

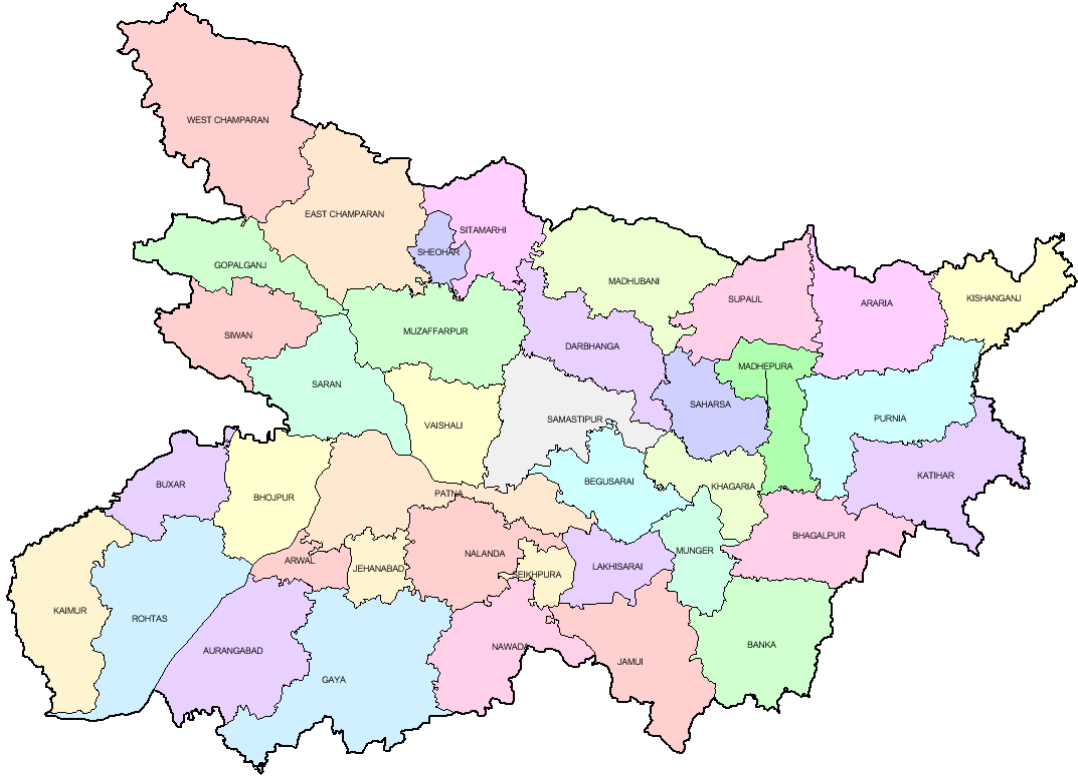
भारत सरकार
जल संसाधन, नदी विकास और गंगा
संरक्षण मंत्रालय
केंद्रीय भूमि जल बोर्ड



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

(2016-2017)

Ground Water Year Book
(2016 - 2017)



मध्य प ी क्षेत्र, पटना
सितम्बर 2017

MID-EASTERN REGION, PATNA
September 2017

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GROUND WATER YEAR BOOK, BIHAR (2016 - 2017)

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GROUND WATER YEAR BOOK, BIHAR (2016-2017)

ABSTRACT

Monitoring of ground water levels from 715 Hydrograph Network Stations (HNS) were carried out in the year 2016-2017 with an objective to assess ground water regime of phreatic aquifer. The water level monitoring was carried out in the months of May'16, August'16, November'16, and January'17. The ground water samples from the HNS were collected in the month of May'16 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 2016 the ground water levels were found to vary between 0.75 and 15.80 m bgl. The depth to water level rests in range of 5-10 m bgl in 56% of HNS, which spatially covers northern part of North Bihar Plains (NBP) and patches in the South Bihar Plains (SBP). During post-monsoon 2016, water level rested in the range of 2 – 5 m bgl in 66% of the HNS which covers major part (75% area) of the state. The fluctuation of water level between pre and post-monsoon 2016 indicated rise in water level in 94% of the HNS. Annual change of water level of May 2016 with respect to May 2015 indicated rise in water level in 32 % of the HNS, and during November 2016 with respect to November 2015 indicated rise in 77 % of the HNS. The change in water level of May 2016 with respect to the decadal mean of May (May 2006 to May 2015) indicated fall in 66 % of the HNS and during November 2016 with respect to the decadal mean of November (November 2006 to November 2015) indicated rise in 61% of HNS.

GROUND WATER YEAR BOOK, BIHAR (2016-2017)

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 881 persons/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.,

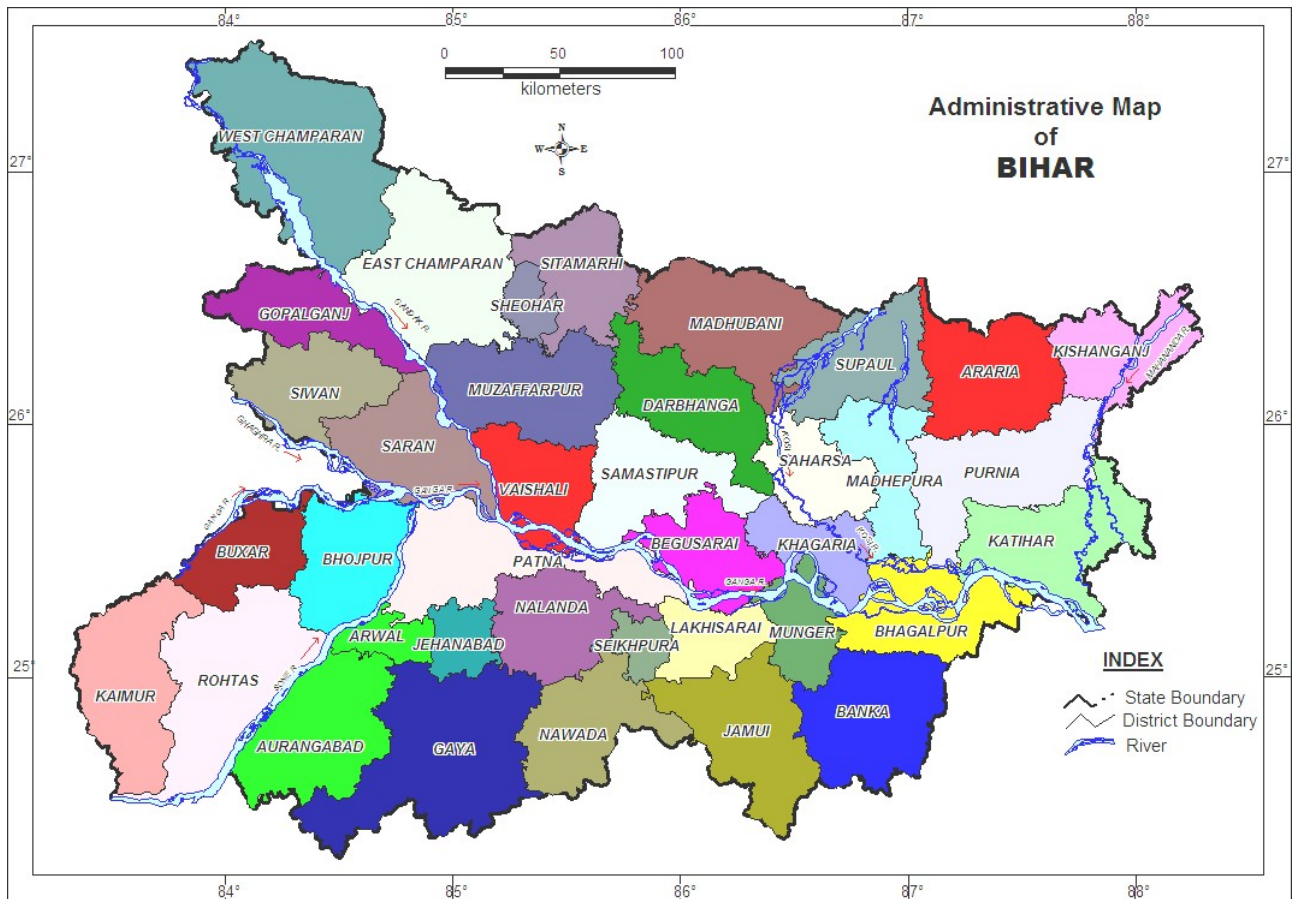


Fig. 1 Administrative Map of Bihar state

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.

