab	Pathankot	Kuther-PZ	2.20		-3.48	-4.58
635	Punjab	Pathankot	Malikpur			0.20	
636	Punjab	Pathankot	Matti-PZ	-0.90		-9.35	-5.93
637	Punjab	Pathankot	Mirthal	-0.18		-2.21	
638	Punjab	Pathankot	Mirthal-DW			0.45	-2.07
639	Punjab	Pathankot	Muthi			0.30	
640	Punjab	Pathankot	Narot Jaimalsingh-Pz	1.09		-0.68	-0.53
641	Punjab	Pathankot	Nawan Pind	0.30	1.45	0.64	0.73
642	Punjab	Pathankot	Parmota-DW	-0.77	-0.77	-3.04	-1.67
643	Punjab	Pathankot	Pathankot1	-0.52		-0.47	-0.61
644	Punjab	Pathankot	Philora-PZ	-0.95		-1.33	-1.15
645	Punjab	Pathankot	Phulpiara			0.20	
646	Punjab	Pathankot	Rakawal-PZ	0.60		-1.00	-0.45
647	Punjab	Pathankot	Rani Pur-PZ	2.95		-3.65	-2.85
648	Punjab	Pathankot	Sarna	0.19		-3.83	0.41
649	Punjab	Pathankot	Sarna1		1.00		
650	Punjab	Pathankot	Sujanpur-PZ	-0.60		-1.63	-0.18
651	Punjab	Patiala	Bhankhar-Pz	5.00			1.31
652	Punjab	Patiala	Bhora-Pz	6.27		4.68	
653	Punjab	Patiala	Bhunerheri-Pz	7.19		6.45	
654	Punjab	Patiala	Bassma Pipla			0.65	0.68
655	Punjab	Patiala	Bhojo majri 07pz		5.55	5.31	5.18
656	Punjab	Patiala	Birkauli	4.88		4.53	4.58
657	Punjab	Patiala	Challeta-PZ	1.43	7.06	0.88	-0.23
658	Punjab	Patiala	Devigarh 1Pz	6.54		6.78	6.78
659	Punjab	Patiala	Devigarh IIPz				6.44
660	Punjab	Patiala	Devigarh IIPz				6.88
661	Punjab	Patiala	Dhaneta-PZ	2.05		3.10	1.63
662	Punjab	Patiala	Gharam-PZ	2.95		4.08	4.75
663	Punjab	Patiala	Gulwatti-PZ	2.48		3.85	3.20
664	Punjab	Patiala	Jainagar-PZ	1.15		-1.00	-2.35

665	Punjab	Patiala	Kakrala-Pz	11.75			
666	Punjab	Patiala	Kalyan 07pz	4.96	6.01	4.73	4.00
667	Punjab	Patiala	Kami Kalan	-1.54	-0.11	-2.70	-1.22
668	Punjab	Patiala	Kami Khurd-PZ	1.25		3.25	0.78
669	Punjab	Patiala	Kheri Pandte-PZ	2.00		3.38	-3.45
670	Punjab	Patiala	Kulburcha-Pz	6.25		6.90	5.38
671	Punjab	Patiala	Kutha Kheri-Pz	4.97	-0.63	4.68	3.00
672	Punjab	Patiala	Lacharu Kalan	1.31	6.22	-2.05	-1.50
673	Punjab	Patiala	Lachkani-Pz	3.80		3.38	3.11
674	Punjab	Patiala	Mehmood Pur-PZ	0.90		1.25	1.85
675	Punjab	Patiala	Mongowal-PZ	1.43		1.28	1.10
676	Punjab	Patiala	Nanhera-Pz	3.09		1.48	1.99
677	Punjab	Patiala	Nariana			0.22	
678	Punjab	Patiala	Passiana-PZ	1.30		1.38	0.70
679	Punjab	Patiala	Patran-Pz	4.64		5.37	5.98
680	Punjab	Patiala	Rajpura-PzSt	0.21	-7.41	-1.69	-0.10
681	Punjab	Patiala	Rakhra-Pz	7.16		4.86	
682	Punjab	Patiala	Randhawa-Pz	11.15		7.77	
683	Punjab	Patiala	Rasoolpur Jaura-PZ	0.95	4.77	1.00	-0.20
684	Punjab	Patiala	Samana-Pz	4.94	4.77	4.97	5.15
685	Punjab	Patiala	Samaspur-Pz	2.31	3.00	3.56	3.12
686	Punjab	Patiala	Sangatpura-Pz	4.55		1.78	4.12
687	Punjab	Patiala	Sauja-PZ	1.63		1.75	1.33
688	Punjab	Patiala	Surala Kalan-PZ	-0.43		-0.78	-1.28
689	Punjab	Patiala	Thua	4.61		4.80	3.75
690	Punjab	Rupnagar	Ahmedpur	3.20	2.82		1.45
691	Punjab	Rupnagar	Amrali-PZ	0.65		1.18	1.16
692	Punjab	Rupnagar	Attari-PZ	0.35		-0.90	-0.50
693	Punjab	Rupnagar	Badali-Pz	6.75			
694	Punjab	Rupnagar	Bains	2.35	-0.98	1.30	0.85
695	Punjab	Rupnagar	Bera Chauta	-0.53		-1.57	-0.77
696	Punjab	Rupnagar	Bhatto-PZ	0.18		-2.90	-1.68
697	Punjab	Rupnagar	Bhalan		1.02	-0.41	0.20
698	Punjab	Rupnagar	Braham Pur	0.56	0.51	-1.03	-0.78
699	Punjab	Rupnagar	Chakdera	-0.50	-2.50	-0.60	0.32
700	Punjab	Rupnagar	Chatamli- Pz	5.63	4.65	1.90	3.79
701	Punjab	Rupnagar	Dhair	3.33	-0.22	2.33	0.07
702	Punjab	Rupnagar	Dumewal			0.30	1.41
703	Punjab	Rupnagar	Hardinamoh	0.25	-0.13	0.34	0.25

704	Punjab	Rupnagar	Kakrali			-0.48	-1.35
705	Punjab	Rupnagar	Klwan-PZ	0.80		-0.05	0.18
706	Punjab	Rupnagar	Kotla	-0.83			0.45
707	Punjab	Rupnagar	Morinda-PZ	0.80		1.02	0.63
708	Punjab	Rupnagar	Rajgiri-PZ	3.45		0.45	-0.30
709	Punjab	Rupnagar	Rurki Heeran-Pz	2.33	1.94	1.90	0.92
710	Punjab	Rupnagar	Salempur	2.70		2.95	
711	Punjab	Rupnagar	Singh Bhagwant Pur	4.90		5.10	
712	Punjab	Sangrur	Bagarian-Pz	2.31	4.29	3.12	3.32
713	Punjab	Sangrur	Bakshiwala-PZ	2.48		2.63	2.18
714	Punjab	Sangrur	Banbhaura-PZ	1.23			1.13
715	Punjab	Sangrur	Bhogiwal- Pz	6.42			
716	Punjab	Sangrur	Bhojowali-Pz	5.71	4.40	4.61	4.30
717	Punjab	Sangrur	Bhunerheri-PZ			3.60	2.85
718	Punjab	Sangrur	Bopla-PZ	1.39			
719	Punjab	Sangrur	Bugra 1	8.89		6.95	
720	Punjab	Sangrur	Chatha Nanhera-PZ	0.83		1.28	0.78
721	Punjab	Sangrur	Chural Kalan M	6.81	7.39	7.34	8.11
722	Punjab	Sangrur	Dharamgarh-Pz	8.27		9.14	6.65
723	Punjab	Sangrur	Ghanauri Kalan-Pz	2.95	1.42	3.65	3.37
724	Punjab	Sangrur	Haryao-DW			10.83	11.37
725	Punjab	Sangrur	Hassanpur-Pz	6.51		6.47	6.26
726	Punjab	Sangrur	Kala Jhar-Pz	7.21		7.12	6.57
727	Punjab	Sangrur	Khanpur Fakiran-PZ	2.45		2.45	2.75
728	Punjab	Sangrur	Kheri Naran-PZ	2.78		3.18	2.03
729	Punjab	Sangrur	Khurni-PZ	3.10		2.60	2.03
730	Punjab	Sangrur	Kila Hakima	1.70		2.45	1.60
731	Punjab	Sangrur	Kokahar-PZ	1.60		2.35	0.78
732	Punjab	Sangrur	Kuler Khurd-Pz	5.64		6.31	5.91
733	Punjab	Sangrur	Ladda-Pz	6.75	5.51	5.68	6.04
734	Punjab	Sangrur	Lehal Kalan-Pz	6.94		7.36	6.54
735	Punjab	Sangrur	Longowal-Pz	4.86	5.26	4.16	5.32
736	Punjab	Sangrur	Malerkotla	2.32			
737	Punjab	Sangrur	Malerkotla-DW	7.43		7.20	7.84
738	Punjab	Sangrur	Manvi-Pz	3.90	3.76	2.40	7.32
739	Punjab	Sangrur	Minsa-Pz	8.92			
740	Punjab	Sangrur	Panjgaraian- Pz	6.53		6.66	5.67
741	Punjab	Sangrur	Rajo Majra-PZ	1.83		0.70	1.50
742	Punjab	Sangrur	Rampur Channa-Pz	5.03		6.04	4.16

