

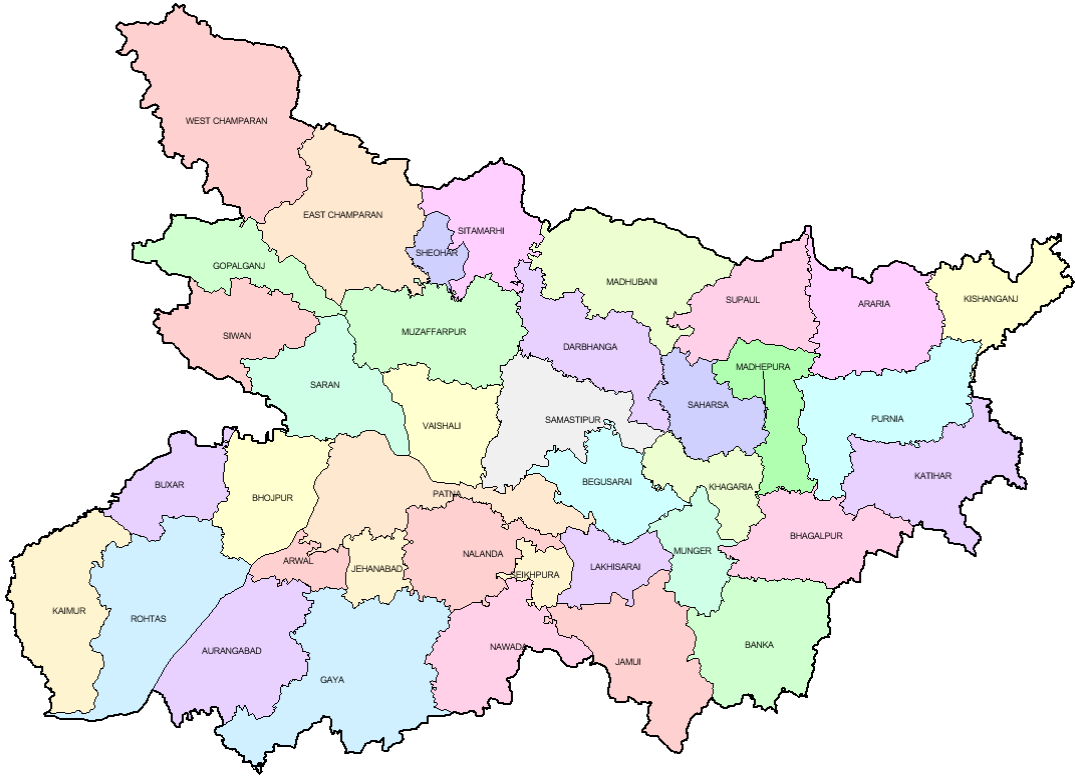
भारत सरकार  
जल संसाधन, नदी विकास और गंगा  
संरक्षण मंत्रालय  
केंद्रीय भूमि जल बोर्ड



GOVERNMENT OF INDIA  
MINISTRY OF WATER RESOURCES  
RD & GR  
CENTRAL GROUND WATER BOARD

## वार्षिक भूजल पुस्तिका, बिहार (2017-2018)

### Ground Water Year Book (2017 - 2018)



मध्य पूर्वी क्षेत्र, पटना  
नवंबर 2018

MID-EASTERN REGION, PATNA  
November 2018

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GROUND WATER YEAR BOOK, BIHAR  
(2017 - 2018)

मध्य पूर्वी क्षेत्र, पटना  
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# GROUND WATER YEAR BOOK, BIHAR (2017 - 2018)

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# **GROUNDWATER YEAR BOOK, BIHAR (2017 –2018)**

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# GROUND WATER YEAR BOOK, BIHAR (2017-2018)

## ABSTRACT

Monitoring of ground water levels from 736 Hydrograph Network Stations (HNS) were carried out in the year 2017-2018 with an objective to assess ground water regime of phreatic aquifer. The water level monitoring was carried out in the months of May'17, August'17, November'17, and January'18. The ground water samples from the HNS were collected in the month of May'17 for chemical analysis. The water level in the HNS represented phreatic aquifer.

The observed water level data had been grouped into four categories viz. 0-2 m, 2-5 m, 5-10 m and >10 m. Thematic maps depicting ground water levels measured in different periods had been prepared. The water levels had been further analysed for study of its change with respect to measurement of pre-monsoon period of the same year, previous year water level data of the same period, and decadal mean water level data of the same period. The fluctuation had been grouped under rise and fall categories. In each category there are three groups viz. 0-2 m, 2-4 m and >4 m. Thematic maps had been prepared for each category of fluctuation.

During pre-monsoon 2017 the ground water levels were found to vary between 0.5 and 14.73 m bgl. The depth to water level rests in range of 2-5 m bgl is 47% of HNS, which spatially covers northern part of North Bihar Plains (NBP) and patches in the South Bihar Plains (SBP), and depth to water level rests in range of 2-5 m bgl is 47% which spatially covers South Bihar Plains (SBP) and patches in the North Bihar Plains (NBP). During post-monsoon 2017, water level rested in the range of 2 – 5 m bgl in 63% of the HNS which covers major part (76% area) of the state. The fluctuation of water level between pre and post-monsoon 2017 indicated rise in water level in 92% of the HNS. Annual change of water level of May 2017 with respect to May 2016 indicated rise in water level in 67% of the HNS, and during November 2017 with respect to November 2016 indicated rise in 39% of the HNS. The change in water level of May 2017 with respect to the decadal mean of May (May 2007 to May 2016) indicated fall in 58% of the HNS and during November 2017 with respect to the decadal mean of November (November 2007 to November 2016) indicated rise in 45% of HNS.

# GROUND WATER YEAR BOOK, BIHAR (2017-2018)

## 1. INTRODUCTION

Bihar state lies between 83° 20' and 88° 00' E Longitudes and 24° 15' and 27° 23' N Latitudes. It shares international border with Nepal in the north and is bounded in the east, west and south by West Bengal, Uttar Pradesh and Jharkhand states respectively. The state covers geographical area of 94,163 Sq.km and has its capital at Patna (*Fig 1*).

Administratively the state is divided into 38 districts and 534 community development blocks. The population of the state is 10.41 crores (2011 census). Population density is 881persons/Sq.km. The urban population is 11,758,016 and rural population is 92,341,436. There are 150 small and large towns in the state. The distribution of urban population is highly skewed as only three towns namely Gaya, Bhagalpur, and Muzaffarpur are having population of more than 3 lakhs, besides urban population of Patna urban agglomeration which is having 1,683,200.

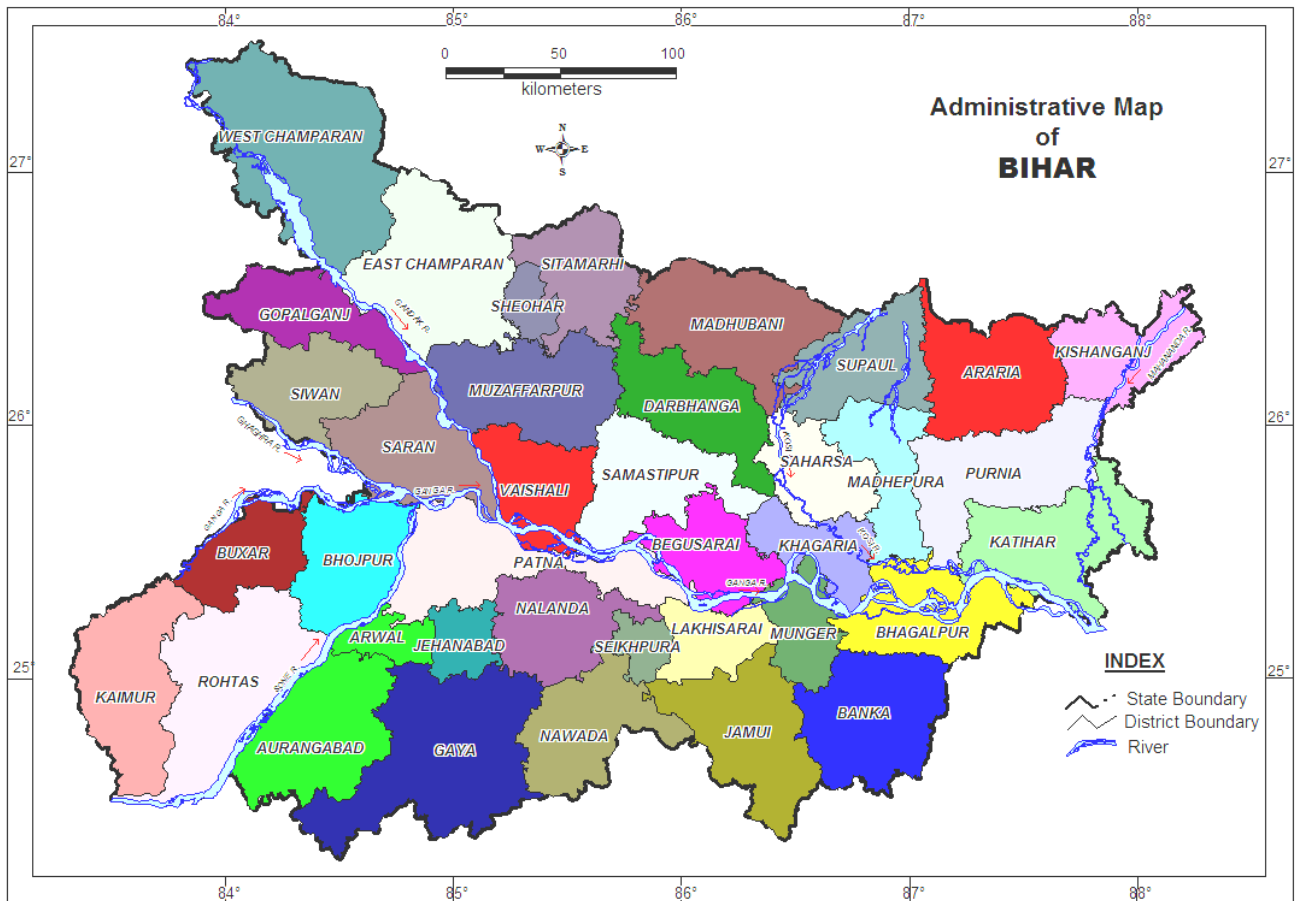
## 2. HYDROGEOLOGY

The generalized stratigraphic succession of the state is presented in Table 1. The hydrogeological map of Bihar is depicted in *Fig 2*.

*Table 1. Generalized geological succession of Bihar.*

<i>Age</i>	<i>Formation</i>	<i>Broad Lithology</i>
Quaternary	Alluvial Deposits	Sand, clay, silt and occasional gravel
Tertiary	Siwaliks	Sandstone, conglomerate, clay stone, gravel
L-Cambrian	Vindhyan Super Group	Sandstone, limestone.
Proterozoic	Chotanagpur Granite Gneiss	Granite, granitic-gneiss, schist, phyllites, dolomites, basic rocks, amphibolites.
Archean	Bihar Mica belt	Gneiss, Pegmatites etc.,





*Fig. 1 Administrative Map of Bihar state*

### **Pre-cambrians**

The rocks belonging to Proterozoic and Archean age are granite, granitic-gneiss, quartzite, phyllites, slates, and metabasics. Rocks of Chhotanagpur Granite Gneissic Complex (CGGC) suit occur in the form of small strip in the districts bordering Jharkhand state. Meta-basic rocks intrude the Chhotanagpur Granite Gneiss Complex suit of rocks. Mica bearing pegmatite of Bihar Mica Belt has been found in Gaya, Nawada and Munger districts. In parts of Munger, Gaya and Nawada districts the meta-sedimentary rocks (viz. phyllite, schist and quartzite) of Pre-cambrian age are also found.

The occurrence and movement of ground water is controlled by the thickness and nature of weathered mantle and saprolite zone (a transition zone between weathered residuum and fresh basement), besides fractures lying underneath the weathered residuum. Thickness of the weathered zone usually ranges from 5 to 20 m. Thickness of weathered zone is more in schist and other meta-sedimentary rocks in comparison to the granite-gneiss. The weathered product of granite and granite-gneiss is marked by presence of coarse granular materials composed of quartz and feldspar, whereas those of schist and phyllite by clayey materials.

Ground water occurs under unconfined condition within the weathered mantle and saprolite zone. In the secondary porosities imparted by joints, cracks and fractures, ground water occurs under confined to semi-confined conditions.

### **Vindhyan**

Rocks of Vindhyan Super-group are confined in the west and north of the river Sone and forms eastern end of the Kaimur Plateau. It occurs in the parts of Rohtas, Kaimur and Aurangabad districts. The width of the Vindhyan rocks becomes less than 3 km near Sasaram in Rohtas district. Rocks found under this super-group are mainly sandstone, limestone, quartzite and schist. These rocks behave as consolidated formation and have remained unaffected by any large-scale tectonic disturbances, except faulting at a few places in the geological past. Vindhyan sandstones are compact and have low primary porosity. Ground water in this occurs within the weathered residuum and in the secondary porosity below them. Ground water occurs under unconfined condition in the weathered mantle. The thickness of the weathered residuum varies from 5 to 10 m.

### **Siwaliks**

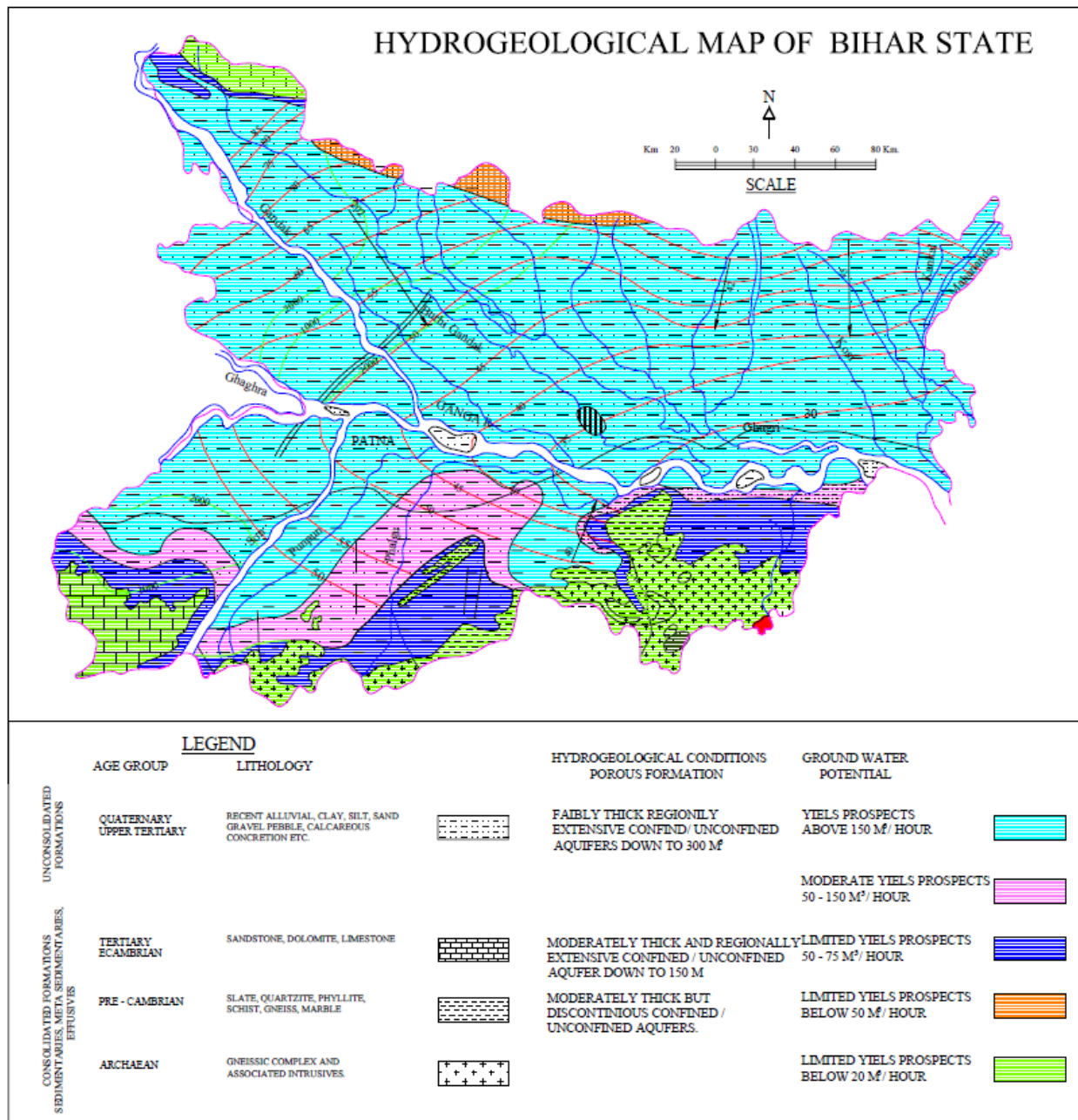
The Siwaliks of Upper Tertiary age occur as small patches in northwestern corner of the state in West Champaran district bordering Nepal. It consists of sandstone, conglomerate, red clay and spongy limestone and forms structural hills with a number of faults crisscrossing them. Ground water occurs under confined conditions in sandstones disposed at depth.

### **Quaternary alluvium**

Quaternary sediments of Recent to Sub-Recent age cover about 89 percent of the geographical area of the state. They occupy entire north Bihar plain, and a vast stretch of land between south of the river Ganga and the Chhotanagpur Plateau. Deep exploratory drilling by Central Ground Water Board has confirmed thickness of sedimentary deposits in north Bihar plain as more than three hundred meter. In the south of the river Ganga, the alluvial thickness gradually decreases to as low as 50 m or even less, towards the area bordering the Jharkhand state. The sedimentary deposit consists of alternate sequences of sand and clay layers representing multi-cyclic nature of sedimentation. The Quaternary alluvial deposit spread over south and north of the river Ganga is a part of Mid-Ganga Plain. The Terai belt, which is demarcated by auto-flow wells, occurs as a narrow strip in the bordering areas in Madhubani, Darbhanga, and West

Champaran districts. It is an extension of Terai belt of Nepal which coalesces with alluvial plain. Ground water occurs under unconfined conditions in the phreatic aquifer, which is

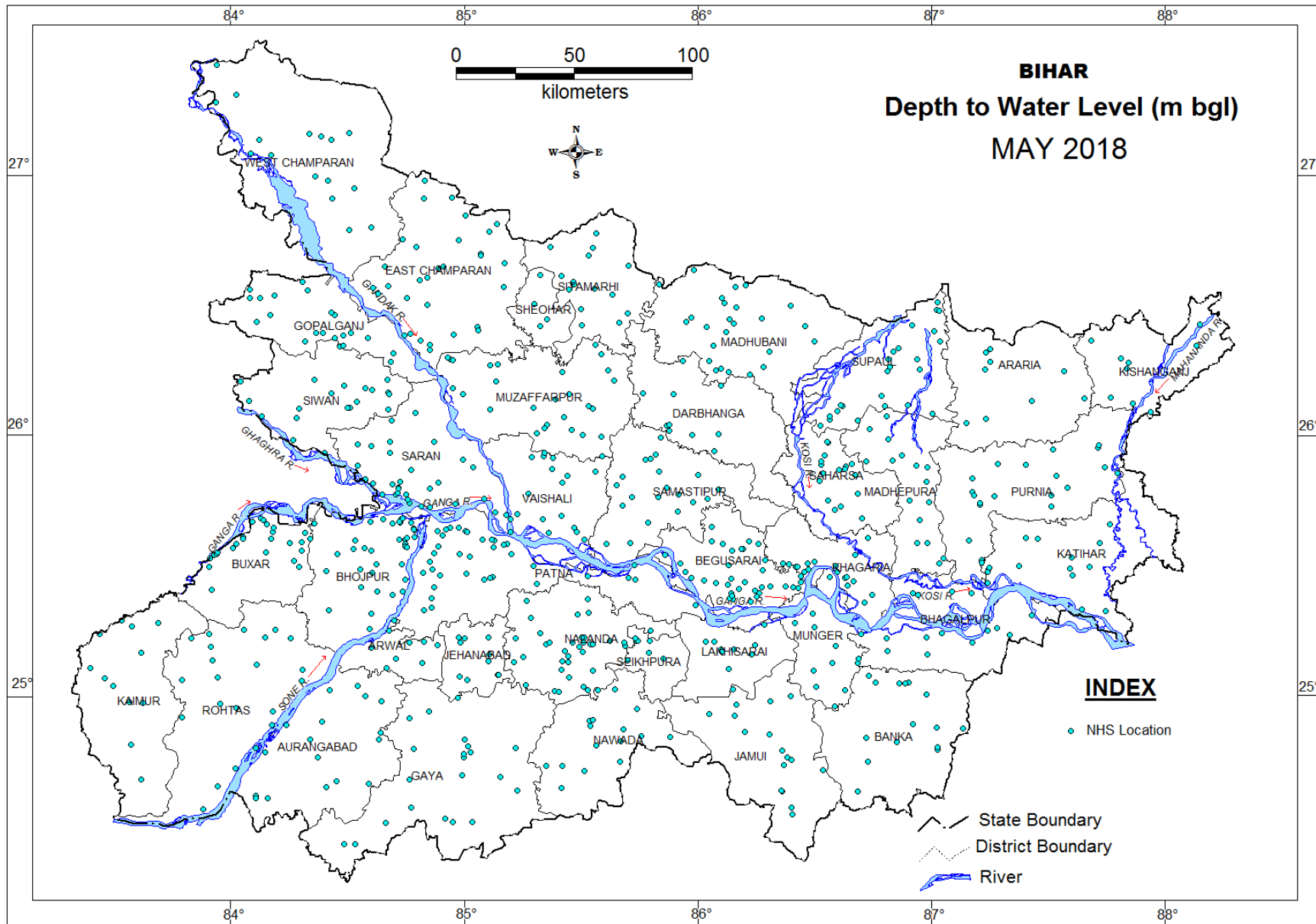
generally disposed within 70 m below ground. Aquifers situated at deeper levels have ground water levels under confined condition.



*Fig. 2 Hydrogeological Map of Bihar state*

### 3. GROUND WATER SCENARIO

A total of 736 Hydrograph Network Stations (HNS) which are dug wells tapping phreatic aquifer has been monitored as a part of ground water regime monitoring in the state of Bihar. Majority of the wells represent phreatic alluvial aquifer. The district wise location and distribution of the HNS are given in **Fig 3** and **Table 2** respectively.



*Fig. 3 Location of Hydrograph Network Stations in Bihar state, 2018*

*Table 2 District wise distribution of the HNS as on 31.3.18*

<b>Status of GW Monitoring Stations-March 2018</b>			
<b>SN</b>	<b>District</b>	<b>DW</b>	<b>TW</b>
1	Araia	9	
2	Aurangabad	17	
3	Banka	15	
4	Begusarai	36	
5	Bhagalpur	15	3
6	Bhojpur	37	
7	Buxar	25	
8	Darbhanga	11	
9	Gaya	21	
10	Gopalganj	22	
11	Jamui	18	
12	Jehanabad & Arwal	19	
13	Kaimur/Bhabhua	12	
14	Katihar	16	
15	Khagaria	19	
16	Kishanganj	9	
17	Lakhisarai	9	
18	Madhepura	17	
19	Madhubani	26	
20	Munger	11	
21	Muzaffarpur	27	
22	Nalanda	37	
23	Nawada	16	
24	W Champaran	16	
25	Patna	38	29
26	E Chamaparan	34	
27	Purnia	20	
28	Rohtas	21	
29	Saharsa	18	
30	Samastipur	20	
31	Saran	34	
32	Sheikhpura	7	
33	Sheohar	4	
34	Sitamarhi	16	
35	Siwan	20	
36	Supaul	25	
37	Vaishali	19	
<b>Total</b>		<b>736</b>	<b>32</b>

The numbers of HNS monitored in the state as per the following monitoring schedules:

**Table 3 HNS monitoring schedule**

<b>Sl. N.</b>	<b>Month</b>	<b>Date</b>	<b>Period</b>
1	May	20 – 30	Pre-monsoon
2	August	20 – 30	Mid-monsoon
3	November	1 – 10	Post-monsoon
4	January	1 – 10	Recession

The Number of HNS monitored during the various monitoring period is given in **Table-4**. The water level data of HNS are presented in the Annexure I. The data were analysed for each set of measurement and the thematic presentation of depth to water level and its fluctuations have been prepared in the range of 0 – 2 m, 2 – 5 m, 5 – 10 m and more than 10 m using GEMS software. Bihar state has been broadly divided into North Bihar Plain (NBP) consisting of areas falling to the north of the river Ganga and South Bihar Plain (SBP) consisting of areas falling to the south of the river Ganga and bordering Jharkhand state.

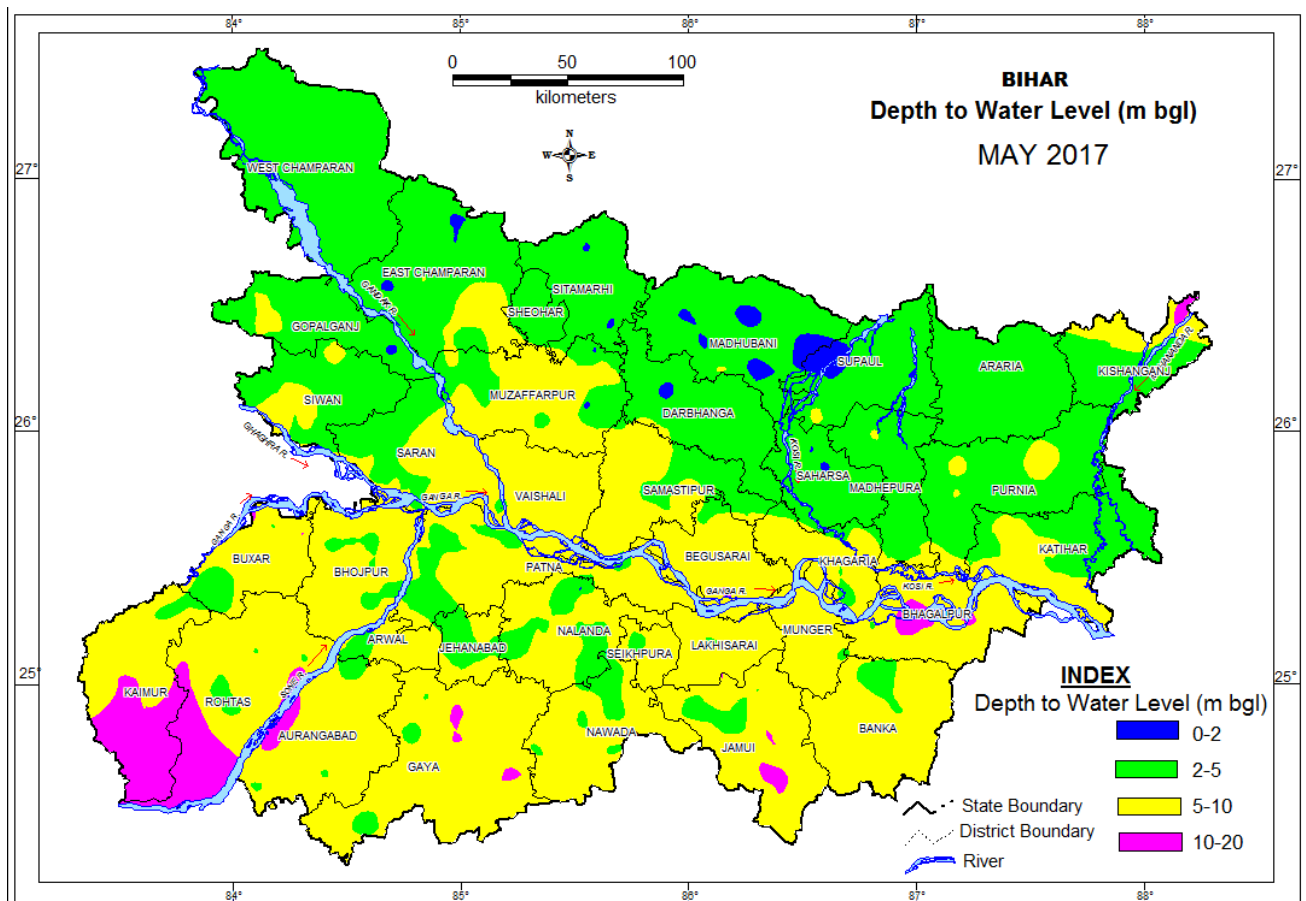
**Table 4 Number of HNS monitored/analysed during different months**

<b>State</b>	<b>May'17</b>	<b>August'17</b>	<b>November'17</b>	<b>January'18</b>
Bihar	690	682	673	705

### 3.1 DEPTH TO WATER LEVEL

#### 3.1.1 May 2017

During the Pre- Monsoon period (May 2017), 690 HNS were analysed. The Minimum depth to water level is 0.5 m bgl has been observed at, Madhubani district, and maximum is 14.73 m bgl at Bhagalpur district. The depth to water level rests in range of 5 – 10 m bgl in 51% of the area of Bihar State, which spatially covers northern part of North Bihar Plains (NBP) and maximum part of South Bihar Plains (SBP). The depth to water level rests in the range of 2-5 m bgl in about 45% of the area covering as patches of SBP and maximum part of NBP. In ~ 3% of area, water level > 10 m bgl has been recorded, which distributed as isolated patches mainly in Kaimur, Rohtas, Jamui, Bhagalpur, Aurangabad, Kishanganj and Gaya district. In only 19 Hydrograph Network Station (HNS) which falls in Sitamarhi, Saran, Saharsa, E Champaran, Nalanda, Muzaffarpur, Madhubani, Gopalganj, and Darbhanga district, the depth to water level < 2 m bgl has been recorded (**Fig. 4; Table 5**).



*Fig. 4: Depth to water level in May 2017*

**Table 5** District wise well frequency for different ranges of depth to water level of HNS in May, 2017 in Bihar state

			Min.	Max.	No.	%	No.	%	No.	%	No.	%
1	Araria	9	3.19	4.6	0	0	9	100	0	0	0	0
2	Aurangabad	18	3.35	12.23	0	0	3	17	12	67	3	17
3	Banka	16	3.73	9.32	0	0	5	31	11	69	0	0
4	Begusarai	24	4.44	12	0	0	1	4	22	92	1	4
5	Bhagalpur	16	4.64	14.73	0	0	2	13	11	69	3	19
6	Bhojpur	37	3.14	9.6	0	0	8	22	29	78	0	0
7	Buxar	24	3.3	10.74	0	0	3	13	18	75	3	13
8	Darbhanga	9	1.44	5	1	11	8	89	0	0	0	0
9	Gaya	22	2.44	11.4	0	0	3	14	16	73	3	14
10	Gopalganj	22	1	6.3	1	5	17	77	4	18	0	0
11	Jamui	17	2.34	12.24	0	0	3	18	8	47	6	35
12	Jehanabad	16	3.37	6.76	0	0	7	44	9	56	0	0
13	Kaimur	11	4.45	12.3	0	0	1	9	7	64	3	27
14	Katihar	16	3.2	8.2	0	0	8	50	8	50	0	0
15	Khagaria	14	2.89	8.93	0	0	3	21	11	79	0	0
16	Kishanganj	8	2.95	10.2	0	0	7	88	0	0	1	13
17	Lakhisarai	8	2.34	9.21	0	0	1	13	7	88	0	0
18	Madhepura	17	2.83	6.1	0	0	14	82	3	18	0	0
19	Madhubani	24	0.5	5.21	5	21	17	71	2	8	0	0
20	Munger	10	5.1	8.95	0	0	0	0	10	100	0	0
21	Muzaffarpur	26	1.39	7.9	2	8	8	31	16	62	0	0
22	Nalanda	33	1.75	10.13	1	3	13	39	18	55	1	3
23	Nawada	16	2.69	8.7	0	0	6	38	10	63	0	0
24	W champaran	16	2.65	4.93	0	0	16	100	0	0	0	0
25	Patna	35	2.18	9.97	0	0	20	57	15	43	0	0
26	E champaran	34	1.36	5.6	3	9	25	74	6	18	0	0
27	Purnia	19	2.85	6.6	0	0	16	84	3	16	0	0
28	Rohtas	20	2.43	12.6	0	0	4	20	12	60	4	20
29	Saharsa	18	1.45	4.7	2	11	16	89	0	0	0	0
30	Samastipur	18	3.53	8.86	0	0	6	33	12	67	0	0
31	Saran	33	1.3	8.18	2	6	15	45	16	48	0	0
32	Seikhpara	7	3	7.92	0	0	2	29	5	71	0	0
33	Sheohar	1	3.36	3.36	0	0	1	100	0	0	0	0
34	Sitamarhi	16	1.43	4.65	2	13	14	88	0	0	0	0
35	Siwan	18	2.7	6.55	0	0	16	89	2	11	0	0
36	Supaul	24	2.1	7	0	0	22	92	2	8	0	0
37	Vaishali	18	5	9.75	0	0	1	6	17	94	0	0
	Total	690	0.5	14.73	19	3	321	47	322	47	28	4



### 3.1.2 August 2017

During mid-monsoon (August 2017), total 682 HNS were monitored. The depth to water level has been found to vary between 0.07 m bgl (Aurangabad district) and 12.65 m bgl (Bhagalpur district). The depth to water level varies in the range of 0 – 2 m bgl covers in about 33% area due to monsoon rainfall. It spatially covers the major part and bordering area of E & W Champaran, Sitamarhi, Madhubani, Darbhanga, Supaul, Saharsa, and Kishanganj district, small parts of Rohtas, Kaimur, Aurangabad, Gaya, Banka, Jamui and Bhagalpur districts and as patches in many other part of the State.

Range of depth to water level 2-5 m bgl covers major part (61%) of the state including southern part of NBP and maximum part of SBP except some small patches like area. Parts of Kaimur and Vaishali district, small Parts of Buxar, Bhojpur, Aurangabad, Gaya, Nalanda, Jamui, Bhagalpur, Samastipur, Begusarai, Muzaffarpur and other part as patches, the depth to water level rests in the range of 5 to 10 m bgl which forms about 6% of the area of the State. Only 2 wells located in Jamui and Bhagalpur district have shown water level more than 10 m bgl. (Fig. 5; Table 6)

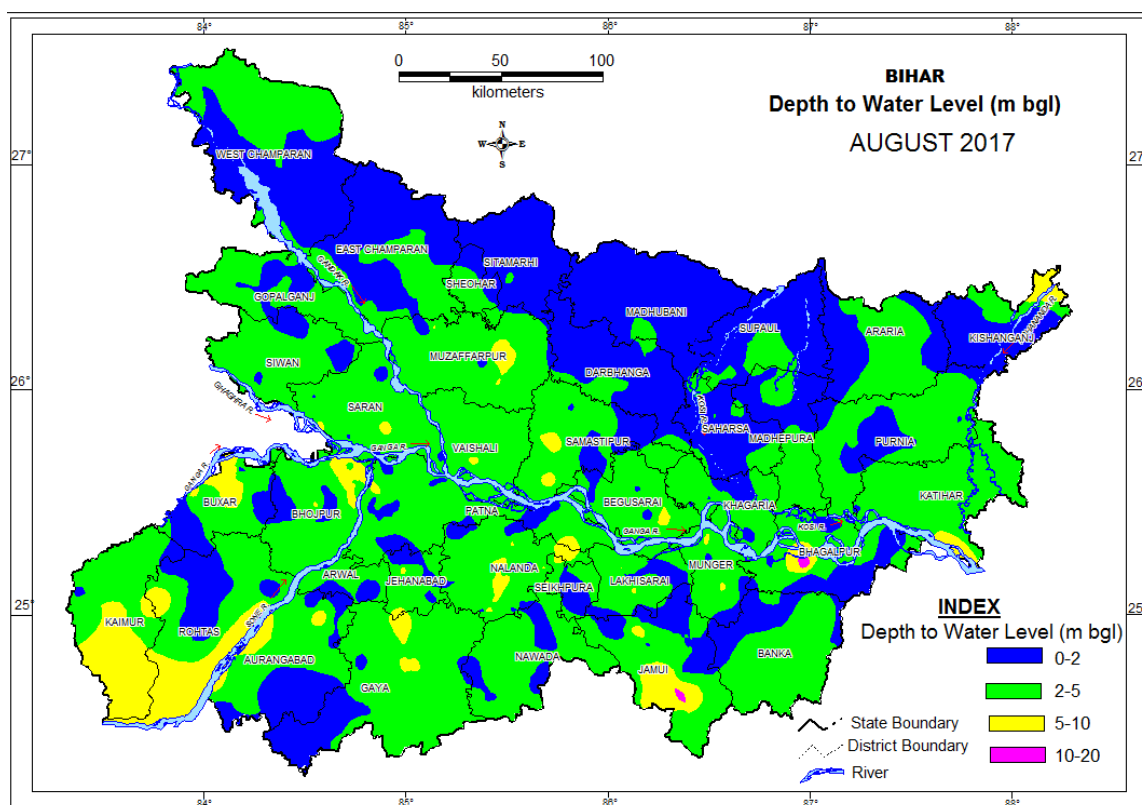


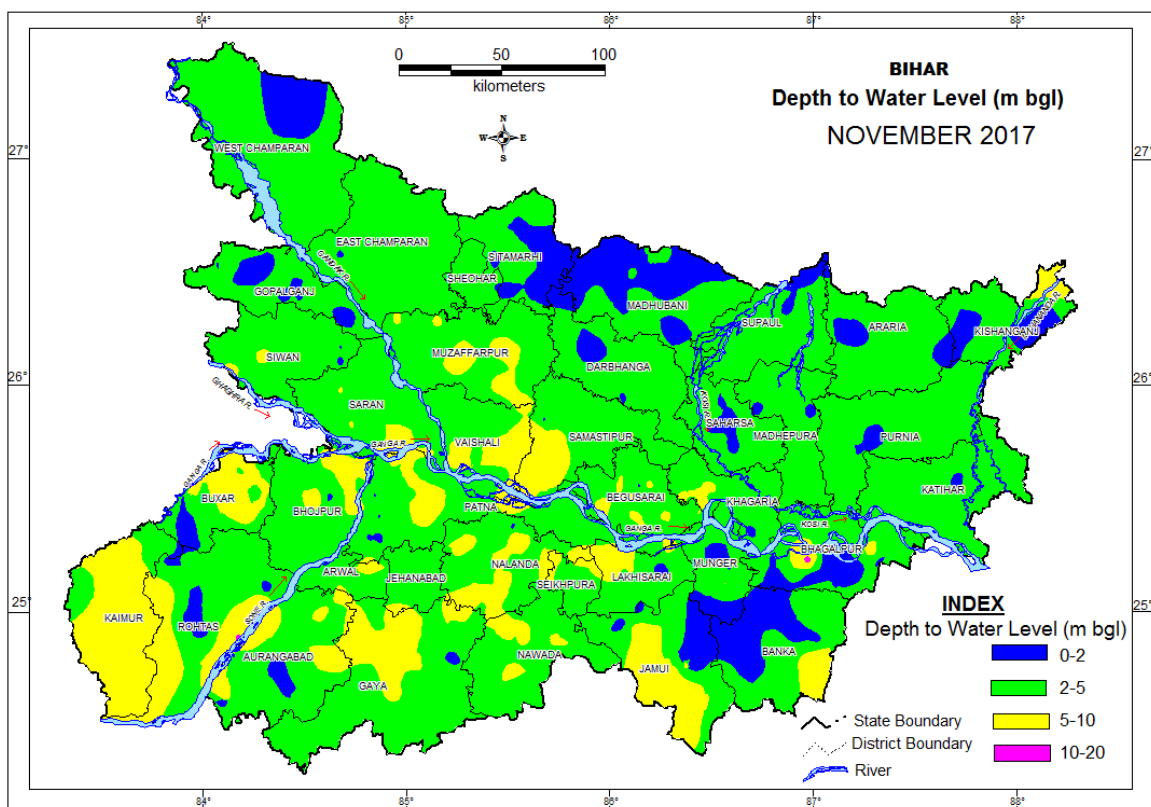
Fig. 5: Depth to water level in August 2017

**Table 5** District wise well frequency for different ranges of depth to water level of HNS in August. 2017 in Bihar state

			Min.	Max.	No.	%	No.	%	No.	%	No.	%
1	Araria	8	1.11	2.92	4	50	4	50	0	0	0	0
2	Aurangabad	18	0.07	9	7	39	8	44	3	17	0	0
3	Banka	15	1.08	4.94	7	47	8	53	0	0	0	0
4	Begusarai	32	0.9	6.56	3	9	26	81	3	9	0	0
5	Bhagalpur	16	0.75	12.64	7	44	8	50	0	0	1	6
6	Bhojpur	34	0.57	6.97	5	15	17	50	12	35	0	0
7	Buxar	25	0.5	8.73	7	28	10	40	8	32	0	0
8	Darbhanga	11	0.53	2.74	9	82	2	18	0	0	0	0
9	Gaya	21	1.33	6.62	6	29	11	52	4	19	0	0
10	Gopalganj	22	0.93	4.68	5	23	17	77	0	0	0	0
11	Jamui	17	0.68	11.49	7	41	6	35	3	18	1	6
12	Jehanabad	19	0.6	5.67	7	37	11	58	1	5	0	0
13	Kaimur	11	1.83	8.62	1	9	7	64	3	27	0	0
14	Katihar	14	1.15	5.51	1	7	12	86	1	7	0	0
15	Khagaria	19	1.03	4.75	4	21	15	79	0	0	0	0
16	Kishanganj	6	0.56	7.62	5	83	0	0	1	17	0	0
17	Lakhisarai	9	0.76	5.48	4	44	3	33	2	22	0	0
18	Madhepura	14	0.73	4.05	7	50	7	50	0	0	0	0
19	Madhubani	22	0.2	2.96	20	91	2	9	0	0	0	0
20	Munger	8	1.02	5.5	3	38	3	38	2	25	0	0
21	Muzaffarpur	23	0.84	6.5	3	13	16	70	4	17	0	0
22	Nalanda	36	0.64	7.35	10	28	16	44	10	28	0	0
23	Nawada	16	0.87	5.05	6	38	8	50	2	13	0	0
24	W champaran	17	0.65	4.76	11	65	6	35	0	0	0	0
25	Patna	33	0.63	6.9	13	39	18	55	2	6	0	0
26	E champaran	24	0.7	3.15	14	58	10	42	0	0	0	0
27	Purnia	19	1.21	3.84	6	32	13	68	0	0	0	0
28	Rohtas	20	0.17	9.85	10	50	4	20	6	30	0	0
29	Saharsa	16	0.84	2.35	11	69	5	31	0	0	0	0
30	Samastipur	18	0.15	6.58	5	28	11	61	2	11	0	0
31	Saran	33	0.27	6.72	7	21	23	70	3	9	0	0
32	Seikhpura	5	1.01	6.01	2	40	1	20	2	40	0	0
33	Sheohar	2	1.2	3.52	1	50	1	50	0	0	0	0
34	Sitamarhi	17	0.46	2.63	16	94	1	6	0	0	0	0
35	Siwan	20	0.91	4.78	5	25	15	75	0	0	0	0
36	Supaul	23	0.46	3.67	15	65	8	35	0	0	0	0
37	Vaishali	19	2.01	5.39	0	0	18	95	1	5	0	0
	Total	682	0.07	12.64	254	37	351	51	75	11	2	0

### 3.1.3 November 2017

Total 673 HNS wells were analysed during post-monsoon period (November 2017). The minimum and the maximum depth to water levels have been recorded as 0.21 m bgl (Rohtas district) and 12.03 m bgl (Jamui district) respectively. In major area of the State (76% ) water level rests in range of 2 – 5 m bgl which covers almost entire Northern part and major part of Southern part of Bihar State. The depth to water level in the range of 5-10 m bgl occurs in about 25 % of the area, which occurs in part of Kaimur, Rohtas, Gaya, Jmaui, Samastipur, Vaishali, and Muzaffarpur districts and many other places as small patches. The water level in the range of 0 – 2 m bgl has been observed in only 16% of HNS, spatially covers as small patches at many locations (Sitamarhi, Madhubani, Araria, Kishanganj, Bhagalpur, Banka, Jamui, Aurangabad, Rohtas, Buxar and W Champaran district, and many small parts of the state) There are only 3 HNS stations in Rohtas, Jamui, Bhagalpur there where level has been observed more than 10 m bgl (**Fig. 6; Table 7**).