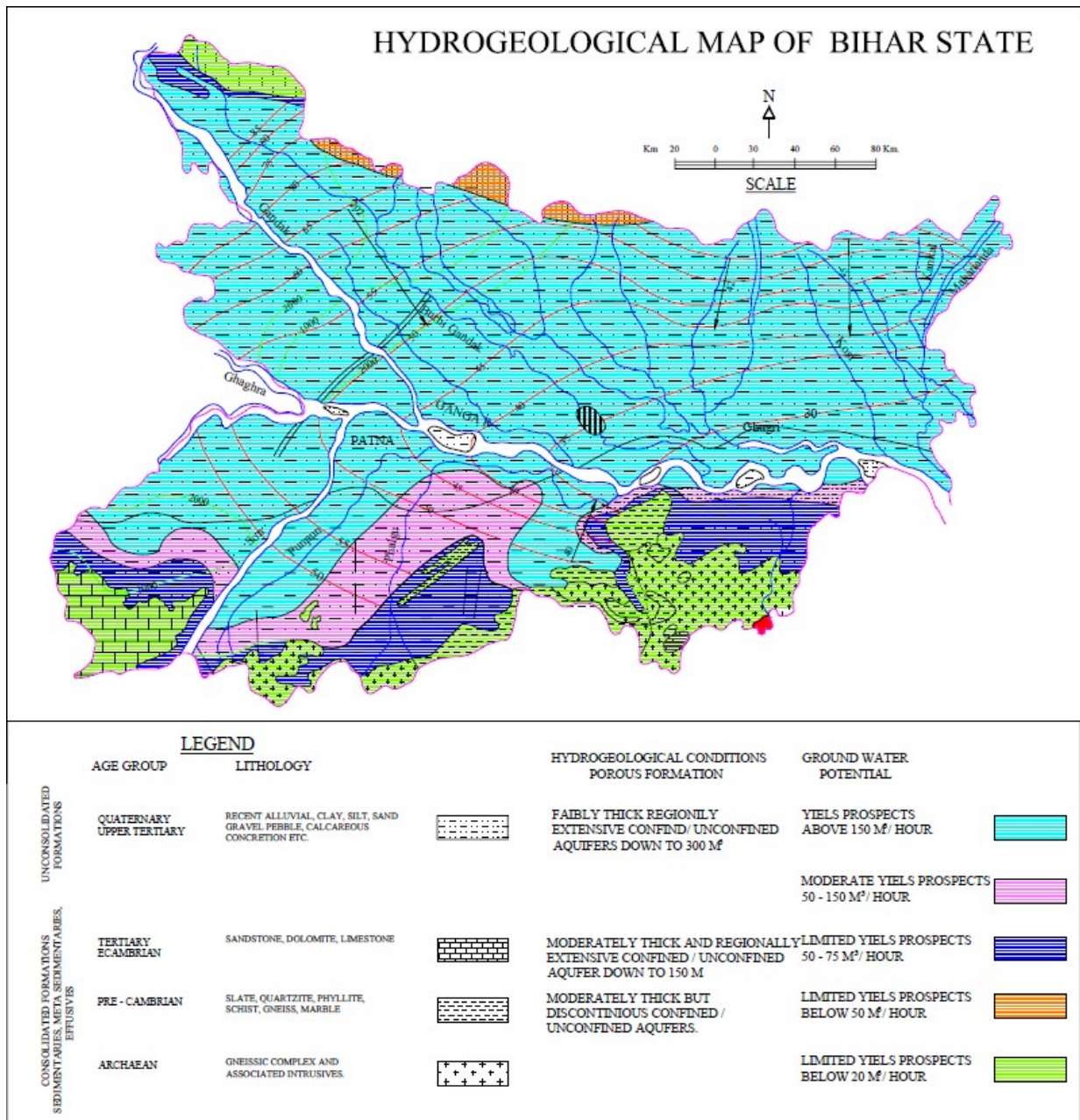


Fig. 2 Hydrogeological Map of Bihar state

3. GROUND WATER SCENARIO

A total of 715 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.

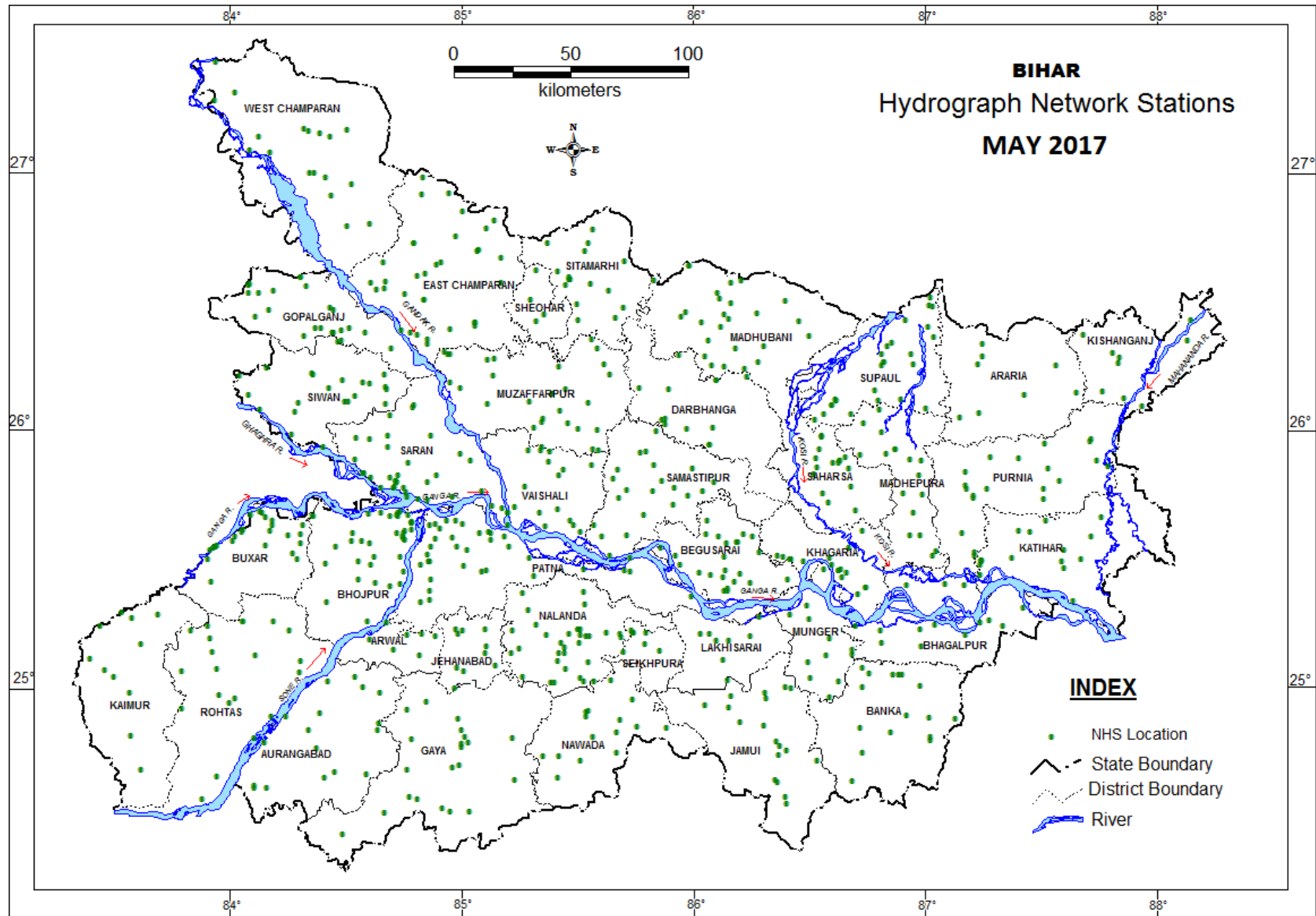


Fig. 3 Location of Hydrograph Network Stations in Bihar state

Table 2 District wise distribution of the HNS as on 31.3.17

Status of GW Monitoring Stations-March 2017			
SN	District	DW	TW
1	Araia	8	
2	Aurangabad	17	
3	Banka	16	
4	Begusarai	24	
5	Bhagalpur	15	3
6	Bhojpur	36	
7	Buxar	25	
8	Darbhanga	13	2
9	Gaya	22	
10	Gopalganj	23	
11	Jamui	19	
12	Jehanabad & Arwal	16	
13	Kaimur/Bhabhua	12	
14	Katihar	16	
15	Khagaria	17	
16	Kishanganj	9	
17	Lakhisarai	7	
18	Madhepura	17	
19	Madhubani	26	
20	Munger	11	
21	Muzaffarpur	27	
22	Nalanda	32	2
23	Nawada	16	
24	W Champaran	18	
25	Patna	36	23
26	E Chamaparan	35	
27	Purnia	20	
28	Rohtas	20	
29	Saharsa	16	
30	Samastipur	20	
31	Saran	34	3
32	Sheikhpura	7	
33	Sheohar	4	
34	Sitamarhi	16	
35	Siwan	21	
36	Supaul	25	
37	Vaishali	19	
Total		715	33

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

Table 3 HNS monitoring schedule

Sl. N.	Month	Date	Period
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

State	May'15	August'15	November'15	January'16
Bihar	659	602	658	643

3.1 DEPTH TO WATER LEVEL

3.1.1 May 2016

During the Pre- Monsoon period (May 2016), 659 HNS were analysed. The Minimum depth to water level is 0.75 m bgl has been observed at, Nalanda district, and maximum depth to water level is 15.80 m bgl has been occurred at Jamui district. The depth to water level rests in range of 2 – 5 m bgl in 59% of the area of Bihar State, which spatially covers northern part of North Bihar Plains (NBP) and as small patches in the South Bihar Plains (SBP). The depth to water level rests in the range of 5 – 10 m bgl in about 38% of the area covering adjoining to the river Ganga, and major parts of SBP. In ~ 3% of area, water level > 10 m bgl has been recorded, which distributed as isolated patches mainly in Kaimur, Rohtas, Jamui, Bhagalpur, Aurangabad, Patna and Banka district. In only 12 Hydrograph Network Station (HNS) which falls in Banka, Madhubani, Nalanda, Nawada, Saran and Supaul district, the depth to water level < 2 m bgl has been recorded (**Fig. 4; Table 5**).