743	Punjab	Sangrur	Rurgarh-PZ	2.06		1.79	1.00
744	Punjab	Sangrur	Rurki Kalan-Pz	5.15		5.24	3.89
745	Punjab	Sangrur	Sekhpur Khurd-PZ	1.55		1.15	0.78
746	Punjab	Sangrur	Sekhwas-PZ	2.40		2.75	1.68
747	Punjab	Sangrur	Sikandarpur-PZ	1.15		1.50	1.13
748	Punjab	Sangrur	Sunam-Pz	4.16	6.30	4.60	5.02
749	Punjab	SAS Nagar	Antala	0.68	1.82	-0.30	-0.57
750	Punjab	SAS Nagar	Balongi-PZ	1.10		-1.00	-1.45
751	Punjab	SAS Nagar	Barauli-PZ	-4.70		-3.25	-3.85
752	Punjab	SAS Nagar	Chandiala-Pz	2.23		-0.40	-2.07
753	Punjab	SAS Nagar	Dera Bassi 07pz	2.37	-0.34	-0.69	-0.20
754	Punjab	SAS Nagar	Dheri	0.37	0.84	0.04	-0.03
755	Punjab	SAS Nagar	Gharoon	-0.17		-5.36	-4.36
756	Punjab	SAS Nagar	Ghoga	-0.09	-0.82	-1.40	-1.07
757	Punjab	SAS Nagar	Gholu majra 07pz	2.18		25.53	-0.86
758	Punjab	SAS Nagar	Joli	3.75	-0.08	-1.07	-0.06
759	Punjab	SAS Nagar	Kurrha-Pz	2.88		-0.83	
760	Punjab	SAS Nagar	Landran-Pz	0.29	-1.05	1.46	
761	Punjab	SAS Nagar	Malkpur-Pz	-0.58		-2.15	
762	Punjab	SAS Nagar	Manoli-PZ	1.25		0.83	0.33
763	Punjab	SAS Nagar	Mirpur-Pz	23.87		-2.28	26.96
764	Punjab	SAS Nagar	Palheri-PZ	-2.26		0.00	-3.05
765	Punjab	SAS Nagar	Pedol-PZ	1.90		-0.69	0.03
766	Punjab	SAS Nagar	Raipur Kalan	1.19		5.11	-1.03
767	Punjab	SAS Nagar	Singhpura-Pz	8.94		-0.20	5.72
768	Punjab	SAS Nagar	Sirsini	0.74	-0.31	1.40	-0.46
769	Punjab	SAS Nagar	Sundran-Pz	-0.46		-0.50	
770	Punjab	SBS Nagar	Alowal-Pz	0.55		0.08	0.20
771	Punjab	SBS Nagar	Aur-PZ	1.90		1.25	0.65
772	Punjab	SBS Nagar	Badhwan-Pz	3.77		0.50	-0.38
773	Punjab	SBS Nagar	Baharam-Pz			3.58	0.83
774	Punjab	SBS Nagar	Bahara-Pz	2.70		0.80	0.74
775	Punjab	SBS Nagar	Bahlora Kallan- Pz	1.45		0.07	0.31
776	Punjab	SBS Nagar	Bahua-Pz	3.74		4.06	1.03
777	Punjab	SBS Nagar	Balachore			-2.27	-1.80
778	Punjab	SBS Nagar	Balaipur-PZ	3.90		0.90	
779	Punjab	SBS Nagar	Banga-Pz			-2.05	
780	Punjab	SBS Nagar	Bhadi-PZ	2.70		-1.65	-2.90
781	Punjab	SBS Nagar	Dhan Wala-PZ	3.80		3.45	0.50

782	Punjab	SBS Nagar	Dugri Garol-PZ	-0.10		-1.60	0.05
783	Punjab	SBS Nagar	Hakimpur-Pz	2.51		1.08	-0.27
784	Punjab	SBS Nagar	Jethu Majra-PZ	1.80		0.73	0.20
785	Punjab	SBS Nagar	Kariam-Pz	1.86		1.76	1.61
786	Punjab	SBS Nagar	Langoya-PZ	1.50		0.45	0.20
787	Punjab	SBS Nagar	Mahalpur-PZ	0.73		1.25	-0.10
788	Punjab	SBS Nagar	Mauhra-Pz	1.97	3.85	1.43	2.04
789	Punjab	SBS Nagar	Padmaiwal-PZ	3.60		-1.00	-1.70
790	Punjab	SBS Nagar	Raipur Dhaba-Pz	3.56			2.17
791	Punjab	SBS Nagar	Rahon		0.58	3.59	1.30
792	Punjab	SBS Nagar	Ramgarh-Pz	3.03		1.90	
793	Punjab	SBS Nagar	Saroya-Pz	-0.50		1.83	
794	Punjab	Taran Taran	Aima Khurd-Pz	1.52		1.13	0.47
795	Punjab	Taran Taran	Aminshah Khalra			8.10	8.27
796	Punjab	Taran Taran	Attari-Pz	-2.30		-1.33	-1.71
797	Punjab	Taran Taran	Bahla-Pz	13.42			
798	Punjab	Taran Taran	Bakipur-Pz	0.54		0.69	4.10
799	Punjab	Taran Taran	Bath-Pz	1.81		2.69	3.12
800	Punjab	Taran Taran	Bhagala-Pz	0.24		4.43	
801	Punjab	Taran Taran	Bhagwanpur-Pz	2.04		1.86	2.53
802	Punjab	Taran Taran	Bhalaipur-Pz	0.55			0.94
803	Punjab	Taran Taran	Bhankar Kalan-Pz	4.12		1.79	1.68
804	Punjab	Taran Taran	Bhikiwind- Pz	2.01	2.27	2.14	2.39
805	Punjab	Taran Taran	Bhura-Pz	1.27		2.12	
806	Punjab	Taran Taran	Bhure-Pz	4.49		4.19	4.35
807	Punjab	Taran Taran	Bhusse-Pz	0.65		-0.28	1.49
808	Punjab	Taran Taran	Brahmpur-Pz	0.37		3.55	3.54
809	Punjab	Taran Taran	Chabal 07	0.92		1.50	0.52
810	Punjab	Taran Taran	Chakkare Khan-Pz	1.03		1.53	1.86
811	Punjab	Taran Taran	Chola Sahib-Pz	1.85	4.08	2.47	1.84
812	Punjab	Taran Taran	Chuselawad-Pz	3.40		3.97	5.49
813	Punjab	Taran Taran	Dholan-Pz	-0.03			
814	Punjab	Taran Taran	Ekalgoda-Pz	1.40		0.93	1.18
815	Punjab	Taran Taran	Fatehabad- PZ	1.25		1.10	0.85
816	Punjab	Taran Taran	Gandi Wind-Pz	2.27	2.75	2.40	2.47
817	Punjab	Taran Taran	Goindwal 07		1.23	1.45	0.45
818	Punjab	Taran Taran	Jalalabad-PZ			-0.80	
819	Punjab	Taran Taran	Jandoke-Pz	2.42		3.23	3.56
820	Punjab	Taran Taran	Kairon-PZ	1.30		1.00	1.60

821	Punjab	Taran Taran	Kalsia Kalan07	1.72	2.38	0.51	2.70
822	Punjab	Taran Taran	Khadur Sahib-Pz	1.64	1.39	0.95	1.05
823	Punjab	Taran Taran	Khalra-Pz	1.63		0.85	1.50
824	Punjab	Taran Taran	Kotbudda-Pz	1.23		-0.51	0.13
825	Punjab	Taran Taran	Kotli Sur Singh-Pz	0.41		0.57	1.10
826	Punjab	Taran Taran	Mahendipur-Pz	0.63			
827	Punjab	Taran Taran	Marhona-Pz	-0.88		2.63	2.57
828	Punjab	Taran Taran	Mari Kamboke-Pz	3.07		1.51	2.68
829	Punjab	Taran Taran	Mohawa	1.28		1.16	
830	Punjab	Taran Taran	Pindan-Pz	0.18		0.93	0.91
831	Punjab	Taran Taran	Rajoke-Pz	0.47		-0.37	1.38
832	Punjab	Taran Taran	Ratoke-Pz	2.39	2.36	4.64	4.03
833	Punjab	Taran Taran	Sabran-Pz	5.63		4.35	7.23
834	Punjab	Taran Taran	Sahab Pura- Pz	2.04	3.36	2.00	1.95
835	Punjab	Taran Taran	Sheron-Pz	3.15		2.95	2.94
836	Punjab	Taran Taran	Sugga-Pz	1.98		2.15	2.45