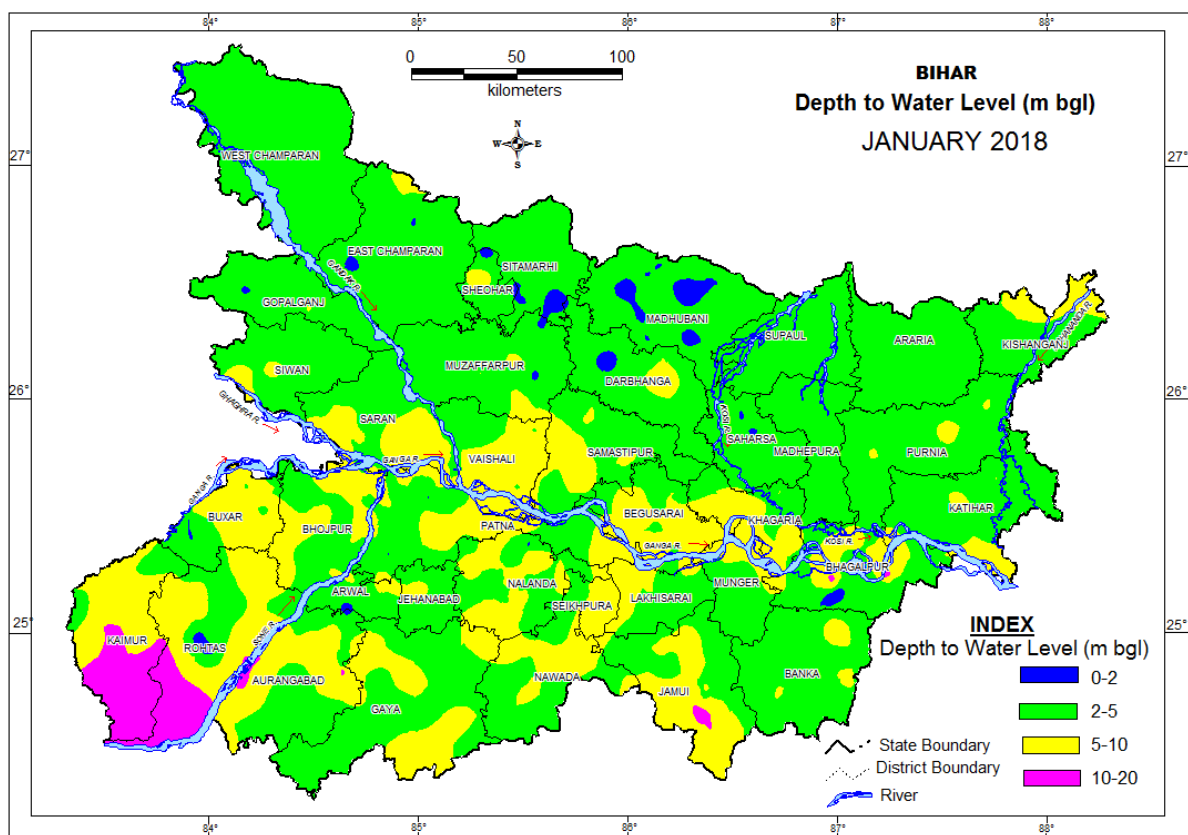
*Fig. 6: Depth to water level in November 2017*

**Table 7** District wise well frequency for different ranges of depth to water level of HNS in Nov. 2017 in Bihar state

			Min.	Max.	No.	%	No.	%	No.	%	No.	%
1	Araria	8	1.25	3.31	2	25	6	75	0	0	0	0
2	Aurangabad	18	1.32	9.26	4	22	10	56	4	22	0	0
3	Banka	16	0.78	6.4	8	50	6	38	2	13	0	0
4	Begusarai	33	1.55	9.37	1	3	21	64	11	33	0	0
5	Bhagalpur	14	1.18	11.14	6	43	6	43	1	7	1	7
6	Bhojpur	34	1.58	8.2	1	3	17	50	16	47	0	0
7	Buxar	25	1.45	9.17	2	8	9	36	14	56	0	0
8	Darbhanga	8	1.68	3.15	2	25	6	75	0	0	0	0
9	Gaya	22	1.62	8.45	1	5	13	59	8	36	0	0
10	Gopalganj	24	0.5	4.54	9	38	15	63	0	0	0	0
11	Jamui	16	1.04	12.03	5	31	6	38	4	25	1	6
12	Arwal & Jehanabad	16	1.98	6.05	1	6	12	75	3	19	0	0
13	Kaimur	11	2.18	9.66	0	0	2	18	9	82	0	0
14	Katihar	15	1.56	3.48	2	13	13	87	0	0	0	0
15	Khagaria	18	1.52	5.54	1	6	11	61	6	33	0	0
16	Kishanganj	8	1.13	8.36	2	25	5	63	1	13	0	0
17	Lakhisarai	10	1.23	7.52	2	20	4	40	4	40	0	0
18	Madhepura	12	1.57	4	2	17	10	83	0	0	0	0
19	Madhubani	21	0.47	3.85	11	52	10	48	0	0	0	0
20	Munger	9	1.24	5.1	4	44	4	44	1	11	0	0
21	Muzaffarpur	23	2.1	6.49	0	0	15	65	8	35	0	0
22	Nalanda	33	1.46	9.48	2	6	17	52	14	42	0	0
23	Nawada	16	2.1	8.57	0	0	12	75	4	25	0	0
24	W Champaran	12	1.48	4.7	1	8	11	92	0	0	0	0
25	Patna	33	1.48	8.63	4	12	22	67	7	21	0	0
26	E Champaran	31	1.7	4.55	2	6	29	94	0	0	0	0
27	Purnia	17	1.61	4.2	3	18	14	82	0	0	0	0
28	Rohtas	20	0.21	10.63	5	25	9	45	5	25	1	5
29	Saharsa	15	1.38	3.59	5	33	10	67	0	0	0	0
30	Samastipur	18	1.71	6.32	2	11	11	61	5	28	0	0
31	Saran	34	0.65	6.27	2	6	24	71	8	24	0	0
32	Seikhpura	6	2.3	6.42	0	0	4	67	2	33	0	0
33	Sheohar	1	2.12	2.12	0	0	1	100	0	0	0	0
34	Sitamarhi	16	0.91	3.55	7	44	9	56	0	0	0	0
35	Siwan	20	1.68	5.57	2	10	16	80	2	10	0	0
36	Supaul	23	1.39	4.17	4	17	19	83	0	0	0	0
37	Vaishali	17	3.14	6.35	0	0	12	71	5	29	0	0
	<b>Total</b>	<b>673</b>	<b>0.21</b>	<b>12.03</b>	<b>105</b>	<b>16</b>	<b>421</b>	<b>63</b>	<b>144</b>	<b>21</b>	<b>3</b>	<b>0</b>

### 3.1.0 January 2018

During the recession period (Jan. 2018), 705 HNS were analysed. The minimum depth to water level of 0.45 m below ground level (bgl) has been observed in Rohtas district, and maximum water level of 13.4 m bgl has been observed in the Jamui district. The depth to water level rests in range of 2 – 5 m bgl in major part (71% area) of Bihar State. The depth to water level rests in the range of 5 – 10 m bgl in 25% of the area covering adjoining area and major part of Lakhisarai, Muzaffarpur, Saran, Vaishali, Begusarai, Aurangabad, Rohtas, Kaimur, Buxer and many locations as patches. Only in 14 wells located in Aurangabad, Bhagalpur, Kaimur, Buxer and Rohtas district depth to water level >10m bgl has been observed. (**Fig.7; Table 8**).



*Fig. 7: Depth to water level in January 2018*

**Table 8** District wise well frequency for different ranges of depth to water level of HNS in **Jan. 2018** in Bihar state

			Min.	Max.	No.	%	No.	%	No.	%	No.	%
1	Araria	6	3.19	4.67	0	0	6	100	0	0	0	0
2	Aurangabad	18	2.3	11.05	0	0	10	56	5	28	3	17
3	Banka	16	2.13	6.75	0	0	12	75	4	25	0	0
4	Begusarai	34	3.06	8.61	0	0	11	32	23	68	0	0
5	Bhagalpur	15	0.75	12.5	1	7	8	53	4	27	2	13
6	Bhojpur	37	2.1	7.92	0	0	16	43	21	57	0	0
7	Buxar	25	1.89	10.44	2	8	8	32	14	56	1	4
8	Darbhanga	10	1.55	6.8	1	10	8	80	1	10	0	0
9	Gaya	18	3.03	8.88	0	0	10	56	8	44	0	0
10	Gopalganj	23	1.49	5.71	1	4	21	91	1	4	0	0
11	Jamui	18	2.08	13.4	0	0	8	44	7	39	3	17
12	Jehanabad	18	1.23	7.54	1	6	13	72	4	22	0	0
13	Kaimur	11	2.45	12.49	0	0	2	18	7	64	2	18
14	Katihar	16	3.28	5.56	0	0	12	75	4	25	0	0
15	Khagaria	20	3.57	7.26	0	0	2	10	18	90	0	0
16	Kishanganj	8	3.02	9.9	0	0	7	88	1	13	0	0
17	Lakhisarai	10	1.09	9.94	1	10	5	50	4	40	0	0
18	Madhepura	17	2.12	4.54	0	0	17	100	0	0	0	0
19	Madhubani	25	0.99	4.8	9	36	16	64	0	0	0	0
20	Munger	10	2.43	6.23	0	0	8	80	2	20	0	0
21	Muzaffarpur	25	1.36	6.06	2	8	17	68	6	24	0	0
22	Nalanda	35	1.63	9.83	2	6	19	54	14	40	0	0
23	Nawada	16	2.13	8.77	0	0	9	56	7	44	0	0
24	W champaran	15	2.35	4.58	0	0	15	100	0	0	0	0
25	Patna	31	1.72	8.25	2	6	22	71	7	23	0	0
26	E champaran	32	1.36	7.5	2	6	29	91	1	3	0	0
27	Purnia	18	3.27	6.4	0	0	15	83	3	17	0	0
28	Rohtas	20	0.45	12.36	2	10	5	25	10	50	3	15
29	Saharsa	18	1.5	3.8	2	11	16	89	0	0	0	0
30	Samastipur	19	1.63	7.26	1	5	8	42	10	53	0	0
31	Saran	33	0.9	7.94	1	3	15	45	17	52	0	0
32	Seikhpura	6	2.69	7.94	0	0	4	67	2	33	0	0
33	Sheohar	4	1.61	7	1	25	2	50	1	25	0	0
34	Sitamarhi	17	1.51	3.46	3	18	14	82	0	0	0	0
35	Siwan	19	2.66	6.77	0	0	16	84	3	16	0	0
36	Supaul	24	2.1	4.19	0	0	24	100	0	0	0	0
37	Vaishali	18	2.71	6.94	0	0	7	39	11	61	0	0
	Total	705	0.45	13.4	34	5	437	62	220	31	14	2

## 3.2 SEASONAL FLUCTUATION

### 3.2.1 May 2017 to August 2017

Water level fluctuation between May 2017 and August 2017 has been analysed for 620 HNS to study the seasonal fluctuation of depth to water level, and its categorization in different depth zones. The analysis indicates rise in the water level in 595 (96%) HNS whereas the fall is observed only in 25 (4%) HNS. Majority of HNS (41%) have shown the rise of water level in the range of 2 to 4 m constituting 47% area of the State including maximum part of SBP and in NBP, major parts of E Champaran, Sitamarhi, Sheohar, Muzaffarpur, Darbhanga, Katihar, Khagaria, Begusarai and Vaishali district and many other small parts of the state. Rise of water level up to 2 m has been recorded in 33% (205 wells) NHS wells, covering major parts of Araria, Purnia, Supaul, W Champaran, Gopalganj, Siwan and Saran districts and some other parts as small patches. Only 22% of HNS have shown rise in water level of more than 4m. In major part of Kaimur, Rohtas, Aurangabad, Jamui, Banka, Munger, and Lakhisarai district rise of water level more than 4m has been recorded.

Few wells located in Muzaffarpur, Supaul, Gopalganj, W Champaran, Nalanda, Aurangabad, Bhojpur, Jehanabad, munger, Patna, Saran, and E Champaran, district have shown fall in water level <2m. Only 2 wells located in Saran and Muzaffarpur district shows fall in water level in the range of 2-4 m due to some local problem. (Fig.8; Table 9).

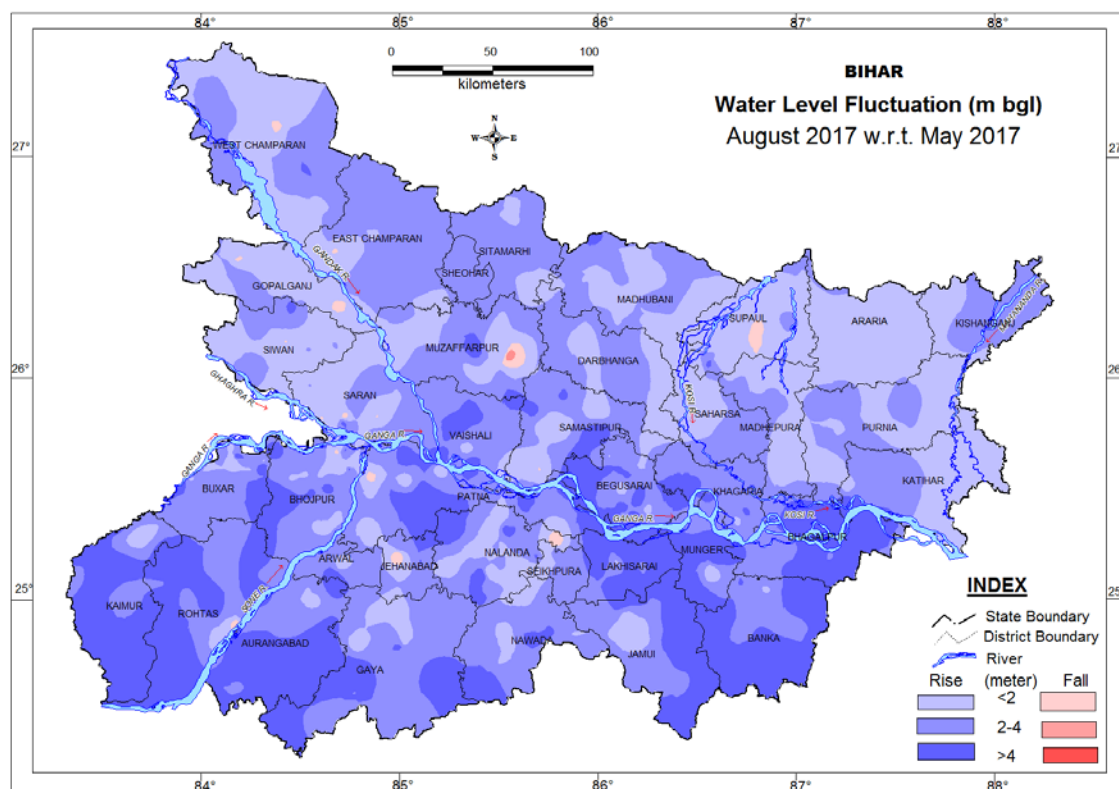


Fig. 7 Water level Fluctuation between May 2017 and August 2017

**Table – 9** District wise categorization of fluctuation and their frequency of water levels of HNS of Aug. 2017 w.r.t. May 2017

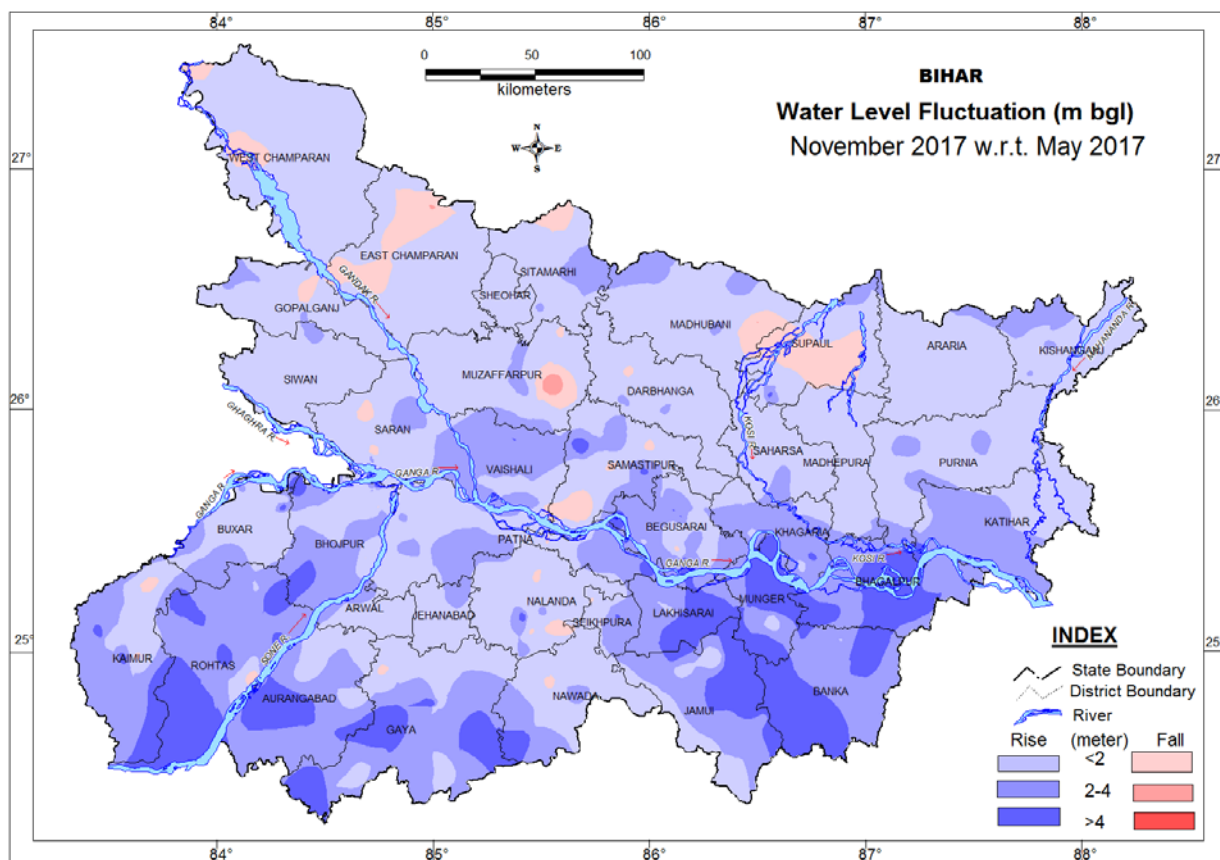
			Range of fluctuation (m)				No. of Wells / Percentage showing fluctuation												Rise	Fall	
			Rise		Fall		Rise						Fall								
			Min.	Max.	Min.	Max.	<2m	%	2-4m	%	>4m	%	<2m	%	2-4m	%	>4m	%			
1	Araria	7	1.1	1.96	-	-	7	100	0	0	0	0	0	0	0	0	0	0	0	7	0
2	Aurangabad	18	1.88	6.83	1.07	1.07	1	6	6	33	10	56	1	6	0	0	0	0	0	17	1
3	Banka	15	1.77	5.68	-	-	1	7	7	47	7	47	0	0	0	0	0	0	0	15	0
4	Begusarai	22	1.01	6.68	-	-	4	18	9	41	9	41	0	0	0	0	0	0	0	22	0
5	Bhagalpur	16	2.09	7.47	-	-	0	0	6	38	10	63	0	0	0	0	0	0	0	16	0
6	Bhojpur	34	0.58	5.04	0.34	0.34	10	29	16	47	7	21	1	3	0	0	0	0	0	33	1
7	Buxar	24	0.44	6.88	-	-	10	42	9	38	5	21	0	0	0	0	0	0	0	24	0
8	Darbhanga	9	0.52	3.8	-	-	2	22	7	78	0	0	0	0	0	0	0	0	0	9	0
9	Gaya	20	1.38	7.11	-	-	3	15	12	60	5	25	0	0	0	0	0	0	0	20	0
10	Gopalganj	22	0.42	5.11	0.01	1.37	13	59	5	23	1	5	3	14	0	0	0	0	0	19	3
11	Jamui	15	0.55	6.33	-	-	2	13	5	33	8	53	0	0	0	0	0	0	0	15	0
12	Jehanabad	16	1.1	6.11	1.71	1.71	2	13	10	63	3	19	1	6	0	0	0	0	0	15	1
13	Kaimur	11	0.22	6.74	-	-	1	9	4	36	6	55	0	0	0	0	0	0	0	11	0
14	Katihar	13	0.53	5.86	-	-	4	31	8	62	1	8	0	0	0	0	0	0	0	13	0
15	Khagaria	12	1.49	5.81	-	-	1	8	4	33	7	58	0	0	0	0	0	0	0	12	0
16	Kishanganj	6	1.9	2.81	-	-	2	33	4	67	0	0	0	0	0	0	0	0	0	6	0
17	Lakhisarai	7	1.58	6.07	-	-	1	14	2	29	4	57	0	0	0	0	0	0	0	7	0
18	Madhepura	14	1.43	2.46	-	-	7	50	7	50	0	0	0	0	0	0	0	0	0	14	0
19	Madhubani	22	0.3	4.41	-	-	11	50	9	41	2	9	0	0	0	0	0	0	0	22	0
20	Munger	8	2.84	6.54	0.04	0.04	0	0	2	25	5	63	1	13	0	0	0	0	0	7	1
21	Muzaffarpur	21	0.69	6.47	3.41	2.41	10	48	8	38	2	10	0	0	1	5	0	0	0	20	1
22	Nalanda	33	0.1	5.68	1.39	1.39	15	45	10	30	7	21	1	3	0	0	0	0	0	32	1
23	Nawada	16	0.47	6.09	-	-	6	38	7	44	3	19	0	0	0	0	0	0	0	16	0
24	W. Champaran	15	0.35	4.28	1.83	1.83	7	47	6	40	1	7	1	7	0	0	0	0	0	14	1
25	Patna	22	0.29	6.49	1.27	1.27	7	32	7	32	7	32	1	5	0	0	0	0	0	21	1
26	E. Champaran	23	0.31	3.7	0.1	0.21	5	22	16	70	0	0	2	9	0	0	0	0	0	21	2
27	Purnia	18	0.5	3.48	0.06	0.06	9	50	8	44	0	0	1	6	0	0	0	0	0	17	1
28	Rohtas	20	1.04	6.74	1.22	1.22	1	5	8	40	10	50	1	5	0	0	0	0	0	19	1
29	Saharsa	15	0.57	3.07	-	-	11	73	4	27	0	0	0	0	0	0	0	0	0	15	0
30	Samastipur	17	0.05	6.1	0.1	0.1	4	24	7	41	5	29	1	6	0	0	0	0	0	16	1
31	Saran	30	0.59	6.28	0.09	2.17	11	37	11	37	3	10	4	13	1	3	0	0	0	25	5
32	Seikhpura	5	0.4	4.29	-	-	4	80	0	0	1	20	0	0	0	0	0	0	0	5	0
33	Sheohar	1	2.16	2.16	-	-	0	0	1	100	0	0	0	0	0	0	0	0	0	1	0
34	Sitamarhi	16	0.69	3.21	-	-	4	25	12	75	0	0	0	0	0	0	0	0	0	16	0
35	Siwan	18	0.33	3.72	0.1	0.1	13	72	4	22	0	0	1	6	0	0	0	0	0	17	1
36	Supaul	21	0.04	4.97	0.1	0.47	14	67	3	14	1	5	3	14	0	0	0	0	0	18	3
37	Vaishali	18	0.93	7.25	-	-	2	11	10	56	6	33	0	0	0	0	0	0	0	18	0
	<b>Total</b>	620	0.04	7.47	0.01	2.41	205	33	254	41	136	22	23	4	2	0	0	0	0	595	25



### 3.2.2 May 2017 to November 2017

Water level fluctuations between May 2017 and November 2017 has been analysed for 618 HNS. The rise of water level observed in 574 (93%) HNS ranged from 0.01 (Sheikhpura) to 9.98 m (Jamui) whereas, only 44 (7%) HNS have shown fall in water level ranged from 0.01 (Sheikhpura) to 3.66 m (Muzaffarpur). The majority of HNS (350 well, 57%) have shown rise in the range of 0-2 m, whereas the 161 and 63 NHS have shown rise in water level in the range of 2-4 m and >4m respectively.

About 96 % area of the State has shown rise in water level. The 0-2 m segment covering 57% area of the state has spread in the major part and a larger area of NBP and in SBP, major part of Nalanda, Nawada, Patna, Arwal and Buxer district and many other localised area of the State. About 29% area covering major part of SBP and parts of Vaishali, Begusarai, Khagaria, and Katihar district in NBP has shown water level rise in the range of 2-4 m. The areas covering part of Banka, Bhagalpur, Munger, Lakhisarai, Gaya, Aurangabad, Rohtas, and Kaimur district are shown water level rise in the range of more than 4 m. The fall is recorded as dissiminated patches at many locations (small patches in Supaul, Samastipur, Muzaffarpur, E Champaran, and Nalanda district) in the State. **(Fig 9, Table 10).**



**Fig. 9:** Fluctuation in ground water level between May 2017 and Nov. 2017.

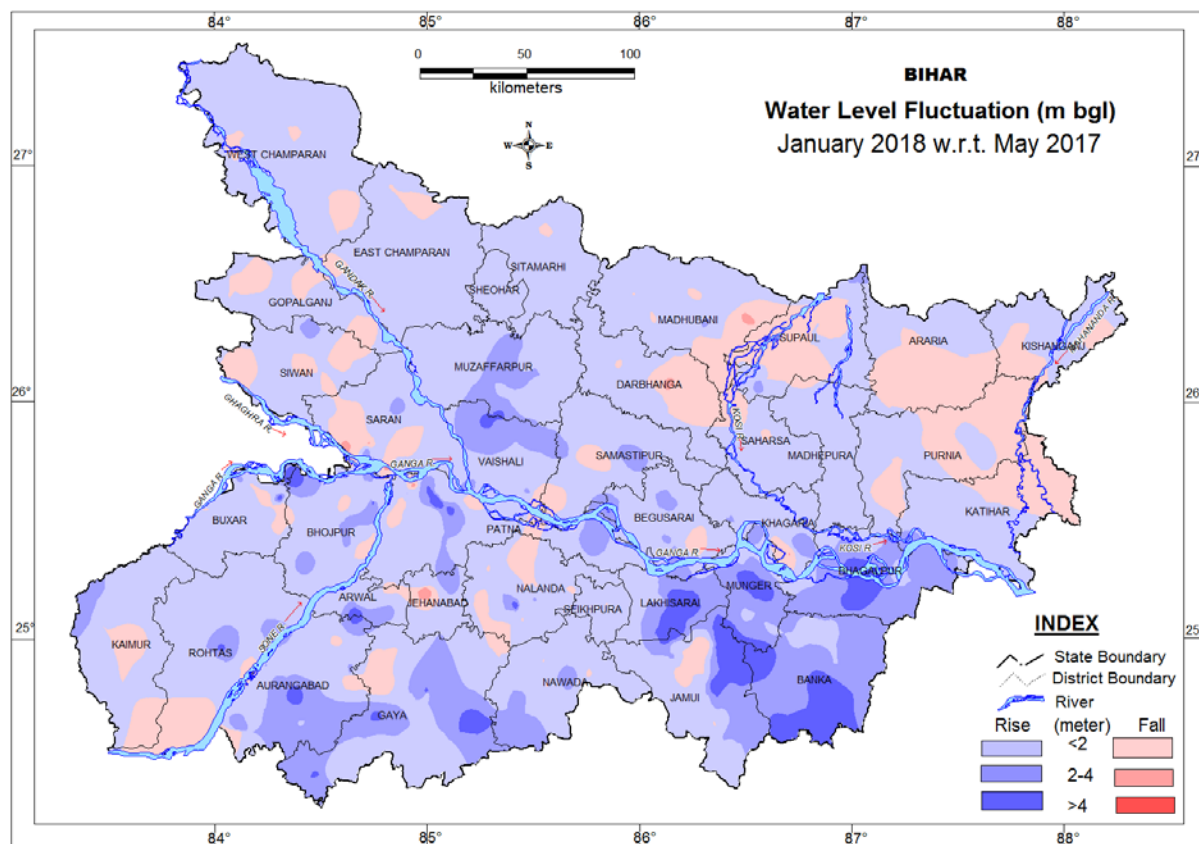
**Table – 10** District wise categorization of fluctuation and their frequency of water levels of HNS of Nov. 2017 w.r.t. May 2017

		Range of fluctuation (m)				No. of Wells / Percentage showing fluctuation												Rise	Fall	
		Rise		Fall		Rise						Fall								
		Min.	Max.	Min.	Max.	<2m	%	2-4m	%	>4m	%	<2m	%	2-4m	%	>4m	%			
Araria	7	0.41	1.98	-	-	7	100	0	0	0	0	0	0	0	0	0	0	0	7	0
Aurangabad	18	0.2	5.32	-	-	6	33	7	39	5	28	0	0	0	0	0	0	0	18	0
Banka	16	1.78	5.96	-	-	1	6	10	63	5	31	0	0	0	0	0	0	0	16	0
Begusarai	23	0.79	5.74	0.84	0.84	10	43	8	35	4	17	1	4	0	0	0	0	0	22	1
Bhagalpur	14	2.62	4.69	-	-	0	0	6	43	8	57	0	0	0	0	0	0	0	14	0
Bhojpur	34	0.19	5.1	0.06	0.23	19	56	10	29	3	9	2	6	0	0	0	0	0	32	2
Buxar	24	0.1	5.92	0.03	0.03	17	71	4	17	2	8	1	4	0	0	0	0	0	23	1
Darbhanga	7	1.13	2.24	0.24	0.24	4	57	2	29	0	0	1	14	0	0	0	0	0	6	1
Gaya	20	0.64	5.65	0.3	0.3	7	35	8	40	4	20	1	5	0	0	0	0	0	19	1
Gopalganj	18	0.66	3.16	1.54	1.54	12	67	5	28	0	0	1	6	0	0	0	0	0	17	1
Jamui	12	0.08	4.98	-	-	3	25	5	42	4	33	0	0	0	0	0	0	0	12	0
Jehanabad	16	0.31	2.98	-	-	14	88	2	13	0	0	0	0	0	0	0	0	0	16	0
Kaimur	11	0.04	5.02	0.35	0.78	3	27	4	36	2	18	2	18	0	0	0	0	0	9	2
Katihar	13	1.14	4.72	-	-	3	23	9	69	1	8	0	0	0	0	0	0	0	13	0
Khagaria	12	1.37	4.2	-	-	3	25	8	67	1	8	0	0	0	0	0	0	0	12	0
Kishanganj	8	0.52	2.55	-	-	5	63	3	38	0	0	0	0	0	0	0	0	0	8	0
Lakhisarai	8	1.11	5.68	-	-	1	13	4	50	3	38	0	0	0	0	0	0	0	8	0
Madhepura	12	0.35	2.26	-	-	11	92	1	8	0	0	0	0	0	0	0	0	0	12	0
Madhubani	21	0.03	3.94	2.05	2.05	17	81	3	14	0	0	0	0	1	5	0	0	0	20	1
Munger	9	0.36	4.99	-	-	1	11	3	33	5	56	0	0	0	0	0	0	0	9	0
Muzaffarpur	22	0.11	2.76	0.39	2.66	17	77	3	14	0	0	1	5	1	5	0	0	0	20	2
Nalanda	31	0.07	5.99	0.12	0.5	24	77	3	10	1	3	3	10	0	0	0	0	0	28	3
Nawada	15	0.1	4.36	0.76	0.76	10	67	2	13	2	13	1	7	0	0	0	0	0	14	1
W Champaran	12	0.18	1.73	0.19	0.47	8	67	0	0	0	0	4	33	0	0	0	0	0	8	4
Patna	31	0.22	4.61	0.05	0.05	23	74	6	19	1	3	1	3	0	0	0	0	0	30	1
E Champaran	30	0.31	1.99	0.03	2.19	22	73	0	0	0	0	7	23	1	3	0	0	0	22	8
Purnia	15	0.47	2.88	-	-	11	73	4	27	0	0	0	0	0	0	0	0	0	15	0
Rohtas	20	1.26	6.12	2	2	3	15	9	45	7	35	1	5	0	0	0	0	0	19	1
Saharsa	14	0.07	2.83	-	-	13	93	1	7	0	0	0	0	0	0	0	0	0	14	0
Samastipur	17	0.31	6.1	0.31	0.69	7	41	5	29	2	12	3	18	0	0	0	0	0	14	3
Saran	31	0.05	3.17	1.3	1.52	20	65	9	29	0	0	2	6	0	0	0	0	0	29	2
Seikhpura	6	0.01	4.13	0.01	0.13	2	33	1	17	1	17	2	33	0	0	0	0	0	4	2
Sheohar	1	1.24	1.24	-	-	1	100	0	0	0	0	0	0	0	0	0	0	0	1	0
Sitamarhi	16	0.13	2.28	0.55	0.55	11	69	4	25	0	0	1	6	0	0	0	0	0	15	1
Siwan	18	0.05	1.62	-	-	18	100	0	0	0	0	0	0	0	0	0	0	0	18	0
Supaul	20	0.16	4.76	0.15	1.02	12	60	2	10	1	5	5	25	0	0	0	0	0	15	5
Vaishali	16	1.69	4.06	0.19	0.19	4	25	10	63	1	6	1	6	0	0	0	0	0	15	1
Total	618	0.01	6.12	0.01	2.66	350	57	161	26	63	10	41	7	3	0	0	0	0	574	44

### 3.2.3 May 2017 to January 2018

Water level fluctuation between May 2017 and January 2018 has been analysed for 639 HNS which indicates rise in water level in about 81 % (516 wells) of the HNS. The rise in water level in the range of 0 – 2 m in 62 % of the HNS, 2 – 4 m in 14% of the HNS and >4 m only in 5% HNS. About 67% area has shown rise in water level up to 2 m covers major part of Araria, Purnia, Katihar, Kishanganj, E & W Champaran, Gopalganj, Madhepura, Saharsa, and Saran Siwan, Kaimur, Rohtas, Buxer, Bhojpur, Nalanda, Nawada and Patna districts and some other parts of Bihar State. The range of 2 to 4 m rise has been observed in major parts of Banka, Bhagalpur and Munger districts and parts of Muzaffarpur, Vaishali, Gaya, Aurangabad, Nawada and Patna district and many localised areas constitutes about 14% area of the State. Small parts of Banka, Jamui, Munger, Bhagalpur, Lakhisarai districts shows water level rise more than 4 m.

The fall in water level has been observed in 123 wells (19%), 18 % well shows fall less than 2 m and only 10 wells located in Saran, Patna, Madhubani, Khagaria, Jehanabad, Aurangabad, and Darbhanga shows fall in water level 2-4 m. The range of 0-2 m fall is observed as patches in Araria, Purnia, Katihar, Supaul, Madhubani, darbhanga, Rohtas and Kaimur districts and other areas as small patches covering 15% of the area of the state. Only 10 well located in Saran and Patna has shown fall of water level 2-4 m (Fig. 10, Table 11).



**Fig. 10:** Fluctuation in ground water level between May 2017 and Jan. 2018.

**Table – 11** District wise categorization of fluctuation and their frequency of water levels of HNS of **Jan. 2018 w.r.t. May 2017** for Bihar State

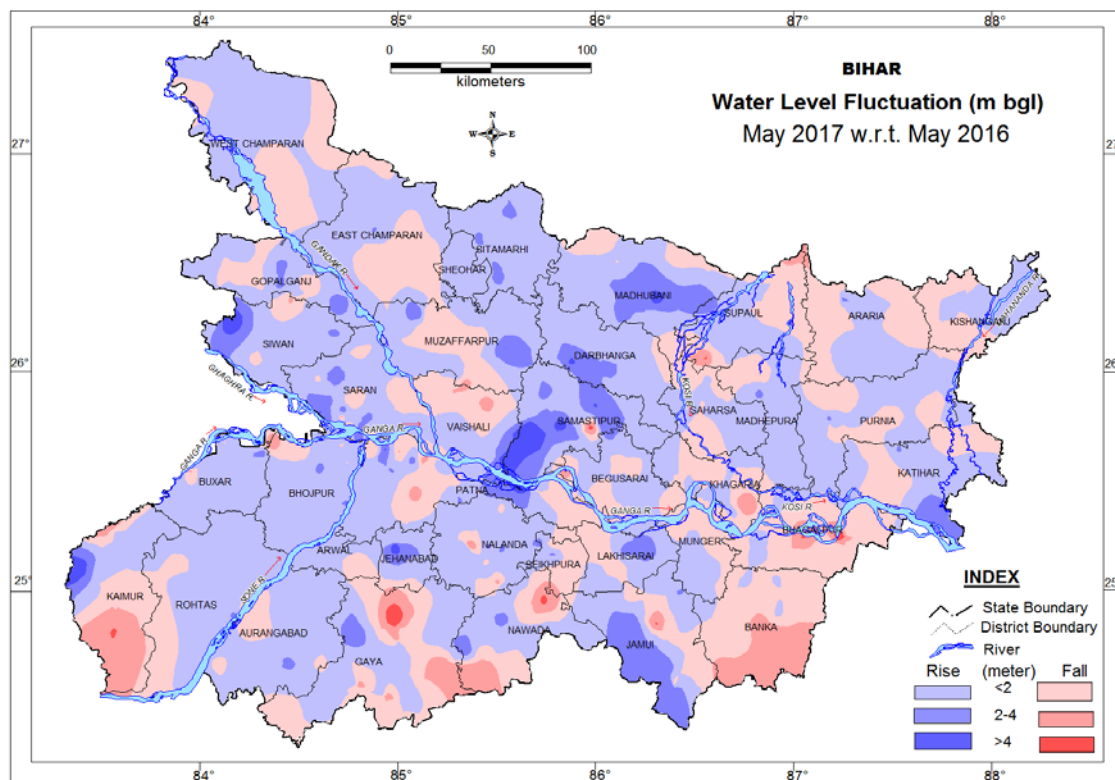
			Range of fluctuation (m)				No. of Wells / Percentage showing fluctuation														Rise	Fall
			Rise		Fall		Rise						Fall									
			Min.	Max.	Min.	Max.	<2m	%	2-4m	%	>4m	%	<2m	%	2-4m	%	>4m	%				
1	Araria	6	0.39	0.12	0.12	0.74	2	33	0	0	0	0	4	67	0	0	0	0	2	4		
2	Aurangabad	18	4.12	1.03	1.03	2.24	9	50	5	28	1	6	2	11	1	6	0	0	15	3		
3	Banka	16	4.95	-	-	-	6	38	8	50	2	13	0	0	0	0	0	0	16	0		
4	Begusarai	24	4.12	1.28	1.28	1.28	17	71	5	21	1	4	1	4	0	0	0	0	23	1		
5	Bhagalpur	15	4.8	-	-	-	5	33	8	53	2	13	0	0	0	0	0	0	15	0		
6	Bhojpur	37	5	0.03	0.03	0.95	23	62	8	22	2	5	4	11	0	0	0	0	33	4		
7	Buxar	24	4.79	0.15	0.15	1.21	15	63	3	13	1	4	5	21	0	0	0	0	19	5		
8	Darbhanga	9	1.78	0.11	0.11	2.52	7	78	0	0	0	0	1	11	1	11	0	0	7	2		
9	Gaya	17	4.35	0.13	0.13	0.73	9	53	1	6	4	24	3	18	0	0	0	0	14	3		
10	Gopalganj	17	3.83	0.17	0.17	1.98	11	65	1	6	0	0	5	29	0	0	0	0	12	5		
11	Jamui	15	5.07	0.08	0.08	1.67	4	27	5	33	3	20	3	20	0	0	0	0	12	3		
12	Jehanabad	14	4.48	0.28	0.28	3.58	8	57	2	14	1	7	2	14	1	7	0	0	11	3		
13	Kaimur	11	2.85	0.31	0.31	0.59	7	64	2	18	0	0	2	18	0	0	0	0	9	2		
14	Katihar	14	2.88	0.05	0.05	0.78	10	71	1	7	0	0	3	21	0	0	0	0	11	3		
15	Khagaria	13	3.46	0.43	0.43	2.12	9	69	2	15	0	0	1	8	1	8	0	0	11	2		
16	Kishanganj	8	0.69	0.07	0.07	1	4	50	0	0	0	0	4	50	0	0	0	0	4	4		
17	Lakhisarai	8	4.71	-	-	-	4	50	0	0	4	50	0	0	0	0	0	0	8	0		
18	Madhepura	17	1.56	0.09	0.09	0.09	16	94	0	0	0	0	1	6	0	0	0	0	16	1		
19	Madhubani	23	2.39	0.05	0.05	2.34	17	74	1	4	0	0	4	17	1	4	0	0	18	5		
20	Munger	10	4.6	-	-	-	3	30	4	40	3	30	0	0	0	0	0	0	10	0		
21	Muzaffarpur	24	3.06	-	-	-	19	79	5	21	0	0	0	0	0	0	0	0	24	0		
22	Nalanda	32	4.7	0.03	0.03	1.57	19	59	1	3	1	3	11	34	0	0	0	0	21	11		
23	Nawada	15	3.6	0.07	0.07	0.16	9	60	3	20	0	0	3	20	0	0	0	0	12	3		
24	W. Champaran	15	1.36	0.06	0.06	1	11	73	0	0	0	0	4	27	0	0	0	0	11	4		
25	Patna	29	4.25	0.07	0.07	2.67	13	45	5	17	3	10	7	24	1	3	0	0	21	8		
26	E. Champaran	30	2.03	0.03	0.03	0.37	26	87	1	3	0	0	3	10	0	0	0	0	27	3		
27	Purnia	16	1.44	0.1	0.1	0.72	7	44	0	0	0	0	9	56	0	0	0	0	7	9		
28	Rohtas	20	4.43	0.7	0.7	1.75	16	80	1	5	1	5	2	10	0	0	0	0	18	2		
29	Saharsa	17	1.55	0.31	0.31	0.31	16	94	0	0	0	0	1	6	0	0	0	0	16	1		
30	Samastipur	17	3.06	0.63	0.63	1.07	11	65	4	24	0	0	2	12	0	0	0	0	15	2		
31	Saran	30	3.69	0.16	0.16	3.94	15	50	5	17	0	0	6	20	4	13	0	0	20	10		
32	Seikhpura	6	3.02	0.02	0.02	0.9	2	33	2	33	0	0	2	33	0	0	0	0	4	2		
33	Sheohar	1	1.17	-	-	-	1	100	0	0	0	0	0	0	0	0	0	0	1	0		
34	Sitamarhi	16	1.98	0.61	0.61	0.61	15	94	0	0	0	0	1	6	0	0	0	0	15	1		
35	Siwan	16	1.64	0.29	0.29	1.76	10	63	0	0	0	0	6	38	0	0	0	0	10	6		
36	Supaul	22	3.61	0.01	0.01	0.74	10	45	2	9	0	0	10	45	0	0	0	0	12	10		
37	Vaishali	17	4.91	1.8	1.8	1.8	7	41	7	41	2	12	1	6	0	0	0	0	16	1		
	<b>Total</b>	639	5.07	0.01	0.01	3.94	393	62	92	14	31	5	113	18	10	2	0	0	516	123		

### 3.3.0 ANNUAL FLUCTUATION

#### 3.3.1 May 2016 to May 2017

Fluctuation of ground water level between May 2016 and May 2017 of 619 HNS has been analysed which indicates rise in water level in 430 wells (69%) of the HNS and fall in water level in 189 No (31%) of HNS. Almost entire State has shown rise in water level. Rise to the tune of 0 – 2 m has covered maximum area (58%) , which includes major parts of Sitamarhi, Darbhanga, Samastipur, Samastipur, Madhepura, Nalanda, Bhojpur, Aurangabad, Rotas, Buxar, Bhojpur, Saran and Siwan districts and many other small parts of the state. Parts of Madhepura, Darbhanga, Samastipur, Lakhisarai, Kaimur, Saran has shown water level rise between 2-4m. Very small part of Samastipur, Saran, Kaimur and Jehanabda districts has shown water level rise >4m.