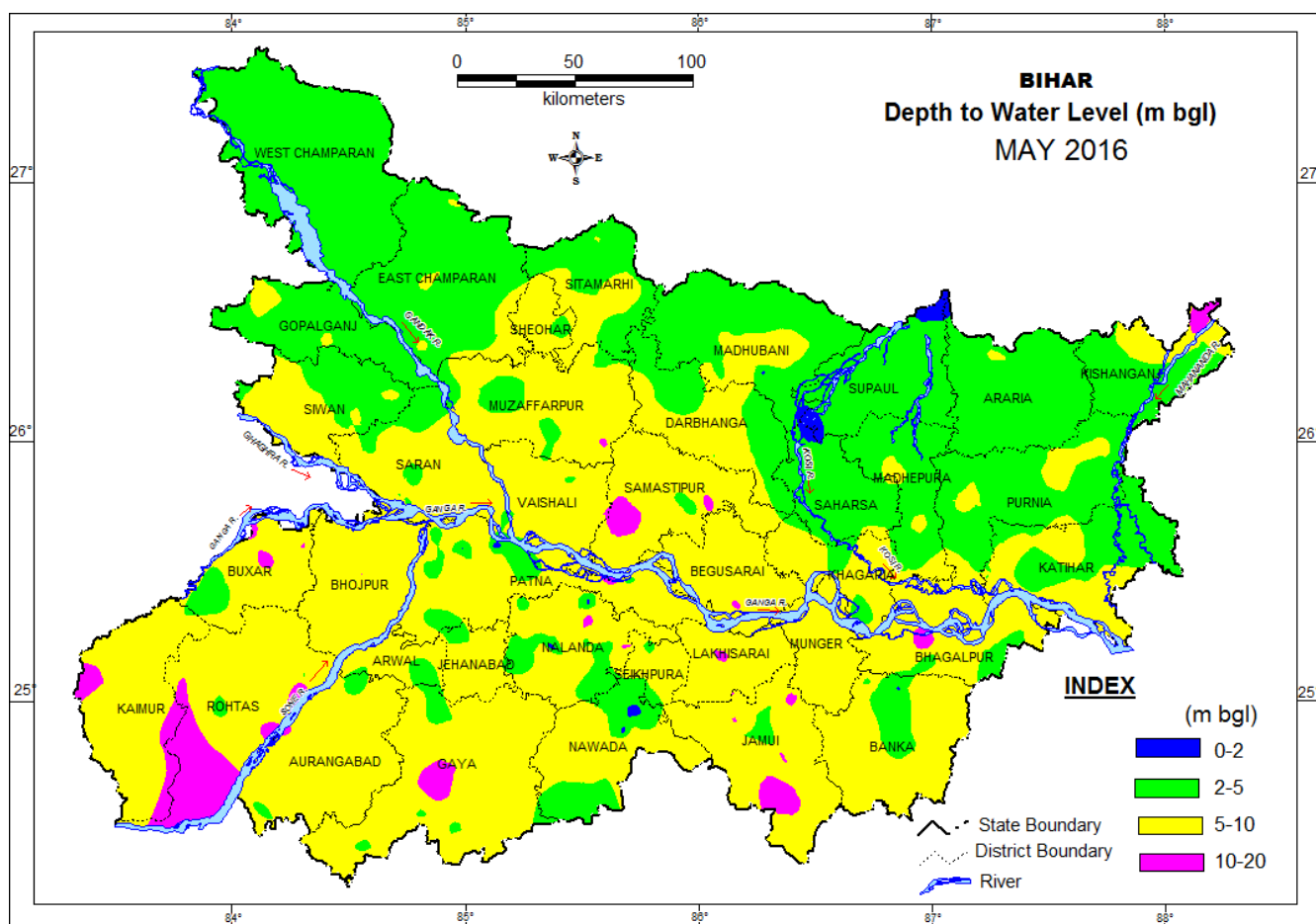


Fig. 4: Depth to water level in May 2016

Table 5 District wise well frequency for different ranges of depth to water level of HNS in May, 2016 in Bihar state

			Depth to water level (m bgl)		0-2 m		2-5 m		5-10 m		10-20 m	
			Min.	Max.	No.	%	No.	%	No.	%	No.	%
1	Araria	9	2.23	5.73	0	0	8	89	1	11	0	0
2	Aurangabad	15	3.64	10.20	0	0	2	13	12	80	1	7
3	Banka	12	1.78	8.90	1	8	3	25	8	67	0	0
4	Begusarai	23	5.45	11.30	0	0	0	0	22	96	1	4
5	Bhagalpur	14	4.02	13.07	0	0	2	14	11	79	1	7
6	Bhojpur	35	5.15	10.15	0	0	0	0	34	97	1	3
7	Buxar	25	2.16	11.45	0	0	2	8	20	80	3	12
8	Darbhanga	10	2.77	9.00	0	0	3	30	7	70	0	0
9	Gaya	23	4.15	14.80	0	0	4	17	18	78	1	4
10	Gopalganj	21	2.48	6.32	0	0	17	81	4	19	0	0
11	Jamui	20	3.95	15.80	0	0	4	20	7	35	9	45
12	Jehanabad	15	3.63	9.20	0	0	4	27	11	73	0	0
13	Kaimur	7	5.59	10.40	0	0	0	0	6	86	1	14
14	Katihar	17	4.05	9.70	0	0	7	41	10	59	0	0
15	Khagaria	16	3.24	8.40	0	0	2	13	14	88	0	0
16	Kishanganj	9	3.02	10.52	0	0	8	89	0	0	1	11
17	Lakhisarai	7	8.07	11.52	0	0	0	0	6	86	1	14
18	Madhepura	16	2.85	6.30	0	0	12	75	4	25	0	0
19	Madhubani	26	1.65	9.84	1	4	19	73	6	23	0	0
20	Munger	7	5.17	8.66	0	0	0	0	7	100	0	0
21	Muzaffarpur	24	3.03	10.40	0	0	5	21	18	75	1	4
22	Nalanda	33	0.75	11.44	2	6	12	36	17	52	2	6
23	Nawada	17	1.55	9.24	2	12	3	18	12	71	0	0
24	W Champaran	14	2.39	5.01	0	0	13	93	1	7	0	0
25	Patna	27	1.19	10.64	2	7	8	30	16	59	1	4
26	E Champaran	27	2.07	5.44	0	0	23	85	4	15	0	0
27	Purnia	19	2.04	6.63	0	0	11	58	8	42	0	0
28	Rohtas	17	3.49	12.07	0	0	2	12	10	59	5	29
29	Saharsa	15	2.05	4.92	0	0	15	100	0	0	0	0
30	Samastipur	18	3.98	15.00	0	0	2	11	14	78	2	11
31	Saran	31	1.81	9.82	1	3	7	23	23	74	0	0
32	Seikhpura	7	3.34	9.90	0	0	1	14	6	86	0	0
33	Sheohar	4	4.55	7.00	0	0	1	25	3	75	0	0
34	Sitamarhi	16	3.42	6.76	0	0	9	56	7	44	0	0
35	Siwan	21	3.60	10.73	0	0	11	52	9	43	1	5
36	Supaul	25	1.13	4.70	3	12	22	88	0	0	0	0
37	Vaishali	17	4.10	9.28	0	0	2	12	15	88	0	0
	Total	659	0.75	15.80	12	2	244	37	371	56	32	5

3.1.2 August 2016

During mid-monsoon (August 2016), a total of 602 HNS were monitored. The depth to water level has been found to vary between 0.05 m bgl (Saran district) and 11.80 m bgl (Jamui district). The depth to water level varies in the range of 0 – 2 m bgl covers in about 28% area due to monsoon rainfall. It spatially covers the major part and bordering area of Madhubani, Supaul, Madhepura, Kishanganj, Araria, Banka, Saharsa E & W Champaran district, small parts of Rohtas, Kaimur, Gopalganj, Sheohar, Sheikhpura, Sitamarhi, Katihar Jamui Nalanda and Purnia district and as patches in many other part of the State.

Range of depth to water level 2-5 m bgl covers major part (63%) of the state except major part of E & W Champaran Saharsa Araria, Supaul, Madhepura, Kishanganj, and small patches in districts of south Bihar where the the water level range of less than 2 mbgl has been observed. The major part of Kaimur and Vaishali district, Parts of Samastipur, Saran, Katihar, Jamui and other part as patches, the depth to water level rests in the range of 5 to 10 m bgl which forms about 9% of the area of the State. Only 2 wells located in Jamui district have shown water level more than 10 m bgl. (Fig. 5; Table 6)