Annexure V

Results of chemical analysis of water samples from GWMS in Punjab (2018)

S. No	*District*	Block	Location	Source	pH*	EC* in µS/cm at 25^{0}C	CO_3	HCO_3	Cl*	SO_4	NO_3*	F*	PO_4	Ca*	Mg*	Na	K	SiO_2	TH *as $CaCO_3$	SAR	RSC in meq/l
1	Amritsar	Rayya	Beas	TW	8.44	595	37	164	49	BDL	25	0.30	<0.10	28	22	54	6.4	28	162	1.86	0.71
2	Amritsar	Jandiala	Jandiala	TW	8.39	668	37	301	35	BDL	8.39	0.51	<0.10	24	27	88	8.5	27	172	2.93	2.75
3	Amritsar	Chogawan	Chogawan	TW	8.17	474	0	314	21	BDL	<0.2	0.07	<0.10	40	22	37	6.2	28	192	1.17	1.34
4	Amritsar	Ajnala	Ajnala	TW	8.26	1774	0	578	139	215	0.74	0.12	<0.10	32	25	304	31	21	182	9.78	5.82
5	Amritsar	Ajnala	Gogamahal	TW	8.23	1798	0	578	139	215	1.94	0.07	<0.10	36	20	309	31	21	172	10.25	6.03
6	Amritsar	Ajnala	Ramdas	HP	8.29	718	0	440	21	BDL	<0.20	0.31	<0.10	24	22	110	4.8	16	152	3.90	4.20
7	Amritsar	Verka	Amritsar	TW	8.09	969	0	289	111	53	93	0.24	<0.10	65	34	97	14	23	303	2.43	-1.30
8	Amritsar	Tarike	Nayatandel	TW	8.28	419	0	214	28	BDL	0.67	0.24	<0.10	36	27	15	8.0	21	182	0.46	-0.51
9	Amritsar	Rayya	Mehta	TW	8.44	461	49	226	28	BDL	<0.20	0.35	<0.10	32	34	40	5.1	28	202	1.17	0.94
10	Amritsar	Ajnala	Urdhan	TW	8.52	847	50	239	56	65	31	0.47	<0.10	32	22	132	4.2	23	172	4.40	2.18
11	Amritsar	Amritsar	Daburji	TW	8.31	622	37	301	21	BDL	18	0.54	<0.10	40	39	53	8.0	7	243	1.43	0.96
12	Barnala	Sehna	Bhadaur	TW	8.34	1187	37	139	83	282	1.63	0.28	<0.10	28	15	203	7.4	15	132	7.70	0.88
13	Barnala	Barnala	Barnala M	TW	8.15	1039	0	503	49	65	13	0.72	<0.10	20	32	171	7.5	24	182	5.52	4.61
14	Barnala	Mahal kalan	Mahal kalan	TW	8.28	789	0	427	28	BDL	23	0.36	<0.10	24	42	81	7.7	10	233	2.31	2.35
15	Bathinda	Bathinda	Ablu	HP	8.12	877	0	165	85	163	34	0.17	<0.10	30	30	96	39	27	200	2.97	-1.26
16	Bathinda	Bathinda	Ganga	TW	Leaked	Leaked	Leaked	Leaked	Leaked	Leaked	Leaked	Leaked	Leaked	Leaked	Leaked	Leaked	Leaked	Leaked	Leaked	Leaked	Leaked
17	Bathinda	Sangat	Jassibhagwali	HP	8.02	1063	0	293	177	226	185	0.30	<0.10	24	80	223	9.0	27	390	4.92	-2.97
18	Bathinda	Sangat	Sangatkala	HP	8.02	446	0	226	18	19	5.6	0.48	<0.10	28	34	12	5.5	17	210	0.36	-0.49
19	Bathinda	Sangat	Ghudda	TW	8.23	291	0	122	14	23	0.81	0.25	<0.10	30	13	8.0	1.1	10	130	0.31	-0.57
20	Bathinda	Sangat	Raikekala	HP	8.18	296	0	110	14	39	0.88	0.19	<0.10	36	13	5.7	0.2	4.5	145	0.21	-1.06
21	Bathinda	Bathinda	Balluana	HP	8.51	2230	66	543	284	342	4.76	0.53	<0.10	10	34	305	396	24	165	10.34	7.80
22	Bathinda	Bathinda	Deratappa	HP	8.36	362	18	115	21	12	<0.20	0.65	<0.10	40	13	8.5	3.3	21	115	0.30	-0.58

23	Bathinda	Bathinda	Nahiyanwala	HP	8.60	1284	48	298	102	192	50	0.53	<0.10	4.0	68	117	128	25	254	2.98	0.69
24	Bathinda	Bathinda	Khialiwala	TW	8.58	2290	54	384	184	453	10	0.83	<0.10	12	39	428	7.5	23	190	13.51	4.29
25	Bathinda	Bathinda	Gulabgad	TW	8.08	4390	0	445	485	1633	4.74	1.03	<0.10	42	319	942	68	18	555	10.89	-21.04
26	Bathinda	Bathinda	Kotsamir	TW	8.34	2470	48	531	184	489	69	4.10	<0.10	16	38	441	133	25	195	13.70	6.38
27	Bathinda	Rampura	Kailabander	TW	8.00	3210	0	378	414	645	273	1.03	<0.10	44	111	481	120	28	565	8.79	-5.13
28	Bathinda	Talwandisabo	Bhagibander	TW	8.17	377	0	128	21.27	61	0.71	0.83	<0.10	14	13	49.1	2.3	21	90	2.27	0.33
29	Bathinda	Talwandisabo	Jajjal	TW	8.33	1492	30	733	159	408	71	0.46	<0.10	26	54	163	139	19	285	4.19	7.27
30	Bathinda	Phul	Gurusar	HP	7.90	1522	0	421	141	268	44	1.09	<0.10	34	133	100	14.8	22	630	1.73	-5.73
31	Bathinda	Talwandisabo	Maiserkhana	DW	8.38	1569	60	330	138	BDL	58	3.10	0.15	42	44	29	69	23	285	0.73	1.69
32	Bathinda	Rampura	Jhanduke	TW	8.35	1035	30	275	89	156	29	0.62	<0.10	10	40	176	4.0	26	190	5.56	1.72
33	Bathinda	Phul	Rampura	TW	8.10	1434	0	378	131	454	14	0.60	<0.10	8.0	69	262	8.0	24	300	6.54	0.12
34	Bathinda	Phul	Phul	TW	8.31	1648	24	427	194	272	42	0.57	<0.10	18	56	298	36	22	275	7.81	2.29
35	Bathinda	Phul	Dhapali	DW	8.39	1086	30	439	38	89	14	0.89	<0.10	12	30	194	0.6	18	155	6.83	5.13
36	Bathinda	Nathana	Phulla	TW	8.29	1035	0	348	60	145	6.44	0.55	<0.10	14	30	174	0.4	20	160	6.03	2.54
37	Bathinda	Nathana	Dialpurmirza	TW	8.76	2018	84	513	148	498	56	2.95	<0.10	4.0	36	444	9.5	25	160	15.35	8.05
38	Bathinda	Rampura	Kothoguru	TW	8.91	1142	102	567	128	309	22	1.15	<0.10	4.0	36	451	18	23	160	15.61	9.53
39	Bathinda	Phul	dialpur bhlaike	TW	8.91	1142	72	421	28	186	18	3.15	<0.10	4.0	17	291	16	26	80	14.16	7.70
40	Bathinda	Rampura	Badiala	TW	8.60	1902	36	220	184	518	<0.2	0.80	<0.10	36	40	358	12.5	20	255	9.77	-0.28
41	Bathinda	Zira	Lohri	TW	9.21	3150	228	1050	252	270	53	3.15	0.12	2.0	29	827	17	18	125	32.27	22.32
42	Faridkot	Kotakpura	Bajakhana	DW	8.56	3130	72	659	227	821	40	1.54	<0.10	14	29	782	22	19	155	27.39	10.12
43	Faridkot	Faridkot	Dalsinghwala	TW	8.13	321	0	110	18	67	1.25	0.18	<0.10	40	19	6.3	1.0	2.7	180	0.21	-1.76
44	Faridkot	Kotakpura	Matta	TW	8.62	1933	60	414	234	292	44	1.46	<0.10	20	86	264	84	22	405	5.72	0.71