Area where fall of water level is within 2 m spread over major part of E & W Champaran, Muzaffarpur, Vaishali, Araria, Kishanganj, Katihar, Bhagalpur, Banka, Lakhisarai, Begusarai, Sheikhpura, Nawada, Gaya, Rohtas, Kaimur and Patna district ans as patches at many places in the state constituting 30% area of the state. Water level fall in the range of 2-4 m observed in small parts of Banka, Jamui, Nawada, Gaya and Kaimur, district, and many other small patch like area in the state. Warer level rise >4m has been observed in Gaya, Kaimur, Jamui and Nawada district. **(Fig. 11, Table 12).**



**Fig. 11:** Fluctuation in ground water level between May 2016 and May 2017.

**Table –12 District-wise categorization of frequency and fluctuation water levels of HNS of May. 2017 w.r.t. May. 2016 for Bihar State**

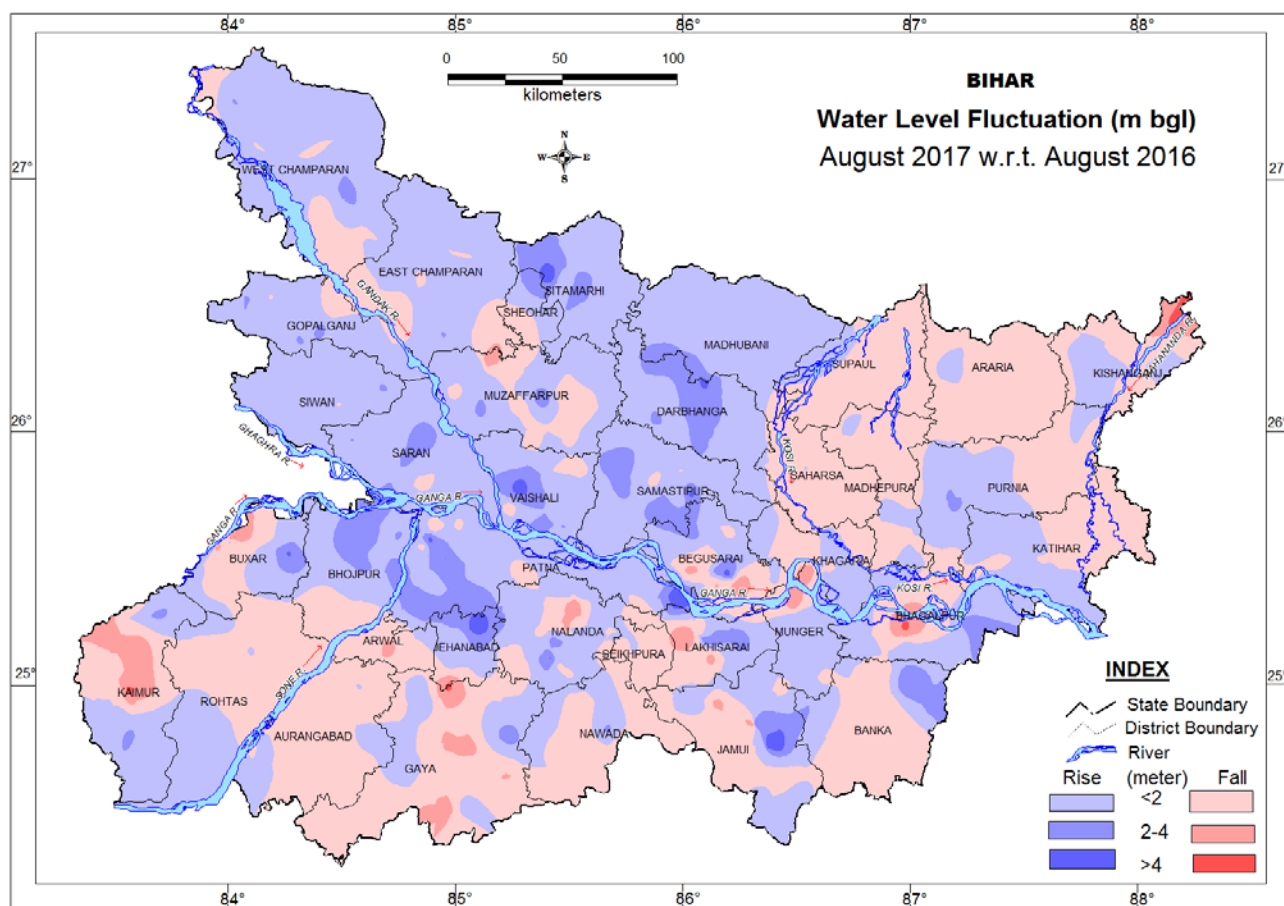
			Range of fluctuation (m)				No. of Wells / Percentage showing fluctuation												Rise	Fall
			Rise		Fall		Rise						Fall							
			Min.	Max.	Min.	Max.	<2m	%	2-4m	%	>4m	%	<2m	%	2-4m	%	>4m	%		
1	Araria	9	0.4	2.53	0.22	1.08	2	22	1	11	0	0	6	67	0	0	0	0	3	6
2	Aurangabad	16	0.15	4.01	0.13	2.03	10	63	1	6	1	6	3	19	1	6	0	0	12	4
3	Banka	12	0.39	0.79	0.36	3.56	3	25	0	0	0	0	6	50	3	25	0	0	3	9
4	Begusarai	22	0.17	1.5	0.1	2.87	14	64	0	0	0	0	7	32	1	5	0	0	14	8
5	Bhagalpur	14	0.31	0.62	0.11	4.01	3	21	0	0	0	0	9	64	0	0	2	14	3	11
6	Bhojpur	35	0.08	2.66	0.08	2.63	27	77	2	6	0	0	5	14	1	3	0	0	29	6
7	Buxar	24	0.02	4.07	0.09	2.54	20	83	1	4	1	4	1	4	1	4	0	0	22	2
8	Darbhanga	9	0.1	4.4	-	-	6	67	2	22	1	11	0	0	0	0	0	0	9	0
9	Gaya	21	0.36	2.46	0.39	4.06	10	48	1	5	0	0	4	19	4	19	2	10	11	10
10	Gopalganj	20	0.03	3.34	0.3	2.6	11	55	3	15	0	0	5	25	1	5	0	0	14	6
11	Jamui	17	0.78	3.72	0.05	4.25	5	29	4	24	0	0	7	41	0	0	1	6	9	8
12	Jehanabad	13	0.12	4.24	1.11	1.11	10	77	1	8	1	8	1	8	0	0	0	0	12	1
13	Kaimur	7	0.22	4.1	0.93	4.1	3	43	0	0	1	14	1	14	1	14	1	14	3	4
14	Katihar	16	0.06	2.6	0.43	0.83	9	56	2	13	0	0	5	31	0	0	0	0	11	5
15	Khagaria	13	0.07	1.05	0.53	3.64	9	69	0	0	0	0	2	15	2	15	0	0	9	4
16	Kishanganj	7	0.32	1.37	0.03	0.98	3	43	0	0	0	0	4	57	0	0	0	0	3	4
17	Lakhisarai	5	2.62	2.83	0.02	0.79	0	0	2	40	0	0	3	60	0	0	0	0	2	3
18	Madhepura	16	0.18	2.35	0.16	0.97	12	75	1	6	0	0	3	19	0	0	0	0	13	3
19	Madhubani	23	0.17	4.05	0.12	1.79	15	65	4	17	1	4	3	13	0	0	0	0	20	3
20	Munger	7	0.42	1.8	0.2	1.62	3	43	0	0	0	0	4	57	0	0	0	0	3	4
21	Muzaffarpur	23	0.03	4.04	0.05	1.29	13	57	1	4	1	4	8	35	0	0	0	0	15	8
22	Nalanda	31	0.09	4.14	0.17	4.14	21	68	1	3	1	3	6	19	1	3	1	3	23	8
23	Nawada	16	0.21	3.63	0.68	4.48	10	63	2	13	0	0	2	13	1	6	1	6	12	4
24	W.Champaran	13	0.08	0.62	0.07	0.88	8	62	0	0	0	0	5	38	0	0	0	0	8	5
25	Patna	25	0.09	4.02	0.14	2.63	9	36	5	20	2	8	6	24	3	12	0	0	16	9
26	E. Champaran	27	0.09	2.32	0.2	1.39	18	67	1	4	0	0	8	30	0	0	0	0	19	8
27	Purnia	18	0.03	2.76	0.46	1.1	12	67	1	6	0	0	5	28	0	0	0	0	13	5
28	Rohtas	17	0.07	2.27	0.05	0.6	13	76	1	6	0	0	3	18	0	0	0	0	14	3
29	Saharsa	15	0.01	1.06	0.01	0.99	10	67	0	0	0	0	5	33	0	0	0	0	10	5
30	Samastipur	15	0.22	4.35	4.88	4.08	6	40	5	33	3	20	0	0	0	0	1	7	14	1
31	Saran	30	0.26	4.02	0.23	2.76	16	53	3	10	3	10	6	20	2	7	0	0	22	8
32	Seikhpura	7	0.1	3.09	0.23	2.57	3	43	2	29	0	0	1	14	1	14	0	0	5	2
33	Sheohar	1	1.19	1.19	-	-	1	100	0	0	0	0	0	0	0	0	0	0	1	0
34	Sitamarhi	16	0.06	2.8	-	-	11	69	5	31	0	0	0	0	0	0	0	0	16	0
35	Siwan	19	0.05	4.5	0.48	0.48	14	74	3	16	1	5	1	5	0	0	0	0	18	1
36	Supaul	23	0.03	1.16	0.05	4.36	9	39	0	0	0	0	10	43	3	13	1	4	9	14
37	Vaishali	17	0.04	4.28	0.73	3.52	8	47	0	0	1	6	4	24	4	24	0	0	9	8
	<b>Total</b>	619	0.01	4.5	0.01	4.48	357	58	55	9	18	3	149	24	30	5	10	2	430	189

### 3.3.2 August 2016 to August 2017

Water level fluctuation between August 2016 and August 2017 has been analysed for 553 HNS, which indicates that the rise of water level is in about 59% of the HNS and fall in about 41% of the HNS. Rise and fall within 2 m has been observed in almost every part of the state. However, in general, western part in NBP and northern part in SBP has shown rise in water level constitutes 53% area of the state whereas the eastern part of NBP and western part of SBP has shown fall in the tune of 0-2 m covered total 39% area.

The rise of water level in the range of 2 to 4 m has been observed in part of Sitamarhi, Samastipur, Darbhanga, Vaishali, Patna, Bhojpur, Sraaan, Jamui and Banhka districts and many other localised places. Total 13 wells have shown rise in water level more than 4 m.

The segment 2 to 4 m fall has covered very small parts of Nalanda, Gaya, Jamui, Kaimur, Bhagalpur, and Lakhisarai district. Only 6 wells located in Kaimur, Gaya, Buxar and Bhagalpur district have shown fall more than 4 m. (Fig.12, Table 13).



**Fig. 12:** Fluctuation in ground water level between Aug. 2016 and Aug. 2017

**Table –13** District-wise categorization of frequency and fluctuation water levels of HNS of Aug. 2017 w.r.t. Aug. 2016 for Bihar State

			Range of fluctuation (m)				No. of Wells / Percentage showing fluctuation												Rise	Fall
			Rise		Fall		Rise						Fall							
			Min.	Max.	Min.	Max.	<2m	%	2-4m	%	>4m	%	<2m	%	2-4m	%	>4m	%		
1	Araria	7	0.23	0.9	0.35	1.77	2	29	0	0	0	0	5	71	0	0	0	0	2	5
2	Aurangabad	13	0.07	0.95	0.3	1.86	5	38	0	0	0	0	8	62	0	0	0	0	5	8
3	Banka	14	0.27	3.32	0.13	1.7	2	14	2	14	0	0	10	71	0	0	0	0	4	10
4	Begusarai	22	0.27	4.66	0.01	2.95	8	36	3	14	1	5	7	32	3	14	0	0	12	10
5	Bhagalpur	9	0.04	2.22	1.33	4.44	5	56	1	11	0	0	2	22	0	0	1	11	6	3
6	Bhojpur	17	0.84	3.26	1.13	1.13	10	59	6	35	0	0	1	6	0	0	0	0	16	1
7	Buxar	12	0.06	4.43	0.1	4.09	5	42	2	17	1	8	2	17	1	8	1	8	8	4
8	Darbhanga	11	0.78	4.22	-	-	4	36	6	55	1	9	0	0	0	0	0	0	11	0
9	Gaya	19	0.46	2.55	0.24	4.5	4	21	1	5	0	0	7	37	5	26	2	11	5	14
10	Gopalganj	20	0.05	4.11	0.06	0.24	14	70	2	10	1	5	3	15	0	0	0	0	17	3
11	Jamui	17	0.14	4.5	0.13	3.24	7	41	2	12	1	6	5	29	2	12	0	0	10	7
12	Jehanabad	10	0.07	4.12	0.5	2.43	3	30	2	20	1	10	3	30	1	10	0	0	6	4
13	Kaimur	9	0.18	2.42	0.93	4.56	1	11	2	22	0	0	2	22	3	33	1	11	3	6
14	Katihar	13	0.05	1.6	0.1	0.84	7	54	0	0	0	0	6	46	0	0	0	0	7	6
15	Khagaria	15	0.03	1.56	0.14	0.88	8	53	0	0	0	0	7	47	0	0	0	0	8	7
16	Kishanganj	6	0.43	0.61	0.1	4.12	3	50	0	0	0	0	2	33	0	0	1	17	3	3
17	Lakhisarai	7	2.71	3.92	1.1	3.18	0	0	3	43	0	0	2	29	2	29	0	0	3	4
18	Madhepura	13	0.54	1.31	0.05	1.53	3	23	0	0	0	0	10	77	0	0	0	0	3	10
19	Madhubani	20	0.05	2.59	-	-	18	90	2	10	0	0	0	0	0	0	0	0	20	0
20	Munger	6	1.12	1.9	0.42	3.11	3	50	0	0	0	0	1	17	2	33	0	0	3	3
21	Muzaffarpur	21	0.02	3.48	0.06	2.63	10	48	2	10	0	0	8	38	1	5	0	0	12	9
22	Nalanda	32	0.15	4.18	0.08	3.89	18	56	2	6	1	3	8	25	3	9	0	0	21	11
23	Nawada	16	0.46	2.42	0.06	1.81	4	25	1	6	0	0	11	69	0	0	0	0	5	11
24	W. Champaran	15	0.03	2.72	0.05	0.95	6	40	2	13	0	0	7	47	0	0	0	0	8	7
25	Patna	15	0.03	4.56	0.24	0.95	7	47	1	7	3	20	4	27	0	0	0	0	11	4
26	E. Champaran	19	0.02	2.1	0.17	1.73	12	63	1	5	0	0	6	32	0	0	0	0	13	6
27	Purnia	19	0.06	2.48	0.22	1.41	9	47	2	11	0	0	8	42	0	0	0	0	11	8
28	Rohtas	17	0.03	0.84	0.05	2.04	4	24	0	0	0	0	12	71	1	6	0	0	4	13
29	Saharsa	15	0.11	0.11	0.19	0.81	1	7	0	0	0	0	14	93	0	0	0	0	1	14
30	Samastipur	16	0.05	4.51	0.03	0.32	9	56	4	25	1	6	2	13	0	0	0	0	14	2
31	Saran	24	0.02	2.81	0.11	0.95	17	71	5	21	0	0	2	8	0	0	0	0	22	2
32	Seikhpura	5	0.22	0.48	0.39	2.27	3	60	0	0	0	0	1	20	1	20	0	0	3	2
33	Sheohar	2	1.7	1.7	0.92	0.92	1	50	0	0	0	0	1	50	0	0	0	0	1	1
34	Sitamarhi	16	0.18	4.14	-	-	12	75	3	19	1	6	0	0	0	0	0	0	16	0
35	Siwan	20	0.1	2.65	0.07	0.07	18	90	1	5	0	0	1	5	0	0	0	0	19	1
36	Supaul	22	-	-	0.02	2.54	0	0	0	0	0	0	21	95	1	5	0	0	0	22
37	Vaishali	19	0.17	4.55	0.16	1.8	10	53	4	21	1	5	4	21	0	0	0	0	15	4
	<b>Total</b>	553	0.02	4.66	0.01	4.56	253	46	62	11	13	2	193	35	26	5	6	1	328	225



### 3.3.3 November 2016 to November 2017

Water level fluctuation between November 2016 and November 2017 has been analysed for 585 HNS, which indicates that there is a rise of water level in about 55% of the HNS and fall in only 45% of the HNS. The rise of water level of 0-2 m range spread in 38% area covers maximum parts of Sheohar, Sitamarhi, Madhubani, Kishanganj, Katihar, Bhagalpur, Banka, Jamui, Munger, Saran And Siwan districts and many other small patches in the state. The segment of 2 to 4m rise mostly shown in SBP, in small parts of Nalanda, Aurangabad, Kaimur, Gaya and Patna districts. >4 m rise has been observed only in Kaimur, Gaya, Aurangabad, Patna, Buxar and Nalanda district.

Total 51% area of the State including maximum parts of E & W Champaran, Vaishali, Madhepura, Saharsa, Khagaria, Begusarai, Purnia and Araria district in NBP and almost entire part of SBP except major parts of Banka, Bhagalpur, Munger, Jamui and some other small patches is covered by the range of 0-2m fall in water level. Area covering very small parts of Muzaffarpur, Sitamarhi, Nalanda, Nawada, Patna, Gaya, Aurangabad, Kaimur and Buxar district has shown the fall of water level 2- 4 m. The range of > 4 m fall has been observed in Kaimur, Buxar, Aurangabad, Gaya, Patna and Nalanda district. (Fig.13, Table 14).

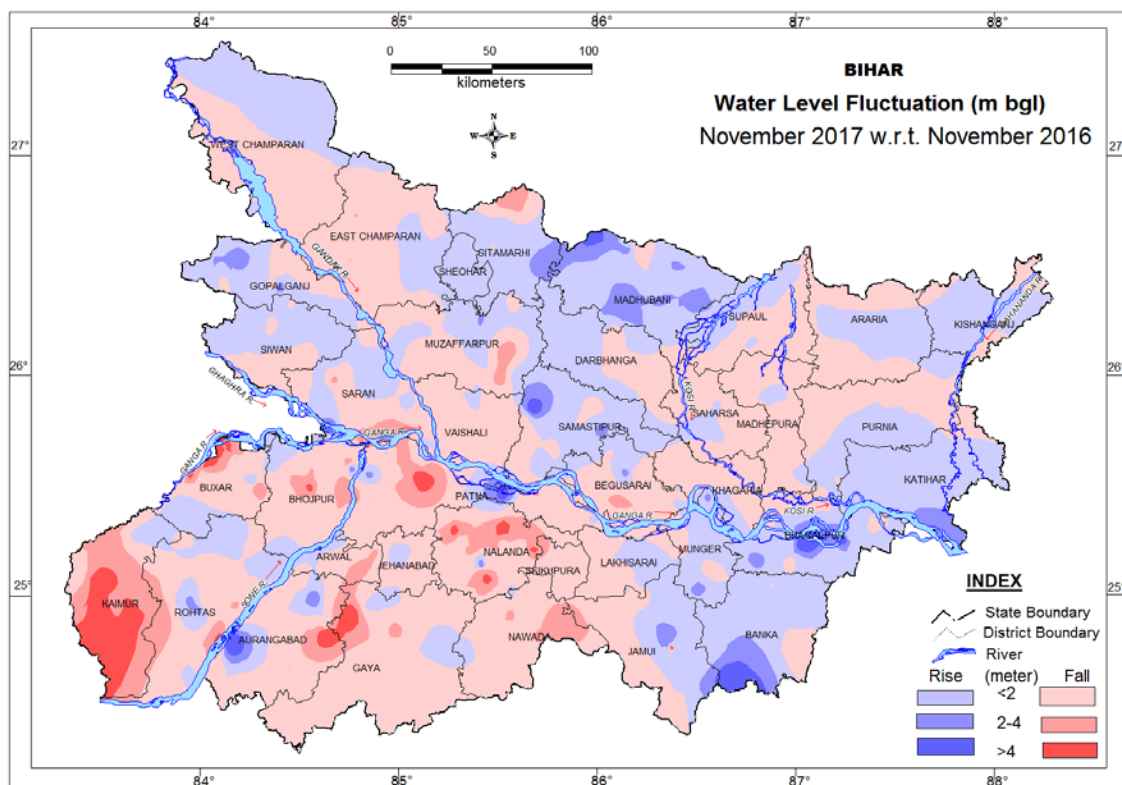


Fig. 13: Fluctuation in ground water level between Nov 2016 and Nov. 2017.

**Table –14** District-wise categorization of frequency and fluctuation water levels of HNS of Nov. 2017 w.r.t. Nov. 2016 for Bihar State

			Range of fluctuation (m)				No. of Wells / Percentage showing fluctuation												Rise	Fall
			Rise		Fall		Rise						Fall							
			Min.	Max.	Min.	Max.	<2m	%	2-4m	%	>4m	%	<2m	%	2-4m	%	>4m	%		
1	Araria	7	0.13	0.75	0.3	0.74	4	57	0	0	0	0	3	43	0	0	0	0	4	3
2	Aurangabad	16	0.01	4.5	0.06	4.88	2	13	1	6	1	6	11	69	0	0	1	6	4	12
3	Banka	11	0.1	4.12	0.81	1.76	7	64	1	9	1	9	2	18	0	0	0	0	9	2
4	Begusarai	22	0.08	3.45	0.01	4.17	4	18	1	5	0	0	15	68	1	5	1	5	5	17
5	Bhagalpur	13	0.05	4.42	0.28	0.59	6	46	1	8	2	15	4	31	0	0	0	0	9	4
6	Bhojpur	33	0.09	3.37	0.12	4.65	2	6	2	6	0	0	23	70	4	12	2	6	4	29
7	Buxar	24	0.1	1.69	0.35	4.74	5	21	0	0	0	0	10	42	3	13	6	25	5	19
8	Darbhanga	7	0.42	2.02	0.45	1.44	3	43	1	14	0	0	3	43	0	0	0	0	4	3
9	Gaya	17	0.58	0.92	0.15	4.64	3	18	0	0	0	0	12	71	1	6	1	6	3	14
10	Gopalganj	18	0.14	3.6	0.05	0.74	9	50	3	17	0	0	6	33	0	0	0	0	12	6
11	Jamui	14	0.12	3.56	0.15	4.66	6	43	1	7	0	0	6	43	0	0	1	7	7	7
12	Jehanabad	14	0.04	1.98	0.08	2.35	5	36	0	0	0	0	7	50	2	14	0	0	5	9
13	Kaimur	10	0.69	0.69	0.75	4.4	1	10	0	0	0	0	1	10	5	50	3	30	1	9
14	Katihar	13	0.01	3.03	-	-	12	92	1	8	0	0	0	0	0	0	0	0	13	0
15	Khagaria	13	0.09	1.68	0.36	1.65	6	46	0	0	0	0	7	54	0	0	0	0	6	7
16	Kishanganj	7	0.27	0.79	0.15	0.3	4	57	0	0	0	0	3	43	0	0	0	0	4	3
17	Lakhisarai	8	0.58	1.58	1.43	1.92	3	38	0	0	0	0	5	63	0	0	0	0	3	5
18	Madhepura	11	0.16	0.32	0.01	1.13	2	18	0	0	0	0	9	82	0	0	0	0	2	9
19	Madhubani	19	0.03	4.86	1.22	1.22	10	53	7	37	1	5	1	5	0	0	0	0	18	1
20	Munger	9	0.41	2.72	1.55	1.89	5	56	2	22	0	0	2	22	0	0	0	0	7	2
21	Muzaffarpur	22	0.16	2.24	0.01	3.49	7	32	2	9	0	0	11	50	2	9	0	0	9	13
22	Nalanda	30	0.24	4.01	0.02	4.63	2	7	0	0	1	3	18	60	4	13	5	17	3	27
23	Nawada	15	0.03	0.59	0.19	3.31	3	20	0	0	0	0	9	60	3	20	0	0	3	12
24	W.Champaran	9	0.04	0.5	0.42	1.12	2	22	0	0	0	0	7	78	0	0	0	0	2	7
25	Patna	24	0.11	4.26	0.31	4.27	3	13	1	4	1	4	13	54	5	21	1	4	5	19
26	E.Champaran	27	0.24	1.28	0.05	2.04	4	15	0	0	0	0	21	78	2	7	0	0	4	23
27	Purnia	16	0.07	0.46	0.02	1.32	9	56	0	0	0	0	7	44	0	0	0	0	9	7
28	Rohtas	20	0.05	2.77	0.43	4.04	7	35	2	10	0	0	7	35	3	15	1	5	9	11
29	Saharsa	12	0.05	0.21	0.34	0.91	4	33	0	0	0	0	8	67	0	0	0	0	4	8
30	Samastipur	16	0.09	4.82	0.05	0.75	8	50	2	13	1	6	5	31	0	0	0	0	11	5
31	Saran	30	0.2	4.18	0.08	3.74	12	40	1	3	1	3	11	37	5	17	0	0	14	16
32	Seikhpura	6	-	-	0.83	3.21	0	0	0	0	0	0	5	83	1	17	0	0	0	6
33	Sheohar	1	1.97	1.97	-	-	1	100	0	0	0	0	0	0	0	0	0	0	1	0
34	Sitamarhi	16	0.04	2.84	0.2	2.99	12	75	1	6	0	0	2	13	1	6	0	0	13	3
35	Siwan	18	0.01	1.9	0.24	1.34	11	61	0	0	0	0	7	39	0	0	0	0	11	7
36	Supaul	20	0.05	0.85	0.06	1.55	4	20	0	0	0	0	16	80	0	0	0	0	4	16
37	Vaishali	17	0.09	0.75	0.28	1.76	5	29	0	0	0	0	12	71	0	0	0	0	5	12
	<b>Total</b>	585	0.01	4.86	0.01	4.88	192		30		9		289		42		22		232	353

### 3.3.4 January 2017 to January 2018

Water level fluctuation between January 2017 and January 2018 has been analysed for 627 HNS. The fall of water level ranged from 0.01 to 5 m has been observed in 450 wells (72%) whereas the fall in water level was between 0.02 and 4.52 m noticed in 107 Well (19%).

The fall to the tune of 0 to 2 m has been shown in 70% area of the State spread in almost entire State. The segment of 2 to 4 m fall has been observed in localised areas falls in Darbhanga, Samastipur, Jamui, Nalanda, Naewada, Sheikhpura, Aurangabad, Rohtas and Kaimur district and many other small parts of the State. Only 17 wells in has shown water level fall more than 4m.

The rise in the range of 0 – 2 m and 2 – 4 m has been observed in 25% and 3% of HNS respectively. The rise ranged from 0 to 2 m is observed as patches at many locations including the part of E & W Champaran, Muzaffarpur, Sheohar, Supaul, Madhepura, Bhagalpur, Banka, Jamui, Gaya, Saran, Gopalganj and Buxar districts and some other small patches. The segment of 2 to 4 m rise has been calculated for only 21 wells covers the area as patches in part of Muzaffarpur, Bhagalpur, Jamui, Lakhisarai and Buxar district. Only 01 well located in Jamui district have shown rise of water level more than 4 m. (Fig. 14, Table 15).

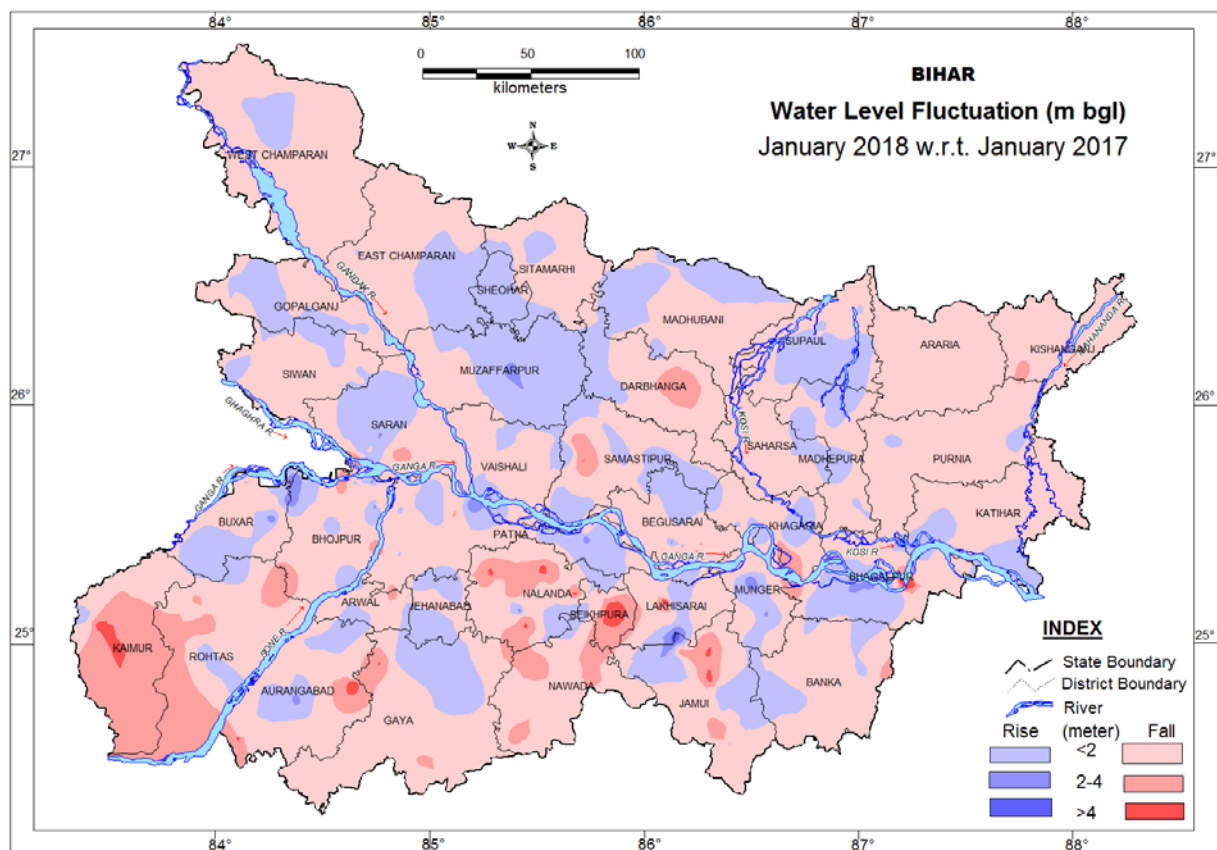


Fig. 14: Fluctuation in ground water level between Jan. 2018 and Jan. 2017.

**Table – 15** District-wise categorization of fluctuation and their frequency of water levels of HNS of Jan 2018 w.r.t. Jan 2017 for Bihar State

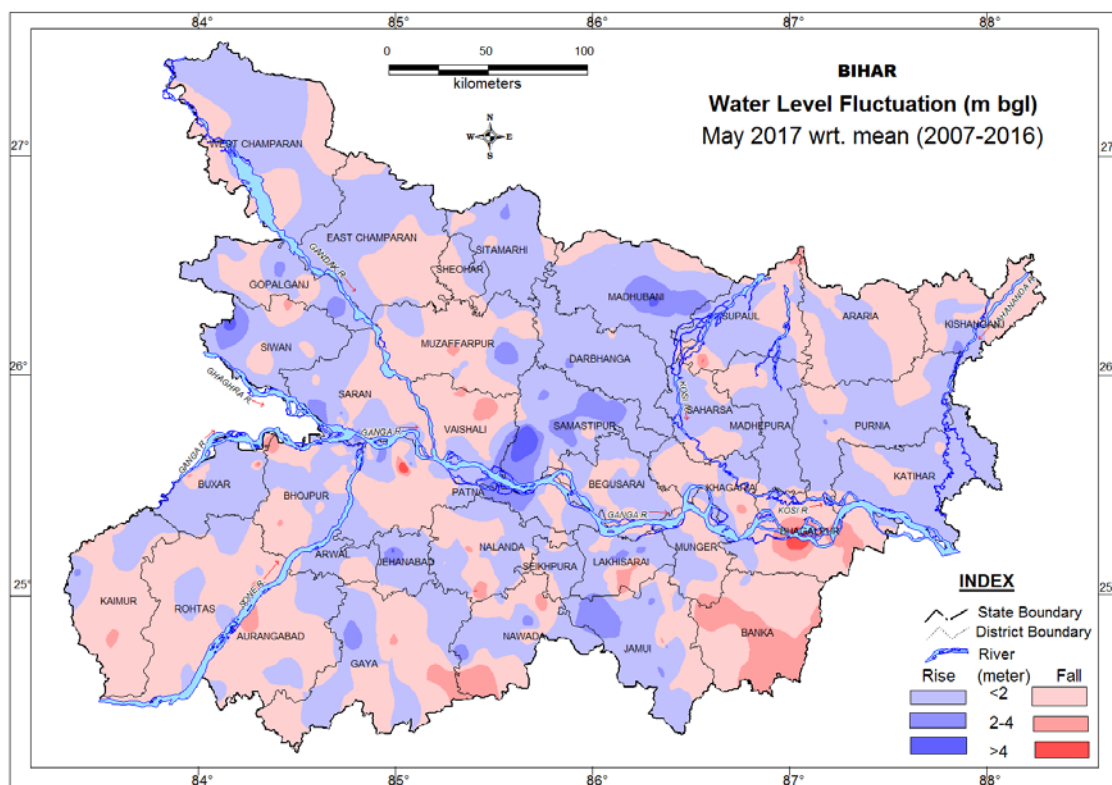
			Range of fluctuation (m)				No. of Wells / Percentage showing fluctuation												Rise	Fall
			Rise		Fall		Rise						Fall							
			Min.	Max.	Min.	Max.	<2m	%	2-4m	%	>4m	%	<2m	%	2-4m	%	>4m	%		
1	Araria	6	-	-	0.15	1.63	0	0	0	0	0	0	6	100	0	0	0	0	0	6
2	Aurangabad	17	0.03	2.48	0.1	4.9	3	18	1	6	0	0	11	65	0	0	2	12	4	13
3	Banka	16	0.27	0.52	0.07	2.39	4	25	0	0	0	0	10	63	2	13	0	0	4	12
4	Begusarai	32	0.07	2.35	0.06	3.5	8	25	1	3	0	0	20	63	3	9	0	0	9	23
5	Bhagalpur	14	0.14	2.3	0.38	4.88	4	29	3	21	0	0	5	36	1	7	1	7	7	7
6	Bhojpur	35	0.12	2.9	0.08	2.9	6	17	4	11	0	0	22	63	3	9	0	0	10	25
7	Buxar	24	0.49	3.9	0.12	2.3	3	13	2	8	0	0	18	75	1	4	0	0	5	19
8	Darbhanga	7	0.75	0.95	0.21	3.89	2	29	0	0	0	0	4	57	1	14	0	0	2	5
9	Gaya	17	0.26	1.19	0.34	4.15	3	18	0	0	0	0	12	71	1	6	1	6	3	14
10	Gopalganj	16	0.18	1	0.02	0.58	8	50	0	0	0	0	8	50	0	0	0	0	8	8
11	Jamui	17	0.1	4.52	0.31	4.24	8	47	0	0	1	6	4	24	1	6	3	18	9	8
12	Jehanabad	14	0.02	1.88	0.41	3.01	6	43	0	0	0	0	7	50	1	7	0	0	6	8
13	Kaimur	9	0.34	0.34	1.66	4.02	1	11	0	0	0	0	2	22	3	33	3	33	1	8
14	Katihar	14	0.02	1.64	0.19	1.96	4	29	0	0	0	0	10	71	0	0	0	0	4	10
15	Khagaria	20	0.1	1.94	0.09	3.04	5	25	0	0	0	0	13	65	2	10	0	0	5	15
16	Kishanganj	8	-	-	0.4	2.3	0	0	0	0	0	0	7	88	1	13	0	0	0	8
17	Lakhisarai	7	1.98	1.98	0.15	4.08	1	14	0	0	0	0	5	71	0	0	1	14	1	6
18	Madhepura	17	0.03	2.13	0.08	0.81	5	29	1	6	0	0	11	65	0	0	0	0	6	11
19	Madhubani	23	0.12	1.69	0.03	1.69	6	26	0	0	0	0	17	74	0	0	0	0	6	17
20	Munger	9	0.03	3.12	0.16	1.34	3	33	2	22	0	0	4	44	0	0	0	0	5	4
21	Muzaffarpur	20	0.31	2.68	0.32	1.08	11	55	2	10	0	0	7	35	0	0	0	0	13	7
22	Nalanda	32	0.27	2.83	0.14	5	3	9	1	3	0	0	20	63	4	13	4	13	4	28
23	Nawada	14	0.16	0.16	0.08	3.04	1	7	0	0	0	0	8	57	5	36	0	0	1	13
24	W. Champaran	13	0.27	0.27	0.07	1.01	1	8	0	0	0	0	12	92	0	0	0	0	1	12
25	Patna	23	0.13	3.51	0.2	2.25	8	35	2	9	0	0	12	52	1	4	0	0	10	13
26	E. Champaran	27	0.03	1.65	0.01	0.92	5	19	0	0	0	0	22	81	0	0	0	0	5	22
27	Purnia	17	0.03	0.48	0.32	1.95	3	18	0	0	0	0	14	82	0	0	0	0	3	14
28	Rohtas	17	0.03	1.25	0.13	3.75	4	24	0	0	0	0	9	53	4	24	0	0	4	13
29	Saharsa	17	-	-	0.06	1.49	0	0	0	0	0	0	17	100	0	0	0	0	0	17
30	Samastipur	17	0.09	1.5	0.02	4.08	7	41	0	0	0	0	8	47	1	6	1	6	7	10
31	Saran	27	0.23	2.1	0.04	3.5	7	26	1	4	0	0	16	59	3	11	0	0	8	19
32	Seikhpura	6	1.43	2.67	0.93	4.66	1	17	1	17	0	0	1	17	2	33	1	17	2	4
33	Sheohar	3	0.18	1.5	-	-	3	100	0	0	0	0	0	0	0	0	0	0	3	0
34	Sitamarhi	16	0.23	1.01	0.01	2.01	3	19	0	0	0	0	12	75	1	6	0	0	3	13
35	Siwan	16	0.09	0.89	0.06	1.63	3	19	0	0	0	0	13	81	0	0	0	0	3	13
36	Supaul	23	0.04	1.31	0.07	1.58	9	39	0	0	0	0	14	61	0	0	0	0	9	14
37	Vaishali	17	0.07	1.15	0.12	1.56	6	35	0	0	0	0	11	65	0	0	0	0	6	11
	<b>Total</b>	<b>627</b>	<b>0.02</b>	<b>4.52</b>	<b>0.01</b>	<b>5</b>	<b>155</b>	<b>25</b>	<b>21</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>392</b>	<b>63</b>	<b>41</b>	<b>7</b>	<b>17</b>	<b>3</b>	<b>177</b>	<b>450</b>

### 3.4 DECADAL FLUCTUATION

#### 3.4.1 Decadal Mean of May to May 2017

Fluctuation in water level of May 2017 with respect to decadal mean of May has been analysed for 664 HNS, which indicates rise in 59% and fall in the remaining 41% of the analysed HNS. The rise in the tune of 0 – 2 m is observed in the 51% of the HNS analysed, spatially covers the 52% area of the State and occurs in the major and adjoining part of E & W Champaran, Sitamarhi, Madhubani, Darbhanga, Madhepura, Purnea, Katihar, Jamui, Lakhisarai, Sheikhpura and Buxar district and as patches at many locations. In only 40 HNS has shown rise in the tune of 2-4 m covering very small patches of Madhepura, Samastipur, Patna, Jamui, Gaya, Nawada, Jehanabad and Nawada districts. Only 9 wells located in Aurangabad, Buxar, Jehanabad, Madhubani, Patna, Samastipur, Saran and Siwan district has recorded water level rise more than 4m.

41% area of the State has shown fall in water level less than 2 m whereas the segment of 2 – 4 m observed in only 3% of total area (39 Nos. NHS). The fall of water level more than 4m has been recorded in only 5 wells located in Supaul, Patna, Nalanda, Buxar and Bhagalpur district. (Fig. 15, Table 16).