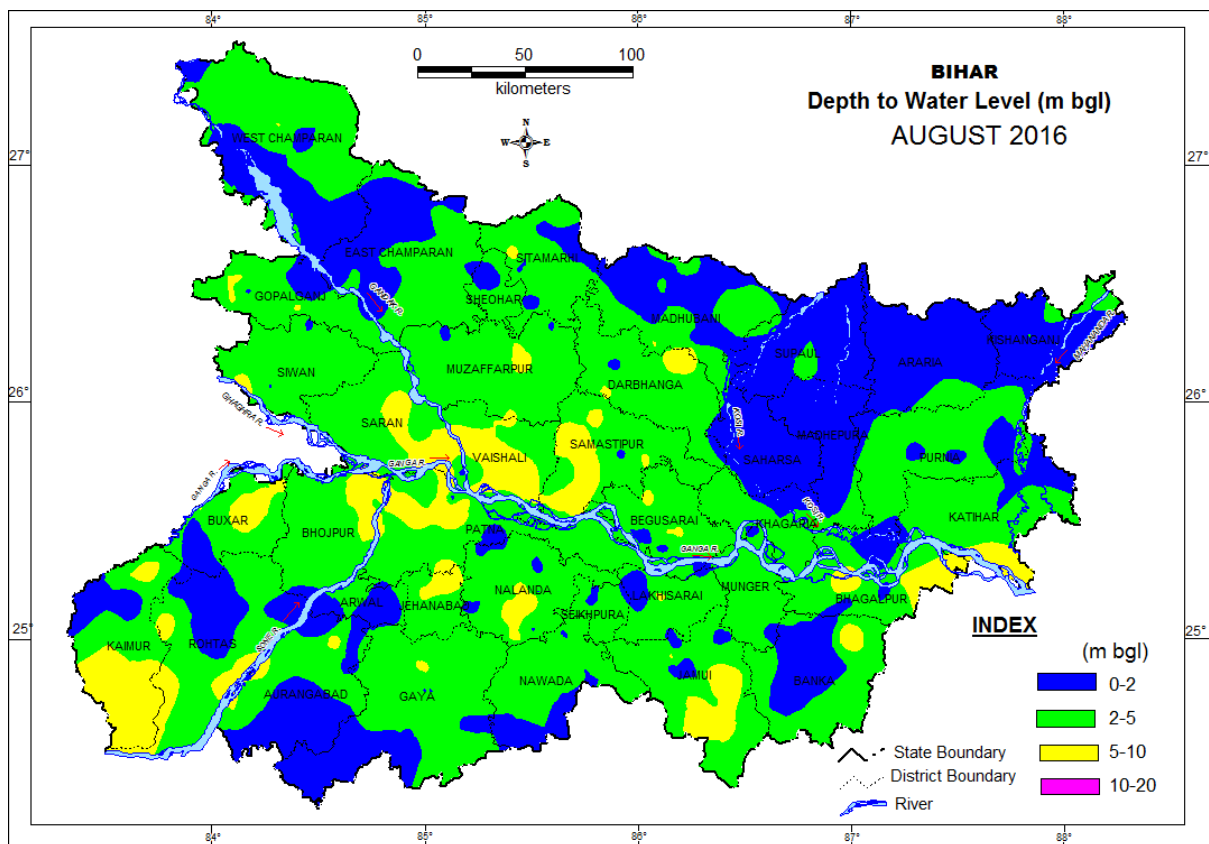


Fig. 5: Depth to water level in August 2016

			Depth to water level (m bgl)		0-2 m		2-5 m		5-10 m		10-20 m	
			Min.	Max.	No.	%	No.	%	No.	%	No.	%
1	Araria	9	1.00	2.01	8	89	1	11	0	0	0	0
2	Aurangabad	13	0.05	6.92	8	62	3	23	2	15	0	0
3	Banka	13	0.38	7.02	7	54	5	38	1	8	0	0
4	Begusarai	24	1.68	5.82	3	13	18	75	3	13	0	0
5	Bhagalpur	9	0.23	8.20	4	44	3	33	2	22	0	0
6	Bhojpur	18	1.99	8.20	1	6	9	50	8	44	0	0
7	Buxar	12	1.02	7.02	2	17	6	50	4	33	0	0
8	Darbhanga	15	1.70	8.18	1	7	11	73	3	20	0	0
9	Gaya	21	0.50	5.48	9	43	11	52	1	5	0	0
10	Gopalganj	22	0.73	6.32	3	14	15	68	4	18	0	0
11	Jamui	19	1.03	11.80	5	26	6	32	6	32	2	11
12	Jehanabad	11	0.68	7.12	3	27	6	55	2	18	0	0
13	Kaimur	9	0.55	8.86	3	33	4	44	2	22	0	0
14	Katihar	14	1.05	7.11	4	29	9	64	1	7	0	0
15	Khagaria	17	1.58	5.07	2	12	14	82	1	6	0	0
16	Kishanganj	8	0.46	3.50	6	75	2	25	0	0	0	0
17	Lakhisarai	7	0.21	5.87	2	29	4	57	1	14	0	0
18	Madhepura	8	0.51	3.90	5	63	3	38	0	0	0	0
19	Madhubani	25	0.55	5.15	16	64	8	32	1	4	0	0
20	Munger	7	1.45	3.73	2	29	5	71	0	0	0	0
21	Muzaffarpur	26	1.50	6.20	2	8	23	88	1	4	0	0
22	Nalanda	32	1.32	9.93	6	19	17	53	9	28	0	0
23	Nawada	16	1.38	4.93	4	25	12	75	0	0	0	0
24	W Champaran	16	0.88	5.08	9	56	6	38	1	6	0	0
25	Patna	17	1.29	9.42	2	12	9	53	6	35	0	0
26	E Champaran	26	0.31	4.74	12	46	14	54	0	0	0	0
27	Purnia	19	0.57	4.58	4	21	15	79	0	0	0	0
28	Rohtas	17	0.47	8.38	9	53	5	29	3	18	0	0
29	Saharsa	16	0.36	1.71	16	100	0	0	0	0	0	0
30	Samastipur	19	1.50	9.30	1	5	10	53	8	42	0	0
31	Saran	26	0.50	6.04	1	4	19	73	6	23	0	0
32	Seikhpura	7	1.23	6.23	2	29	4	57	1	14	0	0
33	Sheohar	4	1.50	2.90	1	25	3	75	0	0	0	0
34	Sitamarhi	16	0.64	6.10	7	44	8	50	1	6	0	0
35	Siwan	19	1.74	6.17	1	5	17	89	1	5	0	0
36	Supaul	26	0.31	2.86	23	88	3	12	0	0	0	0
37	Vaishali	19	2.51	6.96	0	0	10	53	9	47	0	0
	Total	602	0.05	11.80	194	32	318	53	88	15	2	0

3.1.3 November 2016

Total 658 HNS wells were analysed during post-monsoon period (November 2016). The minimum and the maximum depth to water levels have been recorded as 0.02 m bgl (Patna district) and 14.50 m bgl (Jamui district) respectively. In major area of the State (83%) 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 8 % of the area, which occurs in part of Samastipur, Muzaffarpur, Aurangabad, Jamui, Banka, and Bhagalpur district and many other places as small patches. The water level in the range of 0 – 2 m bgl has been observed in only 18% of HNS, spatially covers as small patches at many locations (Aurangabad, Araria, Jamui, Banka, Sitamarhi, Nawada, E & W Champaran). There are only 1% HNS stations are there where level has been observed more than 10 m bgl (**Fig. 6; Table 7**).