45	Faridkot	Kotakpura	Kotakpura	TW	7.89	177	0	55	18	22	0.47	<0.05	<0.10	4.0	6.0	27	2.3	12	35	2.02	0.21
46	Faridkot	Kotakpura	Moharewala	HP	8.51	1420	66	396	42	230	62	0.98	<0.10	18	16	311	11	21	110	12.86	6.48
47	Faridkot	Faridkot	Deepsinghwala	HP	8.76	1296	42	360	50	260	18	0.53	<0.10	8.0	12	289	24	14	70	15.10	5.91
48	Faridkot	Faridkot	Jandsahib	DW	8.26	3070	0	592	298	740	47	0.96	<0.10	26	51	647	32	18	275	16.98	4.21
49	Faridkot	Faridkot	Chandbaja	TW	8.88	2030	66	366	131	345	121	4.40	<0.10	6.0	52	376	17	19	230	10.81	3.62
50	Faridkot	Faridkot	Tehna	TW	8.38	1216	24	232	85	311	12	2.62	<0.10	24	26	229	22	13	165	7.71	1.27
51	Faridkot	Faridkot	Deviwala	TW	8.50	1085	42	244	57	399	8.45	2.30	<0.10	24	35	158	22	15	205	4.81	1.32
52	Faridkot	Faridkot	Arianwala	HP	8.33	1935	12	79	368	305	33	0.26	<0.10	40	44	294	26	20	280	7.63	-3.92
53	Faridkot	Faridkot	Nawankillu	TW	8.69	871	42	226	50	56	14.58	0.77	<0.10	14	32	100	147	14	165	3.37	1.77
54	Faridkot	Faridkot	Sukhanwala	TW	8.65	4078	66	439	798	187	162	0.94	<0.10	12	97	680	19.4	25	430	14.28	0.82
55	Faridkot	Kotakpura	Waradharaka	TW	8.18	312	0	183	14	BDL	0.83	0.10	<0.10	36	9	23.1	1.3	5	125	0.89	0.46
56	Faridkot	Kotakpura	Beedsikhanwala	HP	8.29	290	0	122	14	10	1.31	0.67	<0.10	30	14	4.4	0.2	25	130	0.17	-0.65
57	Faridkot	Faridkot	Nagal	TW	8.53	2038	48	384	181	719	6.18	0.74	<0.10	10	36	548	37	20	175	18.12	4.43
58	Faridkot	kotakpura	Dhilwankla	TW	8.49	3036	78	683	266	639	137	3.65	<0.10	16	32	770	14	23	170	25.58	10.36
59	Faridkot	Faridkot	Sadiqe	TW	8.19	4014	0	281	486	BDL	92	1.84	<0.10	60	80	310	220	21	480	6.16	-4.97
60	Faridkot	Faridkot	Meh muana	HP	7.95	2041	0	256	294	633	25.2	0.67	<0.10	66	64	394	17	8.77	430	8.29	-4.36
61	Faridkot	Faridkot	Shersinghwala	HP	8.05	319	0	146	28	2.4	1.88	0.43	<0.10	30	15	14.7	0.7	24	135	0.55	-0.34
62	Faridkot	Momdot	Killi	HP	8.40	3062	66	793	262	771	4.85	0.05	<0.10	12	29	780	190	17	150	27.78	12.21
63	Faridkot	Faridkot	Mumara	HP	8.54	2014	48	415	160	430	13	0.71	<0.10	8.0	21	451	16	18	105	19.03	6.27
64	Faridkot	Kotakpura	Karirwali	TW	8.45	3004	48	275	319	847	38	1.08	<0.10	26	50	638	14	23	270	16.87	0.70
65	Fatehgarh Sahib	Khera	Badialasingh	TW	8.62	522	72	146	25	12	0.82	0.64	<0.10	8.0	34	61	4.9	18	160	2.10	1.60
66	Fatehgarh Sahib	Bassi Pathana	Bhateri	TW	8.18	514	0	317	14	20	<0.20	0.55	<0.10	24	27	63	2.3	26	170	2.10	1.78

67	Fatehgarh Sahib	Bassi Pathana	Basi Pathna	TW	8.40	727	48	159	88	7	57	0.55	<0.10	24	39	75	7.9	22	220	2.20	-0.20
68	Fatehgarh Sahib	Fatehgarh Sahib	Fatehgarh Sahib	TW	8.60	708	60	171	40	49	37	0.25	<0.10	12	36	78	39	19	180	2.54	1.24
69	Fatehgarh Sahib	Sirhand	Nalini	TW	8.64	655	48	159	60	23	26	0.30	<0.10	16	29	77	7.5	15	160	2.65	1.02
70	Fatehgarh Sahib	Sirhand	Anayatpur	TW	8.84	685	60	257	20	29	<0.20	0.32	<0.10	8.0	24	115	7.4	19	121	4.59	3.84
71	Fatehgarh Sahib	Khera	Chunni Kalan	TW	8.88	725	84	281	14	49	<0.20	3.50	<0.10	8.0	7	175	15	21	50	10.90	6.43
72	Firozpur	Makhu	Jaimalsnghwala	TW	8.48	532	24	207	28	13	<0.20	0.30	<0.10	8.0	9	96	2.0	15	60	5.53	3.05
73	Firozpur	Makhu	Laukka kalan	TW	7.97	1022	0	280	35	302	7.25	0.50	<0.10	56	62	96	3.0	23	395	2.10	-3.30
74	Firozpur	Poghakkhura	Piyarana	TW	8.86	760	42	256	28	81	0.39	0.38	<0.10	6.0	14	153	4.0	22	75	7.81	4.14
75	Firozpur	Fazlika	Shamsinghwala	HP	8.21	1016	0	317	49	256	25	0.67	<0.10	20	75	120	2.0	16	360	2.76	-1.97
76	Firozpur	Mamdot	Malsian	TW	8.58	680	24	183	21	137	7.69	0.24	<0.10	8.0	46	69	5.1	23	212	2.08	-0.38
77	Firozpur	Guruharsahai	Motiwala	TW	8.56	810	24	244	28	150	>0.20	0.08	<0.10	24	36	103	5.7	18	256	3.11	0.64
78	Firozpur	Fazlika	Sbhangarh	DW	8.13	7300	0	720	858	2253	53	3.50	<0.10	52	46	1760	74	21	320	42.87	5.42
79	Firozpur	Jalalabad	Ladhwala	HP	7.94	2510	0	415	206	10	42	0.83	<0.10	48	107	47	17	29	560	0.86	-4.39
80	Firozpur	Guruharsahai	Swahwala	TW	8.64	2041	84	744	135	582	56	8.00	<0.10	12	15	690	10.1	14	91	31.36	13.16
81	Firozpur	Fazilka	Dipulana	HP	8.45	5430	77	756	510	1754	135	0.93	<0.10	24	61	1200	400	14	310	29.61	8.74
82	Firozpur	Khuian serwar	Nihalkhera	HP	8.65	860	36	207	71	116	3.66	0.70	<0.10	24	49	88	23	20	260	2.37	-0.63
83	Firozpur	Aboher	Aboher	TW	7.84	11500	0	281	1744	3354	210	3.50	<0.10	304	325	1960	22	19	2102	18.63	-37.29
84	Firozpur	Khuian serwar	Alamgarh	TW	8.35	340	12	85	14	37	2.8	0.31	<0.10	37	12	11	0.1	4.02	140	0.40	-1.05
85	Firozpur	Khuian serwar	khuvian serwar	HP	8.41	3280	60	232	461	1039	48	1.60	<0.10	40	102	700	52	17	520	13.36	-4.58
86	Firozpur	Khuian serwar	Danewalsatkosi	HP	7.95	3170	0	174	793	642	230	0.83	<0.10	84	97	500	114	25	610	8.82	-9.32
87	Firozpur	Aboher	Sitognno	HP	8.50	540	36	159	28	38	1.49	3.60	<0.10	29	32	48.3	4.6	17	200	1.48	-0.24
88	Firozpur	Guruharsahai	Bannawala	HP	8.36	1020	24	146	142	153	6.33	0.54	<0.10	56	54	85	5.7	18	360	1.94	-4.04