**Fig. 15** Fluctuation in water level between May (mean) and May 2017.

**Table – 16** District-wise categorization of fluctuation and their frequency of water levels of HNS of **May, 2017** w.r.t. **May mean (2007-2016)** for Bihar State

			Range of fluctuation (m)				No. of Wells / Percentage showing fluctuation															
			Rise		Fall		Rise						Fall								Rise	Fall
			Min.	Max.	Min.	Max.	<2m	%	2-4m	%	>4m	%	<2m	%	2-4m	%	>4m	%				
1	Araria	9	0.07	1.06	0.1	1.08	4	44	0	0	0	0	5	56	0	0	0	0	4	5		
2	Aurangabad	16	0.05	4.55	0.13	3.32	6	38	0	0	1	6	7	44	2	13	0	0	7	9		
3	Banka	15	0.04	0.38	0.01	3.83	2	13	0	0	0	0	10	67	3	20	0	0	2	13		
4	Begusarai	23	0.09	1.17	0.08	2.58	14	61	0	0	0	0	8	35	1	4	0	0	14	9		
5	Bhagalpur	16	0.16	0.6	0.03	6.32	4	25	0	0	0	0	7	44	4	25	1	6	4	12		
6	Bhojpur	37	-	1.99	0.09	2.67	21	57	0	0	0	0	14	38	2	5	0	0	21	16		
7	Buxar	24	0.2	5.25	0.32	4.34	18	75	1	4	1	4	2	8	1	4	1	4	20	4		
8	Darbhanga	9	0.3	2.23	0.21	0.21	7	78	1	11	0	0	1	11	0	0	0	0	8	1		
9	Gaya	22	-	2.46	0.22	3.47	10	45	1	5	0	0	8	36	3	14	0	0	11	11		
10	Gopalganj	21	0.07	3.34	0.03	3.05	11	52	2	10	0	0	7	33	1	5	0	0	13	8		
11	Jamui	17	0.34	3.61	0.43	2.98	8	47	4	24	0	0	2	12	3	18	0	0	12	5		
12	Jehanabad	15	0.08	4.41	0.15	1.24	12	80	0	0	1	7	2	13	0	0	0	0	13	2		
13	Kaimur	9	0.22	2.19	0.84	2.15	3	33	1	11	0	0	3	33	2	22	0	0	4	5		
14	Katihar	16	0.03	2.2	0.09	0.8	7	44	1	6	0	0	8	50	0	0	0	0	8	8		
15	Khagaria	14	0.1	0.72	0.27	2.47	7	50	0	0	0	0	6	43	1	7	0	0	7	7		
16	Kishanganj	8	0.88	2.82	0.06	0.98	2	25	1	13	0	0	5	63	0	0	0	0	3	5		
17	Lakhisarai	8	2.45	2.68	0.08	2.32	0	0	3	38	0	0	3	38	2	25	0	0	3	5		
18	Madhepura	16	0.06	1.26	0.27	0.82	13	81	0	0	0	0	3	19	0	0	0	0	13	3		
19	Madhubani	24	0.22	4.65	0.02	1.05	16	67	2	8	1	4	5	21	0	0	0	0	19	5		
20	Munger	10	0.09	1.7	0.47	3.85	5	50	0	0	0	0	4	40	1	10	0	0	5	5		
21	Muzaffarpur	24	0.08	3.66	0.03	2.4	8	33	1	4	0	0	14	58	1	4	0	0	9	15		
22	Nalanda	31	0.03	2.3	0.05	4.43	14	45	1	3	0	0	14	45	1	3	1	3	15	16		
23	Nawada	16	0.26	3.21	0.16	3.44	5	31	2	13	0	0	7	44	2	13	0	0	7	9		
24	W. Champaran	13	0.07	0.55	0.09	0.46	8	62	0	0	0	0	5	38	0	0	0	0	8	5		
25	Patna	32	0.03	4.04	0.02	7.88	12	38	5	16	1	3	13	41	0	0	1	3	18	14		
26	E. Champaran	30	0.09	1.81	0.16	1.41	21	70	0	0	0	0	9	30	0	0	0	0	21	9		
27	Purnia	19	0.03	2.83	0.06	0.65	14	74	1	5	0	0	4	21	0	0	0	0	15	4		
28	Rohtas	19	0.09	2.29	0.12	2.38	5	26	1	5	0	0	12	63	1	5	0	0	6	13		
29	Saharsa	18	0.07	0.96	0.22	0.93	13	72	0	0	0	0	5	28	0	0	0	0	13	5		
30	Samastipur	17	0.27	8.35	0.06	1.42	7	41	6	35	1	6	3	18	0	0	0	0	14	3		
31	Saran	31	0.12	5.11	0.04	2.94	16	52	2	6	2	6	9	29	2	6	0	0	20	11		
32	Seikhpura	7	0.01	2.17	0.34	0.89	4	57	1	14	0	0	2	29	0	0	0	0	5	2		
33	Sheohar	1	0.2	0.2	-	-	1	100	0	0	0	0	0	0	0	0	0	0	1	0		
34	Sitamarhi	16	0.14	2.8	0.32	0.62	11	69	2	13	0	0	3	19	0	0	0	0	13	3		
35	Siwan	19	0.06	4.72	0.06	0.59	14	74	0	0	1	5	4	21	0	0	0	0	15	4		
36	Supaul	24	0.01	1.36	0.01	4.31	13	54	0	0	0	0	8	33	2	8	1	4	13	11		
37	Vaishali	18	0.19	3.27	0.05	2.73	4	22	1	6	0	0	9	50	4	22	0	0	5	13		
	<b>Total</b>	<b>664</b>	<b>0.01</b>	<b>8.35</b>	<b>0.01</b>	<b>7.88</b>	<b>340</b>	<b>51</b>	<b>40</b>	<b>6</b>	<b>9</b>	<b>1</b>	<b>231</b>	<b>35</b>	<b>39</b>	<b>6</b>	<b>5</b>	<b>1</b>	<b>389</b>	<b>275</b>		

### 3.4.2 Decadal Mean of August to August 2017

Fluctuation in water level of August 2017 with respect to decadal mean of August has been analysed for 626 HNS, which shows rise in water level in the 62% of HNS and fall in the remaining 38% of HNS. The rise in the range of 0 – 2 m has been observed in 55% of the HNS, spatially covers the major area (58%) of the state which mainly covers major part of NBP and parts of Buxar, Bhojpur, Patna, Jehanabad, Jamui and Buxar district in SBP. The range of 2 to 4 m rise has been recorded in Sitamarhi, Darbhanga, Samastipur, Jamui, Bhojpur and Buxar district and as small patches at some other locations Only 01 wells located in Bhagalpur district has shown rise more than 4m.

About 38 % area of the State has shown fall of water level in the range of 0 to 2m spread mainly in major parts of Kaimur, Aurangabad, Gaya, Nawada, Jamui, Banka, Nalanda, and Sheikhpura district in SBP and small parts of Muzaffarpur, Araria, Purnea, Supaul, Katihar & Khagaria district and many other parts of NBP. The range of 2 – 4 m has been observed only in 21 wells. The fall of water level more than 4m has been recorded only in 1 well located in Bhagalpur. (Fig. 16, Table 17).

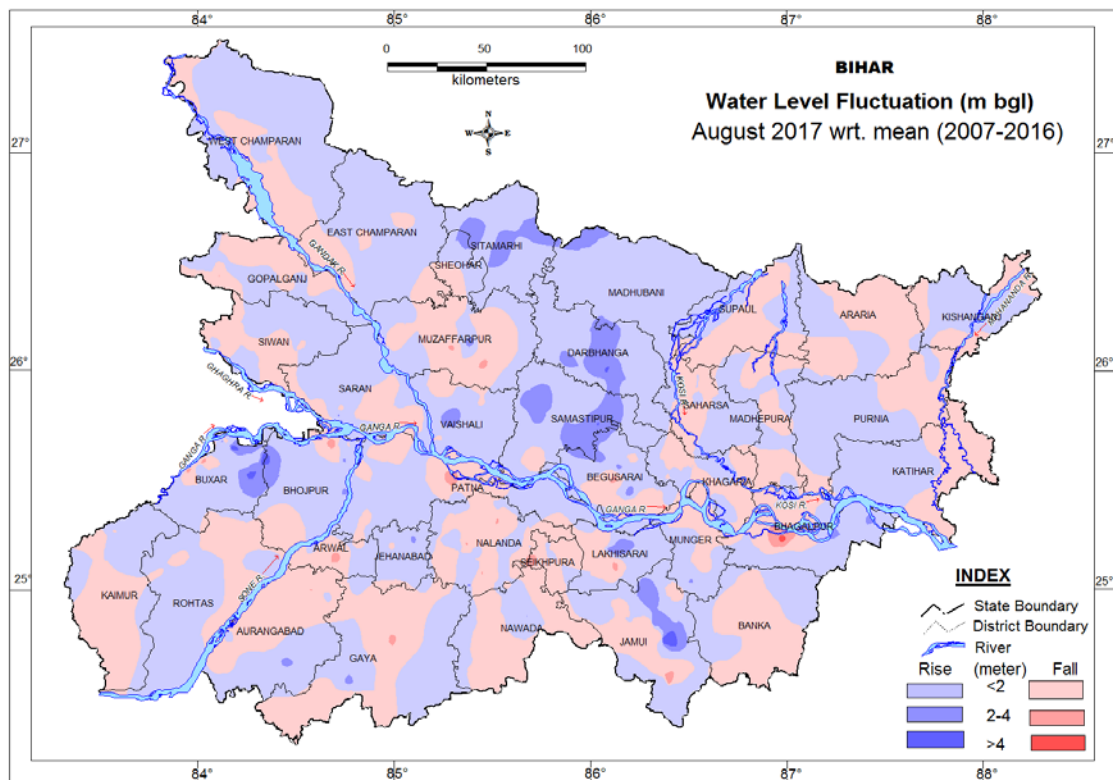


Fig. 16 Fluctuation in water level between Aug. (mean) and Aug. 2017

**Table – 17** District-wise categorization of fluctuation and their frequency of water levels of HNS of Aug. 2017 w.r.t. Aug. mean (2007-2016) for Bihar

			Range of fluctuation (m)				No. of Wells / Percentage showing fluctuation															
			Rise		Fall		Rise						Fall								Rise	Fall
			Min.	Max.	Min.	Max.	<2m	%	2-4m	%	>4m	%	<2m	%	2-4m	%	>4m	%				
1	Araria	8	0.05	0.93	0.13	1	4	50	0	0	0	0	4	50	0	0	0	0	4	4		
2	Aurangabad	15	0.1	2.41	0.16	2.07	6	40	1	7	0	0	7	47	1	7	0	0	7	8		
3	Banka	15	0.05	1.69	0.05	1.71	7	47	0	0	0	0	8	53	0	0	0	0	7	8		
4	Begusarai	22	0.1	2.77	0.01	2.42	9	41	3	14	0	0	9	41	1	5	0	0	12	10		
5	Bhagalpur	16	0.12	3.03	0.07	4.56	8	50	2	13	0	0	5	31	0	0	1	6	10	6		
6	Bhojpur	34	0.01	3.66	0.01	2.85	25	74	2	6	0	0	6	18	1	3	0	0	27	7		
7	Buxar	25	0.13	5.53	0.05	3.82	12	48	5	20	3	12	3	12	2	8	0	0	20	5		
8	Darbhanga	11	0.49	5.22	-	-	8	73	1	9	2	18	0	0	0	0	0	0	11	0		
9	Gaya	20	0.43	2.73	0.12	2.79	6	30	1	5	0	0	11	55	2	10	0	0	7	13		
10	Gopalganj	21	0.24	1.67	0.07	2.06	11	52	0	0	0	0	9	43	1	5	0	0	11	10		
11	Jamui	17	0.06	7.82	0.42	3.64	7	41	2	12	1	6	6	35	1	6	0	0	10	7		
12	Arwal & Jehanabad	15	-	2.13	0.35	2.43	11	73	1	7	0	0	2	13	1	7	0	0	12	3		
13	Kaimur	10	0.28	1.22	0.06	1.76	4	40	0	0	0	0	6	60	0	0	0	0	4	6		
14	Katihar	14	0.04	1.43	0.08	0.75	12	86	0	0	0	0	2	14	0	0	0	0	12	2		
15	Khagaria	15	0.09	0.8	0.12	1.31	9	60	0	0	0	0	6	40	0	0	0	0	9	6		
16	Kishanganj	6	0.13	0.37	0.15	0.41	3	50	0	0	0	0	3	50	0	0	0	0	3	3		
17	Lakhisarai	8	0.61	4.27	0.3	2.73	3	38	1	13	1	13	2	25	1	13	0	0	5	3		
18	Madhepura	14	0.1	0.88	0.4	1.61	9	64	0	0	0	0	5	36	0	0	0	0	9	5		
19	Madhubani	22	0.03	2.91	-	-	21	95	1	5	0	0	0	0	0	0	0	0	22	0		
20	Munger	8	0.23	2.24	0.2	1.92	3	38	1	13	0	0	4	50	0	0	0	0	4	4		
21	Muzaffarpur	21	0.19	2.97	0.03	2.36	9	43	1	5	0	0	9	43	2	10	0	0	10	11		
22	Nalanda	33	0.19	2.21	0.02	2.25	12	36	1	3	0	0	17	52	3	9	0	0	13	20		
23	Nawada	16	0.05	2.03	0.11	1.46	5	31	1	6	0	0	10	63	0	0	0	0	6	10		
24	W Champaran	15	0.01	1.74	0.19	0.55	8	53	0	0	0	0	7	47	0	0	0	0	8	7		
25	Patna	22	0.17	1.4	0.02	2.61	13	59	0	0	0	0	8	36	1	5	0	0	13	9		
26	E Champaran	19	0.19	1.18	0.09	1.28	12	63	0	0	0	0	7	37	0	0	0	0	12	7		
27	Purnia	19	0.2	1.97	0.26	0.97	14	74	0	0	0	0	5	26	0	0	0	0	14	5		
28	Rohtas	19	0.03	1.43	0.07	1.08	10	53	0	0	0	0	9	47	0	0	0	0	10	9		
29	Saharsa	15	0.04	0.73	0.05	0.63	9	60	0	0	0	0	6	40	0	0	0	0	9	6		
30	Samastipur	17	0.23	4.1	0.42	0.42	9	53	6	35	1	6	1	6	0	0	0	0	16	1		
31	Saran	30	0.06	2.6	0.25	2.94	16	53	5	17	0	0	8	27	1	3	0	0	21	9		
32	Seikhpura	5	0.1	0.29	0.72	2.78	3	60	0	0	0	0	1	20	1	20	0	0	3	2		
33	Sheohar	2	1.99	1.99	0.84	0.84	1	50	0	0	0	0	1	50	0	0	0	0	1	1		
34	Sitamarhi	16	0.42	3.74	-	-	12	75	4	25	0	0	0	0	0	0	0	0	16	0		
35	Siwan	20	0.07	1.37	0.08	2.09	13	65	0	0	0	0	6	30	1	5	0	0	13	7		
36	Supaul	22	0.02	0.33	0.01	2.19	6	27	0	0	0	0	15	68	1	5	0	0	6	16		
37	Vaishali	19	0.07	3.02	0.1	0.75	13	68	1	5	0	0	5	26	0	0	0	0	14	5		
	<b>Total</b>	<b>626</b>	<b>0.01</b>	<b>7.82</b>	<b>0.01</b>	<b>4.56</b>	<b>343</b>	<b>55</b>	<b>40</b>	<b>6</b>	<b>8</b>	<b>1</b>	<b>213</b>	<b>34</b>	<b>21</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>391</b>	<b>235</b>		



### 3.4.3 Decadal Mean of November to November 2017

Fluctuation in water level of November 2017 with respect to decadal mean of November has been analysed for 633 HNS, which shows Rise in water level ranged from 0.01 (Supaul, Muzaffarpur, Madhubani and Aurangabad district) to 7.09 (Samastipur district) m in 45% of the HNS and fall in the remaining 55 % of HNS. Rise in the range of 0 – 2 m has been observed in 40% NHS which covers 45% area of the state including almost entire eastern part of the state and some other patches. Rise in the range of 2-4 m and >4m has been observed in 4% and 1% NHS wells.

The fall is 48% and 5% of HNS in the range of 0-2 and 2-4 m respectively. The fall of water level ranged from 0 to 2 m has been shown by 49% area of the State covers the major and adjoining part of E & W Champaran, Muzaffarpur, Saran, Siwan, Vaishali, Madhepura, Supaul, Patna, Nalanda, Nawada, Gaya, Aurangabad and Kaimur district and as patches at many locations. Fall within 2 to 4 m observed in very small parts of Muzaffarpur, Patna, Nalanda, Gaya, Aurangabad and Kaimur district and other small parts. The fall in water level >4 m has been observed in only in 9 stations located in Patna, Nalanda, Kaimur, Gaya, Aurangabad and Begusarai district. (Fig. 17, Table 18.)

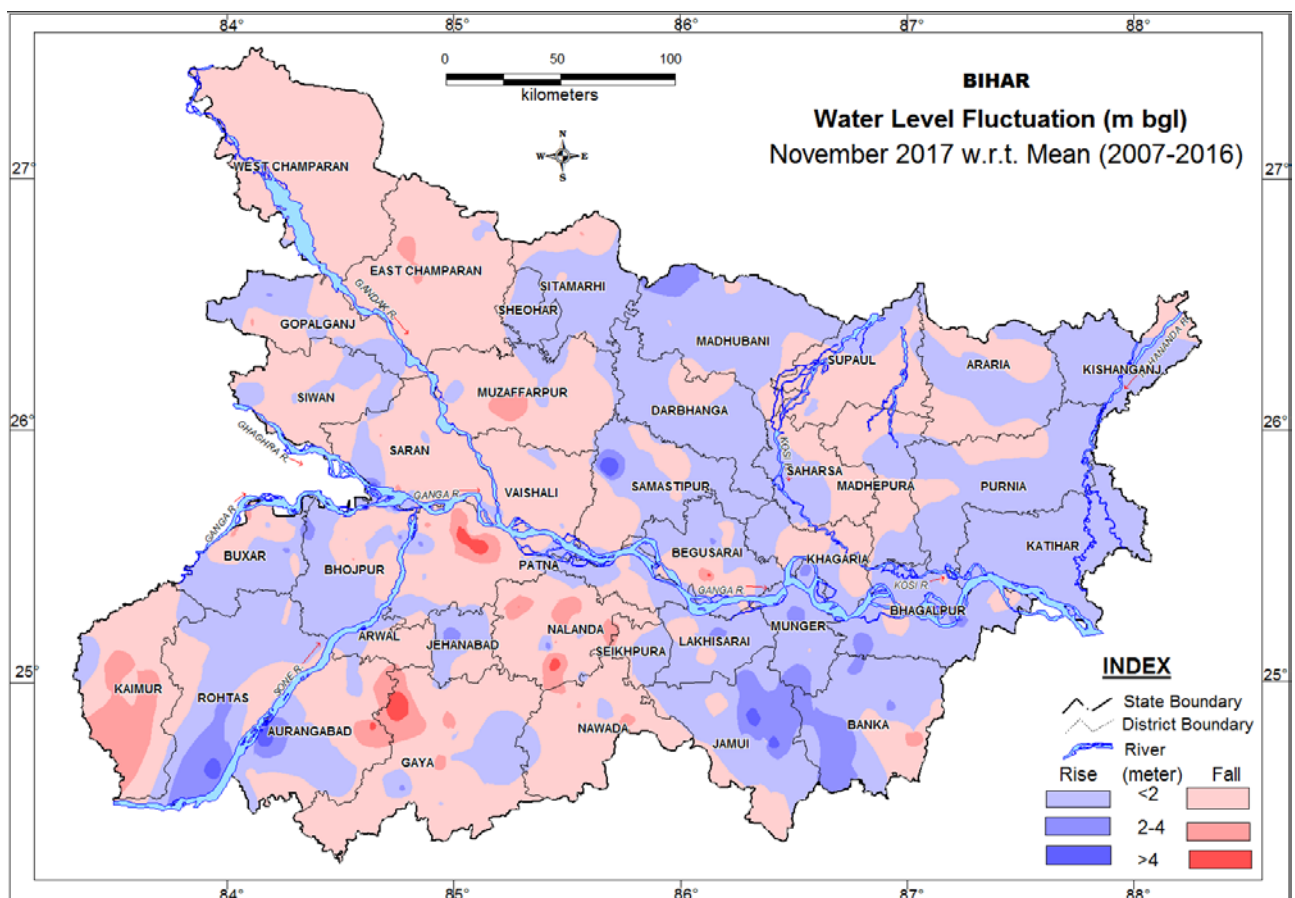


Fig. 17 Fluctuation in water level between Nov. (mean) and Nov. 2017

**Table – 18 District-wise categorization of fluctuation and their frequency of water levels of HNS of Nov. 2017 w.r.t. Nov. mean (2007-2016) for Bihar State**

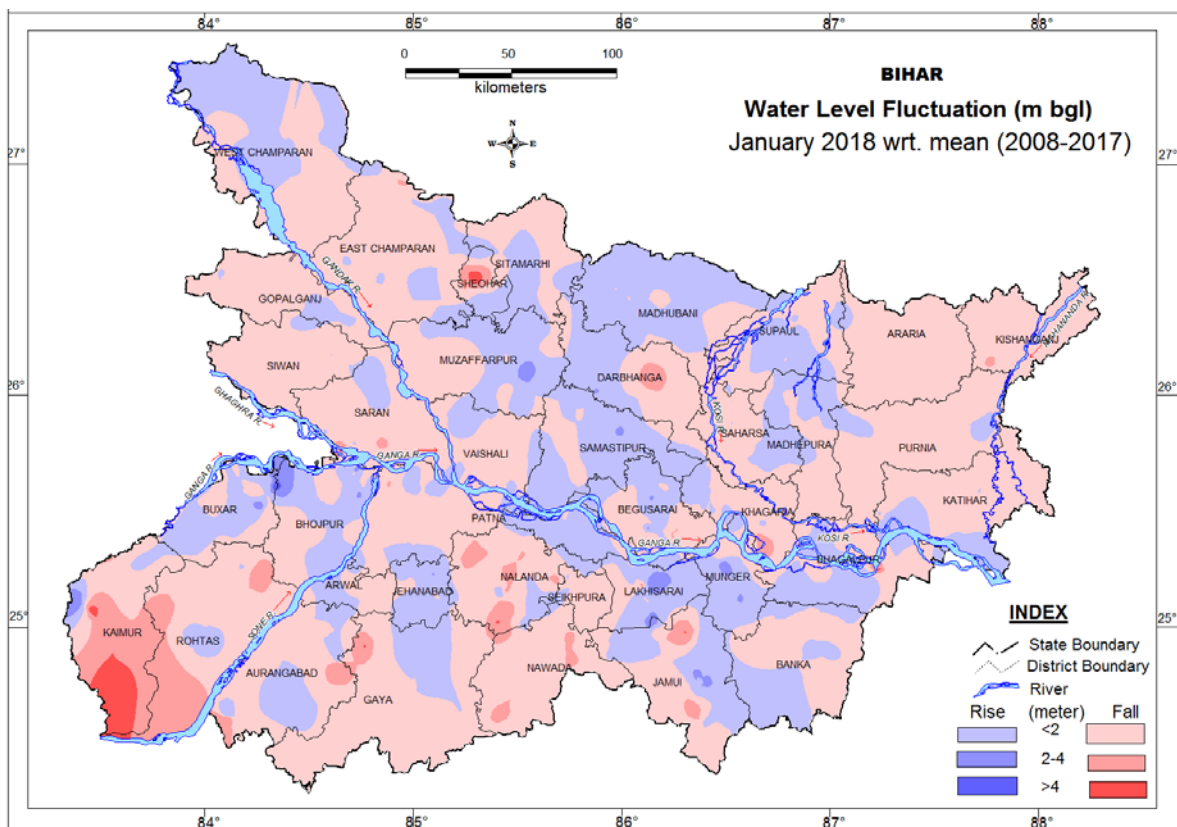
			Range of fluctuation (m)				No. of Wells / Percentage showing fluctuation												Rise	Fall
			Rise		Fall		Rise						Fall							
			Min.	Max.	Min.	Max.	<2m	%	2-4m	%	>4m	%	<2m	%	2-4m	%	>4m	%		
1	Araria	8	0.24	0.89	0.23	0.88	4	50	0	0	0	0	4	50	0	0	0	0	4	4
2	Aurangabad	18	0.01	5.77	0.1	4.41	6	33	1	6	1	6	8	44	1	6	1	6	8	10
3	Banka	14	0.03	3.89	0.25	2.34	7	50	4	29	0	0	2	14	1	7	0	0	11	3
4	Begusarai	23	0.04	2.78	0.12	4.65	9	39	1	4	0	0	12	52	0	0	1	4	10	13
5	Bhagalpur	14	0.36	4.44	0.14	1.91	9	64	1	7	1	7	3	21	0	0	0	0	11	3
6	Bhojpur	34	0.07	4.28	0.05	2.11	11	32	1	3	1	3	20	59	1	3	0	0	13	21
7	Buxar	25	0.18	3.79	0.33	2.92	10	40	2	8	0	0	9	36	4	16	0	0	12	13
8	Darbhanga	8	0.05	1.76	1.44	1.44	7	88	0	0	0	0	1	13	0	0	0	0	7	1
9	Gaya	21	0.04	2.49	0.2	5.64	8	38	1	5	0	0	9	43	2	10	1	5	9	12
10	Gopalganj	20	0.31	2.23	0.05	2.14	8	40	2	10	0	0	9	45	1	5	0	0	10	10
11	Jamui	16	0.29	5.2	0.38	1.6	7	44	3	19	2	13	4	25	0	0	0	0	12	4
12	Arwal & Jehanabad	15	0.13	3.74	0.5	1.63	7	47	1	7	0	0	7	47	0	0	0	0	8	7
13	Kaimur	10	0.13	1.65	0.52	4.03	2	20	0	0	0	0	5	50	2	20	1	10	2	8
14	Katihar	15	0.16	1.89	-	-	15	100	0	0	0	0	0	0	0	0	0	0	15	0
15	Khagaria	14	0.06	1.38	0.28	1.02	9	64	0	0	0	0	5	36	0	0	0	0	9	5
16	Kishanganj	8	0.2	1.12	0.75	0.75	7	88	0	0	0	0	1	13	0	0	0	0	7	1
17	Lakhisarai	9	1.31	2.97	0.03	1.92	2	22	1	11	0	0	6	67	0	0	0	0	3	6
18	Madhepura	11	0.08	0.54	0.13	0.64	5	45	0	0	0	0	6	55	0	0	0	0	5	6
19	Madhubani	21	0.01	3.69	0.01	0.31	15	71	1	5	0	0	5	24	0	0	0	0	16	5
20	Munger	9	0.38	3.62	0.08	0.08	5	56	3	33	0	0	1	11	0	0	0	0	8	1
21	Muzaffarpur	23	0.01	1.16	0.02	3.07	4	17	0	0	0	0	18	78	1	4	0	0	4	19
22	Nalanda	30	0.25	3.51	0.18	5.14	3	10	1	3	0	0	17	57	6	20	3	10	4	26
23	Nawada	15	0.4	1.17	0.46	2.6	3	20	0	0	0	0	10	67	2	13	0	0	3	12
24	W Champaran	12	-	-	0.03	1.32	0	0	0	0	0	0	12	100	0	0	0	0	0	12
25	Patna	32	0.03	2.28	0.08	7.35	10	31	1	3	0	0	14	44	5	16	2	6	11	21
26	E Champaran	28	0.06	0.2	0.04	2.97	2	7	0	0	0	0	24	86	2	7	0	0	2	26
27	Purnia	16	0.15	1.49	0.02	0.67	10	63	0	0	0	0	6	38	0	0	0	0	10	6
28	Rohtas	20	-	4.51	0.01	1.62	9	45	1	5	1	5	9	45	0	0	0	0	11	9
29	Saharsa	13	0.05	0.75	0.03	0.69	5	38	0	0	0	0	8	62	0	0	0	0	5	8
30	Samastipur	17	0.19	7.09	0.22	1.14	9	53	0	0	1	6	7	41	0	0	0	0	10	7
31	Saran	33	0.08	5.18	0.06	2.4	7	21	2	6	1	3	21	64	2	6	0	0	10	23
32	Seikhpura	6	1.6	1.6	0.36	2.41	1	17	0	0	0	0	2	33	3	50	0	0	1	5
33	Sheohar	1	1.93	1.93	-	-	1	100	0	0	0	0	0	0	0	0	0	0	1	0
34	Sitamarhi	16	0.32	1.99	0.03	2.05	11	69	0	0	0	0	4	25	1	6	0	0	11	5
35	Siwan	20	0.04	1.05	0.17	1.34	8	40	0	0	0	0	12	60	0	0	0	0	8	12
36	Supaul	21	0.01	0.72	0.03	0.79	9	43	0	0	0	0	12	57	0	0	0	0	9	12
37	Vaishali	17	0.11	0.84	0.01	1.53	6	35	0	0	0	0	11	65	0	0	0	0	6	11
	<b>Total</b>	633	0.01	7.09	0.01	7.35	251	40	27	4	8	1	304	48	34	5	9	1	286	347

### 3.4.4 Decadal Mean of January to January 2018

Fluctuation in water level of January 2018 with respect to decadal mean of January has been analysed for 680 HNS. In 61% of the HNS, fall in water level is recorded and remaining 39% HNS rise in water level has been observed. The fall in the range of 0 – 2 m has been spread in 61% area covered almost entire part of the state including Major part of E Champaran, Gopalganj, Sran, Siwan, Araria, Purnia, Katihar, Kishanganj, Vaishali, Nalanda, Nawada, Gaya, Aurangabad and Patna district and some other patches. The segment of 2-4m fall has been observed as patches in Kaimur, Rohtas, Gaya, Aurangabad, Jmaui, Darbhanga, Sheohar district and some other places as small patches. Only 8 wells have shown fall of water level >4m.

About 33% area of the State has shown rise in the tune of 0 to 2 m including major part of Muzaffarpur, Darbhanga, Madhubani, Samastipur, Patna, Lakhisarai, Jamui, Banka, Jehanabad and W Champaran district and some localised part of the state. The segment of 2 to 4 m rise has been observed as very small patches of the state. Only 01 well located in Buxar distric has shown rise of water level more than 4 m.

(Fig. 18, Table 19).



**Fig. 18** Fluctuation in water level between Jan. (mean) and Jan. 2018

**Table – 19** District-wise categorization of fluctuation and their frequency of water levels of HNS of Jan. 2018 w.r.t. Jan. mean (2008-2017) for Bihar State

			Range of fluctuation (m)				No. of Wells / Percentage showing fluctuation												Rise	Fall
			Rise		Fall		Rise						Fall							
			Min.	Max.	Min.	Max.	<2m	%	2-4m	%	>4m	%	<2m	%	2-4m	%	>4m	%		
1	Araria	6	-	-	0.02	1.34	0	0	0	0	0	0	6	100	0	0	0	0	0	6
2	Aurangabad	18	0.04	1.81	0.29	3.9	8	44	0	0	0	0	8	44	2	11	0	0	8	10
3	Banka	16	0.19	1.09	0.03	1.31	6	38	0	0	0	0	10	63	0	0	0	0	6	10
4	Begusarai	33	0.27	2.51	0.06	2.56	9	27	2	6	0	0	18	55	4	12	0	0	11	22
5	Bhagalpur	15	0.02	1.88	0.17	4.52	8	53	0	0	0	0	6	40	0	0	1	7	8	7
6	Bhojpur	36	0.06	3.47	0.03	1.73	18	50	4	11	0	0	14	39	0	0	0	0	22	14
7	Buxar	25	0.07	5.15	0.01	1.34	10	40	2	8	1	4	12	48	0	0	0	0	13	12
8	Darbhanga	10	0.17	2.28	0.21	3.22	6	60	1	10	0	0	2	20	1	10	0	0	7	3
9	Gaya	17	0.02	1.01	0.17	4.15	3	18	0	0	0	0	13	76	0	0	1	6	3	14
10	Gopalganj	17	0.01	0.55	0.06	1.62	7	41	0	0	0	0	10	59	0	0	0	0	7	10
11	Jamui	18	0.15	3.38	0.23	7.96	8	44	3	17	0	0	5	28	0	0	2	11	11	7
12	Jehanabad	16	0.09	2.06	0.03	1.42	7	44	1	6	0	0	8	50	0	0	0	0	8	8
13	Kaimur	11	0.41	3.08	0.65	5.29	1	9	1	9	0	0	3	27	4	36	2	18	2	9
14	Katihar	16	0.09	1.2	0.32	2.02	7	44	0	0	0	0	8	50	1	6	0	0	7	9
15	Khagaria	20	0.05	1	0.26	3	5	25	0	0	0	0	14	70	1	5	0	0	5	15
16	Kishanganj	8	-	-	0.24	2.23	0	0	0	0	0	0	7	88	1	13	0	0	0	8
17	Lakhisarai	9	0.02	3.98	1.32	3.72	6	67	1	11	0	0	1	11	1	11	0	0	7	2
18	Madhepura	17	0.05	1.26	0.01	0.6	7	41	0	0	0	0	10	59	0	0	0	0	7	10
19	Madhubani	25	0.07	1.4	0.01	0.71	18	72	0	0	0	0	7	28	0	0	0	0	18	7
20	Munger	10	0.07	2.97	0.82	1.23	6	60	2	20	0	0	2	20	0	0	0	0	8	2
21	Muzaffarpur	24	0.32	3.08	0.04	1.44	10	42	1	4	0	0	13	54	0	0	0	0	11	13
22	Nalanda	33	0.03	1.3	0.06	4.27	8	24	0	0	0	0	14	42	10	30	1	3	8	25
23	Nawada	16	-	-	0.02	2.61	0	0	0	0	0	0	13	81	3	19	0	0	0	16
24	W. Champaran	15	0.01	0.9	0.05	1.33	7	47	0	0	0	0	8	53	0	0	0	0	7	8
25	Patna	31	0.04	1.61	0.01	2.55	9	29	0	0	0	0	21	68	1	3	0	0	9	22
26	E. Champaran	30	0.01	1.65	0.09	2.27	9	30	0	0	0	0	20	67	1	3	0	0	9	21
27	Purnia	17	0.32	0.4	0.21	1.63	2	12	0	0	0	0	15	88	0	0	0	0	2	15
28	Rohtas	20	0.08	1.41	0.05	3.68	4	20	0	0	0	0	12	60	4	20	0	0	4	16
29	Saharsa	17	0.03	0.22	0.06	1.48	4	24	0	0	0	0	13	76	0	0	0	0	4	13
30	Samastipur	19	0.23	2.16	0.47	1.93	14	74	1	5	0	0	4	21	0	0	0	0	15	4
31	Saran	31	0.24	1.48	0.04	3.5	4	13	0	0	0	0	25	81	2	6	0	0	4	27
32	Seikhpura	6	0.59	2.13	0.24	2.33	1	17	1	17	0	0	3	50	1	17	0	0	2	4
33	Sheohar	4	0.42	1.24	5.42	5.42	3	75	0	0	0	0	0	0	0	0	1	25	3	1
34	Sitamarhi	16	0.1	1.03	0.03	0.92	8	50	0	0	0	0	8	50	0	0	0	0	8	8
35	Siwan	17	0.01	0.01	0.05	1.62	1	6	0	0	0	0	16	94	0	0	0	0	1	16
36	Supaul	23	0.1	1.12	0.04	1.58	9	39	0	0	0	0	14	61	0	0	0	0	9	14
37	Vaishali	18	0.05	0.82	0.12	1.36	9	50	0	0	0	0	9	50	0	0	0	0	9	9
	<b>Total</b>	680	0.01	5.15	0.01	7.96	242		20		1	0	372	55	37	5	8	1	263	417

#### 4. HYDROCHEMISTRY

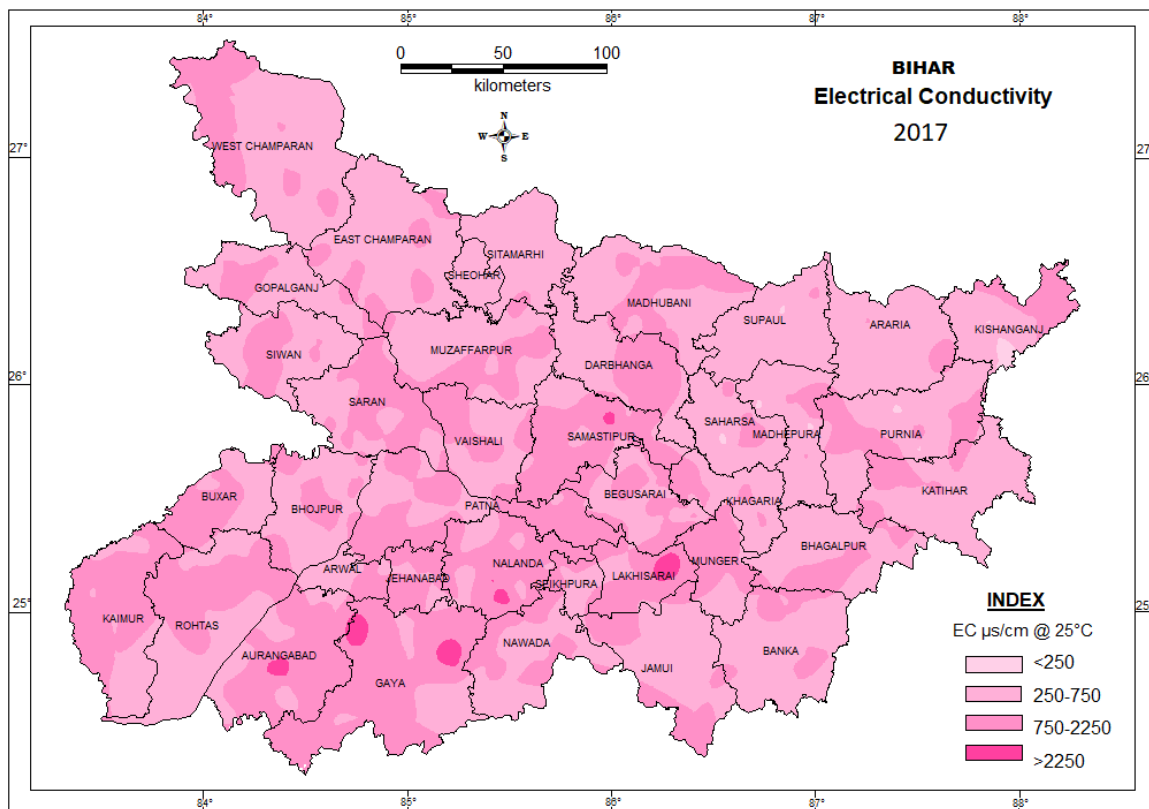
In order to assess the chemical quality of ground water of phreatic aquifers of Bihar 671 ground water samples have been analysed for 15 major parameters viz. EC, pH, HCO<sub>3</sub>, CO<sub>3</sub>, Cl, F, NO<sub>3</sub>, PO<sub>4</sub>, SO<sub>4</sub>, TH, Ca, Mg, K, Na, SiO<sub>2</sub>. The results of the completed chemical analysis of the ground water samples are given in Annexure-II. A perusal of the Annexure-II indicates that the water is by and large suitable for domestic and drinking purposes. The pH of ground water mostly lies between 7 and 8. Majority of the ground water samples are mildly alkaline in nature.

The EC contour map (**Fig:19**) shows that in major part (59% area of total area of the state) EC value within the range of 250-750  $\mu\text{s/cm}$  @ 25°C. In few well located in Aurangabad, Nalanda, Gaya, Lakhisarai and Samastipur district contains EC value >2250  $\mu\text{s/cm}$  @ 25°C has also been found.

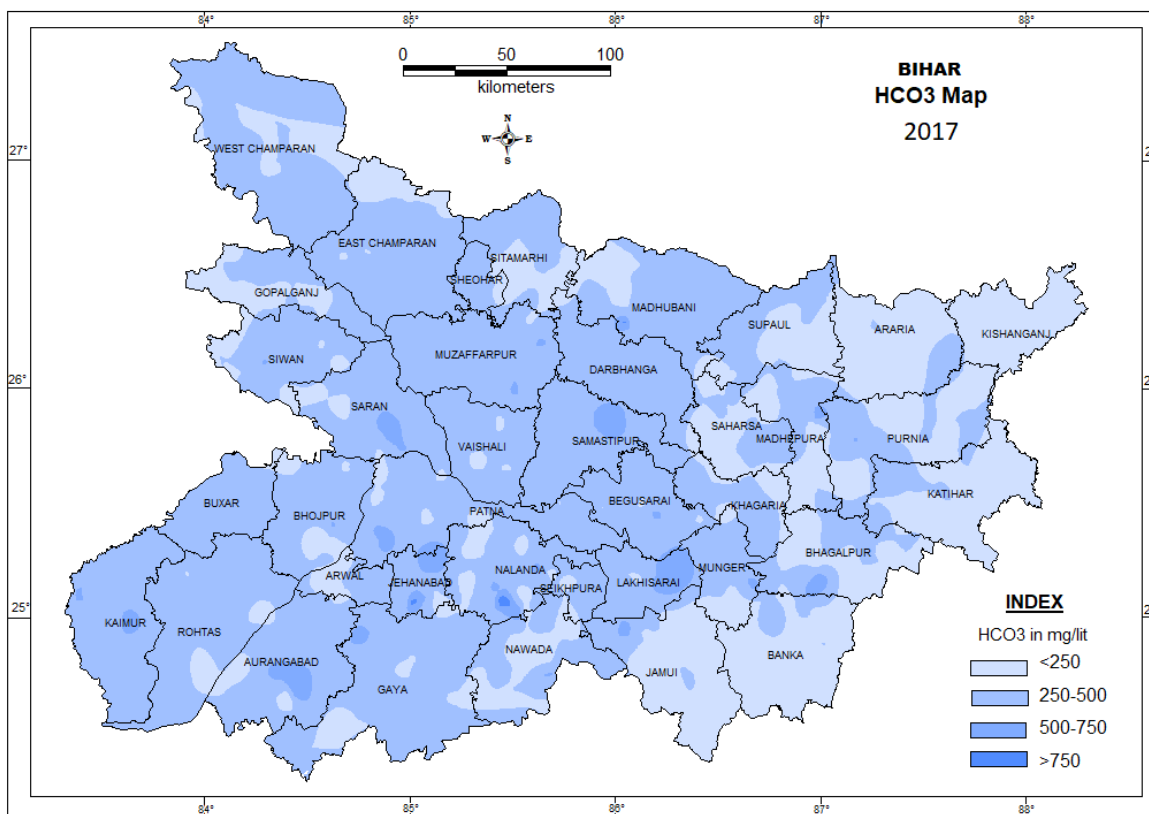
HCO<sub>3</sub> contour map (**Fig:20**) shows HCO<sub>3</sub> concentration >750 mg/l in small patch like area in Nalanda and Jehanabad district. 69% of total area shows HCO<sub>3</sub> value in the range of 250-500 mg/l. 21% area shows HCO<sub>3</sub> concentration within the range of <250 mg/l. small patches of Saran, Samastipur, Kaimur, Bhagalpur, Lakhisarai, Nalanda and Patna district are within the range of 500-750 mg/l HCO<sub>3</sub> value. The range of various chemical parameters is given in **Table -20**.

**Table – 20** Range of chemical parameters of phreatic ground water samples of NHS in Bihar State collected during Pre-monsoon 2017

Chemical Parameters	Minimum	Maximum
pH	0	8.77
EC micromhos/cm at 25°C	151	3748
TDS (mg/l)	0	2436
F <sup>-</sup> (mg/l)	0	35
Cl <sup>-</sup> (mg/l)	0.65	572
HCO <sub>3</sub> <sup>-</sup> (mg/l)	46	873.3
CO <sub>3</sub> <sup>2-</sup> (mg/l)	0	24
SO <sub>4</sub> <sup>2-</sup> (mg/l)	0.14	467.88
NO <sub>3</sub> <sup>-</sup> (mg/l)	0	276
PO <sub>4</sub> <sup>3-</sup> (mg/l)	0	6.12
TH (mg/l)	28	990
Ca <sup>2+</sup> (mg/l)	0	190
Mg <sup>2+</sup> (mg/l)	0.13	173.74
Na <sup>+</sup> (mg/l)	0	521
K <sup>+</sup> (mg/l)	0	280.5



*Fig.19 EC contour map of Bihar (2017)*



*Fig.20 HCO<sub>3</sub> contour map of Bihar (2017)*

## 5. RAINFALL DATA ANALYSIS

The study of rainfall data indicates that in the year 2017 Bihar has received normal rainfall during the monsoon period as in the previous year. However, during post-monsoon period of the year 2017 state has received deficit rainfall (**Table-21** Source IMD, Annual Climate Summary, 2017). The same has been reflected in the unconfined aquifer. The district wise monthly rainfall for Bihar and percent departure has also been given in Annexure-III.

District-wise seasonal and annual Rainfall of the year 2017, has been given in **Annexure-IV** (Source: IMD, Rainfall statistics of India, 2016 & 2017).

The depth to water level during Aug'17 revealed that 51% of observation wells showed 2-5 m water level and only 2 wells showed 10-20 m depth to water level. In the comparison of decadal August and August '17 water levels, out of 626 wells analysed, 391 (62%) wells showed rise in water level and out of which 55% of wells showed rise in the range of <2m. 38% wells have shown fall in water level. Hence, the phreatic aquifer is in tune with the vagaries of normal monsoon.