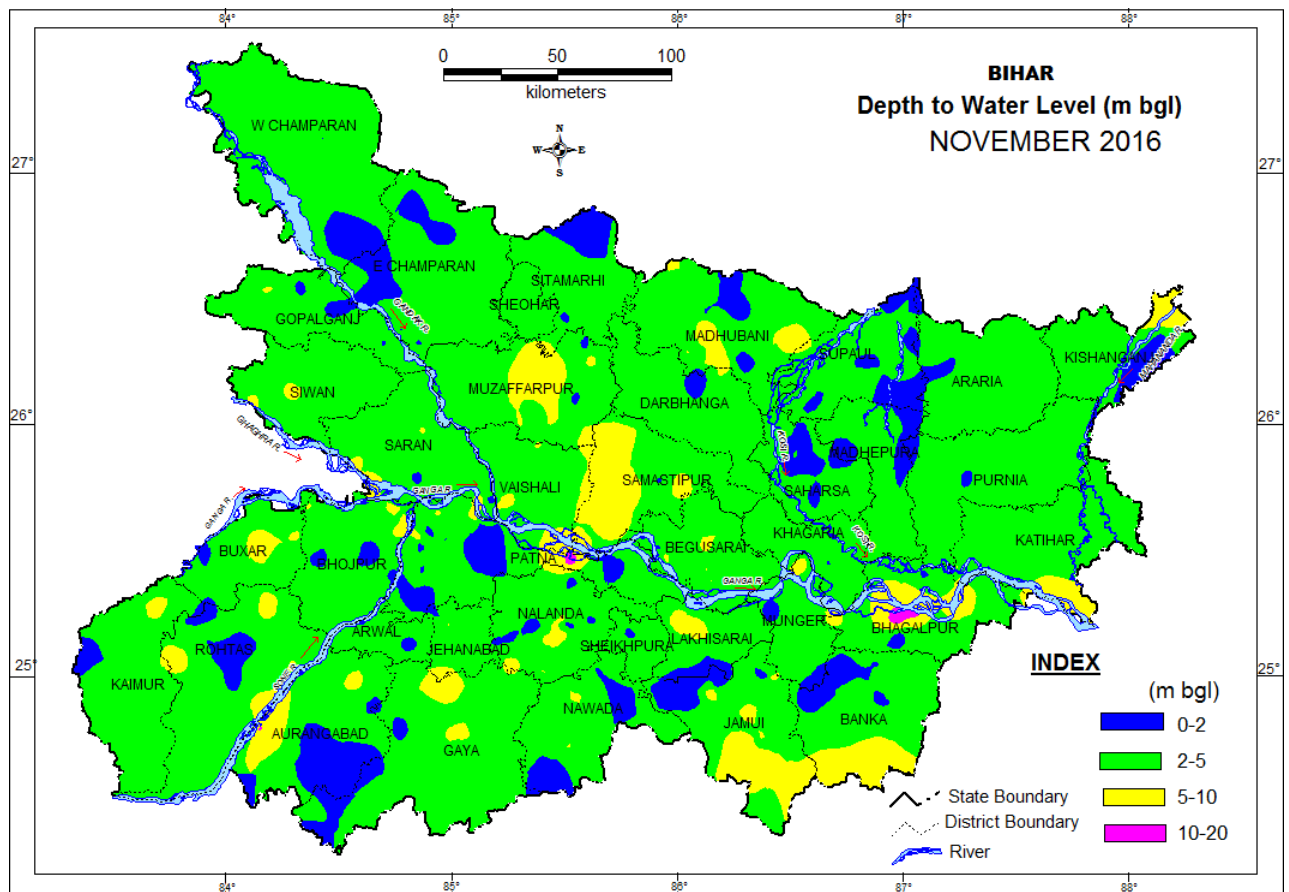


Fig. 6: Depth to water level in November 2016

Table 7 District wise well frequency for different ranges of depth to water level of HNS in Nov. 2016 in Bihar state												
			Depth to water level (m bgl)		0-2 m		2-5 m		5-10 m		10-20 m	
			Min.	Max.	No.	%	No.	%	No.	%	No.	%
1	Araria	9	1.95	3.28	1	11	8	89	0	0	0	0
2	Aurangabad	16	0.58	10.30	6	38	7	44	2	13	1	6
3	Banka	11	1.21	8.60	3	27	7	64	1	9	0	0
4	Begusarai	23	1.70	5.48	2	9	15	65	6	26	0	0
5	Bhagalpur	14	0.91	12.31	2	14	7	50	3	21	2	14
6	Bhojpur	35	0.70	7.45	4	11	22	63	9	26	0	0
7	Buxar	24	1.18	6.11	3	13	19	79	2	8	0	0
8	Darbhanga	9	0.57	4.42	1	11	8	89	0	0	0	0
9	Gaya	18	1.65	8.00	2	11	13	72	3	17	0	0
10	Gopalganj	22	1.30	5.35	3	14	18	82	1	5	0	0
11	Jamui	19	0.48	14.50	5	26	6	32	5	26	3	16
12	Arwal & Jehanabad	16	1.72	5.17	2	13	13	81	1	6	0	0
13	Kaimur	10	1.43	5.92	1	10	7	70	2	20	0	0
14	Katihar	15	2.13	6.25	0	0	13	87	2	13	0	0
15	Khagaria	15	1.90	4.90	1	7	14	93	0	0	0	0
16	Kishanganj	8	1.40	8.15	2	25	5	63	1	13	0	0
17	Lakhisarai	8	2.10	8.10	0	0	5	63	3	38	0	0
18	Madhepura	16	1.33	4.00	3	19	13	81	0	0	0	0
19	Madhubani	23	0.50	6.40	4	17	12	52	7	30	0	0
20	Munger	10	1.02	5.43	3	30	6	60	1	10	0	0
21	Muzaffarpur	23	1.06	6.79	2	9	13	57	8	35	0	0
22	Nalanda	33	0.60	6.95	8	24	17	52	8	24	0	0
23	Nawada	15	1.24	5.73	3	20	9	60	3	20	0	0
24	W Champaran	12	1.33	4.64	2	17	10	83	0	0	0	0
25	Patna	32	0.02	11.47	15	47	13	41	3	9	1	3
26	E Champaran	31	1.22	4.98	8	26	23	74	0	0	0	0
27	Purnia	20	1.88	4.30	1	5	19	95	0	0	0	0
28	Rohtas	21	1.44	9.76	6	29	11	52	4	19	0	0
29	Saharsa	14	1.05	3.25	7	50	7	50	0	0	0	0
30	Samastipur	17	1.65	7.68	1	6	7	41	9	53	0	0
31	Saran	32	0.48	9.20	3	9	23	72	6	19	0	0
32	Seikhpura	7	1.28	4.80	2	29	5	71	0	0	0	0
33	Sheohar	2	2.50	4.09	0	0	2	100	0	0	0	0
34	Sitamarhi	16	0.56	4.11	4	25	12	75	0	0	0	0
35	Siwan	20	2.11	5.70	0	0	18	90	2	10	0	0
36	Supaul	24	1.30	4.51	11	46	13	54	0	0	0	0
37	Vaishali	18	2.25	5.79	0	0	14	78	4	22	0	0
	Total	658	0.02	14.50	121	18	434	66	96	15	7	1

3.1.0 January 2017

During the recession period (Jan. 2017), 643 HNS were analysed. The minimum depth to water level of 0.16 m below ground level (bgl) has been observed in Sitamarhi district, and maximum water level of 13.25 m bgl has been observed in the Bhagalpur district. The depth to water level rests in range of 2 – 5 m bgl in major part (77% area) of Bihar State. The depth to water level rests in the range of 5 – 10 m bgl in 20% of the area covering adjoining area and major part of Lakhisarai, Muzaffarpur, Saran, Jamui, Samastipur, Begusarai, Gaya, Aurangabad, Rohtas, Kaimur, Bauxer and many locations as patches. Only in 7 wells located in Aurangabad, Bhagalpur, Jamui, and Rohtas district depth to water level >10m bgl has been observed. (Fig.7; Table 8).

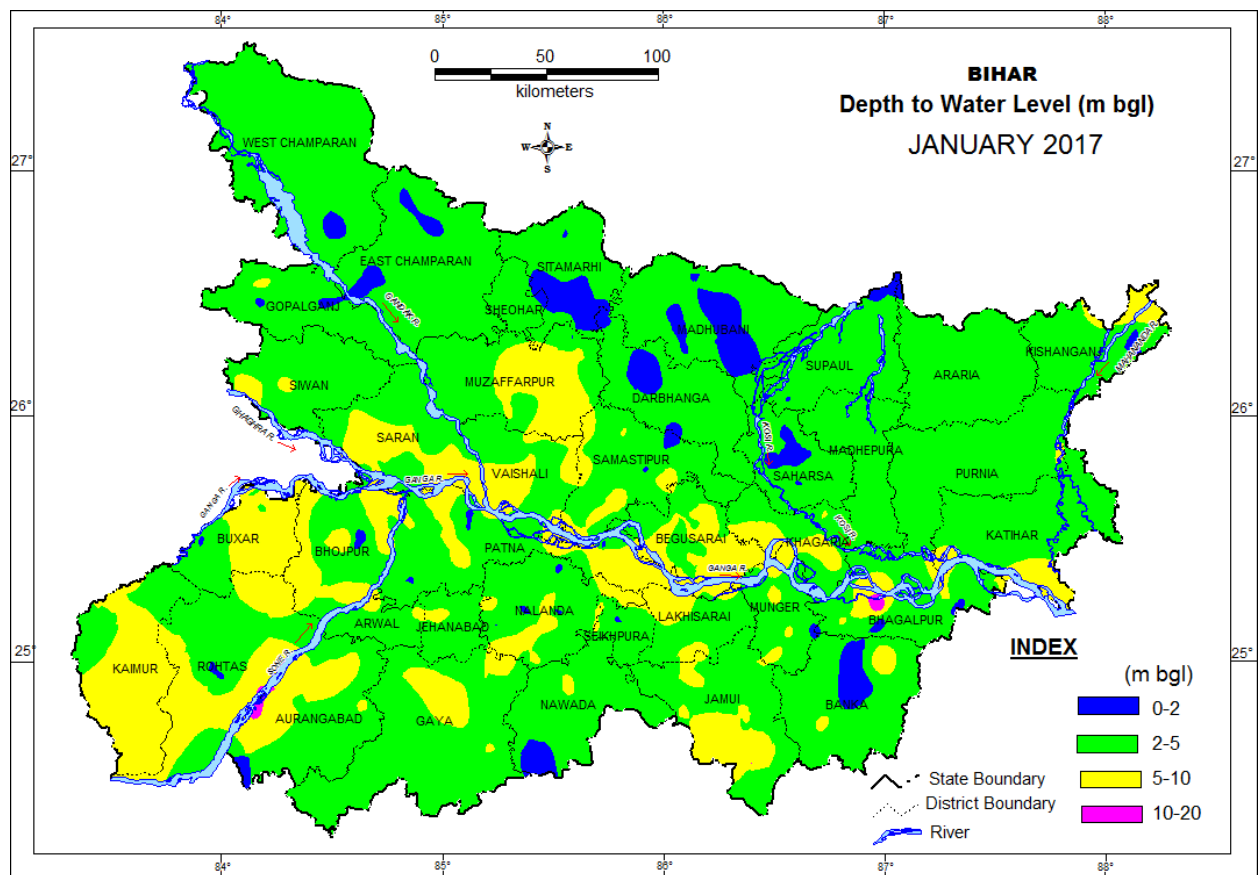


Fig. 7: Depth to water level in January 2017

Table 8 District wise well frequency for different ranges of depth to water level of HNS in **Jan. 2017** in Bihar state

			Depth to water level (m bgl)		0-2 m		2-5 m		5-10 m		10-20 m	
			Min.	Max.	No.	%	No.	%	No.	%	No.	%
1	Araria	8	2.32	3.95	0	0	8	100	0	0	0	0
2	Aurangabad	17	0.82	10.79	1	6	11	65	3	18	2	12
3	Banka	15	0.58	7.02	5	33	8	53	2	13	0	0
4	Begusarai	24	3.43	7.24	0	0	12	50	12	50	0	0
5	Bhagalpur	14	1.13	13.25	3	21	8	57	2	14	1	7
6	Bhojpur	35	0.62	8.90	2	6	13	37	20	57	0	0
7	Buxar	24	1.43	8.50	1	4	9	38	14	58	0	0
8	Darbhanga	7	0.19	4.08	2	29	5	71	0	0	0	0
9	Gaya	16	2.65	6.33	0	0	12	75	4	25	0	0
10	Gopalganj	21	1.43	5.90	2	10	18	86	1	5	0	0
11	Jamui	19	1.98	12.56	1	5	9	47	6	32	3	16
12	Jehanabad	14	2.18	5.91	0	0	11	79	3	21	0	0
13	Kaimur	9	2.79	8.44	0	0	3	33	6	67	0	0
14	Katihar	15	2.94	7.05	0	0	13	87	2	13	0	0
15	Khagaria	15	1.97	6.60	1	7	3	20	11	73	0	0
16	Kishanganj	8	1.82	9.50	1	13	6	75	1	13	0	0
17	Lakhisarai	7	2.45	7.29	0	0	4	57	3	43	0	0
18	Madhepura	17	2.16	4.57	0	0	17	100	0	0	0	0
19	Madhubani	24	0.26	4.45	8	33	16	67	0	0	0	0
20	Munger	9	2.37	6.65	0	0	5	56	4	44	0	0
21	Muzaffarpur	21	1.88	7.07	1	5	12	57	8	38	0	0
22	Nalanda	32	0.73	7.96	5	16	16	50	11	34	0	0
23	Nawada	15	1.33	6.68	1	7	13	87	1	7	0	0
24	W Champaran	13	1.67	4.63	1	8	12	92	0	0	0	0
25	Patna	28	1.23	7.66	5	18	10	36	13	46	0	0
26	E Champaran	30	1.32	4.97	4	13	26	87	0	0	0	0
27	Purnia	19	2.19	5.26	0	0	18	95	1	5	0	0
28	Rohtas	17	1.50	10.41	2	12	8	47	6	35	1	6
29	Saharsa	18	1.18	2.92	7	39	11	61	0	0	0	0
30	Samastipur	19	1.72	7.12	1	5	12	63	6	32	0	0
31	Saran	28	2.70	6.61	0	0	14	50	14	50	0	0
32	Seikhpura	7	1.76	6.06	1	14	3	43	3	43	0	0
33	Sheohar	3	2.37	3.44	0	0	3	100	0	0	0	0
34	Sitamarhi	16	-0.16	3.78	7	44	9	56	0	0	0	0
35	Siwan	18	2.60	5.80	0	0	15	83	3	17	0	0
36	Supaul	24	1.33	4.96	2	8	22	92	0	0	0	0
37	Vaishali	17	2.59	7.01	0	0	9	53	8	47	0	0
	Total	643	-0.16	13.25	64	10	404	63	168	26	7	1

3.2 SEASONAL FLUCTUATION

3.2.1 May 2016 to August 2016

Water level fluctuation between May 2016 and August 2016 has been analysed for 551 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 516 (94%) HNS whereas the fall is observed only in 28 (6%) HNS. Majority of HNS (37%) have shown the rise of water level in the range of 2 to 4 m constituting 43% area of the State including Buxar, Bhojpur, Arwal, Jehanabad, Nawada, Jamui, Banka, Katihar, Kishanganj, Madhepura Samastipur, Sheohar, W Champaran district, and many other small parts of the state. Rise of water level up to 2 m has been recorded in 35% (191 wells) NHS wells, covering major parts of Saran, Vaishali, Muzaffarpur, Siwan, Gopalganj, Purnia, Supaul and W Champaran 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 Rohtas Aurangabad, Gaya, Lakhisarai, Banka, Munger district rise of water level more than 4m has been recorded.