89	Firozpur	Aboher	Kundal	HP	7.75	3780	0	256	681	691	120	0.48	<0.10	120	85	520	194	22	651	8.88	-8.78
90	Firozpur	Aboher	Bazidpur bhoma	HP	8.20	2780	0	696	206	794	65	0.61	<0.10	16	52	650	91	19	250	17.75	6.33
91	Firozpur	Guruharsahai	Nurekeutter	TW	8.38	1356	24	537	35.45	308	28	0.58	<0.10	16	39	310	28	22	200	9.53	5.59
92	Gurdaspur	Dera Baba Nanak	Mullowali	HP	8.20	978	0	530	28	24	<0.20	0.51	<0.10	32	25	150	6.2	14	182	4.83	5.03
93	Gurdaspur	Dera Baba Nanak	Derababananak	HP	8.23	1256	0	528	97	57	28	<0.05	<0.10	36	42	178	11	14	263	4.78	3.40
94	Gurdaspur	Kalanaur	Salechak	HP	8.16	805	0	456	21	BDL	0.26	0.10	<0.10	32	32	90	4.2	21	212	2.69	3.24
95	Gurdaspur	Kalanaur	Kalanour	HP	8.54	525	49	251	28	BDL	10	0.16	<0.10	57	15	37	32	22	202	1.13	1.67
96	Gurdaspur	Dera Baba Nanak	Dhianpur	HP	8.32	1063	86	352	62	BDL	25	0.39	<0.10	24	44	61	140	27	243	1.71	3.82
97	Gurdaspur	Dhariwal	Bhogowal	HP	7098	893	0	352	62	23	60	0.54	<0.10	85	52	31	3.9	25	394	0.65	-2.75
98	Gurdaspur	Dhariwal	Bidipur	HP	8.04	537	0	226	42	72	13	0.20	<0.10	57	34	26	3.6	20	283	0.67	-1.94
99	Gurdaspur	Fatehgarh Chudian	Ganike	HP	7.89	1188	0	427	125	BDL	61	0.41	<0.10	65	47	110	3.8	21	354	2.54	-0.11
100	Gurdaspur	Fatehgarh Chudian	Madipur	TW	8.54	1096	74	377	83	BDL	6.7	0.18	<0.10	28	37	105	100	22	222	3.07	4.21
101	Gurdaspur	Shri Hargovindpur	Dokoha	TW	7.96	602	0	226	49	BDL	70	0.45	<0.10	57	27	29	6.3	16	253	0.79	-1.36
102	Gurdaspur	Shri Hargovindpur	Hargovindpur	TW	8.32	550	25	164	42	BDL	50	0.08	<0.10	53	29	14	3.1	21	253	0.38	-1.51
103	Gurdaspur	Shri Hargovindpur	Bham	TW	8.13	480	0	276	21	BDL	18	0.14	<0.10	77	29	7.0	1.8	18	263	0.17	-1.70
104	Gurdaspur	Qaddian	Aulakhkalan	TW	8.42	219	37	76	21	BDL	<0.20	0.07	<0.10	28	15	12	1.3	6	132	0.46	-0.15
105	Gurdaspur	Qaddian	Harchowal	TW	8.37	285	25	113	21	BDL	13	0.21	<0.10	44	15	1.4	1.8	19	172	0.05	-0.74
106	Gurdaspur	Kahnuwan	Sathiali	TW	8.45	343	37	88	21	BDL	35	0.16	<0.10	40	17	5.7	2.5	29	172	0.19	-0.72
107	Gurdaspur	Dinanagar	Saidowal	HP	8.27	1320	0	490	111	88	23	0.36	<0.10	44	42	134	111	19	263	3.47	2.38
108	Gurdaspur	Dina Nagar	Panduri	HP	9.35	680	99	63	49	53	79	0.41	<0.10	77	27	28	28	32	303	0.70	-1.73
109	Gurdaspur	Dina Nagar	Dinanagar	HP	8.18	824	0	377	69	BDL	20	0.65	<0.10	61	44	49	0.3	21	333	1.17	-0.48
110	Gurdaspur	Dinanagar	Galri	HP	8.27	570	0	339	28	BDL	<0.20	0.14	<0.10	53	34	26	1.2	15	273	0.69	0.11
111	Gurdaspur	Gurdaspur	Gurdaspur		8.54	376	50	126	21	BDL	10	0.31	<0.10	28	39	7.5	2.1	22	212	0.22	-0.87
112	Hoshiarpur	Hazipur	Hajipur	TW	8.68	635	60	195	34	37	17	0.19	<0.10	64	22	55	4.2	23	250	1.51	0.19
113	Hoshiarpur	Hazipur	Nangal Bihala Dw	TW	8.96	520	36	49	40	28	96	0.28	<0.10	36	29	25	2.6	19	210	0.75	-2.18
114	Hoshiarpur	Talwara	Talwara Cgwb	TW	8.55	360	36	98	13	56	8.55	0.19	<0.10	40	17	23	2.7	14	170	0.77	-0.59

115	Hoshiarpur	Talwara	Bhamnnaur	TW	8.00	277	0	72	7	2	12	0.14	<0.10	36	5	14	2.8	23	110	0.58	-1.03
116	Hoshiarpur	Dasua	Durimiwal	TW	9.02	194	36	49	7	BDL	<0.20	0.23	<0.10	16	10	13	2.3	25	80	0.63	0.38
117	Hoshiarpur	Hoshiarpur I	Sham Cahurasi	TW	8.45	500	60	171	14	4	0.57	0.30	<0.10	31	22	70	1.0	22	130	2.35	1.45
118	Hoshiarpur	Hoshiarpur II	Chiohal	TW	8.47	740	24	244	78	8	2.32	0.25	<0.10	24	22	86	47	19	150	3.05	1.79
119	Hoshiarpur	Mahilpur	Thakarwala	TW	8.45	435	36	207	7	9	<0.20	0.23	<0.10	12	32	47	2	26	160	1.61	1.36
120	Hoshiarpur	Mukerian	Mukerian	TW	8.20	370	0	122	28	19	18	0.19	<0.10	32	12	30	8.9	22	130	1.15	-0.58
121	Hoshiarpur	Dasua	Dasuya	TW	8.25	425	0	146	28	5	37	0.14	<0.10	28	22	33	1	21	160	1.13	-0.81
122	Hoshiarpur	Hoshiarpur II	Rampur Colony	TW	8.48	587	24	232	35	11	8.08	0.86	<0.10	20	17	94	2.8	24	120	3.74	2.21
123	Hoshiarpur	Garh Shankar	Garh Shankar	TW	8.75	450	60	159	7	4	<0.20	0.23	<0.10	20	32	40	4.9	18	180	1.29	0.98
124	Hoshiarpur	Bhunga	Adowal Garhi	TW	8.79	203	36	37	14	BDL	<0.20	0.44	<0.10	24	2	15	3	19	70	0.79	0.44
125	Hoshiarpur	Bhunga	Garh Di Wala	TW	8.20	335	0	183	14	4	<0.20	0.23	<0.10	32	20	21	2.7	21	160	0.72	-0.24
126	Hoshiarpur	Hoshiarpur Ii	Phuglana	TW	8.68	385	48	146	7	9	<0.20	0.30	<0.10	20	15	58	1.0	25	110	2.39	1.76
127	Hoshiarpur	Mahilpur	Mahilpur	TW	8.05	427	0	268	14	BDL	5.59	0.37	<0.10	32	19	41	1.4	21	160	1.42	1.23
128	Hoshiarpur	Garh Shankar	Simbli	TW	8.65	658	36	232	43	11	36	0.44	<0.10	12	56	52	2.6	23	260	1.40	-0.20
129	Hoshiarpur	Talwara	Dagaun Dw	TW	8.25	290	0	134	14	BDL	17	0.31	<0.10	32	10	10.1	2.8	17	121	0.40	-0.22
130	Hoshiarpur	Hazipur	Zahorda Kalan	TW	8.20	210	0	98	28	6	5.8	0.23	<0.10	24	5	8.7	3.1	27	80	0.42	0.00
131	Jalandhar	Phillaur	Phillaur	TW	8.31	478	37	264	14	BDL	<0.20	<0.05	<0.10	24	25	59	7.6	25	162	2.01	2.31
132	Jalandhar	Rurka Kalan	Goraya	TW	8.41	582	62	289	14	BDL	13	0.84	<0.10	57	39	27	6.5	28	303	0.68	0.75
133	Jalandhar	Nurmahal	Sarih	TW	8.22	502	0	327	21	BDL	1.77	0.66	<0.10	32	25	57	4.8	22	182	1.83	1.71
134	Jalandhar	Nakodar	Nakodar	TW	8.14	470	0	264	28	BDL	20	0.16	<0.10	32	29	34	5.2	29	202	1.05	0.34
135	Jalandhar	Shahkot	ShahKot	TW	7.82	546	0	314	42	BDL	5.28	0.28	<0.10	53	27	34	5.3	30	243	0.95	0.28
136	Jalandhar	Shahkot	Malsian	TW	8.18	635	0	415	28	BDL	3.5	0.29	<0.10	28	30	90	6.8	24	192	2.82	2.94
137	Jalandhar	Nakodar	Gohiran	HP	8.24	685	0	440	21	BDL	24	0.12	<0.10	36	27	99	6.2	29	202	3.04	3.19
138	Jalandhar	Jalandhar East	Udhopur	HP	7.95	613	0	289	49	BDL	27	0.40	<0.10	40	25	61	5.7	25	202	1.86	0.68
139	Jalandhar	Rurka Kalan	Lallian Kalan	TW	7.88	830	0	339	56	98	1.62	0.10	<0.10	53	32	92	9	28	263	2.46	0.28
140	Jalandhar	Jalandhar West	Khaira Majha	TW	8.22	356	0	251	21	BDL	0.89	0.32	<0.10	44	15	27	3.6	24	172	0.90	0.68
141	Jalandhar	Jalandhar West	Kartarrpur	TW	8.04	315	0	189	14	BDL	8	0.24	<0.10	36	15	14	4.06	25	152	0.49	0.07