**Table –21: Seasonal and annual rainfall statistics of Bihar** (Source IMD: Annual Climate Summary)

BIHAR	Winter			Pre-Monsoon			Monsoon			Post-Monsoon			Annual		
	Actual (mm)	Normal	% Dep	Actual (mm)	Normal	% Dep	Actual (mm)	Normal	% Dep	Actual (mm)	Normal	% Dep	Actual (mm)	Normal	% Dep
2016	9.9	23	-57	85.1	77.5	10	994.1	1027.3	-6	60.8	77.5	-22	1149.8	1205.6	-5
<b>2017</b>	0.7	23	-97	124.3	77.5	60	936.8	1027.6	-9	50.2	77.5	-35	1112	1205.6	-8

## 6. TREND ANALYSIS DURING PRE AND POST MONSOON

Trend of the ground water level for the last ten year (2008-2017) have been analyzed. District wise percentage of well showing rise, fall and no significant trend during Pre- Monsoon and Post Monsoon season has been prepared and given in the Annexure – V. From long term water level trend data it has been observed that more than 50% NHS wells have shown falling trend in 16 districts in premonsoon period and 14 districts in Postmonsoon period. The post monsoon data of Banka, Begusarai, Gaya, Gopalganj, Jamui, Lakhisarai, Mujaffarpur, Nawada, Buxar, Gaya, Gopalganj, Jamui, E & W Champaran, Patna, Purnia Saran and Vaishali districts are showing falling trend in more than 50% of the HNS analysed.

## Depth to Water level (m bgl) in various seasons

STATE : BIHAR

District	Location	2017			2018
		May	Aug	Nov	Jan
Araria	Araria	4.2	2.42	2.9	4.32
Araria	Bhargama	4.3	Well filled		
Araria	Bathnaha 1	4.6	2.75	3.31	4.21
Araria	Haripur	3.23	1.27	1.25	3.19
Araria	Matiyari	4.36	2.92	2.57	4.67
Araria	Jokihat I	3.19	1.35	1.5	3.4
Araria	Pallasi	Partially filled	1.11	2.96	Partially filled
Araria	Palasi	3.2	2.1	2.79	Well filled
Araria	Raniganj	3.68	1.98	3.02	4.42
Aurangabad	Aurangabad	7.42	2.01	1.32	2.3
Aurangabad	Patraya	6.88	2.46	2.81	4.89
Aurangabad	Barun	12.23	9	8.1	10.21
Aurangabad	Narari Kala	11.12	3.29	2.8	11.05
Aurangabad	Daudnagar	6.12	3.23	4.65	4.53
Aurangabad	Deo1	5.47	0.35	1.95	3.33
Aurangabad	Deohara_goh	5.78	6.85	3.07	8.02
Aurangabad	Deonara	10.36	6.58	8.58	9.08
Aurangabad	Dhobi Tola_Goh	5.38	1.86	3.76	4.31
Aurangabad	Etwan	3.35	1.47	2.3	2.58
Aurangabad	Madanpur	7.13	0.72	2.8	3.42
Aurangabad	Pataya	4.82	0.46	1.9	2.91
Aurangabad	Dhanibar	9	4	6.74	5.39
Aurangabad	Mahauli	6.56	2.81	4.1	4.6
Aurangabad	Nabinagar dbib	4.1	0.07	1.33	5.13
Aurangabad	Obra	6.1	3.85	4.74	5.64
Aurangabad	Rafiganj	9.46	4.2	9.26	10.7
Aurangabad	Tineri Morh	5.93	0.8	2.2	3.48
Banka ps	Amarpur ps	4.71	1.29	2.57	3.52
Banka ps	English More	3.8	1.08	2.02	2.3
Banka ps	Rampur	3.73	1.96	1.36	2.13
Banka ps	Banka ps	4.71	2.15	0.78	2.76
Banka ps	Barahat	5.38	2.03	1.5	3.03
Banka ps	Baunsi	9	4.94	6.4	5.05
Banka ps	Bausi pwdib	8.5	-	6.21	6.37
Banka ps	Tinmurty	5.92	2.78	1.7	3.4
Banka ps	Chandan	8.6	2.99	2.48	4.1
Banka ps	Panjwara	6.95	1.88	4	4.84



Banka ps	Katoria	8.12	2.44	1.16	5.34
Banka ps	Rajaun ps	9.32	3.7	3.9	6.75
Banka ps	Fulidumer	7.45	2.57	3.92	2.38
Banka ps	Kharharia	5.2	1.45	1.69	3.45
Banka ps	Mirjapur	4.41	1.97	1.62	3.66
Banka ps	Sambhuganj	5.93	1.8	1.72	3.01
Begusarai	Baraun mile	7.43	-	5.77	6.65
Begusarai	Kumharson	8.35	2.81	3.3	4.23
Begusarai	Naya Nagar Dularpur	5.84	1.62	3.25	4.84
Begusarai	Teghra	8.53	3.11	5.99	7.7
Begusarai	Bagrash	7	3.51	5.43	6.11
Begusarai	Bakhri Salauna	6	3.85	3.98	4.14
Begusarai	Manjaul	5.67	1.06	1.55	3.06
Begusarai	Peernagar	7.02	-	-	4.09
Begusarai	Simri	6.21	4.37	4.3	5.04
Begusarai	Laxminia	Partially filled	4.96	3.88	6.15
Begusarai	Parihara	6.1	2.14	4.12	5.37
Begusarai	Begusarai	6.8	4.17	4.37	5.77
Begusarai	Harpur	5.87	2.19	3.99	5
Begusarai	Begusarai fc_ib	6.46	2.81	3.65	5.42
Begusarai	Gopalpur	6.31	0.9	3.76	5.25
Begusarai	Haridia	5.57	2.91	3.75	4.62
Begusarai	Kaithma	7.92	4.86	6.01	6.9
Begusarai	Lakho	6.48	2.84	4.28	5.22
Begusarai	Matihani	8.53	2.74	9.37	4.89
Begusarai	Mohanpur Usrai	6.14	5.13	5.35	5.37
Begusarai	Pokharia	6.39	5.04	4.9	7.67
Begusarai	Aghara	7.62	3.33	5.15	6.44
Begusarai	Cheriabariarpur	7.55	3	3.48	4.04
Begusarai	Kumbhidera	4.44	2.51	2.5	3.44
Begusarai	Badalpura	12	4.32	6.26	8.61
Begusarai	Bintoli	Partially filled	2.62	4.53	Partially filled
Bhagalpur	Bihpur ib	8.83	2.16	Reorted as closed	5.24
Bhagalpur	Marwa	5.62	3.2	2.96	4.42
Bhagalpur	Ghoga rly stn	5.35	1.52	1.18	2.1
Bhagalpur	Harchandpur	5.94	1.51	1.86	2.98
Bhagalpur	Jagnathpur	8.8	2.71	6.18	6.48
Bhagalpur	Kahalgaon rlyco	12.5	3.03	2.81	Dry
Bhagalpur	Madrauni Chowk	6.92	2.03	2.78	4.56
Bhagalpur	Bhagalpur city	14.73	12.64	11.14	10.95
Bhagalpur	Jagadishpur	5.21	0.75	1.48	0.75
Bhagalpur	Naugachhia h.s	6.48	1.56	2.35	5.86
Bhagalpur	Pirpinti db.ib	7.5	1.41	4.8	4.93

Bhagalpur	Sabaur	11.2	4.28	1.78	2.4
Bhagalpur	Shahkund db.ib	6.75	2.91	1.48	3.31
Bhagalpur	Akbarnagar stn	4.72	1.69	1.72	2.86
Bhagalpur	Asarganj	4.64	1.02	-	
Bhagalpur	Sultanganj	8.61	3.9	4.12	7.86
Bhojpur	Jarawarpur Milki	5.94	3.32	4.29	4.67
Bhojpur	Bakhorapur	6.63	6.97	5.42	5.28
Bhojpur	Balua	9.6	5.4	8.15	7.92
Bhojpur	Barahara	9.58	5.27	8.2	5.86
Bhojpur	Dhusaria	7.97	5.45	6.58	7.23
Bhojpur	Ekauna	7.32	5.18	2.22	4.61
Bhojpur	Farhda	7.2	-	5.7	5.43
Bhojpur	Jagatpur	7.78	4.54	-	7.31
Bhojpur	Milki	7.17	3.65	4.94	5.58
Bhojpur	Simariya	8.12	3.86	6.03	6.21
Bhojpur	Bihiya	4.42	2.67	4.15	3.95
Bhojpur	Garhani	5.5	1.95	3.22	4.41
Bhojpur	Jagadishpur I	6.1	1.06	2.66	5.81
Bhojpur	Birampur	7.42	6.26	6.94	7.21
Bhojpur	Giddha	7.58	3	6.42	6.51
Bhojpur	Inglishpur	7.54	6.85	6.54	6.89
Bhojpur	Kulharia	8.2	6.02	6.4	3.32
Bhojpur	Lodhipur	9.48	5.86	6.4	6.51
Bhojpur	Mokhlisa	7.13	Flooded	7.36	5.32
Bhojpur	Muhammadpur	7.7	6.23	6.82	6.84
Bhojpur	Pachrukhiya	7.63	5.78	6.7	6.81
Bhojpur	Rajapur Bazar	7.58	Road damaged		7.31
Bhojpur	Sakkadi	5.22	2.2	2.86	3.1
Bhojpur	Songhata	7.5	6.92	7.13	7.31
Bhojpur	Pirro	6.26	3.56	2.88	4.81
Bhojpur	Baruna	4.39	3.38	-	3.85
Bhojpur	Guljarpur	6.12	2.45	3.63	5.31
Bhojpur	Kori	4.52	2.92	4.58	5.12
Bhojpur	Nasratpur	7.73	4.68	6.77	7.76
Bhojpur	Pauna	6.14	2.17	2.58	3.66
Bhojpur	Sandesh	4.84	2.33	3.12	4.92
Bhojpur	Karnempur	7.8	3.27	3.12	2.8
Bhojpur	Chandawa	3.14	1.45	2.95	4.09
Bhojpur	Harnath Kundi	4.8	2.19	4.49	4.2
Bhojpur	Kasap	4.42	0.76	2.24	2.1
Bhojpur	Sasaram Chota	4.37	2.7	3.78	4.23
Bhojpur	Udwantnagar	5.05	0.57	1.58	2.69
Buxar	Bagen Bazar	5.82	0.65	5.32	6.21
Buxar	Barhampur	10.6	3.72	4.68	4.81

Buxar	Hathilpur	5.55	3.81	4.57	4.93
Buxar	Jugia Dera	6.55	4.65	5.56	7.45
Buxar	Khochariwan	5.2	0.5	3.44	3.68
Buxar	Mharajgunj	4.96	1.11	2.32	3.5
Buxar	Raghunathpur	6.13	2.17	6.03	7.34
Buxar	Buxar(SSA)	5.52	2.21	4.46	5.39
Buxar	Chausa	Dry	1.2	1.66	1.89
Buxar	Churamanpur DW	8.46	7.1	7.03	7.32
Buxar	Danikutia	6.45	2.72	2.78	3.47
Buxar	Dudharchak	9.7	7.78	8.25	8.31
Buxar	Kritpur	5.28	2.17	2.6	3.95
Buxar	Mishrvalia	6.62	1.21	2.5	4.53
Buxar	Ramobariya	7.94	7.5	7.39	6.12
Buxar	Thodagaon	10.29	8.73	9.02	10.44
Buxar	Dumraon	9.3	6.96	7.44	7.91
Buxar	Rajpur	3.3	1.27	1.45	1.92
Buxar	Barka Rajpur	8.75	4.75	5.47	5.43
Buxar	Dumri	4.29	2.92	3.53	4.09
Buxar	Durasan	6.45	4.81	5.57	5.81
Buxar	Karathar	6.22	1.04	6.25	6.41
Buxar	Manikpur	10.74	7.84	9.17	9.38
Buxar	Neazipur	7.35	6.64	6.9	7.21
Buxar	Sohiar	7.01	6.31	6.42	6.84
Darbhanga	Darbhanga	1.44	0.92	1.68	1.55
Darbhanga	Bithauli	5	2.18	2.76	3.22
Darbhanga	Jorja	4.54	2.74	2.7	3.21
Darbhanga	Bahera	4.28	1.64	3.15	6.8
Darbhanga	Baheri I	3.36	0.87	1.81	2.56
Darbhanga	Pouram	4.6	1.32	2.4	3.13
Darbhanga	Keoti	3.2	1	-	2.85
Darbhanga	Sakari I	3.75	0.55	2.01	2.98
Darbhanga	Simri (bithauli)	4.39	0.59	2.4	2.8
Gaya	Akauna	5.75	1.84	2.22	4.13
Gaya	Banke Bazar	5.22	1.67	3.55	4.32
Gaya	Bhadeya	7.15	4.21	3.73	5.73
Gaya	Dobhi	6.6	4.07	4.14	5.22
Gaya	Paligaon	8	6.62	7.08	Dry
Gaya	Bodh Gaya	5.66	3.34	3.44	3.96
Gaya	Magra	7.72	1.33	2.65	3.61
Gaya	Fatehpur	10.85	3.74	4.62	5.5
Gaya	Bitho Sharif	9	-	6.68	
Gaya	Bitho Sharif I	Gate Closed		6.68	Gate Closed
Gaya	Chakand	10.91	Dry		
Gaya	Chand Chowra Chowk	8.45	5.65	6.53	7.19

Gaya	Ram Kund	6.53	4.89	4.9	-
Gaya	Sangat Gali	11.4	5.72	5.72	6.79
Gaya	Guraru	4.95	1.61	2.44	3.94
Gaya	Raghunath Khap	9.3	2.49	2.65	4.82
Gaya	Baseta	4.39	1.74	2.36	3.03
Gaya	Konch	8.15	4.77	8.45	8.88
Gaya	Manpur	8	5.86	6.3	5.14
Gaya	Dangra More	5.74	3.57	4.48	5.38
Gaya	Sherghati	7	1.74	3.1	Well filled
Gaya	Tekari	4.82	3.03	4.18	4.95
Gaya	Wazirganj	5.12	2.18	1.62	3.29
Gopalganj	Manjwalia	2.98	2.43	1.51	3.44
Gopalganj	Barauli	3.8	2.18	2.6	2.71
Gopalganj	Bhojpurwa	1	2.37	1	2.98
Gopalganj	Bhore	5.1	4.68	4.44	4.98
Gopalganj	Rampur2	5.3	1.71	1.2	1.49
Gopalganj	Turkaha	2.55	0.93	1.35	2.02
Gopalganj	Yadavpur Sukal	3	2.22	4.54	4.25
Gopalganj	Hathua1	4.84	1.89	2.94	3.29
Gopalganj	Jamunaha	3.98	4.28	1.95	4.9
Gopalganj	Katiya	4.5	2.38	2.23	3.79
Gopalganj	Lala Pachmawa	4	2.68	1.89	4.17
Gopalganj	Misirbatha1	6.28	4.01	4.2	4.78
Gopalganj	Jalalpur2	4.35	3.25	2.15	3.21
Gopalganj	Kuchaiкот	2.9	1.28	1.42	2.43
Gopalganj	Bangra	3.6	2.35	2.45	3.51
Gopalganj	Bangra Deoria	4.17	2.01	3.25	2.95
Gopalganj	Bishambarpur	4.3	2.47	3.2	3.7
Gopalganj	Chanwabe	2.98	2.21	0.5	Reported as blocked
Gopalganj	Lachchwar	3.52	2.48	2.38	2.97
Gopalganj	Manjhwa1	2.65	2.66	1.35	5.71
Gopalganj	Nunachapra	6.3	1.19	3.14	2.47
Gopalganj	Phulwariya	4	2.23	2.85	2.62
Jamui	Chakai	6.82	2.41	5.19	5.8
Jamui	Chakai B	-	-	4.25	Dry
Jamui	Tarakhakhar	12.24	9.09	8.83	9.96
Jamui	Aghara	5.56	1.8	2.58	5.33
Jamui	Jamui	9.32	8.71	8.01	6.96
Jamui	Manjhwe	10.15	1.51	1.62	2.08
Jamui	Ambedkar Nagar	11.02	3.76	1.04	4.05
Jamui	Chandramanita	6.6	2.1	2.73	3.14
Jamui	Chandwari	11.01	0.68	-	-
Jamui	Harna	5.82	-	1.24	3.46
Jamui	Jhajha	6.17	6.42	8.81	9.8

Jamui	Gidhaur O	8.2	5.08	Dry	8.1
Jamui	Purna Khaira	2.34	1.79	-	2.78
Jamui	Gidhaur	-	2.13	2.77	-
Jamui	Lalmatia	4.97	1.42	4.89	6.64
Jamui	Laxmipur	10.1	1	1.65	2.9
Jamui	Sandipi	7.56	3.01	Well filled	
Jamui	Sikandra	4.41	1.15	1.5	2.57
Jamui	Batia	12.08	11.49	12.03	12.16
Jamui	Sono	6.54	2.37	3.98	3.48
Jahanabad	Arwal	6.52	3.73	3.79	5.72
Jahanabad	Dirpal Bigha	-	2.28	-	2.67
Jahanabad	Madhubani	4.49	2.42	2.57	4.16
Jahanabad	Bholapur	-	1.61	-	2.1
Jahanabad	Ghoshi	5.4	1.21	3.63	Well filled
Jahanabad	Hulasganj	5.83	2.45	4.24	4.05
Jahanabad	Kako	6.07	2	3.09	3.2
Jahanabad	Lakhwar	4.29	2.09	3.36	3.15
Jahanabad	Gaurakhini	3.96	5.67	3.19	7.54
Jahanabad	Jahanabad hosp.	3.82	1.41	3.23	-
Jahanabad	Teni Bigha	3.37	1.45	1.98	2.1
Jahanabad	Bairbigha	5.51	4.41	4.57	4.82
Jahanabad	Bansi Surajpur	6.71	0.6	5.13	1.23
Jahanabad	Imamganj	-	2.81	-	4.26
Jahanabad	Kinjer	6.76	4.67	6.05	7.1
Jahanabad	Jhunathi	5.42	3.1	5.11	5.7
Jahanabad	Kurtha bdo	5.08	1.18	4.07	2.72
Jahanabad	Alubikha	4.72	2.63	2.89	2.89
Jahanabad	Makhdumpur	4.88	2.67	3.11	3.82
Kaimur	Bhabhua	12.3	6.8	9.48	12.3
Kaimur	Saraiya	12.18	8.62	7.16	12.49
Kaimur	Tori f.ck.post	7.18	4.71	7.53	7.77
Kaimur	Chainpur	9.7	5.24	9.66	9.7
Kaimur	Khariava	9.3	2.56	4.44	9.3
Kaimur	Chand in p.s.	5.3	1.83	2.18	2.45
Kaimur	Karmanasa	10.03	4.16	6.13	7.29
Kaimur	Nuawan	8.91	4.1	5.91	8.12
Kaimur	Mohania	8.09	3.13	6.73	7.64
Kaimur	Bandipur	4.45	4.23	5.23	4.38
Kaimur	Bevnaliya	7.08	4.31	5.26	6.54
Katihar	Barari-1	5.13	2.47	3.17	3.97
Katihar	Dumaria	5.2	2.84	-	3.86
Katihar	Kursela	8.2	2.34	3.48	5.32
Katihar	Paranpur	4.5	1.15	2.06	3.97
Katihar	Dumer	4.32	Well filled		

Katihar	Mahendrapur	3.2	2.08	2.06	3.98
Katihar	Narahaiya	5.12	3.42	2.8	3.5
Katihar	Kadwa	4.85	-	3.3	5.02
Katihar	Sonauli	3.23	2.7	1.56	3.28
Katihar	Hafal	4.84	2.14	2	3.85
Katihar	Katihar	5.67	2.57	2.74	5.56
Katihar	Khiria	5.82	2.88	3.08	4.67
Katihar	Korha	5.72	2.72	3.1	4.45
Katihar	Routru	3.64	Well filled		
Katihar	Manihari	6.15	5.51	3.22	5.47
Katihar	Basantpur	4.85	2.32	2.78	4.02
Katihar	Bastaul	Dry	2.45	2.51	4.64
Khagaria	Pirnasara	5.07	2.4	3.4	5.01
Khagaria	Basantpur	6.38	2.58	3.52	5.43
Khagaria	Chautham	5	1.03	2.9	Partially filled
Khagaria	Maheshkhunt 1	Dry	2.94	2.2	6.13
Khagaria	Gandhinagar	4.8	-		3.57
Khagaria	Jamalpur	5.95	2.44	2.63	6.38
Khagaria	Maheshkhunt	-	2.94	2.2	6.13
Khagaria	Maheshkhunt _Lohiya Chowk	6.2	2.08	3.31	5.45
Khagaria	Maheshkunt	6.5	-		4.8
Khagaria	Gangaut	7.63	2.25	5.47	6.85
Khagaria	Ismailpur	7.7	2.52	5.04	6.39
Khagaria	Kasimpur	7.17	1.5	3.92	6.4
Khagaria	Khagaria	7	2.91	5.5	6.84
Khagaria	Labhgaon	8.93	3.12	5.54	5.47
Khagaria	Dewri	2.89	1.4	1.52	5.01
Khagaria	Mohaddipur	8.9	4.75	4.7	6
Khagaria	Salarpur	Partially filled	2.14	4.36	6.4
Kishanganj	Bahadurganj B	3.12	1.22	1.53	3.56
Kishanganj	Gunsagar	4.4	1.59	2.28	3.86
Kishanganj	Kishanganj	3.5	1.6	2.27	3.4
Kishanganj	Bhagalbari	3.26	1.22	2.74	4.26
Kishanganj	Kochadhamin	4.2	-	2.15	4.46
Kishanganj	Kaswa Kaliganj	2.95	0.56	1.13	3.02
Kishanganj	Teragachhi	4.85	-	2.3	4.16
Kishanganj	Thakurganj	10.2	7.62	8.36	9.9
Lakhisarai	Dariyapur	9.06	5.12	6.78	7.44
Lakhisarai	Barhaiya	9.01	3.39	6.98	7.41
Lakhisarai	Kiul_1	2.34	0.76	1.23	1.09
Lakhisarai	Lakhisarai	5.3	1.95	7.52	9.94
Lakhisarai	Surajgarha 1	9.21	5.48	4.02	4.75
Lakhisarai	Arma	7.12	1.05	1.44	3.03

Lakhisarai	Kajra	6.97	3.61	2.06	2.26
Lakhisarai	Rishi Paharpur	8.24	2.8	5.76	6.93
Lakhisarai	Saidpur	6.74	1.7	3.02	2.22
Madhepura	Abhiyatola	6.1	4.05	3.84	4.54
Madhepura	Chausa1	5.05	2.59	3.06	4.11
Madhepura	Ganeshpur	3.75	Gate lock		3.26
Madhepura	Bhimpura	3.65	1.59	-	3.24
Madhepura	Hatkora bazar	3.48	1.3	-	3.03
Madhepura	Madhepura	4.69	2.55	3.42	3.23
Madhepura	Surajganj	2.83	0.73	1.57	2.12
Madhepura	Gaushala Chowk	3.61	2.18	2.72	3.3
Madhepura	Murliganj	2.83	0.95	1.76	2.34
Madhepura	Rajui Rajni	3.21	-	2.34	3
Madhepura	Rampur	4.12	1.96	-	3.69
Madhepura	Barahari	3.01	1.49	2.66	3.1
Madhepura	Jiwachhapur	3.8	1.82	3.3	3.56
Madhepura	Singeswar	5.29	3.55	4	4.27
Madhepura	Gwalpara	4	-		3.2
Madhepura	Kusthan	4.32	2.69	2.93	3.44
Madhepura	Uda Kishanganj	4.9	3.14	3.84	4.08
Madhubani	Harri	5.19	1.13	2.6	2.8
Madhubani	Babubarhi	1	0.28	0.82	1.21
Madhubani	Narar	3.06	0.7	1.6	1.96
Madhubani	Benipatti	1.6	0.5	0.79	1.65
Madhubani	Dhakjari	3.17	1.15	2.12	2.03
Madhubani	Kapasias	2.02	0.5	1.51	2
Madhubani	Baurahar Chowk	4.96	0.55	1.02	3.75
Madhubani	Harlakhi	-	-	-	2.27
Madhubani	Jaynagar	2.48	1.16	1.48	1.96
Madhubani	Bideshwar Asthan	4.95	2.82	3.85	4.4
Madhubani	Jhanjharpur	0.5	0.2	0.47	0.99
Madhubani	Bentadih	3	0.42	1.79	2.37
Madhubani	Khajauli	2.44	1.09	1.58	2.28
Madhubani	Thantola	3.32	0.85	2.41	2.88
Madhubani	Jogiya	3.28	1.5	2.34	2.75
Madhubani	Ambedkar Nagar	3.76	1.14	1.51	1.94
Madhubani	Bihari	4.95	Well filled		
Madhubani	Madhubani	1.58	1	1.07	1.7
Madhubani	Bhawanipur	5.21	2.96	3.41	4.8
Madhubani	Pandaul	4.7	Well filled		2.76
Madhubani	Phulparas1	2.1	0.7	1.32	1.5
Madhubani	Shambhuar	4.46	1.58	2.85	3.28
Madhubani	Kapileshwar	1.5	0.72	3.55	3.84
Madhubani	Siswar	3.4	1.25	2.25	2.8

Madhubani	Pariharpur	3.3	1.57	2.7	2.76
Munger	Bariarpur	8.23	1.61	1.24	3.16
Munger	Singhiya chawk	6.25	-	3.22	3.32
Munger	Bariarpur1	8.23	1.79	1.24	2.63
Munger	Jalampur1	8.12	5.28	2.35	6.23
Munger	Gangta Morh	7.72	2.4	1.64	5
Munger	Gobadda	8.23	2.18	1.96	2.76
Munger	Havelikhargpur	5.46	5.5	5.1	3.31
Munger	Tarapur	5.1	Gate lock	2.25	3.54
Munger	Purabsarai	8.95	4.8	3.12	5.55
Munger	Rampur2	5.37	1.87	1.46	3.6
Munger	Sangrampur	7.56	1.02	-	2.43
Muzaffarpur	Aurai	1.71	Flooded	2.1	1.38
Muzaffarpur	Rajkhand	3.66	Flooded	3.35	2.72
Muzaffarpur	Bhagwanpur Chowk	3.18	1.25	3.18	2.83
Muzaffarpur	Jaffarpur	4.32	2.75	3.4	4.28
Muzaffarpur	Mahammadpur Balmi	5.87	5.1	5.25	4.25
Muzaffarpur	Bochaha	7.33	6.5	6.49	5.67
Muzaffarpur	Shukrahat	6.9	5.05	-	4.78
Muzaffarpur	Barkurwa	Dry	3.35	4.1	4.01
Muzaffarpur	Surfuddinpur	1.39	4.8	5.05	1.36
Muzaffarpur	Muzaffarpur	7.28	4.8	6.1	5.02
Muzaffarpur	Katra1	5.98	3.7	4.1	4.39
Muzaffarpur	Ramnagar	5.91	Flooded	4.5	4.17
Muzaffarpur	Sakri chatti	4.09	2.62	3.1	2.56
Muzaffarpur	Turki	4.52	2.92	Well filled	
Muzaffarpur	Wazitpur	5.55	2.96	Well filled	
Muzaffarpur	Gargaliya	6.07	Flooded	3.9	3.87
Muzaffarpur	Digra	5.86	Flooded	3.2	2.99
Muzaffarpur	Japaha	7.31	0.84	4.55	4.25
Muzaffarpur	Dewaria	5.37	4.25	3.65	4.92
Muzaffarpur	Paro	4.98	2.5	4.8	4.22
Muzaffarpur	Daha Chhapra	4.11	3.23	4	3.67
Muzaffarpur	Parwalpatti Barauna	5.35	1.99	-	5.04
Muzaffarpur	Rajwara	5.6	2.75	5.4	4.65
Muzaffarpur	Sahebganj	4.87	2.6	4.55	4.09
Muzaffarpur	Dholi	7.9	3.3	6.18	6.06
Muzaffarpur	Mahantmanihari	5.79	5.1	5.65	5.25
Muzaffarpur	Mushari	Partially filled	3.12	Well filled	
Muzaffarpur	Seho	6.91	3.55	5.35	5.12
Nalanda	Asthwan	3.75	1.51	2.54	2.96
Nalanda	Jangipur	8.16	3.51	8.09	8.44
Nalanda	Sare	9.14	5.37	8.65	9.83



Nalanda	B Sharif Rly Stn	2.56	0.64	1.8	2.5
Nalanda	Biharsharif	4.1	2.4	3.33	3
Nalanda	Muraura	3.62	1.98	2.63	2.99
Nalanda	Ranabigha	8.51	5.46	5.68	6.29
Nalanda	Sohdh	3.33	3.2	3.18	3.52
Nalanda	Ekangarsarai	Dry	4.84	Well filled	
Nalanda	Parwalpur	4.89	4.2	3.92	4.08
Nalanda	Parwalpur 1	5.6	3.7	4.92	3.78
Nalanda	Giriak	2.93	1.93	Dry	2.73
Nalanda	Pawapuri	3.05	2.22	3.55	2.98
Nalanda	Harnaut 1	1.75	0.92	1.46	1.7
Nalanda	Hilsa	8.31	3.18	7.72	8.36
Nalanda	Karaiparsurai	Dry	1.28	2.64	4
Nalanda	Nischalganj	4.21	1.96	3.31	3.75
Nalanda	Ankuri Bazar	7.78	4.75	7.6	7.84
Nalanda	Islampur	2.73	1.7	2.05	2.4
Nalanda	Sherpur	2.71	1.99	2.14	3.65
Nalanda	Daudpur	7.57	6.54	6.99	7.6
Nalanda	Doiya	5.86	4.17	5.47	4.76
Nalanda	Heganpura	9.77	5.9	9.48	9.7
Nalanda	Paparnhosa	5.12	2.44	3.75	3.96
Nalanda	Vena	9.93	5.28	8.86	9.2
Nalanda	Bhui	8.95	3.27	6.26	7.88
Nalanda	Kundalpur	9.17	7.04	8.91	9.21
Nalanda	Nalanda	7.45	7.35	7.33	7.3
Nalanda	Nirpur	8.34	4.31	2.35	2.64
Nalanda	Pilkhi	5.93	1.7	4.18	7.5
Nalanda	Rajgir	10.13	5.47	7.47	8.17
Nalanda	Silao	7.72	5.4	7.84	7.79
Nalanda	Sithaura	4.62	2.06	3.5	3.71
Nawada	Tungi	5.13	3.46	4.4	5.2
Nawada	Bishunpur	4.84	1.64	3.84	3.55
Nawada	Hisua	8.6	2.51	4.42	5
Nawada	Roh	3.18	0.87	2.17	-
Nawada	Kawakol ashram	5.95	4.01	4.85	4.74
Nawada	Rupau	6.39	2.04	4.96	6.55
Nawada	Khanwa	7.13	3.31	3.78	4.04
Nawada	Garhpar	4.07	3.6	4.83	3.75
Nawada	Gonama	7.69	4.17	6.56	7.22
Nawada	Nawada2	8.7	5.05	8.57	8.77
Nawada	Pakribrawan Pond	6.03	2.25	5.47	5.88
Nawada	Dopata	6.67	5.01	6.28	6.1
Nawada	Meskaur	4.68	1.21	2.52	3.47
Nawada	Nawabganj	6.67	1.88	2.31	3.55

Nawada	Shahpur Morh	3.05	1.99	2.1	2.48
Nawada	Warshaliganj	2.69	1.3	2.59	2.13
W Champaran	Bagaha	3.76	0.75	4.15	3.93
W Champaran	Belwa	2.88	1.42	3.15	2.55
W Champaran	Mangalpur	4.06	1.6	4.25	4.12
W Champaran	Bettiah	3.11	1.25	2.45	2.68
W Champaran	Chanpatia	4.93	0.65	4.7	4.58
W Champaran	Gurwalia	3.81	1.55	3.2	3.36
W Champaran	Banspur pipra	Dry	2.18	-	
W Champaran	Lauria	4.06	1.55	3.7	3.62
W Champaran	Panchpurwa	Partially filled	1.27	Well filled	
W Champaran	Shishwania	4.36	2.36	-	3.83
W Champaran	Majhwalia	3.33	1.7	3.15	4.33
W Champaran	Korigawa Chowk	2.81	0.95	1.48	2.37
W Champaran	Ramnagar	4.43	Partially filled		
W Champaran	Sabuni Pokhra	4.43	3.6	-	4.36
W Champaran	Taulaha	2.93	4.76	-	3.42
W Champaran	Harnatanr	4.85	1.85	3.12	3.49
W Champaran	Naurangia	4.39	2.6	3.6	3.76
W Champaran	Valmikinagar	2.65	2.3	3.12	2.35
Patna	Bakhtiarpur	6.16	4.18	6.21	6.32
Patna	Agwanpur	6.08	2.87	2.08	3.7
Patna	Barhl	4.3	0.63	2.52	4.4
Patna	Rajpura	6.02	0.81	4.69	4.46
Patna	Shahri	4.12	0.83	2.36	2.32
Patna	Amhara	2.9	1.37	1.76	3.77
Patna	Bishambharpur	3.16	2.8	2.23	3.7
Patna	Gyaspur Purvatola	4.53	-	3.34	4.02
Patna	Raghopur	5.63	6.9	3.36	5.8
Patna	Bharatpura	3.2	1.7	1.48	1.9
Patna	Din Bigha_nhs	4.62	1.46	3.21	3.1
Patna	Dulhin Bazar	4.65	3.88	4.43	4.28
Patna	Mariyawa	3.78	2.5	2.62	-
Patna	Noniatola	4.79	1.89	1.7	3.54
Patna	GoptalNHS	4.67	3.13	3.88	3.94
Patna	Khaspur	8.93	3.74	7.15	4.32
Patna	Phulwari	9.97	Gate lock	8.63	1.72
Patna	Daniyawan	6.32	1.73	3.26	5.71
Patna	Fatuha	7.55	3.88	5.03	6.98
Patna	Mokama	4.18	-	3.24	-
Patna	Darbeshpur	5.58	-	5.2	8.25
Patna	Gyaspur(purvitola)	4.53	1.16	3.47	-
Patna	Lalbegam	6.95	3.31	4.96	4.2
Patna	Maner	5	Partially filled	3.98	3.87

Patna	Nagwa_nhs	4.66	2.2	3.67	2.5
Patna	Maranchi	8.94	2.45	4.33	7.61
Patna	Faridpur_nhs	4.2	2.6	2.81	-
Patna	Snehitola	5.85	1.84	4.34	4.08
Patna	Bali Pakar	-	3.11	1.74	3.58
Patna	Khazpura_nhs	4.83	5.02	3.47	4.9
Patna	Mithapur	3.82	-	2.94	Partially filled
Patna	Patna-City	2.18	1.89	-	4
Patna	Etwarpur	5.28	1.23	3.58	3.27
Patna	Hulas Chak	4.91	4.32	4.52	4.86
Patna	Parsa Bazar_nhs	8.49	3.82	6.81	3.91
Patna	Deokali	8.76	2.89	6	6.74
E Champaran	Dumaria	4.92	2.86	4.3	4.03
E Champaran	Radia	2.56	2.25	2.6	2.36
E Champaran	Chakia	5.34	2.16	3.7	3.32
E Champaran	Chakia1	5.6	Gate lock	4.55	4.53
E Champaran	Uttari Gavandra	4.23	2	3.6	3.44
E Champaran	Belai	3.05	3.15	-	2.82
E Champaran	Chatia	5.34	2.16	3.7	4.5
E Champaran	Chiraiya	4.6	0.9	3.05	Partially filled
E Champaran	Mohabbatpur	3.17	-	2.85	2.9
E Champaran	Bhakatiy Tola	3.82	Road damaged	3.25	3.38
E Champaran	Ghorashan	2.92	Flooded	2.5	2.73
E Champaran	Murarpur	3.73	2.39	3.8	3.53
E Champaran	Sheoraha	1.36	1.57	1.7	1.36
E Champaran	Dharampur	5.12	1.65	3.8	4.09
E Champaran	Dipau	4.08	1.25	3.7	2.71
E Champaran	Rajpur	4.41	-	3.35	3.24
E Champaran	Dubey Tola	3.46	1.75	3.85	2.63
E Champaran	Husaini	-	2	3.7	3.36
E Champaran	Khajuriachowk	4.06	1.9	Well filled	
E Champaran	Kizerpura	4.76	2.6	3.7	4
E Champaran	Lala Chapra	3.99	-	2.62	2.61
E Champaran	Sugauli	3.99	Flooded	2.9	3.32
E Champaran	Lakhwara	1.97	-	2	1.91
E Champaran	Motihari	4.46	2.1	4.15	4.15
E Champaran	Chhauradanu	1.79	Flooded	3.98	2.16
E Champaran	Bishunpur Matiyarwan	3.21	2.55	3.7	3.45
E Champaran	Gobindganj	3.48	0.82	2.75	2.49
E Champaran	Patahi	5.09	1.82	4	3.76
E Champaran	Raghunathpur	2.35	Flooded	2.35	2.38
E Champaran	Raxaul	4.62	Flooded	2.98	3.84
E Champaran	Chhapwa	3.99	0.7	-	3.32

E Champaran	Bairiya Bazar	5.25	2.72	4.55	4.5
E Champaran	Nawada1	2.74	1.91	-	
Purnia	Amaur	4.4	3.16	3.9	5.12
Purnia	Bansbari	4.44	2.86	Well filled	
Purnia	Baisi2	3.06	1.98	2.59	3.42
Purnia	Chadia	4.22	Partially filled		
Purnia	Budhia Gola	4.5	2.09	2.62	4.06
Purnia	Mangujan	5.5	2.53	3.05	4.06
Purnia	Dargaha	3.12	2.28	2.08	3.74
Purnia	Amri Kukran E	2.85	2.91	Partially filled	-
Purnia	Amri Kukran W	5.46	1.98	4.2	5.3
Purnia	Banmankhi	4.64	1.47	1.95	4.74
Purnia	Dhamdaha	4.34	3.84	3.85	4.84
Purnia	Kajha	3.5	1.21	1.61	3.27
Purnia	Jalalgarh	-	3.56	3.85	4.24
Purnia	Kasba	6.6	3.78	4.2	6.4
Purnia	Khata Hat	3.26	1.83	2.27	3.71
Purnia	Barsoni	4.62	2.5	2.81	4.22
Purnia	Purnia	3.2	1.76	2.15	3.68
Purnia	Ranipatra	3.85	2.1	2.62	4.53
Purnia	Tikapatti Chowk	4.19	2.33	3.51	4.74
Purnia	Tilka Patti	4.78	2.33	1.9	3.56
Rohtas	Bikramganj pp	9.9	3.88	4.42	9.9
Rohtas	Chenari hospita	12.6	3.86	7.03	10.95
Rohtas	Maliabagh	6.32	3.62	4.44	6.03
Rohtas	Anikut	8.63	9.85	10.63	10.38
Rohtas	Karbindia(templ	8.3	5.46	6.71	7.59
Rohtas	Dinara1	5.6	1.71	2.14	4.5
Rohtas	Kochas	5.37	0.74	2.05	4.38
Rohtas	Nokha in temple	4.94	1.57	2.12	3.52
Rohtas	Bahaura	4.58	1	1.4	3.56
Rohtas	Ambwalia	5.65	1.23	1.82	5.61
Rohtas	Belthari	5.99	1.78	2.08	5.71
Rohtas	Sirisiyan	6.88	2.05	2.56	6.1
Rohtas	Jahanabad (kudra)	10.35	6.5	8.08	9.19
Rohtas	Rajandih	7.07	0.94	1.72	5.57
Rohtas	Nasriganj	11.24	5.52	6.62	8.16
Rohtas	Akbarpur in bdo	11.66	6.74	4.54	12.36
Rohtas	Amawan Gate	2.43	0.17	0.21	0.45
Rohtas	Sasaram p.o.	7.74	1.12	2.84	3.31
Rohtas	Tilothu bustand	8.76	7.72	7.5	8.66
Rohtas	Amawan	2.43	0.17	0.21	0.45
Saharsa	Bangaon	2.68	1.13	1.86	2.3
Saharsa	Basudeva	1.45	0.84	1.38	1.76

Saharsa	Chainpur	2.49	1.4	1.75	2.44
Saharsa	Kharakuti	4.12	2.35	-	3.8
Saharsa	Niralatola	3.87	-	-	3.09
Saharsa	Panchgachhi	3.3	1.58	2.4	3.1
Saharsa	Patodi Bazar	2.6	1.46	2.12	2.6
Saharsa	Patodibazar	2.82	1.37	2.05	2.44
Saharsa	Potwaha	2.93	1.72	2.53	2.69
Saharsa	Saharsa I	3.7	2.32	3.01	3.44
Saharsa	Tulsiyahi	1.73	1.16	1.62	1.5
Saharsa	Sonbarsaraj I	4.7	2.11	3.59	3.47
Saharsa	Jamunia	3.35	1.65	2.19	2.92
Saharsa	Semribaktiarapur	4.35	1.28	1.52	2.8
Saharsa	Simri Bakhtiyarpur	3.4	Partially filled		Gate locked
Saharsa	Adrahch	3.56	-	-	2.67
Saharsa	Baidnathpur	4.7	2.28	2.95	3.2
Saharsa	Chandaur Purbi	4	1.68	2.68	3.07
Samastipur	Kalyanpur	4.75	0.62	2.78	4.39
Samastipur	Patapara	3.93	0.15	1.71	1.63
Samastipur	Singhia Ghat	8.86	2.76	4.4	5.8
Samastipur	Dalsinghsarai	6.92	4.04	5.4	6.06
Samastipur	Malipur	3.53	1.16	2.47	2.4
Samastipur	Basudebpur	5.06	2.5	3.6	3.83
Samastipur	Jakhra	6.1	3.7	4.5	4.67
Samastipur	Madudabad	5.42	5.52	6.11	4.86
Samastipur	Bajidpur	Partially filled	4.14	5.48	3.99
Samastipur	Kerian	3.9	3.3	4.27	2.34
Samastipur	Rosera	7.18	1.34	4.8	5.12
Samastipur	Sarai Ranjan	6.63	6.58	6.32	7.26
Samastipur	Motipur	7.9	3.28	1.8	6.52
Samastipur	Tajpur I	8.3	4.82	6.2	5.74
Samastipur	Vikrampur	6.65	4.15	4.87	5.12
Samastipur	Dandia Asadpur	4.96	3.2	4.12	3.14
Samastipur	Ujiarpur	3.95	3.43	4.26	5.02
Samastipur	Jathmalpur	6.5	2.1	3.2	-
Samastipur	Raghunathpur	6.5	1.8	3.29	5.35
Saran	Jalalpur	3.9	3.08	5.2	Well filled
Saran	Manopali	4	2.43	3.85	3.65
Saran	Chhapra	4.6	2.33	3.3	Well filled
Saran	Chirand	7.44	3.23	4.27	5.83
Saran	Daldali Bazar A	7.12	1.6	5.13	4.85
Saran	Daldali Bazar B	1.3	1.76	1.3	4.32
Saran	Kapiya Niyamat	6.8	3.25	4.99	4.5
Saran	Karbinidia	7.1	-	5.02	4.35
Saran	Mahuapakri	4.43	1.29	3.4	3.9