Few wells located in Kaimur, Patna, Saran, Muzaffarpur, Gopalganj, W Champaran, Jamui, Nalanda and Nawada district have shown fall in water level <2m. Only 3 wells located in Patna, Nalanda and Jamui district shows fall in water level in the range of 2-4 m due to some local problem. (Fig.8; Table 9).

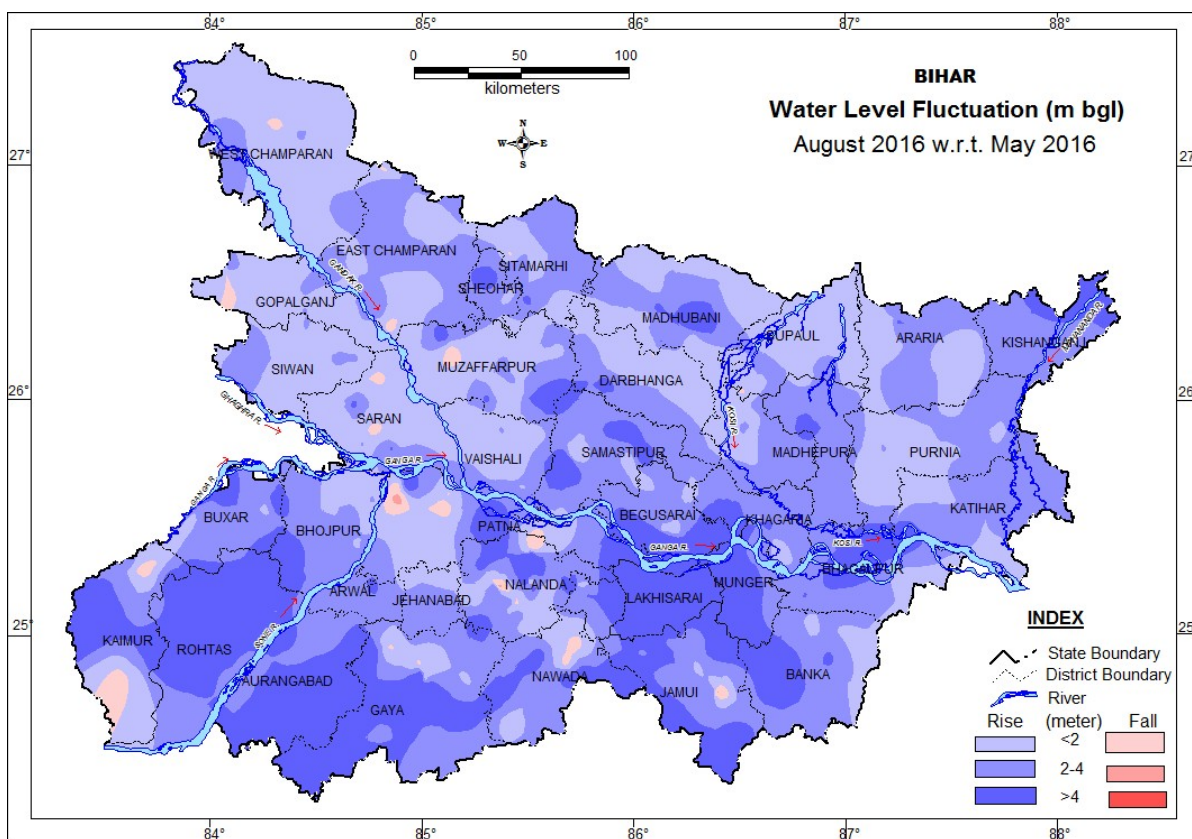


Fig. 7 Water level Fluctuation between May 2016 and August 2016

Table – 9 District wise categorization of fluctuation and their frequency of water levels of HNS of Aug. 2016 w.r.t. May 2016

			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	1.13	4.33	0	0	5	63	2	25	1	13	0	0	0	0	0	0	8	0
2	Aurangabad	12	2.52	7.98	0	0	0	0	3	25	9	75	0	0	0	0	0	0	12	0
3	Banka	11	0.28	6.88	0	0	4	36	5	45	2	18	0	0	0	0	0	0	11	0
4	Begusarai	23	0.9	8.69	0	0	5	22	8	35	10	43	0	0	0	0	0	0	23	0
5	Bhagalpur	8	1.34	6.14	0	0	1	13	3	38	4	50	0	0	0	0	0	0	8	0
6	Bhojpur	17	0.58	3.96	0.01	0.01	8	47	7	41	0	0	1	6	0	0	0	0	15	1
7	Buxar	12	1.06	5.9	0	0	2	17	6	50	4	33	0	0	0	0	0	0	12	0
8	Darbhanga	10	1.07	5.3	0.07	0.07	2	20	5	50	1	10	1	10	0	0	0	0	8	1
9	Gaya	21	1.46	6.81	0.2	0.23	2	10	4	19	13	62	2	10	0	0	0	0	19	2
10	Gopalganj	21	0.38	2.62	0.04	0.4	13	62	5	24	0	0	2	10	0	0	0	0	18	2
11	Jamui	18	1.6	9.74	1.38	2.25	1	6	8	44	7	39	1	6	1	6	0	0	16	2
12	Jehanabad	9	0.16	4.39	0	0	2	22	6	67	1	11	0	0	0	0	0	0	9	0
13	Kaimur	6	2.81	9.5	0.66	1.06	0	0	1	17	3	50	2	33	0	0	0	0	4	2
14	Katihar	14	1.17	8.14	0	0	5	36	8	57	1	7	0	0	0	0	0	0	14	0
15	Khagaria	16	0.19	5.74	0	0	3	19	5	31	8	50	0	0	0	0	0	0	16	0
16	Kishanganj	7	2.17	7.02	0	0	0	0	6	86	1	14	0	0	0	0	0	0	7	0
17	Lakhisarai	6	4.5	8.78	0	0	0	0	0	0	6	100	0	0	0	0	0	0	6	0
18	Madhepura	8	2	4.65	0	0	0	0	7	88	1	13	0	0	0	0	0	0	8	0
19	Madhubani	24	0.42	8.12	0	0	11	46	10	42	3	13	0	0	0	0	0	0	24	0
20	Munger	3	4.33	5.6	0	0	0	0	0	0	3	100	0	0	0	0	0	0	3	0
21	Muzaffarpur	24	0.36	6.4	0.99	0.99	12	50	7	29	4	17	1	4	0	0	0	0	23	1
22	Nalanda	32	0.15	10.03	0.4	2.48	10	31	11	34	7	22	2	6	1	3	0	0	28	3
23	Nawada	16	0.85	5.52	0.5	0.53	3	19	4	25	7	44	2	13	0	0	0	0	14	2
24	W. Champaran	14	0.8	2.74	0.21	0.21	8	57	5	36	0	0	1	7	0	0	0	0	13	1
25	Patna	12	1.07	7.08	0.16	2.8	4	33	1	8	2	17	3	25	1	8	0	0	7	4
26	E. Champaran	24	0.46	3.71	0.13	0.46	12	50	10	42	0	0	2	8	0	0	0	0	22	2
27	Purnia	18	0.47	3.39	0.01	0.01	9	50	8	44	0	0	1	6	0	0	0	0	17	1
28	Rohtas	15	2.12	9.18	0	0	0	0	3	20	12	80	0	0	0	0	0	0	15	0
29	Saharsa	14	1.15	3.21	0	0	5	36	9	64	0	0	0	0	0	0	0	0	14	0
30	Samastipur	16	0.78	10.8	0	0	1	6	11	69	3	19	0	0	0	0	0	0	15	0
31	Saran	25	0.53	4.7	0.22	0.59	14	56	6	24	3	12	2	8	0	0	0	0	23	2
32	Seikhpura	7	0.28	6.29	0	0	2	29	2	29	3	43	0	0	0	0	0	0	7	0
33	Sheohar	4	1.65	5.5	0	0	1	25	2	50	1	25	0	0	0	0	0	0	4	0
34	Sitamarhi	16	0.33	4.66	0.14	0.14	4	25	10	63	1	6	1	6	0	0	0	0	15	1
35	Siwan	18	0.39	3.1	0	0	11	61	6	33	0	0	0	0	0	0	0	0	17	0
36	Supaul	25	0.47	2.61	0.14	0.14	20	80	4	16	0	0	1	4	0	0	0	0	24	1
37	Vaishali	17	0.17	4.07	0	0	11	65	5	29	1	6	0	0	0	0	0	0	17	0
	Total	551	0.15	10.80	0	2.8	191	35	203	37	122	22	25	5	3	1	0	0	516	28

3.2.2 May 2016 to November 2016

Water level fluctuations between May 2016 and November 2016 has been analysed for 608 HNS. The rise of water level observed in 573 (94%) HNS ranged from 0.04 (Madhubani) to 10.1 m (Jamui) whereas, only 30 (5%) HNS have shown fall in water level ranged from 0.01 (Supaul) to 4.22 m (Bhagalpur). The majority of HNS (240 well, 39%) have shown rise in the range of 0-2 m whereas the 195 and 138 NHS have shown rise in water level in the range of 2-4 m and >4m respectively.