142	Jalandhar	Jalandhar	Jalbhe	TW	8.33	1357	25	201	250	106	37	0.55	<0.10	28	12	264	8.6	13	121	10.52	1.74
143	Jalandhar	Adampur	Allowalpur	TW	7.99	808	0	289	49	82	53	0.07	<0.10	40	32	83	9.9	15	233	2.37	0.11
144	Jalandhar	Adampur	Adampur	TW	8.01	1039	0	289	90	77	149	<0.05	<0.10	48	27	148	4.8	22	233	4.24	0.12
145	Jalandhar	Jalandhar City	Jalandhar	TW	8.38	768	37	189	104	37	2.51	0.21	<0.10	32	12	67	6.2	30	253	2.56	1.75
146	Jalandhar	Jalandhar West	Jandiala	TW	8.07	595	0	364	28	BDL	18	0.45	<0.10	32	37	51	8.1	27	233	1.46	1.33
147	Jalandhar	Bhogpur	Kharal Kalan	TW	7.96	638	0	364	21	BDL	0.31	0.24	<0.10	44	25	55	5.8	27	212	1.64	1.71
148	Kapurthala	Phagwara	Phagwara	TW	8.26	511	0	327	35	BDL	5.46	0.27	<0.10	24	30	55	7.2	28	182	1.77	1.69
149	Kapurthala	Kapurthala	Kapurthala	TW	8.18	358	0	264	14	BDL	0.6	0.22	<0.10	40	17	28	3.6	24	172	0.93	0.93
150	Kapurthala	Sultanpur Lo	Dalla	TW	8.19	473	0	339	21	BDL	5.04	0.22	<0.10	32	27	49	5.0	25	192	1.54	1.74
151	Kapurthala	Sultanpur	Sultanpur Lodhi	TW	8.35	480	50	201	28	BDL	<0.20	0.47	<0.10	20	17	78	4.0	20	121	3.10	2.56
152	Kapurthala	Sultanpur	Talwandi Choudhri	TW	8.39	388	37	51	14	85	<0.20	<0.05	<0.10	8.0	5	81	1.3	17	41	5.53	1.26
153	Kapurthala	Kapurthala	Hussainpur	TW	8.41	450	25	113	49	45	<0.20	<0.05	<0.10	4.0	9.8	95	1.05	16	51	5.83	1.68
154	Kapurthala	Nadala	Bholath	TW	8.01	636	0	264	49	38	28	<0.05	<0.10	40	22	64	8.8	16	192	2.02	0.52
155	Kapurthala	Nadala	Bhatnura Khurd	TW	7.98	642	0	377	28	BDL	0.26	0.25	<0.10	40	29	61	5.8	27	222	1.79	1.80
156	Ludhiana	Macchiwara	Bhehlolpur	HP	7.71	649	0	301	69	BDL	56	0.07	<0.10	81	32	15	5.6	25	334	0.36	-1.74
157	Ludhiana	Macchiwara	Sherian	HP	7.65	1143	0	603	21	75	23	0.33	<0.10	65	52	111	11	12	374	2.49	2.36
158	Ludhiana	Samrala	Punjeta	TW	7.76	556	0	301	28	BDL	33	0.21	<0.10	73	25	11	6	27	283	0.28	-0.77
159	Ludhiana	Samrala	Samrala	TW	7.90	521	0	289	28	BDL	24	0.66	<0.10	65	27	6.2	14	25	273	0.16	-0.73
160	Ludhiana	Macchiwara	Lalan	HP	7.79	724	0	427	21	BDL	21	0.59	<0.10	77	39	22	6.2	24	354	0.51	-0.05
161	Ludhiana	Doraha	Doraha	TW	7.89	704	0	276	41	BDL	53	0.71	<0.10	61	25	20	35	23	253	0.54	-0.58
162	Ludhiana	Samrala	Begowal	TW	7.63	1496	0	804	69	BDL	63	1.02	<0.10	48	66	200	10	26	394	4.40	5.35
163	Ludhiana	Doraha	Maksudra	TW	7.85	725	0	339	77	BDL	4.5	<0.05	<0.10	53	34	41	12	25	273	1.08	0.11
164	Ludhiana	Dehlon	Gopalpur (Dehlon)	TW	8.28	1396	0	893	42	BDL	25	0.48	<0.10	48	47	224	13	27	313	5.51	8.37
165	Ludhiana	Sudhar	Halwara	TW	7.84	931	0	465	49	BDL	21	0.38	<0.10	54	37	63	23	27	293	1.62	1.88
166	Ludhiana	Ludhiana-1	Mangat	TW	8.13	577	0	276	28	BDL	<0.20	0.36	<0.10	28	98	73	4.0	19	111	1.46	-4.93
167	Ludhiana	Pakhowal	Lil	TW	7.44	1560	0	453	186	96	76	0.28	<0.10	73	66	145	13	28	455	2.96	-1.65
168	Ludhiana	Macchiwara	Mushkabad	TW	7.79	528	0	251	28	BDL	26	0.47	<0.10	57	22	14	7.8	25	233	0.40	-0.54
169	Ludhiana	Samrala	Utlan	TW	7.92	684	0	352	35	BDL	0.40	<0.0	<0.10	44	39	30	11	15	273	0.79	0.37

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170	Ludhiana	Khanna	Ikloha	TW	7.66	830	0	419	43	BDL	21	0.33	<0.10	57	42	42	11	27	313	1.03	0.57
171	Ludhiana	Dehlon	Chhatar	TW	7.58	929	0	402	42	46	43	0.17	<0.10	77	34	58	8.6	27	334	1.38	-0.05
172	Ludhiana	Ludhiana-I	P.A.U. Ludhiana	TW	7.56	654	0	377	28	BDL	29	0.28	<0.10	65	30	43	8.7	27	283	1.11	0.47
173	Ludhiana	Jagraon	Jagraon	TW	7.87	701	0	402	28	BDL	40	0.46	<0.10	53	29	69	8.0	26	253	1.89	1.56
174	Ludhiana	Sidhwan Bet	Sidhwan Bet	TW	7.74	594	0	364	21	BDL	12	0.37	<0.10	73	32	12	7.3	27	313	0.29	-0.31
175	Mansa	Mansa	Ralla	HP	8.61	1081	18	220	92	152	85	1.06	<0.10	16	66	75	76	19	310	1.85	-2.02
176	Mansa	Bhikhi	Kotra	TW	7.90	293	0	98	14	26	2.5	0.26	<0.10	28	11	8.2	1.0	3.5	115	0.33	-0.70
177	Mansa	Mansa	Bhikhi	TW	7.87	292	0	91	21	19	<0.20	0.37	<0.10	30	11	9.9	0.7	2.65	120	0.39	-0.91
178	Mansa	Ahamdpur	Ahamdpur	HP	8.90	1432	33	372	74	143	23	2.45	<0.10	6.0	32	160	1.7	22	145	5.75	4.27
179	Mansa	Bhudhlada	Bhudhlada	HP	8.69	1557	30	286	156	423	0.2	0.36	<0.10	20	50	314	14	16	255	8.54	0.58
180	Mansa	Jhunir	Moffar	TW	8.48	395	18	98	21	19.2	3.5	0.18	<0.10	30	13	16	0.3	8.55	130	0.61	-0.36
181	Mansa	Jhunir	Fatta maluka	TW	8.93	5470	132	409	627	1674	58	0.98	0.14	20	86	1246	100	29	405	26.98	3.03
182	Mansa	Jhunir	Jhandakhura	TW	8.35	1460	30	256	160	299	22	0.69	0.08	22	46	256	18	17	245	7.13	0.31
183	Mansa	Jhunir	Burj bahlaike	TW	8.02	2380	0	629	351	205	22	0.86	<0.10	28	45	319	233	30	255	8.69	5.21
184	Mansa	Mansa	Kotoharmu	TW	8.38	1087	30	128	131	203	6	0.65	<0.10	26	29	168	12	14	185	5.39	-0.58
185	Mansa	Thunir	Raipur	TW	8.18	6050	0	690	1195	1013	69	1.06	<0.10	14	89	1314	102	21	400	28.55	3.29
186	Moga	Moga-1	Chaugawan	TW	7.85	1809	0	792	90	131	28	0.81	<0.10	36	32	339	12	25	222	9.91	8.55
187	Moga	Kot ishe khan	Bajeke	TW	8.09	423	0	226	21	BDL	<0.20	0.35	<0.10	36	22	17	4.0	21	182	0.55	0.10
188	Moga	Moga-2	Dagru	TW	8.09	803	0	370	35	102	0.77	0.77	<0.10	16	7.3	185	4.0	17	71	9.62	4.66
189	Moga	Moga -1	Darapur	TW	8.02	1736	0	603	77	342	53	0.68	<0.10	28	17	410	7.0	19	142	15.09	7.09
190	Moga	Bagha purana	Dameru	TW	8.03	1107	0	251	83	273	4.8	0.77	<0.10	24	12	231	5.3	17	111	9.61	1.93
191	Moga	Bhagaha purana	Budh singh wala	TW	8.42	1167	51	377	97	51	24	0.24	<0.10	40	29	181	9.0	24	222	5.32	3.50
192	Moga	Nihal singh	Nihal singh wala	TW	7.94	1501	0	754	97	43	41	0.16	<0.10	44	57	220	12	27	344	5.16	5.47