Saran	Mauna Pakri	7.48	1.2	5	3.79
Saran	Nagra	3.93	4.87	5.45	6.14
Saran	Taraiya	4.05	1.44	2.1	2.87
Saran	Ammi	8.18	4.48	6.27	7.38
Saran	Bishunpur	3.94	3.21	2.9	5.08
Saran	Ekma	3.94	1.9	3.05	3.73
Saran	Garkha	5.36	5.45	5	7.04
Saran	Minapur	4.75	4.16	3	5.77
Saran	Bisunpur	3.92	3.86	4.24	5.32
Saran	Rampur Kala	5.4	2.32	3.63	3.8
Saran	Majhanpura	4	6.72	3.95	7.94
Saran	Majhanpura New	4.61	4.76	3.99	7.32
Saran	Manjhi	7.4	5.49	5.3	6.87
Saran	Manjhi 2	7.14	4.04	5.32	5.28
Saran	Mansath	-	4.06	3.98	5.94
Saran	Marhaura	6.05	3.07	3.2	3.66
Saran	Masrakh	4	2.67	2.7	3.02
Saran	Masrakh1	4.55	2.91	2.98	4.35
Saran	Saguni	5.63	3.79	3.73	5.59
Saran	Saidpur	6.5	3.66	4.32	5.36
Saran	Baleshara	3.98	2.6	2.91	4.78
Saran	Sanghar Tola	5.4	3.82	4.02	7.24
Saran	Chausia	7.98	4.91	5.91	7.51
Saran	Nayagaon	7.04	4.41	4.45	6.29
Saran	Sonepur1	1.7	0.27	0.65	0.9
Saran	Taraiya	4.05	1.44	2.1	2.87
Sheikhpura	Ambari	6.05	5.27	6.04	3.88
Sheikhpura	Barbigha	6.41	6.01	6.42	3.39
Sheikhpura	Keotil	5.91	1.62	3.66	4.43
Sheikhpura	5.26	4.36	3.4	4.49	-
Sheikhpura	Sherpar	6.81	0.99	Location not found	
Sheikhpura	Nemdarganj	3	1.01	2.3	2.69
Sheikhpura	Seikhpura	7.92	3.22	3.79	7.94
Sheohar	Belsand	3.36	1.2	2.12	2.19
Sheohar	Sarbarpur	Partially filled	3.52	-	2.11
Sitamarhi	Dheng	3.9	0.9	2.55	3
Sitamarhi	Bangaon	4.33	1.12	2.19	2.96
Sitamarhi	Jagwanabazar	3.46	0.66	1.94	2.77
Sitamarhi	Bhpbhana Khaptola	4.38	1.29	2.41	3.06
Sitamarhi	Kodwara Tola	3.05	0.48	2.01	2.15
Sitamarhi	Panaura	4.13	0.93	2.56	2.15
Sitamarhi	Sitamarhi	4.65	2.63	3.35	3.46
Sitamarhi	Sursand	4.2	1.5	2.78	2.47
Sitamarhi	Nanpur	1.81	0.59	1.14	1.51

Sitamarhi	Khairwa	3.5	0.51	1.22	2.98
Sitamarhi	Pupri	3.33	1.46	1.27	2.39
Sitamarhi	Karahniya Chowk	3.42	0.72	1.62	2.37
Sitamarhi	Kushmari	3.62	0.96	2.15	2.88
Sitamarhi	Thumba1	3.15	0.46	0.91	1.8
Sitamarhi	Bhutahi	1.43	0.74	1.3	2.04
Sitamarhi	Dastiya	3	1.17	3.55	2.74
Siwan	Andar	6.55	4.63	5.4	5.75
Siwan	Basantpur	2.7	0.91	1.8	Partially filled
Siwan	Chimanpur	3.36	2.13	3.22	4.83
Siwan	Hardia	3.3	1.96	3.25	4.26
Siwan	Malmalia Chowk	3.83	1.6	2.3	2.91
Siwan	Sarripatti	3.3	1.67	1.68	2.66
Siwan	Darauli	6.48	4.78	5.57	6.77
Siwan	Agaya	Dry	2.19	2.9	4.46
Siwan	Tarwara	3.63	2.07	2.75	3.29
Siwan	Chitakhal	4.31	3.49	3.27	4.11
Siwan	Deoria	2.95	2.38	2.95	4.71
Siwan	Maharajganj	3.74	2.13	2.8	3.56
Siwan	Patrehi	4.95	2.86	4.26	4.59
Siwan	Sadikpur	3.32	3.42	2.66	4.21
Siwan	Jamanpura	4.98	1.26	3.45	3.34
Siwan	Muraripatti	4.85	2.46	3.47	4.18
Siwan	Bhagar	3.94	3.45	3.38	5.09
Siwan	Gangapur Siswan1	4.85	4.52	3.5	-
Siwan	Siwan	Dry	2.18	4.1	4.04
Siwan	Siwan1	4.2	2.29	4	4.06
Supaul	Balua	4.12	1.37	1.39	-
Supaul	Bhawanipur1	2.3	1.47	2.1	2.3
Supaul	Bhimnagar	4.5	0.78	1.53	2.19
Supaul	Birpur	2.22	1.44	2.06	2.23
Supaul	Ratanpura1	2.3	2.04	1.98	2.59
Supaul	Balua 1	3.2	1.89	2.75	3
Supaul	Balua Bazar	2.54	1.14	2.01	2.31
Supaul	Bhasanpatti	2.81	0.46	-	2.42
Supaul	Andauli	3.65	3.61	-	3.67
Supaul	Hardi	3.5	1.86	2.72	3.3
Supaul	Kario	2.63	1.49	2.02	2.73
Supaul	Malhani	7	2.03	2.24	3.39
Supaul	Supaul	2.53	1.53	2.17	2.6
Supaul	Thumba	3.28	2.45	2.99	3.2
Supaul	Pipra chowk	3.54	3.67	4.17	4.19
Supaul	Shyam Nagar	2.53	2.63	3.09	3.27
Supaul	Ganpatganj1	5.15	Partially filled	2.41	Reported as

					blocked
Supaul	Kaithtola	2.1	2.57	3.12	2.1
Supaul	Karjain	3.2	1.81	2.46	3.17
Supaul	Norha	2.6	-	1.42	2.64
Supaul	Parsarma	2.67	1.55	2.18	2.64
Supaul	Pratapganj	2.45	-	2.85	3
Supaul	Jadia	2.85	1.57	2.59	2.65
Supaul	Tribeniganj	3.04	2.49	3.19	3.09
Vaishali	Chak Sikandar	6.46	5.39	4.77	5.83
Vaishali	Kachanpur	8.73	3.8	5.7	6.68
Vaishali	Mathura	7.24	2.5	4.95	5.99
Vaishali	Mathura 2	9.75	2.5	4.95	5.99
Vaishali	Baksama	7.2	2.55	3.14	4.02
Vaishali	Bhaluhia (Garaul)	7.5	4.43	3.8	3.08
Vaishali	Chandpur Kala	7.6	3.77	3.9	4.24
Vaishali	Garaul	7.62	4.31	4.08	2.71
Vaishali	Harpur	7.4	4.73	4.55	4.75
Vaishali	Hajipur	8.13	4.2	6.35	6.94
Vaishali	Sahjadpur	7.8	3.82	4.83	6.21
Vaishali	Chakiyai	7.2	3.76	4.08	4.52
Vaishali	Kumharkal	7.2	4.42	5.35	5.94
Vaishali	Mahnar	5	4.07	5.19	6.8
Vaishali	Mahua1	7.58	3.39	4.84	5.66
Vaishali	Sarai1	7	2.01	Reported as blocked	
Vaishali	Tariya Supaul	7.59	4.19	3.7	5.31
Vaishali	Patepur	7.6	3.91	4.88	4.96
Vaishali	Gajipur	7.2	4.57	5.34	5.87



**Major Chemical parameters of ground water samples of HNS collected during Pre-Monsoon 2017 in Bihar State**

District	Block	Location	pH	EC(micros iemens/cm)	TDS	F-	Cl-	HCO3-	CO32-	SO42-	NO3-	PO43-	TH	Ca2+	Mg2+	Na+	K+
Araria	Araria	Araria	8.12	582	378.3	0.16	46.08	209.1	0	11.62	21.22	0	195.00	38	24.3	43.69	2.42
Araria	Farbisganj-1	Batnaha	7.5	282	183.3	0.14	14.18	116.85	0	6	8.32	0	75.00	22	4.86	26.05	2.64
Araria	Bhargama	Bhargama	8.23	633	411.45	0.16	81.53	215.25	0	6.84	1.21	0	205.00	40	25.51	38.1	1.02
Araria	Farbisganj	Hariarpur	8.25	381	247.65	0.27	21.27	143.96	0	8.22	26.37	0	115.00	20	15.79	26.08	2.15
Araria	Jokihat	Jokihat	8.17	870	565.5	0.06	81.53	332.1	0	38.21	2.87	0	245.00	26	43.74	74.31	4.87
Araria	Farbisganj	Matiyari	8.11	838	544.7	0.22	70.9	313.65	0	26.48	33.41	0	317.00	28	60	44.17	21.65
Araria	Palasi	Palasi	8.01	571	371.15	0.04	46.08	227.55	0	6.35	2.77	0	180.00	30	25.51	41.02	0.56
Araria	raniganj	Raniganj	7.99	658	427.7	0.07	49.63	202.95	0	38.86	38.97	0	170.00	30	23.08	74.21	1.18
Arwal	Arwal	Arwal	7.84	593	290.55	0.175	36.3	202.95	0	24.6	64.7	0	265.00	42	38.88	23	1.35
Arwal	Karpi	Bairbigha	7.75	678	196.95	0.185	40.5	301.35	0	19.63	10.3	0	225.00	54	21.87	63.56	2.81
Arwal	Sonbhadra	Bansi	7.86	382	338	0.573	5.41	202.95	0	12.26	2.88	0	190.00	42	20.655	5.69	1.56
Arwal	Kurtha	Kinjer	7.65	1015	560.3	0.318	96.2	295.2	0	55.13	71.3	0	370.00	60	53.46	50.04	36.55
Arwal	Kurtha	Kurtha	7.95	1129	341.25	0.212	108	282.9	0	71.01	124	1.31	395.00	70	53.46	83.85	11.89
Arwal	Arwal	Madhuban	7.79	251	822.9	0.15	4.91	116.85	0	7.51	13.2	1.82	115.00	24	13.36	5.76	4.68
Aurangabad	Aurengabad	Aurangabad	8.1	2850	1853	0.91	532	583	0	203.12	11.2	0	380.00	92	36.45	138	6.2
Aurangabad	Barun	Baruna	8.2	840	546	0.64	67.2	362.85	0	56.44	12	0	185.00	50	14.58	28.4	3.17
Aurangabad	Daudnagar	Daudnagar	8.25	1297	843.1	0.45	171	437.55	0	71.99	51.3	0	530.00	134	47.38	105.46	52.35
Aurangabad	Deo	Deo	8.4	1116	725.4	0.98	27.1	639.6	3	26.2	1.69	0	240.00	34	37.66	78.38	1.9
Aurangabad	Goh	Deohara	8.18	1608	1045	0.31	172	412.05	0	106.04	178	0	180.00	30	25.51	72.46	1.52
Aurangabad	Nabinagar	Dhanibar	7.98	833	541.5	0.88	91.6	258.3	0	42.54	88.6	0	220.00	44	26.73	89.26	6.62
Aurangabad	Goh	Deohara_goh	7.1	754	490.1	0.37	41.1	362.85	0	12.39	34	0	135.00	26	17.01	169.04	1.76
Aurangabad	Goh	Dhobi Tola_Goh	8.16	619	402.4	0.53	10.9	369	0	11.34	5.83	0	200.00	58	13.36	5.8	1.37
Aurangabad	Madanpur	Madanpur	8.04	1075	698.8	1.28	167	325.95	0	64.96	25.8	0	285.00	78	21.87	21.5	1.56
Aurangabad	Nabinagar	Mahuli	7.94	1851	1203	0.89	315	424.35	0	134.56	106	0	380.00	54	59.53	33.28	2.41
Aurangabad	Nabinagar	Nabinagar	8.23	637	414.1	0.89	9.81	313.65	0	16.15	7.13	0	145.00	36	13.36	7.91	2.39
Aurangabad	Nabinagar	Narai Kala	8.34	315	204.8	0.48	12.8	159.9	6	11.05	2.03	0	220.00	30	35.23	47.78	1.61
Aurangabad	Obra	Obra	8.3	603	392	0.29	19.3	289.05	0	30.81	28.8	0	490.00	74	74.11	195.09	7.41

Aurangabad	Aurengabad	Pataya	8.28	409	265.9	0.22	20.6	196.8	0	19.56	16.9	0	340.00	76	36.45	36.01	1.05
Aurangabad	Deo	Pataya	8.11	901	585.7	0.76	62.2	412.05	0	62.35	4.44	0	690.00	98	108.13	285.36	5.72
Aurangabad	Rafiganj	Rafiganj	8.34	936	608.4	0.61	72.8	448.95	3	24.73	20.7	0	230.00	36	34.02	147.56	1.26
Aurangabad	Rafiganj	Tinari Morh	8.43	775	503.8	1.04	36.9	418.2	9	12.49	4.62	0	310.00	52	43.74	64.85	0.72
Banka	Amarpur	Amarpur	7.56	1284	834.6	0.33	134.71	504.3	0	97	22.62	0	116.00	70	46.17	89.01	89.33
Banka	Banka	Banka	7.33	713	463.45	0.12	67.35	190.65	0	61.32	21	0	56.00	32	24.3	61.48	8.28
Banka	Barahat	Barahat	7.28	571	371.15	1.13	35.45	252.15	0	55.23	5	0	36.00	14	21.87	74.34	7.56
Banka	Baunsi	Baunsi	8.14	890	578.5	1.37	173.7	123	0	63	12.66	0	100.00	74	25.51	55.91	2.1
Banka	Chandan	Chandan	7.45	426	276.9	0.78	20.5	202.95	0	14	12.66	0	51.00	40	10.93	32	1.27
Banka	Amarpur	English Morh	7.86	631	410.15	0.14	31.9	216.65	0	68.25	18.3	0	54.00	36	18.22	44.28	44.21
Banka	Banka	Fullidumar	7.83	465	302.25	0.29	28.36	227.55	0	32.45	2.36	0	45.00	24	20.65	51.26	3.71
Banka	Katoriya	Katoriya	7.32	711	462.15	0.43	70.9	190.65	0	62.05	24.35	0	94.00	72	21.87	48.52	1.26
Banka	Sambuganj	Mirzapur	8.51	926	601.9	1.98	74.44	350.55	12	55.2	0	0.02	42.00	18	24.3	127.15	8.63
Banka	Dhoraiya	Panjwara	7.91	344	223.6	0.34	24.81	135.3	0	30.98	0	0	40.00	22	18.22	19	5.99
Banka	Rajoun	Rajaun	8.12	401	260.65	0.46	7.09	196.8	0	29.3	0	0	31.00	10	20.65	41.26	5.91
Banka	Amarpur	Rampur	7.76	727	472.55	0.08	67.35	196.8	0	79.61	5.23	0	73.00	38	35.23	41.31	1.95
Banka	Sambuganj	Sambuganj	8.02	741	481.65	0.66	60.26	252.15	0	70.16	8.2	0	43.00	16	26.73	83.47	13.74
Banka	Katoriya	Tinmurty	8.13	549	356.85	0	31.9	216.65	0	53.21	9.12	0	32.00	14	18.22	71.36	2.27
Begusarai	Matihani	badaalpora	8.06	483	313.95	0	11.8	227.55	0	53.8	0	0	170.00	30	23.085	29.33	0.46
Begusarai	Bakhri	Bagras	8.12	713	463.45	0.527	27.9	338.25	0	71.4	0	0	245.00	38	36.45	41.79	16.1
Begusarai	Bakhri	Bakhri Salona	8.05	1132	735.8	0	107	350.55	0	108.26	48.2	0	325.00	24	64.39	82.03	25.2
Begusarai	Matihani	Bareighu	8.06	674	438.1	0.85	27.8	289.05	0	86.06	7.2	0	255.00	52	30.375	41.56	0.48
Begusarai	Balia	Bari Balia	8	856	556.4	0.19	76.6	307.5	0	87.9	27.8	0	255.00	40	37.665	84.7	1.73
Begusarai	Mathihani	Bariarpur	7.99	934	607.1	0	94.9	319.8	0	79.8	26.4	0	265.00	48	35.235	76.12	18.6
Begusarai	Barauni	Baruni omile	8.04	680	442	0.633	40	301.35	0	34.48	0.21	0.02	295.00	26	55.89	36.69	0.4
Begusarai	Barauni	Begusarai	8.1	543	352.95	0.95	11.3	307.5	0	1.58	0	0	275.00	22	53.46	11.64	0.27
Begusarai	Begusarai	Begusarai FC ib	8.12	728	473.2	1.15	29.9	325.95	0	55.4	0	0	245.00	16	49.815	71.94	0.56
Begusarai	Balia	Chhoti balia	8.04	460	299	1.05	19	270	0	2	0	0	205.00	22	36.45	13.22	0.31
Begusarai	Matihani	Dariarpur	8.06	656	426.4	0.234	3.05	295.2	0	82.5	0	0	245.00	32	40.095	25.54	1.46
Begusarai	Cheria bariarpur	Gopalpur	7.95	950	617.5	0.252	20.7	541.2	0	46.1	0.28	0	350.00	54	52.245	67.47	0.55
Begusarai	Begusarai	Haridia	8.08	585	380.25	0.234	19	313.65	0	9.9	0	0.01	245.00	34	38.88	33.75	0.21
Begusarai	Begusarai	Harpur	8.11	506	328.9	0.295	10.4	307.5	0	10.99	0	0	225.00	26	38.88	19.69	0.22
Begusarai	Sahibpur kamal	Heer tola	8	486	315.9	0.15	5.53	307.5	0	2.9	1.68	0	190.00	32	26.73	22.84	0.42
Begusarai	Cheria bariarpur	Cheriabariarpur	8.24	1670	1085.5	3.04	218	492	0	83.4	41	0	350.00	20	72.9	172.8	26.7

Begusarai	Sahibpur kamal	Intoli Kalyanpt	8.26	821	533.65	0.564	87.3	184.5	0	83.29	49	0	320.00	44	51.03	24.19	25.8
Begusarai	Begusarai	Kaithma	8.05	487	316.55	0.57	2.85	319.8	0	1.77	0	0	185.00	24	30.375	26.06	3.2
Begusarai	Gharpura	Kumarshan	7.9	907	589.55	0.234	89.7	362.85	0	73.7	0	0	360.00	66	47.385	49.05	0.57
Begusarai	Cheria bariyarpur	Kumbidera	8.27	603	391.95	0.249	0.65	387.45	0	2.6	0	0.03	220.00	36	31.59	43.5	1
Begusarai	Balia	Lakhmiinia	7.97	974	633.1	0.176	101	258.3	0	91.56	49.3	0	280.00	52	36.45	65	19.2
Begusarai	Begusarai	Lakho	7.99	502	326.3	0.165	3.05	301.35	0	0.29	0	0	225.00	36	32.805	23.85	0.1
Begusarai	Matihani	Matihani	7.94	683	443.95	0	35.45	264.45	0	69.8	10.2	0	260.00	44	36.45	31.56	0.2
Begusarai	Begusarai	Mohanpur	8.1	433	281.45	0.34	3.05	233.7	0	39	0	0.04	160.00	36	17.01	33.46	0.31
Begusarai	Tegra	Naya nagar	8.01	611	397.15	0	41.1	313.65	0	21.39	0	0	235.00	28	40.095	33.21	1
Begusarai	Sahibpur kamal	New Jafar nagar	8.16	705	458.25	0.64	43.7	301.35	0	35.5	19.9	0	235.00	38	34.02	43.12	0.76
Begusarai	Pakharia	Pakharia	8.19	544	353.6	0.268	11.3	307.5	0	0.14	5.02	0	200.00	26	32.805	22.79	0.47
Begusarai	Balia	Parihara	8.14	423	274.95	0.564	3.05	270.6	0	0.25	0	0	190.00	28	29.16	9.81	0.19
Begusarai	Bakhri	Peernagaar	8.12	664	431.6	0.33	61.7	289.05	0	61.88	0	0	295.00	30	53.46	31.34	1.4
Begusarai	Sahibpur kamal	Raghunathpur	8.21	657	427.05	0	43.7	307.5	0	47.5	0	0	275.00	46	38.88	23.85	3.79
Begusarai	Sahibpur kamal	Sabdalpur	8.28	650	422.5	0	92.17	276.75	0	0.32	0	0.02	245.00	42	34.02	41.66	0.35
Begusarai	Begusarai	Simri	8.11	657	427.05	0.39	46.08	270.6	0	38.3	1.07	0	195.00	42	21.87	52.04	1.17
Begusarai	Teghra	Tegra	8.12	569	369.85	0.166	52.9	246	0	8.5	0	0	185.00	46	17.01	35.48	0.81
Bhagalpur	Jagdishpur	Bhagalpur	7.66	520	338	0.61	38.99	233.7	0	36.3	1.14	0	49.00	28	20.65	48.73	1
Bhagalpur	Kahalgaon	Ghoga	7.82	777	505.05	0.42	102.8	141.45	0	72.35	20.84	0	86.00	52	34.02	48.97	0.14
Bhagalpur	Kahalgaon	Harchandpur	8.23	356	231.4	0.43	14.18	135.3	0	41.39	16.37	0	39.00	28	10.93	31.28	0.96
Bhagalpur	Jagdishpur	Jagdishpur	7.72	2169	1409.85	1.18	244.6	664.2	0	86.08	27.6	0	121.00	54	66.8	291.33	21.88
Bhagalpur	Kahalgaon	Jagnathpur	7.21	560	364	0.28	35.45	227.55	0	32.45	31.47	0.03	62.00	34	27.94	44.32	2.9
Bhagalpur	Kahalgaon	Ka ha lgaon	7.76	1226	796.9	0.76	92.17	424.35	0	31.22	61.24	0	76.00	32	43.74	149.64	7.62
Bhagalpur	Navgachhia	Naugachhia	7.77	718	466.7	0.11	51.32	344.4	0	23.88	12.24	0	112.00	84	27.94	41.6	3.22
Bhagalpur	Pirpainty	Pirpainty	7.12	802	521.3	0.29	67.35	258.3	0	61.64	24.69	0	70.00	34	36.45	61.22	2.17
Bhagalpur	Rangra Chowk	Rangara	7.62	443	287.95	0.22	7.09	252.15	0	7.33	1.92	0	58.00	36	21.87	14.63	4.88
Bhagalpur	Sabour	Sabour	7.11	564	366.6	0.33	60.26	141.45	0	83.24	21.3	0	44.00	40	3.64	77	3.59
Bhagalpur	Sultanganj	Sultanganj	7.93	514	334.1	0.33	20.5	252.5	0	38.31	5.66	0	45.00	12	32.8	49.65	1.96
Bhojpur	Koilwar	Kulharia	7.95	567	368.6	0	42.54	221.4	0	36.12	5.3	0	210.00	42	25.51	47	0.42
Bhojpur	Barhara	Bakhorapur	8.21	461	299.7	0.15	17.5	196.8	0	23.11	22.7	0	490.00	110	52.24	92.28	100
Bhojpur	Barhara	Barhara	8.09	532	345.8	0.14	15.6	301.35	0	19.38	0	0	285.00	58	34.02	27	2
Bhojpur	Sahar	Baruna	7.99	623	405	0.38	63.5	153.75	0	61.33	52.3	0	280.00	72	24.3	47.06	3.78
Bhojpur	Jagdishpur	Bihyan	8.04	717	466.1	0.14	32.2	369	0	47.15	0	0	190.00	32	26.73	13.12	20.35
Bhojpur	Koilwar	Birampur	8.14	726	471.9	0.2	75.7	313.65	0	33.66	0	0	220.00	52	21.87	17.25	2.24

Bhojpur	Udwananagar	Chandwa	7.96	513	333.5	0.404	5.5	313.65	0	16.41	0	0	295.00	70	29.16	40.25	2.53
Bhojpur	Barhara	Dhusaria	8.05	918	596.7	0	85.8	338.25	0	71.74	34	0	500.00	108	55.89	89.63	8.88
Bhojpur	Barhara	Ekauna	7.95	932	605.8	0	77.9	295.2	0	70.54	101	0	215.00	62	14.58	22.57	2.46
Bhojpur	Barhara	Farhada	8.25	497	323.1	0.17	5.16	301.35	0	18.67	2.3	0	375.00	78	43.74	58.13	7.83
Bhojpur	Koilwar	Gidha	8.37	653	424.5	0.17	17.2	381.3	3	14.75	4.47	0	400.00	80	48.6	38.64	7.86
Bhojpur	Sahar	Guljarpur	8.15	572	371.8	0.52	12.7	313.65	0	11.58	0	0	245.00	64	20.65	7.32	4.41
Bhojpur	Udwananagar	Harnathkundi	7.9	975	633.8	0	90.2	430.5	0	56.57	0	0	240.00	60	21.87	18.75	3.39
Bhojpur	Koilwar	Inglishpur	8.19	528	343.2	0	18.9	307.5	0	11.55	0	0	195.00	56	0.13	24.64	2.85
Bhojpur	Barhara	Jagatpur	8.07	576	374.4	0.3	5.08	356.7	0	15.91	0	0	225.00	60	18.22	9.8	4.99
Bhojpur	Ara Sadar	Jrawarpur Milki	8.19	619	402.4	0.15	8.07	344.4	0	46.94	0	0	250.00	50	30.37	18.85	1.25
Bhojpur	Shahpur	Karnemipur	7.68	1438	934.7	0.22	223	190.65	0	125.32	84.7	0	220.00	50	23.08	39.88	2.12
Bhojpur	Udwananagar	Kasap	7.96	1301	845.7	0.6	140	418.2	0	162.16	14.1	0	215.00	44	25.51	25.36	1.49
Bhojpur	Sandes	Koeri	8.08	555	360.8	0.46	19.4	307.5	0	12.91	12	0	275.00	60	30.37	103.46	3.05
Bhojpur	Koilwar	Lodhipur	8.07	754	490.1	0.24	42.3	350.55	0	45.24	29.3	0	340.00	64	43.74	89.15	6.07
Bhojpur	Barhara	Milki	8.17	584	379.6	0.49	6.82	356.7	0	14.6	0	0	260.00	58	27.94	28.55	2.89
Bhojpur	Koilwar	Mohammadpur	8.06	695	451.8	0.09	51.4	252.15	0	48.21	47.3	0	270.00	48	36.45	25.73	50.22
Bhojpur	Koilwar	Mokhalisa	8.27	442	287.3	0.18	7.89	221.4	0	28.08	21.8	0	405.00	82	48.6	145.35	9.06
Bhojpur	Sandes	Nasratpur	8.02	677	440.1	0.37	36.4	289.05	0	45.43	41.6	0	510.00	62	86.26	74.21	1.94
Bhojpur	Koilwar	Panchrukha	8.03	1274	828.1	0.12	137	372.1	0	76.55	111	0	275.00	50	36.45	56.69	1.46
Bhojpur	Agiaon	Pauna	8.12	1076	699.4	0.6	94.1	516.6	0	24.72	0	0	305.00	72	30.37	41.43	2.04
Bhojpur	Koilwar	Rajapur Bazar	8.18	422	274.3	0	7.1	239.85	0	16.19	0	0	290.00	60	34.02	36.95	1.58
Bhojpur	Sandes	Sandesh	7.86	1663	1081	0.2	255	319.8	0	171.52	151	0	665.00	112	93.55	105.46	14.65
Bhojpur	Udwananagar	Sasaramkundi	7.93	1001	650.7	0.18	91.9	252.15	0	70.21	102	0	220.00	52	21.87	32.34	1.44
Bhojpur	Koilwar	Sikaddi	8.41	1473	957.5	0.11	121	584.25	6	84.01	81.3	0	340.00	50	58.32	105.46	1.07
Bhojpur	Barhara	Simaria	8.09	565	367.3	0.16	6.84	350.55	0	14.66	0	0	165.00	56	6.075	69.13	1.68
Bhojpur	Koilwar	Songhatta	8.23	488	317.2	0.33	4.87	295.2	0	17.13	0	0	300.00	68	31.59	7.51	1.25
Bhojpur	Udwananagar	Udwananagar	8.13	723	470	0.36	10.2	405.9	0	13.11	0	0	260.00	52	31.59	28.53	0.85
Buxar	Barhampur	Bagen Bazar	7.98	614	399.1	0.462	10.1	325.95	0	23.11	3.5	0	275.00	50	36.45	28.5	1.81
Buxar	Simri	Barka Raipur	8.05	484	314.6	0	3.1	289.05	0	18.98	1.27	0	230.00	52	24.3	54.63	2.2
Buxar	Brahmpur	Brahmpur	7.75	678	440.7	0.31	43.7	338.25	0	18.18	18.5	0	230.00	18	44.95	10	3.56
Buxar	Chausa	Chausa	7.82	1022	664.3	0	112	381.3	0	86.36	7.11	0	390.00	44	68.04	75.08	3.82
Buxar	Buxar	Churamanpur	7.98	625	406.25	0.743	7.99	369	0	14.14	14.6	0	215.00	24	37.66	57.09	1.85
Buxar	Buxar	Danikutia	8	394	256.1	0.793	9.74	264.45	0	16.74	1.07	0	210.00	30	32.8	16.68	0.64
Buxar	Buxar	Dudharchak	7.93	530	344.5	0	3.22	307.5	0	19.37	0.72	0	235.00	26	41.31	23.14	2.64
Buxar	Dumraon	Dumraon	8.24	792	514.8	0.71	39.4	424.35	0	15.17	4.05	0	305.00	50	43.74	70.42	1.47

Buxar	Simri	Dumri	7.96	623	404.95	0	25.2	264.45	0	75.96	23.8	0	285.00	42	43.74	19.53	3.17
Buxar	Barhampur	Hathilpur	7.92	528	343.2	0.14	5.54	295.2	0	7.72	39.4	0	225.00	38	31.59	14.07	6.13
Buxar	Barhampur	Jugia Dera	7.88	499	324.35	0.4	5.83	295.2	0	2.42	1.93	0	220.00	28	36.45	24.94	1.18
Buxar	Simri	Karathar	8	510	331.5	0.18	9.59	289.05	0	20.83	2.56	0	160.00	24	24.3	53.67	4.55
Buxar	Barhampur	Khochariwan	8.12	647	420.55	0.708	5.9	393.6	0	4.39	7.98	0	300.00	32	53.46	25.85	1.18
Buxar	Buxar	Kritpur	7.94	1945	1264.3	0.742	259	578.1	0	77.65	161	0	519.00	42	100.84	139.65	133.32
Buxar	Simri	Manikpur	7.85	630	409.5	0.17	4.62	405.9	0	5.59	3.18	0	320.00	30	59.53	4.41	4.34
Buxar	Barhampur	Mharajgunj	8	569	369.85	0.349	7.08	356.7	0	4.8	5.53	0	260.00	30	44.95	24.16	1.92
Buxar	Buxar	Mishrvalia	7.78	1599	1039.4	0.75	273	473.55	0	70.4	26.6	0	779.00	46	161.59	47.66	2.08
Buxar	Simri	Neazipur	7.99	490	318.5	0.11	9.8	264.45	0	19.41	1.29	0	245.00	36	37.66	11	3.13
Buxar	Barriampur	Raghunathpur	7.98	545	354.25	0.53	6.29	307.5	0	3.98	3.37	0	252.00	26	45.52	20.66	1.03
Buxar	Rajpur	Rajpur	8.17	1210	786.5	1.19	161	442.8	0	52.02	6.25	0	360.00	16	77.76	140.79	0.81
Buxar	Buxar	Ramobariy	7.93	1295	841.75	0.897	113	485.85	0	60.23	63.9	0	325.00	28	61.96	93.46	148.05
Buxar	Buxar	Thodagaon	8.07	788	512.2	0.913	47.9	344.4	0	32.84	26.8	0	215.00	34	31.59	18.73	76.03
Buxar	Simri	Sohiar	8.05	640	416	0.221	23.8	356.7	0	1.65	3.14	0	309.00	30	71.68	29.42	0.99
Darbhanga	Baheri	Baheri	7.63	662	430.3	0.53	3.55	387.45	ND	12.31	BDL	BDL	280.00	40	43.74	39.61	0.44
Darbhanga	Baheri	Bithauli	7.24	1206	783.9	0.6	202.07	362.85	ND	58.75	4.32	BDL	490.00	64	80.19	48.56	0.61
Darbhanga	Darbhanga	Darbhanga	7.69	451	293.15	0.33	7.09	252.15	ND	10.24	1.4	BDL	160.00	28	21.87	41.22	BDL
Darbhanga	Baheri	Jorja	7.41	603	391.95	0.85	7.09	369	ND	13.38	BDL	BDL	220.00	38	30.37	53	BDL
Darbhanga	Keoty	Keoty	7.59	479	311.35	0.25	14.18	282.9	ND	10.4	BDL	BDL	130.00	34	10.93	47	8.91
Darbhanga	Hayaghat	Pouram	7.37	678	440.7	0.82	7.09	393.6	ND	11.13	0.83	BDL	265.00	40	40.09	51.43	BDL
Darbhanga	Sakri	Sakri	7.47	886	575.9	0.76	120.53	282.9	ND	46.71	2.95	BDL	430.00	62	66.82	27.62	BDL
Darbhanga	Simri	Simri ( bithauli )	7.1	637	414.05	0.32	10.64	350.55	ND	11.18	BDL	BDL	785.00	48	40.09	28	0.15
E Chammparan	Areraj	Areraj	7.67	459	298.35	0.26	2.86	276.75	0	2.19	1.94	0	210.00	36	29.16	18.92	1.96
E Chammparan	Motihari	Bariyari Bazar	7.57	632	410.8	0.13	8.22	369	0	4.74	1.22	0	330.00	52	48.6	7.56	2.66
E Chammparan	Chiraiya	Belai	7.88	1599	1039.35	0.84	286	387.45	0	75	30.4	0	485.00	64	78.97	119.6	25.53
E Chammparan	Ghorasahan	Bhakatiya Tola	7.7	637	414.05	0.78	3.56	369	0	5.02	1.77	0	255.00	42	36.45	41.5	0.55
E Chammparan	Paharpur	Bishunpur	7.67	813	528.45	0.39	58.5	381.3	0	19.63	3.5	0	380.00	60	55.86	15.37	13.08
E Chammparan	Chiraiya	Chairiya	7.074	507	329.55	0.34	7.09	276.75	0	5.06	1.27	0	230.00	36	34.02	19.08	6.77
E Chammparan	Chakia	Chakial	7.83	786	510.9	0.63	2.32	442.8	0	23.63	1.25	0	365.00	56	54.67	30.2	2.76
E Chammparan	Chiraiya	Chatiya	8.19	429	278.85	0.23	3.16	264.45	0	1.81	0.55	0.04	110.00	36	4.86	56.48	2.41
E Chammparan	Motihari	Chaudadanu	7.85	383	248.95	0.63	2.79	227.55	0	4.93	1.29	0	160.00	26	23.08	23.45	0.68
E Chammparan	Kalyanpur	Dharampur	7.97	571	371.15	0.29	7.09	313.65	0	18.73	1.11	0	295.00	50	41.31	6.48	5.84
E Chammparan	Kotwa	Dipau	7.94	360	234	0.17	5.06	190.65	0	15.76	1.5	0	185.00	48	15.79	4.69	3.28
E Chammparan	Sangrampur	Dubey Tola	7.68	838	544.7	0.22	46	412.05	0	58.51	1.65	0	270.00	48	36.45	66.51	5.92

E Chammparan	Areraj	Dumaria	7.59	1026	666.9	0.16	85.9	387.45	0	81.22	1.86	0	395.00	66	55.89	59.59	41.9
E Chammparan	Ghorasahan	Ghorshashan	8.32	1039	675.35	0.48	206	172.2	0	45.61	3.71	0.21	215.00	42	26.73	115.04	4.44
E Chammparan	Areraj	Govindganj	7.89	616	400.4	0.48	6.6	344.4	0	14.17	0.76	0	230.00	36	34.02	46.63	3.1
E Chammparan	Kesariya	Husaini	7.61	831	540.15	0.24	3.81	455.1	0	60.66	0.6	0	385.00	62	55.89	32.97	3.64
E Chammparan	Areraj	Khajuria Chowk	7.49	684	444.6	0.15	6.96	313.65	0	75.25	0.88	0	310.00	56	41.31	28.07	6.02
E Chammparan	Kesaria	Kizerpura	7.63	819	532.35	0.28	3.81	430.5	0	45.34	0.24	0	360.00	58	52.24	40.29	3.84
E Chammparan	Motihari	Lakhwara	8.18	513	333.45	0.74	2.45	319.8	0	8.29	1.03	0	205.00	36	27.94	34.08	1.45
E Chammparan	Kesaria	Lala Chapra	7.67	844	548.6	0.47	3.1	448.95	0	46.6	0.72	0	386.00	50	63.51	34.04	3.23
E Chammparan	Dhaka	Mohabbatpur	8.17	569	369.85	0.33	3.17	338.2	0	2.22	0.97	0	160.00	24	24.3	68.99	1.56
E Chammparan	Harshidih	Murarpur	8.3	432	280.8	0.22	6.81	246	0	9.16	1.67	0	190.00	56	12.15	5.9	5.82
E Chammparan	Turkaulia	Nawada	7.76	584	379.6	0.19	10.6	362.85	0	7.37	0.59	0	285.00	60	32.8	9.13	5.28
E Chammparan	Patahi	Patahi	7.7	499	324.35	0.16	19	239.85	0	5.08	1.63	0	195.00	40	23.08	19.99	2.65
E Chammparan	Areraj	Radia	7.78	475	308.75	0.43	2.69	305	0	3.04	1.06	0	215.00	26	36.4	19.91	4.25
E Chammparan	Ramghrwa	Raghunathpur	8.08	358	232.7	0.23	2.2	215.25	0	6.9	1.16	0	160.00	38	15.79	16.03	2.75
E Chammparan	Kalyanpur	Rajpur	8.33	915	594.75	0.39	134	332.1	6	37.39	2.81	0	280.00	44	41.31	64.68	56.3
E Chammparan	Kesaria	Rampur	7.65	624	405.6	0.25	6.88	362.85	0	31.74	0.89	0	260.00	34	42.52	26.27	5.11
E Chammparan	Raxaul	Raxaul	7.98	351	228.15	0.3	2.84	221.4	0	7.28	1.24	0	135.00	44	6.075	19.71	1.82
E Chammparan	Harshidih	Sheoraha	7.83	392	254.8	0.17	8.08	227.55	0	15.33	1.11	0.04	185.00	46	17.01	6.34	3.91
E Chammparan	Sugauli	Sugauli Bazar	8.1	426	276.9	0.36	2.9	270.6	0	7.49	0.75	0	110.00	28	9.72	47.74	2.87
Gaya	Amas	Akauna	7.98	776	504.4	1.04	88.9	282.9	0	52.9	16.6	0	270.00	50	35.23	62.73	1.39
Gaya	Banke Bazar	Banke bazar	8.16	719	467.4	0.4	144	135.3	0	57.09	11.6	0	230.00	68	14.58	64.52	0.59
Gaya	Imamganj	Baseta	7.98	1156	751.4	0.71	191	233.7	0	83.27	70.8	0	485.00	90	63.18	65.48	5.23
Gaya	Barachatti	Bhadeya	7.96	1821	1184	0.52	314	338.25	0	91.3	89	0	350.00	50	54.67	105.46	2.17
Gaya	Bodh Gaya	Bodhgaya	8.25	767	498.6	0.42	65.9	282.9	0	50.72	31.7	0	230.00	60	19.44	66.82	15.6
Gaya	Gaya Sadar	Chakand	8.09	724	470.6	0.3	41.5	356.7	0	19.38	22	0	240.00	44	31.59	66.31	0.74
Gaya	Gaya Sadar	Chand Chaura Chowk	7.82	1236	803.4	3.78	193	258.3	0	106.8	99.8	0	260.00	64	24.3	68.3	2.71
Gaya	Barachatti	DangraMore	8.11	751	488.2	0.61	48.6	381.3	0	18.24	6.47	0	435.00	80	57.1	237.42	5.02
Gaya	Dobhi	Dobhi	8.08	770	500.5	0.68	56.6	338.25	0	49.63	13.8	0	560.00	120	63.18	84.28	1.31
Gaya	Fatehpur	Fatehpur	8.15	476	309.4	0.71	29.2	239.85	0	14.7	11.1	0	990.00	110	173.74	278	87
Gaya	Guraru	Raghunath Khap	7.99	1106	718.9	0.71	145	362.85	0	67.93	104	0	425.00	96	44.95	104.38	30.78
Gaya	Guraru	Guraru	7.92	1363	886	0.62	250	301.35	0	96.27	16	0	335.00	80	32.8	84.66	1.48
Gaya	Konch	Konch	7.98	3748	2436	0.64	572	547.35	0	314.4	165	0	205.00	28	32.8	69.15	4.75
Gaya	Dumariya	Mangra	8.09	1130	734.5	0.71	159	369	0	72.99	17.3	0	185.00	44	18.22	30.32	0.57
Gaya	Manpur	Manpur	7.99	1077	700.1	0.34	135	381.3	0	52.09	48.4	0	705.00	116	100.84	195.46	25.25
Gaya	Belaganj	Paliganj	8.2	638	414.7	0.65	35.4	325.95	0	16.36	16.5	0	340.00	68	41.31	98.15	7.96

Gaya	Gaya Sadar	Ramkund	8.23	378	245.7	0.44	23.2	172.2	0	14.85	6.57	0	330.00	86	27.94	146.43	0.87
Gaya	Gaya Sadar	Sangat Gali	8.19	942	612.3	0.91	108	153.75	0	77.36	183	0	335.00	72	37.66	24.88	9.63
Gaya	Tekari	Tekari	8.33	1266	822.9	0.41	119	436.65	3	81.92	105	0	230.00	50	25.51	47.43	1.49
Gaya	Wazirganj	Wajirganj	7.97	2550	1658	0.47	504	362.85	0	201.76	55	0	155.00	40	13.36	23.61	2.49
Gopalganj	Manjwa	Banghra	7.14	768.00	0	0	35.00	244.00	0	79.00	3.60	0	300.00	66.00	32.4	34.60	4.60
Gopalganj	Manja	Bangra	7.19	783.00	0	0	67.00	317.00	0	23.00	11.30	0	295.00	70.00	28.8	29.60	3.60
Gopalganj	Barauli	Barauli	7.13	512.00	0	0	32.00	226.00	0	6.00	14.60	0	140.00	20.00	21.6	44.40	4.10
Gopalganj	Manja	Bhisambharpur	7.27	450.00	0	0	46.00	245.00	0	5.00	19.60	0	175.00	40.00	18	49.60	5.80
Gopalganj	Sidhwalia	Bhojpura	7.33	546.00	0	0	113.00	494.00	0	50.00	8.60	0	560.00	170.00	32.4	36.90	0.70
Gopalganj	Bhore	Bhore	7.06	1267.00	0	0.06	35.00	130.00	0	38.00	9.40	0	160.00	30.00	20.4	34.70	6.90
Gopalganj	Gopaklganj	Chanwabe	7.23	537.00	0	0	39.00	250.00	0	27.00	13.60	0	260.00	58.00	27-.6	24.60	1.60
Gopalganj	Hathua	Hathua	7.56	562.00	0	0.04	35.00	244.00	0	23.00	10.10	0	215.00	40.00	27.6	19.60	0.90
Gopalganj	Kuchaikot	Jalalpur	7.1	700.00	0	0	35.00	316.00	0	30.00	11.70	0	275.00	58.00	31.2	33.50	3.30
Gopalganj	Katiya	Jamunaha	7.07	706.00	0	0	46.00	305.00	0	46.00	33.50	0	335.00	70.00	38.4	50.50	1.50
Gopalganj	Katiya	Katiya	7.5	579.00	0	0.03	32.00	183.00	0	60.00	35.60	0.01	220.00	38.00	30	47.10	5.70
Gopalganj	Kuchaikot	Kuchaikot	7.18	765.00	0	0	35.00	305.00	0	46.00	39.60	0	155.00	10.00	31.2	26.50	1.90
Gopalganj	Thawe	Lachwar	7.39	510.00	0	0.3	35.00	189.00	0	41.00	21.30	0	195.00	20.00	34.8	14.90	2.20
Gopalganj	Katiya	Lalapanchmawa	7.12	506.00	0	0	21.00	183.00	0	52.00	25.60	0	200.00	42.00	22.8	13.50	2.90
Gopalganj	Mnjhwa	Mnjhwa	7.53	660.00	0	0	35.00	189.00	0	34.00	2.30	0	180.00	44.00	16.8	52.30	8.40
Gopalganj	Bhore	Misrbatraha	7.54	1117.00	0	0	78.00	494.00	0	27.00	16.30	0	470.00	122.00	39.6	29.40	7.90
Gopalganj	Manjha	Munachapra	7.19	485.00	0	1	39.00	366.00	0	21.00	20.30	0	350.00	80.00	36	33.70	4.90
Gopalganj	Barauli	Rampur	7	1154.00	0	0	35.00	244.00	0	17.00	19.60	0.03	200.00	56.00	14.4	17.40	5.60
Gopalganj	Gopalganj	Turkaha	7.16	805.00	0	0	35.00	198.00	0	20.00	20.30	0	205.00	60.00	13.2	23.70	11.60
Gopalganj	Gopalganj	Yadavpur	7.13	542.00	0	0.00	53.00	305	0.00	20.00	25.9	0.00	275.00	66	26.40	63.50	19.90
Jamui	Jamui	Aghara	7.95	500.00	325	0.33	35.45	301.35	0.00	31.57	9.02	0.00	214.82	30	34.02	55.00	2.71
Jamui	Jhajha	Ambedkar nagar	7.66	502.00	326.3	0.17	46.08	159.9	0.00	41.00	22.68	0.00	199.94	60	12.15	22.45	2.95
Jamui	Sono	Batia	7.22	476.00	309.4	0.71	42.54	202.95	0.00	23.29	11.17	0.00	154.89	26	21.87	44.64	1.93
Jamui	Chakai	Chakai	7.40	881.00	572.65	0.33	145.34	116.85	0.00	81.52	19.36	0.00	264.78	44	37.66	67.32	5.10
Jamui	Chakai	Chandra mandih	8.28	800.00	520	1.36	145.00	178.35	0.00	51.30	15	0.00	249.78	32	41.31	60.28	2.21
Jamui	Gidhour	Gidhour	7.38	443.00	287.95	0.65	38.99	147.6	0.00	26.34	25.87	0.00	134.88	24	18.22	31.88	1.77
Jamui	Jamui	jamui	7.63	581.00	377.65	0.24	63.81	166.05	0.00	41.99	2.11	0.00	184.80	16	35.23	48.00	2.62
Jamui	Jhajha	Jhajha	7.24	616.00	400.4	1.02	49.63	215.25	0.00	58.21	16.3	0.00	169.87	28	24.30	72.29	1.97
Jamui	Jhajha	Jhajha	7.15	497.00	323.05	0.89	21.27	166.05	0.00	51.08	5.63	0.00	134.87	20	20.65	47.40	1.96
Jamui	Laksmipur	Laksmipur	7.55	624.00	405.6	0.00	116.98	135.3	0.00	28.16	24.41	0.00	134.85	12	25.51	72.70	1.28
Jamui	Barhat	Lalmatia	8.18	369.00	239.85	0.93	3.54	190.665	0.00	24.05	11.83	0.00	99.94	20	12.15	38.65	1.32