About 97 % area of the State has shown rise in water level. The 0-2 m segment covering 41% area of the state has spread in the major part and a larger area in north-eastern part of NBP and in the adjoining part of Nawada Jamui Lakhisarai, Bhagalpur Munger and Banka in SBP and in many other localised area of the State. About 38% area covering major part of SBP and parts of Samastipur, E Champaran, Madhepura, Darbhanga, Vaishali, Sitamarhi and Purnia district in NBP has shown water level in the range of 2-4 m. The areas covering part of Nawada, Jamui, Lakhisarai, Munger, Bhojpur, Kaimur, Rohtas, Aurangabad and Patna 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 Banka, Madhubani, Supaul, E Champaran, Patna, Bhagalpur district) in the State. **(Fig 9, Table 10).**

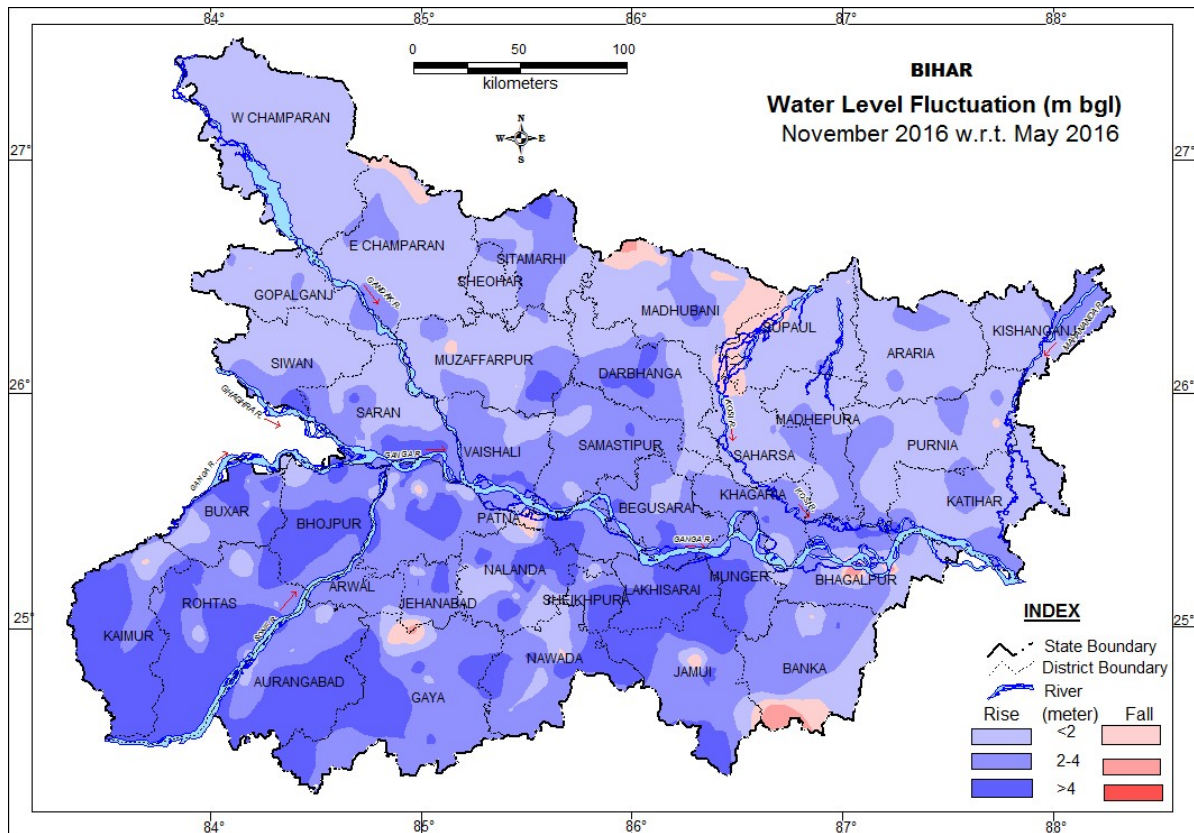


Fig. 9: Fluctuation in ground water level between May 2016 and Nov. 2016.

Table – 10 District wise categorization of fluctuation and their frequency of water levels of HNS of Nov. 2016 w.r.t. May 2016

		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	8	0.72	3.28			6	75	2	25	0	0	0	0	0	0	0	0	8	0
Aurangabad	14	1.2	6.82			3	21	4	29	7	50	0	0	0	0	0	0	14	0
Banka	10	0.55	4.12	0.26	3.56	4	40	3	30	1	10	1	10	1	10	0	0	8	2
Begusarai	23	0.57	6.15			5	22	11	48	7	30	0	0	0	0	0	0	23	0
Bhagalpur	13	0.66	4.61	3.01	4.22	5	38	4	31	2	15	0	0	1	8	1	8	11	2
Bhojpur	34	0.11	6.65	0.18	0.18	2	6	19	56	12	35	1	3	0	0	0	0	33	1
Buxar	24	0.98	8			4	17	6	25	14	58	0	0	0	0	0	0	24	0
Darbhanga	9	0.46	5.69			4	44	2	22	3	33	0	0	0	0	0	0	9	0
Gaya	18	1.44	7.19	0.45	2.75	2	11	5	28	9	50	1	6	1	6	0	0	16	2
Gopalganj	20	0.52	2.65	0.07	0.07	15	75	4	20	0	0	1	5	0	0	0	0	19	1
Jamui	19	1.04	10.1	2.05	3.66	1	5	7	37	9	47	0	0	2	11	0	0	17	2
Jehanabad	14	1.23	5.18			2	14	9	64	3	21	0	0	0	0	0	0	14	0
Kaimur	7	2.83	8.97	0.33	0.33	0	0	2	29	4	57	1	14	0	0	0	0	6	1
Katihar	15	1.02	4.64			6	40	8	53	1	7	0	0	0	0	0	0	15	0
Khagaria	14	0.04	4.73			3	21	9	64	2	14	0	0	0	0	0	0	14	0
Kishanganj	7	0.57	2.92			5	71	2	29	0	0	0	0	0	0	0	0	7	0
Lakhisarai	7	3.42	6.93			0	0	3	43	4	57	0	0	0	0	0	0	7	0
Madhepura	16	0.07	3.87			8	50	8	50	0	0	0	0	0	0	0	0	16	0
Madhubani	22	0.04	4.83	0.3	2.71	11	50	4	18	1	5	3	14	2	9	0	0	16	5
Munger	7	2.17	5.79			0	0	3	43	4	57	0	0	0	0	0	0	7	0
Muzaffarpur	23	0.11	5.51	0.06	0.7	13	57	5	22	3	13	2	9	0	0	0	0	21	2
Nalanda	32	0.39	8.21			9	28	10	31	9	28	0	0	0	0	0	0	28	0
Nawada	15	0.8	6.74	0.62	0.62	5	33	4	27	5	33	1	7	0	0	0	0	14	1
W Champaran	9	0.15	1.62			9	100	0	0	0	0	0	0	0	0	0	0	9	0
Patna	24	0.58	7.58	0.19	1.69	4	17	8	33	9	38	3	13	0	0	0	0	21	3
E Champaran	26	0.1	2.65	0.52	0.78	18	69	5	19	0	0	3	12	0	0	0	0	23	3
Purnia	19	0.95	3.15	0.2	0.38	12	63	5	26	0	0	2	11	0	0	0	0	17	2
Rohtas	17	0.51	8.73			4	24	2	12	11	65	0	0	0	0	0	0	17	0
Saharsa	13	0.7	2.18			12	92	1	8	0	0	0	0	0	0	0	0	13	0
Samastipur	15	1.3	4.24			3	20	11	73	1	7	0	0	0	0	0	0	15	0
Saran	29	0.85	6.8			16	55	6	21	7	24	0	0	0	0	0	0	29	0
Seikhpura	7	0.54	6.93			3	43	1	14	3	43	0	0	0	0	0	0	7	0
Sheohar	2	0.46	2.83			1	50	1	50	0	0	0	0	0	0	0	0	2	0
Sitamarhi	16	0.69	4.46			6	38	9	56	1	6	0	0	0	0	0	0	16	0
Siwan	20	0.19	8.13			14	70	5	25	1	5	0	0	0	0	0	0	20	0
Supaul	23	0.19	2.36	0.01	1.27	19	83	1	4	0	0	3	13	0	0	0	0	20	3
Vaishali	17	0.9	4.78			6	35	6	35	5	29	0	0	0	0	0	0	17	0
Total	608	0.04	10.10	0.01	4.22	240	39	195	32	138	23	22	4	7	1	1	0	573	30

3.2.3 May 2016 to January 2017

Water level fluctuation between May 2016 and January 2017 has been analysed for 583 HNS which indicates rise in water level in about 90 % (524 wells) of the HNS. The rise in water level in the range of 0 – 2 m in 49 % of the HNS, 2 – 4 m in 30% of the HNS and >4 m only in 10% HNS. The fall in water level has been observed in 57 wells (9%), all are in the range of 0-2 m fall. About 56% 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 and Siwan districts and some other parts of Bihar State. The range of 2 to 4 m rise has been observed in major parts of Darbhanga, Sitamarhi, Samastipur, Vaishali, Munger, Banka, Jamui, Lakhisarai, Gaya, Rohtas and Nawada district and parts of Bhojpur, Patna, Nalanda, Madhubani and Kaimur districts and many localised areas constitutes about 34% area of the State. The range of 0-2 m fall is observed as small patches in Supaul, Araria, Saran, Purnia, Katihar, Muzaffarpur districts and other areas as patches. Only 2 well located in Saran and Patna has shown fall of water level 2-4 m (Fig. 10, Table 11).