193	Muktsar	Muktsar	Bhaliana	HP	7.81	5600	0	464	581	1440	460	0.58	<0.10	40	195	800	367	22	900	11.59	-10.43
194	Muktsar	Muktsar	Doda	HP	7.44	5390	0	122	1092	1105	420	0.58	<0.10	545	156	420	182	25	2002	4.08	-38.03
195	Muktsar	Muktsar	MKT Shiv	HP	8.59	2620	36	317	482	439	41	0.75	4.61	32	97	366	135	19	480	7.28	-3.18
196	Muktsar	Lambi	Saeeawali	HP	8.51	7290	60	464	1404	1420	374	0.71	0.08	16	229	1176	558	23	980	16.33	-10.03
197	Muktsar	Muktsar	Balochkhera	TW	7.88	857	0	171	99	134	43	0.21	0.08	72	34	63	1.7	21	320	1.53	-3.59
198	Muktsar	Malout	Kabarwala	DW	8.37	1832	24	342	198	336	27	0.67	0.34	24	27	378	1.5	12	170	12.58	2.99
199	Muktsar	Malout	Khunde halel	TW	7.97	1439	0	354	170	230	24	0.67	<0.10	44	41	236	8.0	16	280	6.15	0.23
200	Muktsar	Muktsar	Labanianwali	DW	7.94	1438	0	403	113	259	37	0.39	<0.10	32	63	221	2.5	20	340	5.22	-0.17
201	Muktsar	Lambi	Lambi	HP	7.72	5680	0	525	1177	1086	66	0.75	<0.10	56	214	1022	58	30	1021	13.92	-11.79
202	Nawashaher	Balachaur	Balachaur	TW	8.28	600	0	342	21	28	11.0	0.51	<0.10	16	32	78	1.0	25	170	2.59	2.17
203	Nawashaher	Saroya	Mahendpur	TW	8.65	410	48	146	7	9	<0.20	0.19	<0.10	12	29	40	3.3	22	150	1.42	1.01
204	Nawashaher	Aur	Raipur Dhaba	TW	8.62	402	36	159	14	7	14	0.51	<0.10	12	34	30.1	4.1	18	170	1.00	0.41
205	Nawashaher	Nawashaher	Bahlora Kalan	TW	8.02	648	0	317	14	67	0.28	0.50	<0.10	40	29	66.2	4.9	22	220	1.95	0.81
206	Nawashaher	Balachaur	Mauhra	TW	8.55	332	36	134	7	11	6.97	0.26	<0.10	12	22	40.3	1.6	24	120	1.60	0.99
207	Pathankot	Pathankot	Bamial	HP	8.43	220	37	88	21	BDL	<0.2	0.16	<0.10	40	4.9	16	1.3	20	121	0.64	0.28
208	Pathankot	Narot Jaimal Singh	Bhoa	HP	8.14	455	0	201	28	BDL	24	0.32	<0.10	58	14	8.0	11	19	202	0.24	-0.75
209	Pathankot	Narot Jaimal Singh	Jakolahri	HP	8.34	356	37	101	28	BDL	6	0.14	<0.10	53	12	6.0	0.8	12	182	0.19	-0.74
210	Pathankot	Pathankot	Khani Khui	HP	8.61	360	50	151	14	BDL	<0.2	0.27	<0.10	28	25	29	1.1	25	172	0.96	0.69
211	Pathankot	Pathankot	Gharota Kalan	HP	8.37	1122	62	453	104	BDL	31	0.28	<0.10	44	71	91	53	21	404	1.97	1.46
212	Pathankot	Pathankot	Pathankot	HP	8.35	496	37	164	42	BDL	23	0.30	<0.10	57	20	27	4.2	28	222	0.78	-0.57
213	Pathankot	Pathankot	Sarna	TW	8.56	325	50	88	28	BDL	2	0.19	<0.10	53	12	3.4	2.0	16	182	0.11	-0.52
214	Pathankot	Pathankot	Nawanpind	HP	8.28	187	0	88	21	BDL	2	0.26	<0.10	28	7.4	2.0	2.3	6	101	0.09	-0.57

215	Pathankot	Pathankot	Ghoh	TW	8.6	590	25	214	42	BDL	34	0.41	<0.10	73	22	18	2.8	33	273	0.47	-1.11
216	Pathankot	Dharkalan	Parmota	TW	8.47	298	37	113	21	BDL	8.3	0.31	<0.10	44	10	14	1.5	32	152	0.50	0.07
217	Pathankot	Dharkalan	Kiari	HP	8.42	259	37	76	21	BDL	1.3	0.30	<0.10	40	10	7.0	2.1	12	142	0.26	-0.34
218	Pathankot	Dharkalan	Kui	HP	8.66	318	50	113	28	BDL	6.4	0.14	<0.10	36	20	19	0.4	10	172	0.63	0.08
219	Patiala	Patran	Patran	TW	8.42	879	74	314	35	BDL	11	1.00	<0.10	16	22	148	5.2	14	131	5.64	5.00
220	Patiala	Samana	Samana	TW	8.12	1151	0	339	83	175	0.20	0.89	<0.10	28	17	188	4.1	11	142	6.92	2.76
221	Patiala	Samana	Dhakraba	TW	7.98	420	0	201	14	29	<0.20	0.76	<0.10	53	15	7.2	3.6	10	192	0.22	-0.58
222	Patiala	Bhunerheri	Miranpur	TW	7.54	2308	0	516	334	184	23	0.61	<0.10	93	86	222	14	24	586	3.99	-3.26
223	Patiala	Bhunerheri	Devigarh	TW	7.81	1157	0	465	42	168	<0.2	0.72	<0.10	36	47	159	6.5	23	283	4.11	1.96
224	Patiala	Patiala	Bir Kauli	TW	7.81	1248	0	453	83	146	0.27	0.99	<0.10	57	44	147	2.1	22	323	3.56	0.96
225	Patiala	Rajpura	Rajpura	TW	8.06	2028	0	553	104	475	8.77	1.65	<0.10	37	44	385	7.7	22	273	10.13	3.60
226	Patiala	Patiala	Lachkani	TW	7.69	1428	0	566	90	108	30	0.53	<0.10	48	32	203	40.7	17	253	5.57	4.25
227	Patiala	Nabha	Kalyan	TW	7.69	1081	0	440	83	39	15	0.63	<0.10	61	32	109	19	12	283	2.81	1.54
228	Patiala	Nabha	Bhojo Majri	TW	8.20	267	0	139	21	BDL	1.74	0.31	<0.10	36	10	6.2	3.2	12	132	0.24	-0.34
229	Patiala	Nabha	Chehal	TW	7.82	593	0	377	21	BDL	<0.20	0.56	<0.10	53	29	41	8.4	26	253	1.12	1.15
230	Patiala	Rajpura	Bassama Tepla	TW	7.72	1392	0	478	139	152	13	0.81	<0.10	69	44	199	2.0	17	354	4.61	0.77
231	Patiala	Ghanaur	Kami Kalan	TW	8.32	2180	50	296	167	581	<0.2	2.80	<0.10	28	15	498	3.0	16	132	18.89	3.89
232	Patiala	Ghanaur	Lacharu Kalan	TW	7.86	2504	0	779	278	243	4.3	1.05	<0.10	32	47	485	5.0	17	273	12.77	7.30
233	Patiala	Ghanaur	Hari Majra	TW	8.37	850	86	101	83	123	<0.2	0.62	<0.10	8.0	7.4	201	1.4	16	51	12.32	3.51
234	Patiala	Rajpura	Thuha	TW	7.51	1587	0	603	139	124	2.8	0.37	<0.10	81	29	240	6.0	16	323	5.82	3.46
235	Roop Nagar	Anandpur Sahib	Dhair	TW	8.85	2040	96	207	193	167	253	0.40	<0.10	8.0	80	149	292	21	350	3.47	-0.39
236	Roop Nagar	Anandpur Sahib	Braham Pur	TW	8.08	435	0	159	14	32	21	0.50	<0.10	40	24	12	3.3	14	200	0.37	-1.36
237	Roop Nagar	Anandpur Sahib	Ahmedpur	TW	8.55	935	36	195	89	52	55	0.42	<0.10	8.0	58	92	0.3	16	260	2.49	-0.77
238	Roop Nagar	Ropar	Hardinamoh	TW	8.45	572	36	110	28	53	4.87	0.60	<0.10	40	19	45	14.9	18	180	4.74	-0.56
239	Roop Nagar	Ropar	Chakdera	TW	8.60	680	36	134	62	37	3.752	0.93	<0.10	16	27	83	11.5	17	150	2.93	0.38
240	Roop Nagar	Ropar	Bera Chauta	TW	8.72	601	48	171	21	103	<0.20	1.45	<0.10	12	10	142	18	16	70	7.33	2.98
241	Roop Nagar	Chamkaur	Rurki Hiran	TW	8.60	580	36	110	48	44	45	0.42	<0.10	12	41	59	6.2	23	200	1.82	-0.97