Jamui	Jamui	Manjhwe	8.41	598.00	388.7	3.05	31.90	282.9	12.00	27.65	5.76	0.00	149.86	16	26.73	78.20	1.18
Jamui	Khaira	Purna Khaira	7.89	437.00	284.05	0.66	42.54	166.05	0.00	33.20	0	0.07	74.97	28	1.21	65.36	2.11
Jamui	Laksmipur	sandipi	7.36	533.00	346.45	0.91	31.90	209.1	0.00	34.02	19.61	0.01	151.22	16	27.06	64.22	3.14
Jamui	Sikandra	Sikandra	7.76	1908.00	1240.2	0.67	226.88	516.6	0.00	126.38	27.83	0.00	409.54	20	87.48	85.07	278.44
Jamui	Sono	Sono	8.26	645.00	419.25	0.58	21.27	350.55	0.00	28.09	8.35	0.02	154.85	20	25.51	77.63	0.94
Jamui	Chakai	Tarakhar	8.14	466.00	302.9	0.80	35.45	172.2	0.00	34.53	23.49	0.00	159.90	32	19.44	41.37	1.99
Jehanabad	Makhdumpur	Alua Bigha	8.24	1960	734.5	1.9	177	799.5	0	71.41	2.33	0	530.00	90	74.11	169	1.78
Jehanabad	Jehanabad	Gaurakshini	8.12	573	470.6	0.288	15.8	289.05	0	17.44	3.41	0	240.00	56	24.3	29	2.3
Jehanabad	Ghosi	Bholapur	8.13	521	488.15	0.82	28.4	202.95	0	28.24	22	0	185.00	30	26.73	41.46	1.63
Jehanabad	Ghosi	Ghoshi	8.08	566	620.75	0.312	16.9	289.05	0	7.45	6.58	0.04	240.00	64	19.44	17.23	2.24
Jehanabad	Hulasganj	Hulasganj	8.11	451	617.5	0.784	17	202.95	0	18.34	15.97	0	130.00	24	17.01	52.55	1.55
Jehanabad	Jehanabad	Jehanabad	8.12	733	624	0.543	28.4	350.55	0	24.77	3.3	0	230.00	46	27.945	68.96	2.02
Arwal	Ratni Faridpur	Jhunathi	7.74	563	927.55	0.302	20.4	282.9	0	11.46	3.82	0	185.00	42	19.44	54.01	1.56
Jehanabad	Kako	Kako	8.23	2180	1555.5	0.156	232	750.3	0	66.73	91.4	4.34	360.00	68	46.17	175.55	280.5
Jehanabad	Ghosi	Lakhwar	7.81	800	1046.5	0.657	68.3	276.75	0	38.92	37.1	0	235.00	50	26.73	77.37	1.8
Jehanabad	Makhdumpur	Makhdumpur	7.56	1593	2272.4	0.234	212	369	0	65.85	188	0	530.00	124	53.46	98.51	5.11
Jehanabad	Jehanabad	TeniBigha	7.73	1326	710.45	0.619	204	418.2	0	58.25	20.1	0	400.00	66	57.1	107.9	7.81
Kaimur	Ramgarh	Bandipur	7.66	732	475.8	0.482	63	270.6	0	46.74	4.13	0	220.00	24	38.88	71.61	3.1
Kaimur	Ramgarh	Bevnaliya (Devnhafiya)	7.7	755	490.75	0.62	30.4	461.25	0	15.16	5.35	0	320.00	34	57.1	48.7	1.9
Kaimur	Bhabhua	Bhabhua	7.79	749	486.85	0.537	65.7	350.55	0	18.12	15.6	0	260.00	30	44.95	66.97	1.05
Kaimur	Chainpur	Chainpur	8.47	1739	1130.4	0.586	291	356.7	18	173.96	89.1	0	754.00	64	144.58	79.32	1.85
Kaimur	Chand	Chand	7.83	1592	1034.8	0.612	195	504.3	0	170.68	52.2	0	489.00	38	95.98	160.88	2.03
Kaimur	Chand	Karmnasa	8.37	750	487.5	0.516	9.8	424.35	9	23.91	9.22	0	265.00	22	51.03	65.33	1.56
Kaimur	Chainpur	Khariava	8.23	591	384.15	0.915	10.1	344.4	0	19.75	8.06	0	245.00	26	43.74	37.67	0.83
Kaimur	Mohania	Mohania N.W.	7.84	994	646.1	0.332	101	356.7	0	17.09	15.07	0	295.00	40	47.38	96.1	9.52
Kaimur	Nuwan	Nuawan	8.19	632	410.8	0.509	20	387.45	0	25.12	18.6	0	305.00	60	37.66	29.83	5.26
Kaimur	Bhagwanpur	Saraiya	7.92	537	349.05	0.351	6.29	369	0	11.46	3.46	0	300.00	38	49.81	12.82	2.82
Kaimur	Bhagwanpur	Tori forest check post (Bhagwanpur)	7.86	1663	1081	0.94	233	559.65	0	71.61	75.2	0	589.00	40	119.07	140.79	0.5
Katihar	Barari	Barari	8.17	570	370.5	0	31.9	190.65	0	41.06	18.95	0	180.00	24	29.16	35.67	2.81
Katihar	Pranpur	Basantpur	8.26	535	347.75	0.11	61.5	172.2	0	17.31	19.44	0	205.00	62	12.15	39.83	6.83
Katihar	Pranpur	Bastaul	7.6	574	373.1	0.02	70.92	184.5	0	38.71	11.78	0	185.00	24	30.37	43.27	1.98
Katihar	Katihar	Hafila	7.92	432	280.8	0.22	38.99	129.15	0	45.39	25.32	0	169.00	38	18	31.3	8.36
Katihar	Katihar	Katihar	8.14	850	552.5	0.69	95.742	311.1	0	5.36	29.78	0	272.00	28	49.2	56.93	8.64
Katihar	Korha	Khiria	7.45	925	601.25	0.14	120.53	311.66	0	14.32	43.84	0	70.00	18	6	194	15.34



Katihar	Korha	Korha	7.76	1143	742.95	0	88.62	473.55	0	12.24	15.43	0	405.00	64	59.53	61.98	7.21
Katihar	Falka	Mahendrapur	8.13	911	592.15	0.81	120.53	325.95	0	16.26	9.32	0	300.00	44	46.17	67.24	12.54
Katihar	Falka	Narhaiya	7.23	334	217.1	0.03	35.45	123	0	7.95	29.45	0	90.00	14	13.36	39.23	2.03
Katihar	Pranpur	Pranpur	7.66	1148	746.2	0	104.55	430.5	0	10.25	41.94	0.03	427.00	74	58.8	38.67	7.18
Katihar	Korha	Routara	7.82	349	226.85	0.61	21.27	141.45	0	23.05	0.07	0	115.00	24	13.36	30.06	3.22
Khagaria	Mansi	Basantpur	8.06	439	285.35	0.15	9.82	258.3	0	10.24	0	0	175.00	28	25.51	18.54	0.66
Khagaria	Chautham	Chautham	8.23	780	507	0.477	35.45	313.65	0	57.82	0.35	0	125.00	32	10.93	138.05	0.45
Khagaria	Khagaria	Durgapur	7.96	1066	692.9	0.251	86.4	295.2	0	91.56	95.4	0	265.00	56	30.37	78.24	43.1
Khagaria	Khagaria	Gangaur	7.99	1028	668.2	0.932	99.26	375.15	0	60.76	4.95	0	290.00	52	38.88	77.35	10.7
Khagaria	Khagaria	Ismailpur	8.11	475	308.75	0.336	25.8	270.6	0	0.21	0.54	0	175.00	54	9.84	28	0.43
Khagaria	Gogri	Jamalpur	8.12	653	424.45	0.257	22	375.15	0	0.21	11.1	0	210.00	48	21.87	41.56	0.1
Khagaria	Khagaria	Kahgaria	8.03	562	365.3	0.21	3.05	258.3	0	56.71	0	0	200.00	58	13.36	30.43	0.68
Khagaria	Khagaria	Kasimpur	8.02	428	278.2	0.241	10.3	270.6	0	0.23	0	0	195.00	42	21.87	18.03	1.01
Khagaria	Khagaria	Labhgaon	8.03	680	442	0.278	50.5	313.65	0	43.99	0	0	235.00	54	24.3	51.28	0.56
Khagaria	Parbatta	Mohaddipur	8.01	659	428.35	0.201	35.45	295.2	0	39	1.2	0	175.00	38	19.44	57.09	3.68
Khagaria	Beldaur	Piransara	8.17	418	271.7	0.241	12.8	221.4	0	16.74	1.3	0	185.00	38	21.87	19.81	1.22
Khagaria	Khagaria	Rasaunk	7.24	437	284.05	0.339	3.05	270.6	0	14	0.77	0	182.00	40	19.94	22.29	0.42
Khagaria	Khagaria	Sabalpur	7.11	856	556.4	0.183	94	282.9	0	85.39	9.16	0	240.00	48	29.16	77.25	2.09
Khagaria	Khagaria	Sonhauri	7.13	1492	969.8	0	198	344.4	0	89.05	69	0	360.00	52	55.89	146.45	0.65
Kishanganj	Bahadurganj	Bhadurganj	7.19	414	269.1	0.02	35.54	116.85	0	24	19.05	0	130.00	30	13.36	27.81	4.98
Kishanganj	Bahadurganj	Bahadurganj	8.13	540	351	0	81.53	131.16	0	21.66	21.14	0	145.00	22	21.87	61.25	3.27
Kishanganj	Bahadurganj	Gunsagar	8.41	231	150.15	0.34	17.73	59.78	9	31.45	9.36	0	60.00	8	9.72	25.61	7.34
Kishanganj	Thakurganj	Thakurganj	7.91	1017	661.05	0.22	124.07	215.25	0	29.65	24.39	0	260.00	28	46.17	70.32	22.3
Kishanganj	Kochadhamin	Kochadhamin	7.28	313	203.45	0	28.36	110.7	0	12.04	7.98	0	65.00	18	4.86	29.67	5.32
Kishanganj	Kisanganj	Kisanganj	8.03	151	98.15	0.07	14.18	46.08	0	23.18	4.07	0	35.00	12	1.21	18.03	1.21
Kishanganj	Bahadurganj	Bhagalbari	8.77	377	245.05	0.13	21.27	49.2	18	31.34	11	0	100.00	32	4.86	25.67	4.02
Kishanganj	teragachi	Teragachi	7.84	470	305.5	0.04	28.36	190.65	0	21	11.63	0	140.00	34	13.36	33.8	7.68
Lakhisarai	Surajgarha	Arma	7.14	2469	1604.85	0.79	209.1	651.9	0	125	37.64	0	539.53	74	86.26	232.6	3.5
Lakhisarai	Barhaiya	Barhaiya	7.51	593	385.45	0.32	27.7	307.5	0	35.81	0.03	0	149.87	20	24.3	71	0.68
Lakhisarai	Barhaiya	Barhaiya	7.66	697	453.05	0.38	27.7	338.25	0	21.5	17.01	0	209.82	28	34.02	79.23	0.79
Lakhisarai	Lakhisarai	Lakhisarai	7.32	378	245.7	0.08	31.9	135.3	0	30.02	11.36	0	134.91	26	17.01	21	0.8
Lakhisarai	Surajgarha	saidpura	7.08	1574	1023.1	0.51	181.07	319.8	0	113.65	31.25	0	569.63	112	70.47	73.73	0.77
Lakhisarai	Surajgarha	Surajgarha	7.21	1242	807.3	0.18	128	461.25	0	115.24	11	0	364.67	48	59.53	116.36	3.9
Madepura	Chausa	Abhiyatola	7.74	578	375.7	0	35.45	264.45	0	38.87	9.08	0	200.00	44	21.87	35.6	8.1
Madepura	Murliganj	Gaushala Chowk	8.09	395	256.75	0.24	20.4	190.65	0	25.4	0	0	145.00	24	20.65	21.17	1.62

Madepura	Biharianj	Barhari	7.38	555	360.75	0	17.2	313.65	0	22.5	1.1	0	210.00	46	23.08	26.68	2.87
Madepura	Madepura	Bhimpur	8.07	583	378.95	0	38.2	276.75	0	33.61	6.18	0.02	235.00	50	26.73	24.27	3.97
Madepura	Chausa	Chausa	7.93	619	402.35	0.14	9.91	350.55	0	29.6	9.47	0	230.00	34	35.235	39.4	0.49
Madepura	Chausa	Ganreshpur	8.18	417	271.05	0.51	22.4	215.25	0	20.29	0	0	150.00	26	20.65	28.12	1.12
Madepura	Alamnagar	Gwalpara	7.74	530	344.5	0.05	15.8	295.2	0	27.01	0	0	185.00	38	21.87	36.9	0.62
Madepura	Signeshwar	Jiwacchapur	8.28	373	242.45	0	9.91	166.05	0	41.36	12.5	0	110.00	26	10.935	26.54	14.98
Madepura	Murliganj	Hathkhora Bazar	8.15	627	407.55	0	49.63	295.2	0	19.01	9.22	0	110.00	18	15.795	91.18	0.6
Madepura	Madepura	Madepura	8.11	981	637.65	0	113	276.75	0	65.72	40.7	0	215.00	42	26.73	105.1	14.52
Madepura	Murliganj	Murliganj	8.39	1166	757.9	0	92.6	541.2	12	44.51	3.11	0	320.00	70	35.23	121.39	3.39
Madepura		Rajui	7.78	224	145.6	0.2	1.05	135.3	0	8.97	0	0	85.00	24	6.075	13.76	0.08
Madepura	Murliganj	Rampur	7.8	497	323.05	0	4.82	289.05	0	25.86	0	0	195.00	44	20.65	24.27	1.11
Madepura	Signeshwar	Singeshwar	8.12	556	361.4	0	27.7	270.6	0	12.67	5.08	0.01	219.00	48	24	38.15	3.53
Madepura	Madepura	Surajganj	8.13	232	150.8	0.41	1.05	123	0	21.38	0	0	105.00	22	12.15	6.34	0.24
Madepura	Chusa	Uda Kisangarnr	7.98	753	489.45	0.6	139	178.35	0	49.59	14	0	115.00	22	14.58	117.18	9.8
Madhubani	Laukaha	Ambedkar Nagar	6.82	1385	1030.23	0.33	301	430.5	ND	55.7	33.2	0.23	335.00	58	52.21	174.49	44.2
Madhubani	Pandaul	Pandaul	7.12	471	306.15	0.29	5.6	289.05	ND	10.66	2.36	BDL	235.00	46	29.16	4.49	0.45
Madhubani	Babubarhi	Babubarhi	6.95	779	506.35	0.98	113	313.65	ND	10.03	BDL	BDL	255.00	40	37.65	64.24	BDL
Madhubani	Harlakhi	Baurahar chowk	7.03	465	302.25	0.43	13.9	246	ND	10.68	BDL	BDL	200.00	34	27.94	24.89	BDL
Madhubani	Benipatti	Benipatti	7.06	331	215.15	0.32	21.27	135.3	ND	14.28	BDL	BDL	130.00	32	12.15	15.74	BDL
Madhubani	Khajauli	Bentadih	7.12	788	512.2	0.63	77.3	369	ND	21.79	BDL	BDL	200.00	32	29.16	92.77	1.94
Madhubani	Pandaul	Bhawanipur	7.04	631	410.15	0.86	17.3	356.7	ND	11.95	BDL	BDL	125.00	26	14.58	78.58	3.84
Madhubani	Madhepur	Bihari	7.11	421	273.65	0.22	1.52	239.85	ND	11.36	BDL	BDL	180.00	52	12.15	23.63	0.37
Madhubani	Jhanjarpur	Bindeshwar astan	7.03	1250	812.5	0.23	147	375.11	ND	56.33	84.5	0.16	375.00	58	55.89	88.15	12.37
Madhubani	Benipatti	Dhakjari	7.07	445	289.25	0.2	1.15	258.3	ND	11.94	BDL	BDL	190.00	42	20.65	25.91	BDL
Madhubani	Harlakhi	Harlakhi	6.94	377	245.05	0.19	1.02	233.7	ND	11.16	BDL	BDL	125.00	20	18.29	28.65	BDL
Madhubani	Andhratharhi	Harri	7.1	556	361.4	0.28	13.2	295.2	ND	13.61	BDL	BDL	175.00	22	29.16	55.17	BDL
Madhubani	Jaynager	Jaynagar	7	513	333.45	0.98	1.17	313.65	ND	10.12	BDL	BDL	110.00	28	9.72	62.95	5.04
Madhubani	Jhanjarpur	Jhanjarpur	7.18	700	455	0.42	22.7	362.85	ND	20.45	BDL	BDL	230.00	50	25.51	71.15	0.21
Madhubani	Ladania	Jogiya	7.19	694	451.1	0.54	3.88	442.8	ND	14.4	6.04	BDL	200.00	40	24.3	68.35	2.1
Madhubani	Benipatti	Kapasia	7.27	337	219.05	0.74	1.32	159.9	ND	18.15	BDL	BDL	120.00	28	12.15	21.32	0
Madhubani	Phulparas	Kapileshwar	7.19	639	415.35	0.36	14	356.7	ND	15.24	BDL	BDL	160.00	36	17.01	59.77	8.96
Madhubani	Khajauli	Khajauli	7.24	921	598.65	0.4	74	442.8	ND	36.58	BDL	BDL	259.00	54	30.24	87.7	6.83
Madhubani	Madhubani	Madhubani	6.79	913	593.45	0.41	139	258.3	ND	31.9	BDL	BDL	280.00	38	44.95	64.78	BDL
Madhubani	Khajauli	Narar	7.38	1429	928.85	0.34	281	227.55	ND	85.32	6	BDL	300.00	42	47.38	144.21	39.55
Madhubani	Rajnagar	Pariharpur	7.01	566	367.9	0.96	4.44	356.7	ND	7.01	BDL	BDL	135.00	38	9.72	65.04	3.86

Madhubani	Phulparas	Phulparas	7.11	438	284.7	0.87	1.53	264.45	ND	11.17	0	BDL	155.00	42	12.15	24.76	3.28
Madhubani	Pandaul	Shambhuar	7.46	1564	1016.6	0	109	781.05	ND	57.17	12.2	BDL	425.00	84	52.24	87.81	90.16
Madhubani	Phulparas	Siswar	7.16	619	402.35	0.92	10.4	375.15	ND	10.55	BDL	BDL	95.00	22	9.72	95.41	2.33
Madhubani	Khajauli	Thantola ( khajauli )	7.34	557	362.05	0.38	2.8	356.7	ND	11.04	BDL	BDL	175.00	48	13.36	50.47	BDL
Munger	Asarganj	Asarganj	8.17	1630	1059.5	0.32	187.88	535.05	0	91.23	24.15	0	131.00	80	51.03	118	171
Munger	Dharahara	Bariarpur	7.65	1705	1108.25	0.47	230.42	405.9	0	114.39	21.05	0	133.00	42	91.12	134	2.1
Munger	H. Kharagpur	Gangta Morh	7.92	612	397.8	0.38	70.3	246	0	28.75	5.21	0	48.00	24	24.3	74.36	0.74
Munger	H. Kharagpur	Gobadda	8.23	888	577.2	0.79	67.35	461.25	0	34.66	2.18	0	105.00	28	76.54	43	0.81
Munger	H. Kharagpur	Haveli Kharagpur	8.26	443	287.95	0.09	20.5	233.7	0	22.57	0	0	48.00	26	21.87	32.67	1.9
Munger	Munger Sadar	Purabsarai Navtoli	7.6	771	501.15	0.11	74.44	196.8	0	74.92	21.85	0	74.00	36	37.66	56.38	2.31
Munger	Sangarampur	Rampur	7.69	382	248.3	0.08	35.45	159.9	0	27.36	1.3	0	28.00	16	12.15	44.37	2.02
Munger	Sangarampur	Sangrampur	8.22	370	240.5	0.47	14.18	135.3	0	36	0	0.11	35.00	20	14.58	33	1.25
Muzaffarpur	Aurai	Aurai	7.9	324	210.6	0.32	3.23	190.65	0	8.24	2.57	0	120.00	32	9.72	28.77	1.18
Muzaffarpur	Bochaha	Boccha	7.6	767	498.55	0.14	22.9	405.9	0	19.01	1.72	0.13	385.00	76	47.38	16.59	10.12
Muzaffarpur	Sahebganj	Daha Chapra	7.6	719	467.35	0.44	2.31	430.5	0	37.61	1.46	0	300.00	54	40.09	28.4	1.43
Muzaffarpur	Dholi	Dholi	7.6	663	430.95	0.23	4.5	399.75	0	19.44	4.64	0	320.00	46	49.81	32.15	3.35
Muzaffarpur	Dholi	Digra	7.6	677	440.05	0.38	3.84	479.7	0	8.67	0.83	0	380.00	44	65.61	22.77	1.27
Muzaffarpur	Minapur	Gargalia	7.6	511	332.15	0	3.41	295.2	0	5.03	0.235	0	250.00	52	29.16	7.97	6.85
Muzaffarpur	Motipur	Mahammadpur Balmi	7.64	672	436.8	0.25	5.48	325.95	0	28.08	1.33	0.6	282.00	38	45.52	19.44	4.33
Muzaffarpur	Mushari	Japaha	7.5	758	492.7	0.2	8.65	455.1	0	2.8	1.65	0	340.00	72	38.88	26.33	8.02
Muzaffarpur	Katra	Katra	7.5	1340	871	0.26	108	528.5	0	76.94	2.46	0.02	480.00	68	75.33	85.63	53.8
Muzaffarpur	Kurhani	Mahantmanihari	7.55	853	554.45	0.41	54	381.3	0	43.07	1.98	0	320.00	46	49.81	62.23	3.24
Muzaffarpur	Musahari	Musahari	7.52	690	448.5	0.16	15.7	405.5	0	5.05	2.94	0	315.00	58	41.3	17.21	5.71
Muzaffarpur	Sahebganj	Parwal Patti	7.59	753	489.45	0.45	20.3	393.6	0	24.49	1.4	0	335.00	36	59.53	35.09	2.51
E Champaran	Patahi	Patahi	7.69	756	491.4	0.28	5.53	492	0	3	1.02	0	335.00	48	52.24	36.69	3.7
Muzaffarpur	Aurai	Rajkhand	7.57	1464	951.6	0.94	238	479.7	0	55.85	7.45	0	410.00	64	60.75	115.37	106.6
Muzaffarpur	Sahebganj	Rajwara	7.64	719	467.35	0.28	2.94	387.45	0	33.25	1.29	0.03	335.00	54	48.6	26	3.18
Muzaffarpur	Katra	Ramnagar	7.7	577	375.05	0.3	3.63	338.25	0	5.93	1.45	0	250.00	40	36.45	27.6	3.44
Muzaffarpur	Bochaha	Safuddin Pur	7.66	662	430.3	0.17	10.5	381.3	0	6.41	3.09	0.33	315.00	46	48.6	17.58	5.66
Muzaffarpur	Sahebganj	Sahebganj	7.66	795	516.75	0.26	3.61	430.5	0	41.47	1.12	0	340.00	50	52.24	44.26	3.76
Muzaffarpur	Kurhani	Sakri Chatti	7.45	1253	814.45	0.215	140	430.5	0	67.49	89.6	0	430.00	76	58.35	90.78	14.79
Muzaffarpur	Sakra	Seho	8.09	898	583.7	0.54	2.88	522.75	0	28.44	0.97	0	392.00	58	60	47.95	1.34
Muzaffarpur	Bochaha	Shukra Hat	7.74	1062	690.3	0.14	71.6	485.85	0	34.66	2.55	0	430.00	48	75.33	59.38	22.26
Muzaffarpur	Kurhani	Turki	8.19	318	206.7	0.22	5.32	166.05	0	9.78	1.79	0	115.00	18	17.03	23.56	4.01
Nalanda	Neemchak	Ankuri Bazar	8.12	699	454.35	0.834	49.7	246	0	35	11.2	0	165.00	26	24.3	79	5.41

Nalanda	Asthwan	Asthwan	8.06	1355	880.75	0.32	109.89	528	0	29	2.76	0	410.00	100	38.88	110	5.83
Nalanda	Silao	Bhui	8.15	1570	1020.5	1.25	166	473.55	15	41	29.2	0	470.00	78	66.82	127	6.33
Nalanda	Biharsarif	Biharsharif	7.94	1555	1010.75	0.398	144	547.35	0	51	36.1	0	455.00	80	61.96	135	5
Nalanda	Biharsarif	Biharsharif Rly Stn	8.3	831	540.15	0.35	127.62	301.35	0	27	5.4	0	250.00	60	24.3	71	11.5
Nalanda	Chandil	Chandil	8.08	813	528.45	0.89	19.3	313.65	0	71	21.61	0	215.00	50	22	72	2
Nalanda	Noorsarai	Daudpur	8.77	766	497.9	0.18	40.9	344.4	24	17	23.29	0	295.00	62	34.02	53	1.07
Nalanda	Rahui	Doiya	8.52	2570	1670.5	0.22	297.78	768.65	15	221	12.5	0	535.00	72	86.26	360	2.37
Nalanda	Ekangarsarai	Ekangarsarai	7.77	1249	811.85	1.08	143	356.7	0	20	69	0	185.00	32	25.51	168	5.22
Nalanda	Giriak	Giriak	8.14	1831	1190.15	0.25	169	610	0	70	31.3	0	579.00	72	97.2	125	2.2
Nalanda	Harnaut	Harnaut	8.08	969	629.85	0.45	68.4	313.65	0	43	57	0.01	100.00	20	12.15	127	85.15
Nalanda	Noorsarai	Heganpura	8.02	1230	799.5	1.56	194	264.45	0	58	15.2	0	390.00	86	42.52	84	8.54
Nalanda	Hilsa	Hilsa	8.53	517	336.05	0.44	43.9	153.75	15	14	21	0	150.00	20	24.3	52	2.7
Nalanda	Islampur	Islampur	7.84	1816	1180.4	0.23	231	424.35	0	51	118.8	0	275.00	76	20.65	246	61
Nalanda	Asthwan	Jangipur	7.94	485	315.25	0.39	35.45	184.5	0	10	14.9	0	130.00	30	13.36	51	4.3
Nalanda	Hilsa	Karaipar sarai	8.15	970	630.5	0.07	72	295.2	0	66	3.78	0	215.00	50	21.87	103	1.36
Bhojpur	Shahpur	Karnempur	8.11	396	257.4	0.37	14.02	190.65	0	14	3.98	0	130.00	20	19.44	33	1.28
Nalanda	Silao	Kundalpur	8.22	889	577.85	0.91	54.7	264.45	0	71	15.5	0	225.00	52	23	82	4.71
Nalanda	Biharsarif	Moghra	8.14	729	473.85	0.59	42.54	319.8	0	47	12.2	0	265.00	66	24.3	53	5.75
Nalanda	Muraura	Muraura	8.28	1072	696.8	0.32	88.07	461.25	0	2	3.34	0	341.00	82	33	65	6.2
Nalanda	Nalanda	Nalanda	7.88	1082	703.3	0.31	80.1	467.4	0	64	30.8	0	410.00	78	52.24	47	49.06
Nalanda	Bari	Nirpur	8.24	2423	1574.95	1.23	294	615	0	240	113	0	490.00	96	60.75	348	5.29
Nalanda	Ekangarsarai	Nischalganj	8	951	618.15	0.67	106.35	264.45	0	66	5.12	0	219.00	48	24	105	10.57
Nalanda	Noorsarai	Papanhosa	8.12	924	600.6	1.28	87.7	264.45	0	73	6.96	0	222.00	64	15	93	16.03
Nalanda	Parwalpur	Parwalpur	8.54	1103	716.95	0.18	34.7	430.5	15	41	61	0	346.00	84	33	94	4.3
Nalanda	Parwalpur	Parwalpur	8.61	507	329.55	0.19	27.3	178.35	15	28	16.8	0	150.00	40	12.15	47	5.47
Nalanda	Giriak	Pawapuri	8.23	662	430.3	0.83	39.9	209.1	0	69	3.56	0	170.00	36	19.44	71	1.2
Nalanda	Rajgir	Pilkhi	8.17	591	384.15	0.63	116	147.6	0	30	6	0	125.00	24	15.79	83	2.36
Nalanda	Rajgir	Rajgir	8.63	1433	931.45	1.13	88.4	645.75	18	57	12.5	0	550.00	112	65.61	91	5.63
Nalanda	Biharsarif	Ranabigha	7.5	967	628.55	0.27	157	307.5	0	20	25.4	0.02	185.00	54	12.15	127	7.54
Nalanda	Asthwan	Sare	7.99	561	364.65	0.17	45.6	172.2	0	21	7.7	0	100.00	20	12.15	73	1.34
Nalanda	Islampur	Sherpur	8.06	338	219.7	0.51	15.2	172.2	0	6	3.4	0	100.00	18	13.36	39	0.22
Nalanda	Silao	Silao	8.16	3271	2126.15	1.03	448	873.3	0	287	47.8	0	600.00	128	68.04	521	55
Nalanda	Biharsarif	Sodh	7.82	960	624	0.21	169	301.35	0	6	47.3	0	210.00	56	17.01	131	6.6
Nalanda	Rahui	Vena	8.7	541	351.65	0.16	46.08	159.9	21	38	24.3	0	130.00	20	19.44	68.25	0.49
Nawada	Govindpur	Bishunpur	7.64	1138	739.7	0.21	113.44	504.3	0	21	2.39	0	400.00	56	63.18	88	15.32

Nawada	Rajauli	Dopata	8.29	628	408.2	0.6	77.99	221.4	0	11	4.45	0	213.00	26	36	40	4.3
Nawada	Nawada	garphar	7.91	441	286.65	0.28	42.54	147.6	0	14	54.6	0	130.00	32	12.15	50	0.58
Nawada	Nawada	Gunama	7.25	786	510.9	0.65	88.62	350.55	0	15	14.1	0	225.00	44	27.94	87	1.31
Nawada	hisua	hisua	8.04	318	206.7	0.19	27.3	147.6	0	5	5.62	0	95.00	36	1.21	30	0.87
Nawada	Kauakol	Kaukol Ashram	7.94	531	345.15	1.69	10.14	276.75	0	11	6.38	0	120.00	34	8.5	71	1.62
Nawada	Narhat	Khanewa	8.05	916	595.4	0.17	121	359.9	0	24	18.02	0	315.00	44	49.815	54	31
Nawada	Meskaur	Meskaur	7.99	590	383.5	1.03	17	189.1	0	24	29.7	0	170.00	26	25.51	29	9.03
Nawada	Nawada	Nawada	8.25	510	331.5	0.59	42.6	123	0	71	16.2	0	120.00	14	20.65	63.24	4
Nawada	Sirdala	Nawaganj	8.3	494	321.1	0.89	11.4	189.1	0	47	2.76	0	165.00	22	26.73	41.7	9
Nawada	Pakribarawan	Pakribarawan	7.92	409	265.85	0.29	14	190.65	0	24	23.6	0	119.00	28	12	41	1.31
Nawada	Pakribarawan	Roh	8.19	500	325	2.23	31.05	178.35	0	18	31	0	185.00	42	19.44	38	2.31
Nawada	Kauakol	Rupau	8.24	1571	1021.15	0.27	141.8	381.3	0	78	126	0	325.00	56	45	159	57.6
Nawada	Warshaliganj	Shahpur More	8.35	771	501.15	0.13	127.62	178.35	6	58	6.12	0	130.00	20	19.44	108	26.23
Nawada	Hisua	Tungi	8.06	468	304.2	0.42	31.05	116.85	0	37	15.7	0	100.00	20	12.15	58	1.03
Nawada	Pakribarawan	Warsaliganj	8.24	1123	729.95	0.78	72	476.75	0	65	49	0	350.00	20	72.9	112	29.3
Patna	Barh	Agwanpur	7.67	830	351	0.371	88.5	289.05	0	44.01	14.63	0	240.00	48	29.16	74.78	2.71
Patna	Bihta	Amraha	7.94	387	1016.6	0.276	10.3	215.25	0	7.19	3.4	0	190.00	38	23.08	7.47	1.09
Patna	Bakhtiyarpur	Bakhtiyarpur	7.48	965	1436.5	0	66.4	381.3	0	56.75	1.03	0	330.00	60	43.74	80.34	3.8
Patna	Paliganj	Balipakar	8.15	1517	213.85	0.216	181	399.75	0	57.3	147	6.12	370.00	90	35.235	99.38	168
Patna	Barh	Barh	7.84	836	575.9	0.429	53.5	362.85	0	25.76	18.08	0	260.00	46	35.235	88.28	3.67
Patna	Dulhin Bazar	Bharatpura	8.28	877	1688.7	1.18	16.9	553.3	0	18.69	2.71	0	215.00	28	35.235	117.52	1.05
Patna	Bikrama	Bikram	8.06	512	310.05	0.235	8.09	282.9	0	5.62	3.25	0	235.00	48	27.94	22.14	2.02
Patna	Bihta	Bishambharpur	8.1	533	319.15	0.531	14.6	264.45	0	11.1	12.92	0	265.00	50	34.02	8.29	1.72
Patna	Daniyawar	Daniyawar	8.67	297	193.05	0.62	10.7	110.7	21	15	3.44	0	100.00	28	7.29	19	2.15
Patna	Daniyawar	Daniyawar	7.83	563	816.4	0.502	1.16	301	0	8	15.55	0	155.00	30	19.44	63.66	1.63
Patna	Punpun	Deokali	7.79	472	568.1	0.202	22.2	202.95	0	18.29	12	0	170.00	36	19.44	35.48	1.97
Patna	Dulhin Bazar	Dulhinbazar	8.01	1246	351	0.334	50	664.2	0	28.29	4.23	0	345.00	66	43.74	124.41	2.75
Patna	Phulwari	Etwarpur	7.51	2230	682.5	0.365	378	319.8	0	85.86	276	0	884.00	166	114.21	86.46	4.58
Patna	Naubatpur	Faridpur	8.17	560	488.8	0.483	3.88	350.55	0	7.37	3.23	0	215.00	30	34.02	27.55	3.39
Patna	Patna Rural	Fatuha	8.11	605	393.25	0.41	35.5	252.15	0	17	41.7	0	125.00	24	15.79	67.32	6.45
Patna	Fatuha	Fatuha	7.67	952	1003	0.154	86.4	307.5	0	49.3	59.5	0	310.00	76	29.16	90	2.29
Patna	Danapur	Goptal Danapur	7.7	962	281.45	0.207	94.5	344	0	44.98	89.8	0	410.00	114	30.375	48.87	1.31
Patna	Maner	Gyaspur	7.8	1236	208	0.37	140	375.15	0	69.09	38.8	0	320.00	60	41.31	112.97	1.79
Patna	Phulwari	Hulas chawk	7.99	730	434.2	0	34.8	381.3	0	30.23	3.73	0	235.00	78	9.72	58.43	2.22
Arwal	Arwal	Imamganj	7.95	619	729.95	0.313	35.1	319.8	0	14.62	6.39	0	190.00	46	18.225	54.77	1.59

Patna	Bikrama	Jagdispur Tola	7.8	725	483.6	0.478	39.2	313.65	0	31.76	12.68	0	225.00	46	26.73	75.2	2.74
Patna	Danapur	Khaspur	7.83	831	734.5	0.207	64.3	301.35	0	47.29	24.23	0	285.00	56	35.235	71.5	2.56
Patna	Maner	Lalbegam	7.79	1050	891.15	0.432	106	325.5	0	64.79	26.3	0	310.00	52	43.74	102.3	1.92
Patna	Maner	Maner NW	7.96	668	377	0.517	75.6	196.8	0	51.09	4.62	0	315.00	74	31.59	14.55	1.64
Patna	Mokama	Maranchi	7.8	1230	273	0.312	63.4	424.35	0	87	33	0	495.00	76	74.11	52.37	2.82
Patna	Bikrama	Mariyawa	8.05	523	675.35	0.157	7	295.2	0	19	4.17	0	210.00	52	19.44	18	1.45
Patna	Mokama	Mokama	7.82	617	749.45	0.512	17.8	273.02	0	67.16	12.86	0	185.00	46	17.01	52.33	2.63
Patna	Maner	Nagwas	7.83	699	598	0.385	30.3	344.4	0	19.54	6.35	0	300.00	52	41.31	39.11	2.06
Patna	Dhanarua	Nima	7.9	423	233.35	0.181	9.1	221.4	0	7.26	4.18	0	185.00	46	17.01	14.16	2.62
Patna	Bikrama	Noniatola	7.67	1228	749.45	0.171	125	332.1	0	56.71	118	0	385.00	116	23.085	120	1.83
Patna	Phulwari	Parsa Bazar	8.02	506	364	0.401	31.8	246	0	12.6	3.12	0	210.00	38	27.945	27.55	3.2
Patna	Patna City	Patna City	8.16	478	749.45	0.296	5	264.45	0	17.51	13.52	0	190.00	44	19.44	17.85	1.71
Patna	Barh	Rajpura	7.73	769	1189.5	0.145	78.2	313.65	0	16.51	31.1	0	265.00	50	34.02	47.13	22.15
Patna	Barh	Sahari	7.95	772	507	0.33	37.9	381.3	0	27.03	4.15	0	250.00	54	27.945	70	4.09
Patna	Patna Rural	Gandhi Maidan	7.89	769	403	0.388	139	221.4	0	17	14.2	0	270.00	42	40.095	23.71	64.7
Patna	Naubatpur	Snehitola	7.99	613	1242.2	0.25	50.6	246	0	27.17	35.3	0	245.00	52	27.94	24.51	1.66
Purnia	Purnea	purnea	7.95	944	613.6	0.27	131.36	289.05	0	22.07	39.56	0	60.00	20	2.4	204	14.39
Purnia	PurneaE	Khatahat	7.86	233	151.45	0	7.09	98.4	0	19	5.11	0	60.00	20	2.43	21.9	8.68
Purnia	Dhamdaha	Kajha	7.73	808	525.2	0	102.8	282.9	0	14.68	7.98	0.11	290.00	40	46.17	54.78	4.17
Purnia	Dhamdaha	Dhamdaha	7.48	345	224.25	0.01	35.45	110.7	0	16.33	0.7	0.03	95.00	26	7.2	31.25	9.14
Purnia	Rupauli	Dargaha	7.95	311	202.15	0.26	17.72	116.85	0	18.01	7.64	0	90.00	22	8.5	26.07	8.21
Purnia	Rupauli	tikapatti	7.9	714	464.1	0.4	42.54	311.71	0	5.87	15.07	0	225.00	28	37.66	41.48	4.29
Purnia	Rupauli	Tikapatti Chowk	7.77	522	339.3	0	38.99	223.26	0	18.97	2.8	0.1	190.00	30	27.94	30.05	8.56
Purnia	Dhamdaha	Amri(East)	8.06	834	542.1	0.1	49.2	399.75	0	20.41	31.87	0	315.00	42	51.03	38.79	6.48
Purnia	Dhamdaha	Amri(West)	7.83	1543	1002.95	0.34	88.62	622.2	0	38.19	41.12	0	620.00	110	83.83	68.65	5.39
Purnia	Banmamkhi	Magurganj	8.12	771	501.15	0.21	56.736	319.8	0	5.45	34.97	0	287.00	28	52.8	26.94	2.89
Purnia	Banmamkhi	Banmamkhi	8.16	1236	803.4	0.14	134.71	461.25	0	7.32	38.14	0	70.00	22	3.64	240.24	21.7
Purnia	Banmamkhi	Budhiagola	8.02	507	329.55	0	28.66	215.25	0	16.05	8	0	175.00	26	26.73	24.83	4.21
Purnia	PurneaE	Ranipatra	7.9	233	151.45	0.17	7.09	104.55	0	19.08	5.8	0	55.00	20	1.2	27.3	10.58
Purnia	Kasba	Kasba	7.7	682	443.3	0.21	53.17	276.75	0	11.52	29.52	0	215.00	36	30.37	48.57	8.32
Purnia	Baisi	Chadia	7.1	1366	887.9	0.02	212.7	338.25	0	40.48	33.2	0	70.00	26	1.12	282.36	10.55
Purnia	Baisi	Bansabri	8.03	738	479.7	0.14	77.99	233.7	0	21.56	20.87	0	247.00	20	48	45.2	17.25
Purnia	amour	amour	8.16	265	172.25	0.38	23.08	73.8	0	55.02	2.63	0	70.00	18	6.15	26.35	8.24
Purnia	Baisi	Basi	7.98	1164	756.6	0	198.52	319.8	0	4	31.53	0	60.00	16	4.8	251	15.17
Purnia		Barsoni	8.11	439	285.35	0.03	35.45	190.65	0	2.86	6.67	0	125.00	14	21.87	32.54	2.96