		Sahib																			
242	Roop Nagar	Morinda	Chatamli	TW	8.19	725	36	354	14	14	6.8	0.70	<0.10	24	39	82	1.5	18	221	2.39	2.60
243	Sangrur	Dhuri	Bhojowali	TW	7.64	1351	0	679	77	67	18	0.47	<0.10	44	47	204	9.8	11	303	5.10	5.07
244	Sangrur	Dhuri	Ladda	TW	7.81	1188	0	377	104	44	97	0.45	<0.10	53	59	87	8.4	14	374	1.95	-1.32
245	Sangrur	Dhuri	Bugra	TW	7.53	1497	0	704	83	72	32	0.41	<0.10	57	71	167	5.2	17	435	3.49	2.85
246	Sangrur	Sangrur	Longowal	TW	8.05	1536	0	767	62	110	12	0.49	<0.10	40	37	268	9.8	16	253	7.34	7.53
247	Sangrur	Sunam	Sunam	TW	8.03	1036	0	591	28	BDL	10	0.05	<0.10	57	32	107	7.7	18	273	2.81	4.21
248	Sangrur	Lehragaga	Haryao	TW	8.02	1284	0	641	42	87	20	0.86	<0.10	32	32	219	7.3	13	212	6.55	6.28
249	Sangrur	Lehragaga	Chural Kalan	TW	8.25	1702	0	867	42	101	11	1.03	<0.10	24	17	358	9.0	14	132	13.67	11.61
250	Sangrur	Andana	Bulan	TW	7.88	761	0	364	42	BDL	12	0.99	<0.10	36	42	41	9.0	15	263	1.10	0.71
251	Sangrur	Malerkotla-I	Bagarian	TW	8.13	574	0	352	21	BDL	<0.20	0.46	<0.10	53	29	33	5.0	23	253	0.91	0.74
252	Sangrur	Malerkotla-I	Manvi	HP	8.09	529	0	264	21	BDL	24	0.50	<0.10	36	27	31	6.0	26	202	0.95	0.31
253	Sangrur	Malerkotla-I	Malerkotla	DW	7.90	867	0	465	56	BDL	21	0.51	<0.10	48	39	90	14	26	283	2.34	2.02
254	Sangrur	Bhawanigarh	Majhi	TW	7.80	757	0	453	42	BDL	10	0.49	<0.10	65	25	75	7.2	29	263	2.00	2.12
255	Sangrur	Sangrur	Sangatpura	TW	7.96	765	0	440	28	BDL	16	0.56	<0.10	36	34	79	20	25	233	2.27	2.62
256	Sangrur	Dhuri	Ghanauri Kalan	TW	8.37	587	50	276	28	BDL	12	0.51	<0.10	36	27	66	8.3	25	202	2.03	2.17
257	Sangrur	Dhuri	Benra	TW	8.12	477	0	264	28	BDL	3.1	0.30	<0.10	36	32	12	17	24	222	0.35	-0.10
258	SAS Nagar	Dera Bassi	Joli	TW	8.24	1605	0	366	179	17	95	0.45	<0.10	48	32	278	23	20	250	7.63	0.97
259	SAS Nagar	Dera Bassi	Antala	TW	8.01	740	0	232	55	88	22	0.65	<0.10	52	34	61.1	1.7	18	270	1.62	-1.59
260	SAS Nagar	Dera Bassi	Sirsini	TW	7.84	7560	0	464	1128	BDL	130	0.40	<0.10	64	396	137	17	18	1791	1.41	-28.16
261	SAS Nagar	Kharar	Dheri	TW	8.47	662	36	110	55	44	31	0.63	<0.10	28	24	83.7	2.7	16	170	2.80	-0.37
262	SAS Nagar	Kharar	Ghoga	TW	8.32	642	36	244	21	52	<0.20	0.93	<0.10	28	46	51.3	4.3	19	260	1.39	0.02
263	SAS Nagar	Sas Nagar	Haluka	TW	8.65	575	96	171	14	6	<0.20	0.80	<0.10	16	17	95.2	2.1	14	110	3.95	3.81
264	SAS Nagar	Dera Bassi	Dera Bassi 1	TW	8.22	612	0	293	21	14	13	0.42	<0.10	24	7.0	97.7	1.0	20	90	4.51	3.03
265	SAS Nagar	Dera Bassi	Handesra	TW	8.23	1672	0	146	310	230	2.54	0.63	<0.10	52	54	249	4.0	16	350	5.77	-4.64
266	SAS Nagar	Dera Bassi	Issapur	TW	7.92	3900	0	330	605	599	250	0.68	<0.10	60	160	591	1.0	18	811	9.05	-10.74
267	SAS Nagar	Kharar	Landran	TW	8.72	868	48	159	96	32	26	0.53	<0.10	12	27	125	34	18	140	4.58	1.39

268	Tarantaran	Tarn Taran	Sahabpur	TW	8.54	282	62	63	21	BDL	<0.2	0.27	<0.10	36	20	2	1.8	10	172	0.07	-0.34
269	Tarantaran	Khadur Sahib	Goindiwal	TW	8.68	474	50	239	14	BDL	<0.2	0.23	<0.10	36	22	59	1.4	22	182	1.91	1.98
270	Tarantaran	Khadur Sahib	Khadur Sahib	TW	8.36	278	62	50	21	BDL	2.61	0.10	<0.10	32	17	8	1.4	15	152	0.28	-0.11
271	Tarantaran	Chola Sahib	Cholashaib	TW	8.43	468	74	164	28	BDL	9.9	0.44	<0.10	36	47	12	6.7	28	283	0.31	-0.51
272	Tarantaran	Patti	Harike	TW	8.31	258	25	113	21	BDL	7	0.24	<0.10	28	20	10	1.4	16	152	0.35	-0.36
273	Tarantaran	Patti	Barwala	TW	Leaked	Leaked	Leaked	Leaked	Leaked	Leaked	Leaked	Leaked	Leaked	Leaked	Leaked	Leaked	Leaked	Leaked	Leaked	Leaked	Leaked
274	Tarantaran	Valtoha	Rattoke	TW	8.67	1148	62	339	42	200	4	0.34	<0.10	20	32	218	1.4	19	182	7.04	3.99
275	Tarantaran	Bhikhiwind	Kalsian kaln	TW	8.25	718	0	314	42	127	9.3	0.55	<0.10	44	47	74	9.7	25	303	1.85	-0.91
276	Tarantaran	Bhikhiwind	Amnisha Kalra	TW	8.84	982	99	440	35	BDL	4.83	1.11	<0.10	20	27	202	0.4	19	162	6.93	7.29
277	Tarantaran	Bhikhiwind	Bhikiwind	TW	8.70	481	50	214	21	BDL	<0.20	0.16	<0.10	32	17	68	0.3	21	152	2.42	2.18
278	Tarantaran	Gandiwind	Chabal	TW	8.56	479	50	214	21	BDL	<0.20	0.08	<0.10	24	27	57	2.8	23	172	1.90	1.76
279	Tarantaran	Gandiwind	Gandiwind	TW	8.76	881	86	276	35	BDL	24	0.50	<0.10	20	54	57	45	26	273	1.50	1.95
280	Tarantaran	Gandiwind	Mohwa	TW	8.11	785	0	352	77	42	<0.20	0.21	<0.10	44	22	106	10	21	202	3.26	1.76
281	Chandigarh	Chandigarh	Sector 31-D	TW	8.20	460	0	281	11	9	<0.20	0.38	<0.10	16	15	80	1.6	21	100	3.45	2.57