Purnia	Jalalgarh	Jalalgarh	7.98	630	409.5	0.07	38.99	258.3	0	22	10.68	0	200.00	24	34.02	52.06	2
Rohtas	Rohtas	Akbarpur	8.18	481	312.65	0.344	10.5	282.9	0	10.58	7.09	0	225.00	50	24.3	10.35	1.35
Rohtas	Sasaram	Amawan	7.97	1699	1104.4	0.38	44.6	276.75	0	467.88	16.2	0	775.00	190	72.9	40.89	3.04
Rohtas	Karagahar	Amwalia	8.03	769	499.85	0.805	16.9	467.4	0	15.32	1.9	0	285.00	34	48.6	58.02	2.8
Rohtas	Dehri	Anikut (Anikat)	7.81	676	439.4	0.875	42.7	307.5	0	11.15	15.8	0	285.00	38	46.17	38.38	4
Rohtas	Karakat	Bahaura	8.11	938	609.7	0.383	76.3	424.35	0	28.26	8.63	0	405.00	60	61.96	46	11.63
Rohtas	Kargahar	Belthari	8.48	679	441.35	5.42	81	233.7	18	13.68	6.39	0	225.00	14	46.17	66.41	1.03
Rohtas	Bikramganj	Bikramganj	7.97	868	564.2	0.611	74.8	270.6	0	50.72	68.7	0	310.00	38	52.24	79.61	1.06
Rohtas	Chenari	Chenari	8.1	553	359.45	0.179	9.13	338.25	0	10.33	8.74	0	265.00	40	40.09	6.78	4.28
Rohtas	Dinara	Dinara	8.02	639	415.35	0.336	10.6	375.15	0	26.36	0	0	295.00	32	52.24	23.81	1.37
Rohtas	Kudra	Jahanabad (Kurda)	7.82	1042	677.3	0.255	128	301.35	0	93.48	56.9	0	365.00	46	60.75	83.13	1.1
Rohtas	Sasaram	Karbindia	8.07	477	310.05	1.27	6.58	270.6	0	11.83	7.38	0	260.00	40	38.88	0	0.74
Rohtas	Rohtas	Karma	7.99	660	429	0.155	70.1	147.6	0	31.95	73.8	0	300.00	46	44.95	17.44	1.03
Rohtas	Dinara	Kochas	7.9	718	466.7	1.2	7.31	418.2	0	20.23	4.82	0	255.00	30	43.74	61.95	1.03
Rohtas	Dawath	Maliabagh	8.14	677	440.05	0.462	27.7	375.15	0	22.18	2.93	0	290.00	54	37.66	27.56	2.32
Rohtas	Nasriganj	Nasriganj	8.51	412	267.8	0.858	12.4	178.35	21	18.09	3.76	0	185.00	30	26.73	4.38	3.96
Rohtas	Nokha	Nokha	7.68	1156	751.4	0.522	130	461.25	0	69.19	4.43	0	335.00	36	59.53	109.68	3.51
Rohtas	Kochas/Dinara	Rajandih	8.18	812	527.8	1.13	37.5	442.8	0	12.12	2.88	0	345.00	36	61.96	52.86	1.14
Rohtas	Sasaram	Sasaram	8.05	661	429.65	0.386	25.5	325.95	0	11.1	9.54	0	300.00	42	47.38	23.57	2.54
Rohtas	Karghar	Sinsiyau	7.09	1261	819.65	0.372	196	381.3	0	13.16	3.07	0	365.00	40	64.39	130.7	2.9
Rohtas	Tilothu	Tilothu	7.81	659	428.35	0.573	33.4	338.25	0	12.45	10.2	0	315.00	44	49.81	20.24	4.88
Saharsa	Sour bazar	Adarch	7.62	868	564.2	0.718	77.99	313.65	0	47.5	19.1	0	200.00	44	21.87	59.35	54.8
Saharsa	Saharsa	Bajjnathpur	7.36	392	254.8	0	41.8	123	0	39.35	11.6	0	170.00	36	19.44	21.11	1.22
Saharsa	Norha	Bangaon	8.48	228	148.2	0	3.05	110.7	18	0.35	0	0	90.00	26	6.07	12.34	0.54
Saharsa	Kahra	Basudev	7.36	438	284.7	0.34	55.1	147.6	0	13.15	2.77	0	165.00	32	20.65	32.35	0.39
Saharsa	Kahra	Chainpur	7.15	270	175.5	0.11	8.5	153.75	0	8.1	1.93	0	100.00	36	2.43	14.73	2.89
Saharsa	Saur bazar	Chanaur east	7.22	1264	821.6	0	166.61	362.85	0	95.64	6.66	0	225.00	40	30.37	152.15	19.2
Saharsa	S.bakhtiyarpur	Jamunia	8.21	233	151.45	0	3.05	135.3	0	10.7	0.66	0	85.00	30	2.43	13.41	0.93
Saharsa	Kahra	Kharkutti	7.22	285	185.25	0	25	98.4	0	20.12	16.2	0	130.00	36	9.72	11.64	0.43
Saharsa	Kahra	Nirala Tola	7.97	532	345.8	0	45.6	202.95	0	42.93	14.1	0	180.00	48	14.58	25.34	22.05
Saharsa	Sata Katha	Patodi Bazar	8.13	736	478.4	0.88	67.37	301.35	0	37.2	2.08	0	165.00	48	10.935	76.09	6.79
Saharsa	Sata Katha	Patodi Bazar	8.19	687	446.55	0.76	55.1	313.65	0	36.66	2.8	0	210.00	52	19.44	56.5	15.9
Saharsa	Saharsa	Potwa	8.13	259	168.35	0.12	3.05	110.7	0	25.06	10.3	0	125.00	26	14.58	8.19	0.6
Saharsa	Sata Katha	Punch Gachhi	8.12	1044	678.6	0	124.07	319.8	0	85.87	8.4	0	265.00	82	14.58	81.39	32.35
Saharsa	Saharsa	Saharsa	8.09	725	471.25	0.01	56.72	325.95	0	38.39	14	0	190.00	44	19.44	80.07	4.71

Saharsa	S. Bakhtiyarpur	Simri Bakhtiyarpur	8.26	385	250.25	0.6	14.2	184.5	0	21.01	1.6	0	120.00	24	14.58	41.97	0.76
Saharsa	S. Bakhtiyarpur	Simri Bakhtiyarpur	7.63	747	485.55	0	49.63	375.15	0	25.68	7.3	0	210.00	44	24.3	63.09	19.76
Saharsa	Kahra	Tulsiyahi	7.12	440	286	0	18.8	239.85	0	18.16	0.715	0	150.00	36	14.58	33.17	0.2
Samastipur	Vidyapatinar	Sahit ( Bajidpur)	6.86	1335	867.75	0.41	170	369	ND	70.62	27.6	BDL	385.00	76	47.38	101.8	1.22
Samastipur	Dalsingh sarai	Dalsingh sarai	7.2	816	530.4	0.27	21.5	436.5	ND	61.38	BDL	BDL	335.00	38	58.32	48.29	0.5
Samastipur	Kalyanpur	Basudebpur	6.96	683	443.95	0.31	5.3	393.6	ND	44.06	BDL	BDL	290.00	44	43.74	29.8	0.68
Samastipur	Ujarpur	Dandia Asadpur	7.1	608	395.2	0.51	2.13	362.85	ND	30.91	BDL	BDL	240.00	40	34.02	35.25	0.07
Samastipur	Kalyanpur	Jakhra	6.96	713	463.45	0.33	35.45	357	ND	42.86	BDL	BDL	230.00	46	27.94	53.73	5.68
Samastipur	Jitwarpur	Jathmal pur	6.95	1111	722.15	0.17	151	387.45	ND	71.77	BDL	BDL	350.00	50	54.67	87.9	6.89
Samastipur	vibhutipur	Kalyanpur	7.32	983	638.95	0.55	116.98	344.4	ND	75.07	1.91	BDL	250.00	40	36.45	97.43	17.04
Samastipur	Shivaji Nagar	Karian	6.99	2403	1561.95	0.18	148.89	750.3	ND	157.25	133	BDL	949.00	140	145.8	87.9	64.74
Samastipur	Dalsingh sarai	Madudabad	7.04	1406	913.9	0.23	102.8	393.6	ND	75.48	225	BDL	540.00	110	64.39	110.88	BDL
Samastipur	Rossera	Malipur	7.13	780	507	0.76	53.17	344.4	ND	42.4	BDL	BDL	302.00	42	48	55.89	0.57
Samastipur	vibhutipur	Patpara	7.29	720	468	0.41	7.09	381.3	ND	36.05	BDL	BDL	325.00	42	53.46	33.17	0.34
Samastipur	Warisnagar	Raghunathpur	7.04	692	449.8	0.35	21.27	338.25	ND	36.28	BDL	BDL	355.00	54	53.46	11.73	0.62
Samastipur	Rosera	Rosera	7	699	454.35	0.17	28.36	332.1	ND	27.11	14	BDL	320.00	38	54.67	30.51	1.18
Samastipur	Patori	Shahpur Patori	6.95	678	440.7	0.19	14.18	332.1	ND	44.95	BDL	BDL	305.00	46	46.17	31.66	0.22
Samastipur	Vibhutipur	Singhia ghat	7.06	811	527.15	0.24	14.18	448.95	ND	54.71	9.11	BDL	350.00	42	59.53	40.13	0.25
Samastipur	Tajpur	Tajpur	6.88	1805	1173.25	0.32	250.69	461.25	ND	85.99	5.32	BDL	690.00	136	85.14	93.27	1.44
Samastipur	Tajpur	Vikrampur	7.09	792	514.8	0.44	28.36	362.85	ND	59.38	BDL	BDL	370.00	52	58.33	31.76	0.33
Saran	Dighwara	Aami	6.87	988	0	0.00	11.00	506	0	2.00	21.70	0	355.00	0.00	43.00	35.2	3.03
Saran	Banipur	Baleshra	6.97	628	0	0.00	57.00	256	0	13.00	4.50	0	275.00	26.00	50.40	36.4	1.82
Saran	Jalalpur	Bishunpur	7.06	644	0	0.36	71.00	250	0	15.00	4.30	0	255.00	26.00	45.60	36.9	3.43
Saran	Sonepur	Bishunpur	7.04	639	0	0.00	39.00	201	0	61.00	1.30	0	220.00	40.00	28.80	37.4	2.8
Saran	Chapra	Chapra	6.9	974	0	0.90	11.00	555	0	20.00	5.60	0	395.00	66.00	55.20	70.8	6.7
Saran	Chapra	Chirand	7.14	620	0	0.00	43.00	317	0	12.00	2.60	0	265.00	46.00	36.00	10.1	1.96
Saran	Chapra	Chusia	6.95	682	0	0.00	21.00	342	0	15.00	1.90	0	265.00	40.00	39.60	24.8	1.16
Saran	Chapra	Daldali Bazar	7.26	580	0	0.36	43.00	238	0	6.00	6.30	0	215.00	60.00	15.60	36.5	5.84
Saran	Chapra	Daldali Bazar	7.08	643	0	0.00	46.00	268	0	23.00	5.50	0	255.00	40.00	37.20	37.3	1.1
Saran	Ekma	Ekma	6.98	434	0	0.20	21.00	220	0	6.00	2.30	0	130.00	20.00	19.20	10.5	0.31
Saran	Garkha	Garkha	7.12	613	0	0.00	18.00	616	0	14.00	3.60	0.06	75.00	14.00	9.60	36.2	1.2
Saran	Jalalpur	Jalalpur	7.14	575	0	0.40	39.00	250	0	16.00	2.60	0	220.00	42.00	27.60	29.7	3.56
Saran	Chapra	Kapiyanimat	7.11	583	0	0.30	35.00	293	0	22.00	4.90	0	230.00	42.00	30.00	24.6	5.19
Saran	Chapra	Karbindiaya	6.97	898	0	0.10	103.00	317	0	18.00	5.60	0	260.00	60.00	26.40	38.8	3.44
Saran	Manjhi	Madansath	7.14	606	0	0.00	35.00	305	0	5.00	7.77	0	205.00	40.00	25.20	29.6	6.12



Saran	,Thapra	Mahua Pakri	7.03	652	0	0.00	14.00	372	0	18.00	8.90	0	250.00	28.00	43.20	25.1	0.84
Saran	Manjhi	Majhanpura	7.16	571	0	0.00	11.00	250	0	26.00	5.30	0	230.00	32.00	36.00	30.1	4.5
Saran	Manjhi	Majhnapura	6.99	889	0	0.05	46.00	409	0	26.00	3.33	0	345.00	44.00	56.40	38.9	0.61
Saran	Manjhi	Manjhi	7.26	734	0	0.00	67.00	293	0	32.00	2.90	0	280.00	40.00	43.20	32.4	13.62
Saran	Manjhi	Manjhi2	7.49	609	0	0.00	71.00	232	0	15.00	5.90	0	230.00	50.00	25.20	21.6	5.11
Saran	Baninpur	Manopali	7	901	0	0.00	78.00	378	0	10.00	6.90	0	350.00	60.00	48.00	35	21.32
Saran	Marhaura	Marhura	7.22	880	0	0.00	53.00	427	0	4.00	6.01	0	325.00	56.00	44.40	70.8	19.11
Saran	Mashrakh	Mashrakh	7.23	676	0	0.09	46.00	268	0	25.00	7.89	0	250.00	38.00	37.20	40.6	13.65
Saran	Mashrakh	Mashrakh1	7.21	670	0	0.05	35.00	293	0	17.00	8.90	0.09	260.00	54.00	30.00	39.4	7.8
Saran	Chapra	Mauna Pakri	7	1533	0	0.09	145.00	671	0	22.00	4.90	0	640.00	92.00	98.40	11.8	2.3
Saran	Garkha	Minapur	6.96	962	0	0.00	71.00	421	0	29.00	9.10	0	400.00	58.00	61.20	37.4	3.8
Saran	Jalalpur	Nagra	6.99	921	0	1.10	71.00	427	0	32.00	10.60	0	430.00	92.00	48.00	36.1	10.1
Saran	Jalalpur	Rampur Kala	7.01	914	0	0.00	82.00	409	0	14.00	9.60	0	395.00	80.00	46.80	33.1	0.8
Saran	Parsa	Saguni	7.19	774	0	0.00	35.00	360	0	20.00	5.30	0	305.00	64.00	34.80	38.1	1.71
Saran	Parsa	Saidpur	7.2	759	0	0.00	71.00	305	0	25.00	8.70	0	350.00	52.00	52.80	26.5	4.56
Saran	Revelganj	Sanghar Tola	7.18	635	0	0.04	35.00	299	0	7.00	11.30	0	245.00	22.00	45.60	21.7	16.5
Saran	Sonepur	Sonepur	7.13	796	0	0.00	53.00	305	0	17.00	20.10	0	300.00	40.00	48.00	57.8	16.12
Saran	Chapra	Taaiya	7.22	689	0	0.00	32.00	268	0	41.00	13.10	0	260.00	60.00	26.40	29.2	2.84
Saran	Mashrakh	Mashrakh	7.08	890	0	0.00	71.00	378	0	10.00	5.90	0	390.00	84.00	43.20	30.3	11.12
Sheikhpura	Barbigha	Ambari	8.21	1650	1072.5	0.19	143	264.45	0	220	123	0	265.00	58	29.16	131.72	201.52
Sheikhpura	Barbigha	Barbigha	7	1014	659.1	0.42	117	264.45	0	77.14	4.93	0	230.00	32	36.45	122	8.03
Sheikhpura	Barbigha	Keoti	8.37	1033	671.45	0.45	91.5	381.3	6	78.37	4.58	0	322.00	40	54	77	11.33
Sheikhpura	Barbigha	Koeribigha	8.1	1127	732.55	0.77	87.7	510.4	0	49	13.6	0	235.00	50	26.73	137	29.89
Sheikhpura	Sheikhpura	Nemdarganj	8.26	432	280.8	0.62	19.8	209.1	0	23	2.58	0	100.00	20	12.15	55	5.28
Sheikhpura	Shekhpura	Shekhpura	8.05	611	397.15	0.43	31.1	276.75	0	21	23.6	0	180.00	32	24.3	59	2.67
Sheikhpura	Sheikhpura	Shekhpura DE	8.01	655	425.75	0.36	3.54	350.55	0	8	55	0	200.00	34	27.94	54	2.8
Sheikhpura	Berbigha	Sherpar	8.44	390	253.5	0.45	17.7	153.75	12	20	2.6	0.09	95.00	22	9.72	49	0.73
Sheohar	Piprahi	Purnharya Bazar	7.47	744	483.6	0.31	46.08	356.7	ND	18.42	BDL	BDL	250.00	60	24.3	45.22	4.73
Sheohar	Belsand	Sarbarpur	7.13	593	385.45	0.27	14.18	307.5	ND	25.13	BDL	BDL	277.00	48	38.24	21.72	1.38
Sheohar	Sheohar	Sheohar (Ganneshpur)	7.56	555	360.75	0.16	7.09	325.95	ND	12.84	BDL	BDL	285.00	52	37.66	14.8	BDL
Sitamarhi	Belsand	Belsand	7.42	467	303.55	0.21	3.55	270.6	ND	15.11	BDL	BDL	225.00	34	34.02	14.27	BDL
Sitamarhi	Bajpatti	Bangaon	7.57	471	306.15	0.51	7.09	258.3	ND	12.81	BDL	BDL	195.00	38	24.3	30	BDL
Sitamarhi	Dumra	Bhupbhairi Khaptola	7.65	390	253.5	0.33	7.09	227.55	ND	11.59	BDL	BDL	200.00	38	25.51	12	0.12
Sitamarhi	Sonbarsa	Bhutahi	7.61	489	317.85	0.29	7.09	295.2	ND	12.75	BDL	BDL	185.00	28	27.94	29.75	BDL
Sitamarhi	Sonbarsa	Dastiya	7.66	389	252.85	0.41	7.09	289.05	ND	12.37	1.18	BDL	200.00	50	18.22	34.99	BDL

Sitamarhi	Barganiya	Dheng ( Maniyari math)	7.63	576	374.4	0.27	3.55	332.6	ND	12.94	1.29	BDL	285.00	52	37.66	16	0.1
Sitamarhi	Bathnaha	Jagwana Bazar	7.64	453	294.45	0.36	3.55	252.15	ND	10.11	2.54	BDL	215.00	42	26.73	15.05	0.05
Sitamarhi	Sitamarhi	Karhaniya chowk	7.65	361	234.65	0.53	3.55	196.8	ND	12.11	BDL	BDL	170.00	40	17.01	12.94	0.31
Sitamarhi	Sitamarhi	Kodwara Tola	7.56	400	260	0.23	7.09	221.4	ND	9.36	BDL	BDL	190.00	40	21.87	14	0.03
Sitamarhi	Riga	Kushmarii	0	526	341.9	0.34	14.18	301.35	ND	15.16	BDL	BDL	185.00	48	15.79	35	0.44
Sitamarhi	Nanpur	Nanpur	7.7	395	256.75	35	7.09	227.75	ND	6	1.07	BDL	165.00	0.36	18.22	24	0.23
Sitamarhi	Sitamarhi	Punaura	7.69	399	259.35	0.27	7.09	239.85	ND	4	1.01	BDL	190.00	38	23.08	13.79	0.4
Sitamarhi	Pupri	Pupri	7.85	429	278.85	0.56	3.55	233.7	ND	18	0.78	BDL	160.00	36	17.01	36	0.11
Sitamarhi	Sitamarhi	Sitamarhi	7.68	403	261.95	0.22	14	209.1	ND	14	0.79	BDL	190.00	0.32	26.73	14.91	0.29
Sitamarhi	Sursand	Sursand	7.64	452	293.8	0.2	7.09	258.3	ND	5	0.99	BDL	205.00	36	27.94	21	BDL
Sitamarhi	Runi Saidpur	Thumba	7.64	325	211.25	0.47	7.09	184.5	ND	5	1	BDL	140.00	30	15.79	18	BDL
Siwan	Goriya Koth	Agaya	7.06	760	0	0	106	244	0	26	4.6	0	335.00	80	32.4	33.3	3.81
Siwan	Andr	Ander	7.11	1064	0	0.06	53	507	0	15	8.9	0.02	475.00	102	52.8	5.95	0.94
Siwan	Basantpur	Basantpur	7.45	472	0	0	25	201	0	8	12.1	0	200.00	36	26.4	26.1	1.96
Siwan	Siswan	Bhagar	7.43	601	0	0	46	281	0	14	6.9	0	290.00	40	45.6	20.2	0.85
Siwan	Basantpur	Chimanpur	7.18	608	0	0.06	53	305	0	20	5.6	0	295.00	30	52.8	21.2	1.46
Siwan	Guthani	Chitkhul	7.6	350	0	0	32	110	0	27	4.3	0	85.00	12	13.2	3.84	0.95
Siwan	Darauli	Darauli	7.47	454	0	0	14	226	0	24	9.48	0	200.00	40	24	11.9	5.4
Siwan	Guthani	Deoria	7.19	568	0	0	43	256	0	13	6.23	0	215.00	38	28.8	12.3	1.69
Siwan	Sisawan	Ganngpur	7.06	646	0	0.08	74	220	0	31	13.6	0	275.00	70	24	20.1	8.7
Siwan	Mairwa	Guthni More	6.91	1011	0	0	78	501	0	16	19.1	0	505.00	118	50.4	16.6	5.4
Siwan	Basantpur	Hrdia	7.4	593	0	0	18	305	0	34	6.6	0	250.00	60	24	6.7	1.82
Siwan	Jamanpura	Jamanpura	7.2	1046	0	0	71	281	0	32	5.6	0.02	260.00	50	32.4	13.2	6.4
Siwan	Maharajga	Maharajganj	7.48	721	0	0.06	106	369	0	51	9.7	0	425.00	98	43.2	18.7	5.6
Siwan	Bhagwanm	Malmalia Chowk	7.16	708	0	0	39	364	0	10	10.1	0	295.00	52	39.6	32.6	1.2
Siwan	Raghnathr	Murarpatti	7.18	1074	0	0	78	488	0	12	3.3	0	450.00	106	44.4	14.6	1.5
Siwan	Maharajga	Paterhi	7.1	801	0	0	71	317	0	26	4.9	0	280.00	62	30	30.6	4.6
Siwan	Pachrukhi	Sadikpur	7.28	606	0	1.1	35	311	0	16	13.6	0	230.00	40	31.2	14.7	2.3
Siwan	Bhagwanpt	Sarripatti	7.1	439	0	0	14	183	0	20	19.6	0	120.00	24	14.4	20.7	5.5
Siwan	Siwan	Siwan	7	1544	0	0	128	683	0	16	4.6	0	680.00	168	62.4	25.6	0.6
Siwan	Siwan	Siwan	7.29	582	0	0.04	53	177	0	52	7.9	0	215.00	40	27.6	40.2	7.1
Siwan	Barhaia	Tarwara	7.31	680	0	0	43	293	0	15	20.2	0	275.00	46	38.4	37.9	1.5
Suapaul	Maruna	Andauli	8.11	557	362.05	0	38	282.9	0	21.08	1.4	0	185.00	38	21.87	39.87	6.21
Suapaul	Balua	Balua	8.01	564	366.6	0	35.45	264.45	0	32.84	1.9	0	205.00	36	27.94	24.8	13.26

Suapaul	Balua	Balua 1	8.13	843	547.95	0	78.6	289.05	0	55.91	42.2	0	330.00	92	24.3	47.2	23.5
Suapaul	Chatarpur	Balua Bazar	7.92	428	278.2	0.08	7.5	221.4	0	21.01	0	0.04	215.00	40	27.9	8.76	2.47
Suapaul	Raghopur	Basawanpatti	8.05	332	215.8	0.09	1.5	152.75	0	25.79	0	0	150.00	20	24.3	7.25	0.17
Suapaul	Basantpur	Bhawanipur1	7.75	621	403.65	0	34.5	264.45	0	42.07	0	0	240.00	50	27.9	37.76	2.36
Suapaul	Basantpur	Bhimnagar	8.2	507	329.55	0	10.1	276.75	0	0.65	15	0	165.00	38	17.01	28.65	7.73
Suapaul	Raghopur	Birpur	7.64	489	317.85	0	5.38	289.05	0	13.08	10.4	0	185.00	38	21.87	25.86	1.82
Suapaul	Marauna	Ganpatganj	7.71	538	349.7	0.12	103	110.7	0	7.81	63.9	0	180.00	30	25.51	36.34	7.57
Suapaul	Raghopur	Hardi	8.07	594	386.1	0	24	313.65	0	26.5	7.1	0	230.00	52	24.3	29.52	1.59
Suapaul	Raghopur	Kaithtola	8.03	307	199.55	0.05	10.1	159.9	0	5.43	2.2	0	135.00	38	9.72	13.56	2.15
Suapaul	Supaul	Karzain	7.82	576	374.4	0	45.7	258.3	0	24.53	19.9	0	190.00	34	25.51	45.86	3.39
Suapaul	Raghopur	Malhani	7.67	528	343.2	0	30.4	209.1	0	62.11	12.9	0	180.00	44	17.01	38.19	2.33
Suapaul	Raghopur	Norha	7.45	293	190.45	0	15.4	147.6	ND	0.87	2.05	0	100.00	24	9.72	14.8	1.15
Suapaul	Pipra	Parsharma	7.33	161	104.65	0.06	1.05	104.55	0	0.85	0	0	65.00	24	1.21	7.5	0.52
Suapaul	Raghopur	Pipra Chowk	7.94	431	280.15	0	28.9	190.65	0	12.13	27.2	0	160.00	18	27.94	32.63	3.91
Suapaul	Basantpur	Pratap Ganj	7.33	570	370.5	0.19	22	289.05	0	27.99	17.4	0	220.00	46	25.51	29.85	4.43
Suapaul	Pipra	Ratanpura	7.93	618	401.7	0.21	21.4	356.7	0	9.32	5.7	0	225.00	46	26.73	31.9	14.77
Suapaul	Pipra	Shyamnagar	7.63	526	341.9	0	9.93	282.9	0	4.44	0	0	225.00	52	23.08	19.69	0.45
Suapaul	Tribeniganj	Teribeniganj	8.12	520	338	0.05	27.6	227.55	0	30.21	7.12	0	205.00	46	21.87	35.35	0.09
Suapaul	Supaul	Thumba	8.18	498	323.7	0	19.6	202.95	0	34.33	23.1	0.01	195.00	76	1.21	13.89	0.2
Vaishali	Goraul	Baksama	7.2	612	0	0	25	312	0	32	16.9	0	250.00	46	32.4	27.2	4.9
Vaishali	Goraul	Bhaluhia	7.37	772	0	0.6	39	305	0	51	25.6	0	305.00	100	13.2	22.7	0.44
Vaishali	Mahnpur	Chakiya	7.07	684	0	0	60	305	0	10	34.3	0	265.00	38	40.8	34.7	7.3
Vaishali	Goraul	Chandpur Kala	7.24	596	0	0	39	334	0	12	2.9	0	260.00	18	51.6	23.5	6.2
Vaishali	Bidupur	Chasikandar	7.04	782	0	0	67	171	0	26	4.6	0	175.00	24	27.6	32	9.7
Vaishali	Patepur	Patepur	7.49	686	0	0.09	35	427	0	16	9.6	0	345.00	52	51.6	11.2	0.24
Vaishali	Desri	Gajipur	7.04	836	0	0	14	305	0	19	10.3	0	220.00	56	19.2	29.2	1.6
Vaishali	Gauraul	Garaul	7.2	600	0	0	14	366	0	14	16.9	0	250.00	26	44.4	28.3	3.1
Vaishali	Gauraul	Garaul	7.31	617	0	0	32	289	0	21	17.3	0	250.00	50	30	35.2	0.99
Vaishali	Vaishali	Hajipur	7.32	540	0	0.05	18	388	0	14	3.6	0	295.00	58	36	33.6	3.6
Vaishali	Goraul	Harpur	7.23	562	0	0	60	268	0	41	40.1	0	305.00	60	37.2	38.5	5.8
Vaishali	Bidupur	Kachnpur	7.33	664	0	0	25	229	0	59	36.4	0	215.00	42	26.4	31.7	0.95
Vaishali	Mahnar	Kumbarkal	7.09	676	0	0.06	21	229	0	35	21.3	0	165.00	40	15.6	34.1	1.5
Vaishali	Mahnar	Manhar	6.96	669	0	0	46	293	0	20	11.3	0	285.00	82	19.2	30.6	4
Vaishali	Bidupur	Mathura	7.14	689	0	0	46	293	0	9	17.6	0	260.00	58	27.6	40.1	15.6
Vaishali	Hajipur	Sahjadpur	7.1	848	0	0.06	43	397	0	19	25.6	0.04	370.00	26	73.2	31.7	11.6

Vaishali	Vaishali	Sarai	7.08	788	0	0	25	372	0	30	12.3	0	300.00	76	26.4	31	7.6
Vaishali	Mahua	Tariya	7.13	640	0	0	43	238	0	44	29.6	0	60.00	10	8.4	30.7	6.9
W Chamaparan	Bagha	Bagha	7.38	1373	892.45	0.13	204	350.55	0	55.14	51	0	450.00	68	68.04	105.27	2.08
W Chamaparan	Bagha	Belwa	8.03	663	430.95	0.24	5.53	387.45	0	7.36	1.87	0	310.00	70	32.8	16.37	3.75
W Chamaparan	Bettiah	Bettiah	7.7	517	336.05	0.19	13.8	313.65	0	9.51	1.54	0	205.00	62	12.15	23.67	6.74
W Chamaparan	Leaked	Chanpatia	7.76	490	318.5	0.38	5.01	282.5	0	25.34	1.32	0	200.00	36	26.73	21.51	4.1
W Chamaparan	Chanpatia	Gurwalia	7.56	922	599.3	0.18	85.8	399.75	0	41.81	4.31	0.01	255.00	44	35.23	64.16	56.25
W Chamaparan	Ramnagar	Harnatanr	8.45	1069	694.85	0.16	106	307.5	12	55.45	61	0	315.00	96	18.22	90.86	51.84
W Chamaparan	Narkatiyaganj	Korigawa'	8.11	356	231.4	0.5	3.93	221.4	0	6.04	2.92	0	150.00	44	9.72	15.29	1.13
W Chamaparan	Leaked	Lauria	7.83	486	315.9	0.23	5.21	276.75	0	28.55	1.59	0	200.00	36	26.73	24.65	4.31
W Chamaparan	Majhwalia	Majhwalia	7.57	893	580.45	0.13	87	301.35	0	61.63	2.44	0	290.00	54	37.66	80.54	12.57
W Chamaparan	Leaked	Mangalpur	7.51	834	542.1	0.37	63.2	276.75	0	57.54	63	0	340.00	68	41.31	55.63	2.06
W Chamaparan	Bagha	Naurangia	8.02	712	462.8	0	44.4	227.95	0	68.5	39.6	0	285.00	56	35.23	23.1	42.3
W Chamaparan	Bagha	Pachpherwa	7.97	441	286.65	0.34	12.7	190.65	0	29.2	1.55	0	195.00	48	18.22	10.94	2.04
W Chamaparan	Ramnagar	Saubani Pokhra	7.95	300	195	0.31	2.58	178.35	0	7.2	1.46	0	130.00	34	10.9	15.99	0.72
W Chamaparan	Lauriya	Shiswania	7.87	578	375.7	0.27	27.8	325.95	0	9.28	1.85	0	250.00	40	36.4	19.48	9.44
W Chamaparan	Ramnagar	Taulaha	8.22	1104	717.6	0.45	106	387.45	0	30.5	11.16	0.01	285.00	56	35.23	66	98
W Chamaparan	Sidwa	Valmiki Nagar	7.87	870	565.5	0.15	44.4	350.55	0	58.59	28.3	0.02	275.00	62	29.16	47.78	12.18

## Districtwise, Monthly Rainfall and its departure during the year 2017

SN	District	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEPT		OCT		NOV		DEC	
		R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP
1	Araria	0	-100	0	-100	49	218	18.9	-49	93.9	-18	143.4	-47	320.9	-28	741.4	110	199	-28	72.2	-14	0	-100	0	-100
2	Arwal	0	-100	0	-100	4.3	-17	8.4	163	11.4	2	20.3	-82	292.9	19	101.4	-59	113.1	-38	0	-100	0	-100	0	-100
3	Aurangabad	0	-100	0	-100	4.2	-46	3.4	-40	24.7	71	41.8	-66	467.6	61	262.4	3	95.9	-50	4.7	-89	0	-100	0	-100
4	Banka	0	-100	0	-100	7.8	-33	24.7	57	80.2	75	89.7	-35	398.5	47	235.2	-3	238.8	11	130.5	54	0	-100	0	-100
5	Begusarai	0	-100	0	-100	20.7	57	16.9	-3	62.5	28	53.5	-65	314	6	289.6	13	109	-49	73	16	0	-100	0	-100
6	Bhabhua	0	-100	0	-100	1.4	-86	0	-100	0.4	-98	53	-60	424.4	36	294.4	-2	55.6	-78	0	-100	0	-100	0	-100
7	Bhagalpur	4	-78	0	-100	18.4	80	22.6	-3	111.3	70	66.8	-66	377.5	30	319.3	22	216	-5	272.3	208	0.1	-99	0	-100
8	Bhojpur	0	-100	0	-100	0	-100	7.4	-28	28.6	15	88.2	-19	222.6	-33	110.7	-60	124.5	-39	2.3	-95	0	-100	0	-100
9	Buxar	0	-100	0	-100	0	-100	20	441	58.3	231	17.1	-85	431.1	50	217.2	-17	94	-53	27	-50	0	-100	0	-100
10	Darbhanga	0	-100	0	-100	27.6	124	54	154	138	130	108.3	-31	432.4	46	443.4	56	66.9	-64	1.9	-97	0	-100	0	-100
11	E Champaran	3.2	-75	0	-100	23.8	205	7.9	-40	87.9	79	84.9	-48	338.3	-5	249.4	-16	128.9	-38	0	-100	0	-100	0	-100
12	Gaya	0.6	-96	0	-100	11.7	34	0	-100	15.5	-14	28.4	-78	324.1	9	281.6	4	101.2	-44	5	-91	0.3	-97	0	-100
13	Gopalganj	2.1	-86	0	-100	10.6	51	7.5	-40	60.3	91	95.9	-38	379.9	23	178.9	-41	190.6	-14	4.5	-92	0	-100	0	-100
14	Jehanabad	0	-100	0	-100	0.8	-89	0	-100	21	-9	133.5	19	314.2	23	128.3	-50	146.5	-25	0	-100	0	-100	0	-100
15	Jamui	0	-100	0	-100	0	-100	8.6	-9	97.7	178	86.6	-47	398.4	28	186.3	-26	68.5	-69	237.8	235	0	-100	0	-100
16	Katihar	0	-100	0	-100	16.5	80	51.5	109	124.3	29	139.5	-34	359.4	0	344.6	28	202.9	-25	228.4	208	0	-100	0.7	-84
17	Khagaria	0	-100	0	-100	4.3	-45	29.1	89	51.7	12	132.4	-28	331.7	7	179.4	-40	103.9	-61	100.7	23	0	-100	0	-100
18	Kishanganj	0	-100	0	-100	66.3	279	6.3	-88	200.2	29	170.8	-54	623	8	1000.9	116	242.8	-30	74	-8	0	-100	0	-100
19	Lakhisarai	0	-100	0	-100	0	-100	0	-100	29.1	-35	92.7	-44	296.4	-3	224.4	-17	114.2	-51	130.9	83	0	-100	0	-100
20	Madhepura	0	-100	0	-100	59.5	383	28.2	-5	128.5	52	143.6	-33	408.2	8	246.9	-19	120.5	-54	61.7	-13	0	-100	0	-100
21	Madhubani	0.3	-97	0	-100	27.5	195	53.7	74	126.3	59	98.6	-47	416.2	11	471	53	132.9	-31	7.2	-90	0	-100	0	-100
22	Munger	0	-100	0	-100	0	-100	0	-100	77.9	73	52.4	-68	305.6	0	147	-46	215.5	-7	119	67	0	-100	0	-100
23	Muzaffarpur	0.1	-99	0	-100	13.7	87	5.3	-60	100.3	86	67.9	-58	375.4	15	225.4	-23	80.9	-60	1.5	-98	0	-100	0	-100
24	Nalanda	0	-100	0	-100	2.1	-77	0	-100	19.9	-29	34.1	-73	356.1	26	183.1	-30	93.5	-54	11.9	-76	0	-100	0	-100
25	Nawada	0	-100	0	-100	2	-79	0	-100	13.2	-61	28.5	-79	332.4	10	213.9	-23	53.7	-71	28.9	-54	0	-100	0	-100
26	Patna	0	-100	0	-100	8.3	-14	9	10	35.7	35	68.4	-45	299.2	-10	181.1	-32	109.4	-50	19.4	-65	0	-100	0	-100
27	Purnea	4.9	-47	0	-100	75.9	488	120.1	256	221.5	82	112.4	-54	404.6	-7	529.4	56	152.7	-48	147	76	0	-100	0	-100
28	Rohtas	0.5	-96	0	-100	2.9	-68	0.8	-86	22	59	49.6	-45	474.5	72	266.4	-4	35.9	-81	6.3	-85	0.4	-97	0	-100
29	Saharsa	0	-100	0	-100	83.1	549	0	-100	124.7	16	120.2	-52	510.5	-1	307.2	-13	81.7	-72	30.2	-68	0	-100	0	-100
30	Samastipur	0	-100	0	-100	22.4	106	30.7	102	96.3	126	129.5	-27	441.2	40	399.6	38	120.2	-51	29	-55	0	-100	0	-100
31	Saran	0	-100	0	-100	6	-29	9.1	-2	68.2	92	85.7	-36	407.3	22	234.1	-20	80.7	-62	0	-100	0	-100	0	-100
32	Sheikhpura	0	-100	0	-100	0.3	-96	0	-100	67.4	101	87.8	-39	285.6	-2	183.7	-24	72.4	-62	39.7	-32	0	-100	0	-100
33	Sheohar	0	-100	0	-100	34.4	247	0	-100	138	93	115.4	-42	353.8	-11	309.2	1	131	-27	0	-100	0	-100	0	-100
34	Sitamarhi	0	-100	0	-100	11.8	19	51.1	100	57.1	-20	110.8	-45	325.2	-18	365.7	19	79.6	-56	1.9	-97	0	-100	0	-100
35	Siwan	0.2	-99	0	-100	12.3	27	11.6	21	88.2	221	61.3	-55	260.5	-23	171.6	-40	81.9	-66	0.5	-99	0	-100	0	-100
36	Supaul	0	-99	0	-100	46.7	268	87.4	280	173	108	116.8	-42	345.5	-8	534.9	98	103.1	-51	32.5	-57	0	-100	0	-100
37	Vaishali	0	-100	0	-100	14	94	14.4	-1	73.3	174	99.2	-28	367.8	-2	209.8	-26	62.3	-72	0	-100	0	-100	0	-100
38	W. Champaran	3.7	-80	0	-100	95.2	644	38	107	102.9	83	91	-60	443.2	-1	937.7	168	329.9	32	13.3	-80	0	-100	0	-100

Source: IMD

**District-wise seasonal and annual Rainfall (mm) of Bihar for the year 2017**

SN	Districts	Winter	Pre-Monsoon	SW Monsoon	Post-Monsoon	Annual
1	Araria	27.8	224	1681.1	124.9	2057.7
2	Arwal	3.3	11.7	1114.6	96.5	1226.2
3	Aurangabad	15.7	19	1178.5	152.6	1365.8
4	Banka	18.3	66	1116.3	77.3	1277.9
5	Begusarai	5.2	68.3	838.6	40.7	952.8
6	Bhabua	13.1	13.2	1098.5	39.9	1164.6
7	Bhagalpur	24.5	100.7	857.3	27.1	1009.5
8	Bhojpur	2	52.1	813.2	7	874.3
9	Buxar	0	0	801.8	132	933.8
10	Darbhanga	1.8	146.9	957.8	45.5	1152
11	E Champaran	9	148.2	716.3	22	895.4
12	Gaya	23.5	17.4	1243.8	119.7	1404.5
13	Gopalganj	0	113	732.9	19	865
14	Jahanabad	16.2	14	970.9	57.8	1058.9
15	Jamui	19.6	21.9	1043.5	28.2	1113.1
16	Katihar	0	104.8	857.8	62.7	1025.2
17	Khagaria	8.6	86.9	609	26.1	730.5
18	Kishanganj	0.3	241.4	2103.4	141.1	2486.2
19	Lakhisarai	16.1	39.9	1018.6	29.9	1104.5
20	Madhepura	1.2	149.9	1097.2	73.2	1321.5
21	Madhubani	7.1	99.6	882.6	18.4	1007.7
22	Munger	4.6	41.2	822.2	31	899
23	Muzaffarpur	6.5	104.3	744.9	29.3	885
24	Nalanda	9.3	53.3	910.5	67	1040.1
25	Nawada	29.5	9.3	911.7	48.8	999.4
26	Patna	2.6	82.6	859.6	52.3	997.1
27	Purnea	7.2	326.6	1061.2	71.5	1466.4
28	Rohtas	27.2	47.4	1049.5	57.2	1181.3
29	Saharsa	0	106.2	900.8	60.9	1067.9
30	Samastipur	0	127.4	1012.2	96.2	1235.8
31	Saran	4.2	56.4	685.7	47.7	794
32	Sheikhpura	0	36.6	905.4	105.8	1047.8
33	Sheohar	0	11.2	580.3	0	591.5
34	Sitamarhi	0	50.5	691.4	2.2	744.2
35	Siwan	0	50.5	792.3	47	889.9
36	Supaul	18.1	217.3	1199.6	120.9	1555.9
37	Vaishali	3.7	97.6	724.6	58.1	884
38	W Champaran	2.1	144	1223.3	43.4	1412.8

Source: IMD

**District wise percentage of well showing Rise, fall or no significant decline trend (2008-2017)  
during Pre-Monsoon and Post-Monsoon Season**

S.N.	District	Pre-monsoon (in percent)			Post-monsoon (in percent)		
		Rise	Fall	No Significant trend	Rise	Fall	No Significant trend
1	Araria	50	50	100	50	50	50
2	Aurangabad	22	78	56	50	50	80
3	Banka	44	56	67	44	56	67
4	Begusarai	75	25	100	45	55	82
5	Bhagalpur	36	64	64	55	45	73
6	Bhojpur	86	14	71	75	25	63
7	Buxar	33	67	67	67	33	83
8	Darbhanga	50	50	100	75	25	100
9	Gaya	0	100	100	33	67	83
10	Gopalganj	55	45	91	45	55	91
11	Jamui	14	86	57	43	57	43
12	Jehanabad & Arwal	63	37	100	88	12	88
13	Kaimur	67	33	83	63	37	75
14	Katihar	10	90	90	62	38	92
15	Khagaria	83	17	83	71	29	100
16	Kishanganj	50	50	100	50	50	100
17	Lakhisarai	0	100	67	0	100	100
18	Madhepura	60	40	100	80	20	100
19	Madhubani	33	67	56	55	45	100
20	Munger	50	50	83	88	12	88
21	Muzaffarpur	40	60	60	7	93	50
22	Nalanda	50	50	63	55	45	78
23	Nawada	33	67	50	43	57	86
24	W. Champaran	25	75	100	29	71	100
25	Patna	60	40	80	27	73	91
26	E. Champaran	71	30	71	38	62	92
27	Purnia	50	50	83	43	57	100
28	Rohtas	13	87	50	80	20	93
29	Saharsa	71	29	100	71	29	100
30	Samastipur	13	87	63	100	0	63
31	Saran	60	40	100	25	75	100
32	Seikhpura	100	0	0	50	50	0
33	Sheohar	0	100	0	100	0	100
34	Sitamarhi	40	60	100	60	40	100
35	Siwan	63	38	100	50	50	100
36	Supaul	50	50	88	89	11	100
37	Vaishali	67	33	100	33	67	100