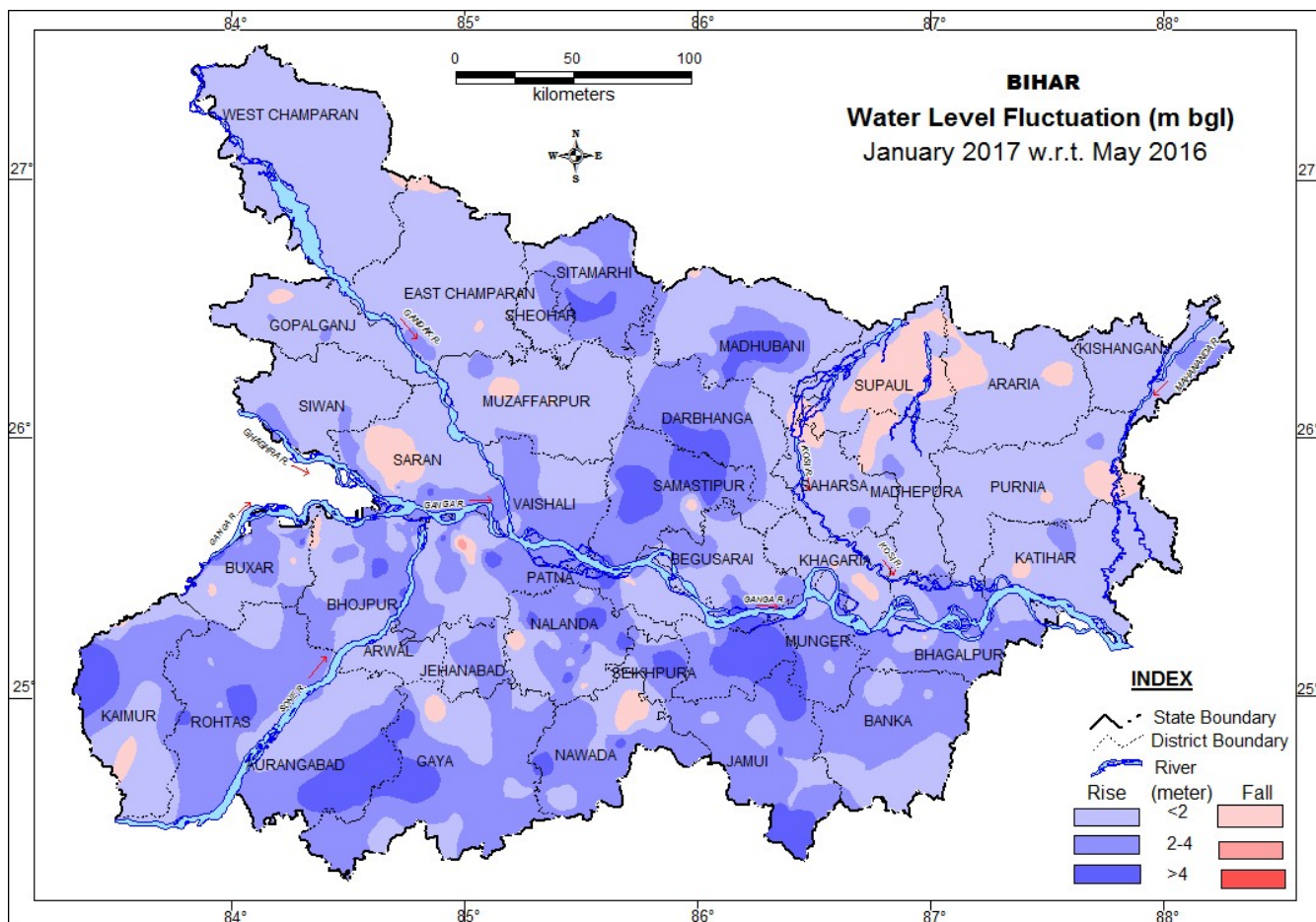


Fig. 10: Fluctuation in ground water level between May 2016 and Jan. 2017.

Table – 11 District wise categorization of fluctuation and their frequency of water levels of HNS of Jan. 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	8	0.03	1.71	0.28	0.43	6	75	0	0	0	0	2	25	0	0	0	0	6	2
2	Aurangabad	14	0.09	5.25	0	0	6	43	3	21	5	36	0	0	0	0	0	0	14	0
3	Banka	12	0.91	3.9	0	0	6	50	6	50	0	0	0	0	0	0	0	0	12	0
4	Begusarai	23	0.3	6.19	0	0	15	65	6	26	2	9	0	0	0	0	0	0	23	0
5	Bhagalpur	13	1.78	2.97	0.18	0.18	4	31	8	62	0	0	1	8	0	0	0	0	12	1
6	Bhojpur	35	0.6	5.33	0.22	0.22	15	43	16	46	3	9	1	3	0	0	0	0	34	1
7	Buxar	24	0.73	6.65	0.22	1.18	8	33	7	29	6	25	3	13	0	0	0	0	21	3
8	Darbhanga	6	2.06	4.92	-	-	0	0	3	50	3	50	0	0	0	0	0	0	6	0
9	Gaya	16	0.75	5.44	0.78	0.78	4	25	9	56	2	13	1	6	0	0	0	0	15	1
10	Gopalganj	18	0.28	3.4	0.62	0.62	14	78	2	11	0	0	1	6	0	0	0	0	16	1
11	Jamui	19	0.35	8.9	0	0	7	37	8	42	4	21	0	0	0	0	0	0	19	0
12	Jehanabad	11	1.04	3.83	0	0	5	45	6	55	0	0	0	0	0	0	0	0	11	0
13	Kaimur	6	0.82	7.61	0.24	0.58	1	17	1	17	2	33	2	33	0	0	0	0	4	2
14	Katihar	15	0.35	2.83	0.48	0.48	11	73	3	20	0	0	1	7	0	0	0	0	14	1
15	Khagaria	14	0.29	2.31	0.22	0.3	10	71	1	7	0	0	3	21	0	0	0	0	11	3
16	Kishanganj	7	0.4	2.5	0	0	6	86	1	14	0	0	0	0	0	0	0	0	7	0
17	Lakhisarai	6	1.65	7.5	0	0	1	17	1	17	4	67	0	0	0	0	0	0	6	0
18	Madhepura	16	0.3	3.27	0.22	1.29	11	69	2	13	0	0	3	19	0	0	0	0	13	3
19	Madhubani	23	0.45	8.06	1.01	1.01	13	57	7	30	2	9	1	4	0	0	0	0	22	1
20	Munger	7	1.61	4.31	0	0	2	29	4	57	1	14	0	0	0	0	0	0	7	0
21	Muzaffarpur	19	0.25	3.63	0.03	0.81	15	79	2	11	0	0	2	11	0	0	0	0	17	2
22	Nalanda	32	0.17	6.97	0.19	1.41	12	38	9	28	7	22	4	13	0	0	0	0	28	4
23	Nawada	15	0.61	4.98	0.65	1.73	4	27	7	47	2	13	2	13	0	0	0	0	13	2
24	W. Champaran	10	0.19	1.39	0	0	10	100	0	0	0	0	0	0	0	0	0	0	10	0
25	Patna	21	0.02	6.46	0.04	3.99	6	29	7	33	3	14	4	19	1	5	0	0	16	5
26	E. Champaran	22	0.05	2.4	0.08	0.76	16	73	3	14	0	0	3	14	0	0	0	0	19	3
27	Purnia	18	0.18	2.31	0.28	1.86	14	78	1	6	0	0	3	17	0	0	0	0	15	3
28	Rohtas	15	0.12	6.86	0	0	5	33	8	53	2	13	0	0	0	0	0	0	15	0
29	Saharsa	15	0.43	2.9	0	0	12	80	3	20	0	0	0	0	0	0	0	0	15	0
30	Samastipur	16	1.68	6.12	1.24	1.24	1	6	9	56	5	31	1	6	0	0	0	0	15	1
31	Saran	26	0.2	5.66	0.18	2	11	42	9	35	2	8	3	12	1	4	0	0	22	4
32	Seikhpura	7	0.45	5.41	0	0	3	43	2	29	2	29	0	0	0	0	0	0	7	0
33	Sheohar	3	1.66	2.22	0	0	1	33	2	67	0	0	0	0	0	0	0	0	3	0
34	Sitamarhi	16	0.52	5.31	0	0	3	19	10	63	3	19	0	0	0	0	0	0	16	0
35	Siwan	17	0.53	2.92	0	0	13	76	3	18	0	0	0	0	0	0	0	0	16	0
36	Supaul	23	0.06	0.89	0.04	1.85	9	39	0	0	0	0	14	61	0	0	0	0	9	14
37	Vaishali	15	0.32	3.74	0	0	8	53	7	47	0	0	0	0	0	0	0	0	15	0
	Total	583	0.02	8.90	0	3.99	288	49	176	30	60	10	55	9	2	0	0	0	524	57

3.3.0 ANNUAL FLUCTUATION

3.3.1 May 2015 to May 2016

Fluctuation of ground water level between May 2015 and May 2016 of 565 HNS has been analysed which indicates rise in water level in 178 wells (32%) of the HNS and fall in water level in 376 No (67%) of HNS. Almost entire State has shown fall in water level. Fall to the tune of 0 – 2 m has covered maximum area (61%) , which includes major parts of E & W Champaran, Muzaffarpur, Gopalganj, Siwan, Saran, Vaishali, Samastipur, Darbhanga, Madhubani, Bhagalpur, Lakhisarai, Nalanda, Bhojpur, Jehanabad, Aurangabad, Arwal, Patna, Bhojpur, Buxar and Rohtas, districts and many other small parts of the state. Parts of Samastipur, Muzaffarpur, Sheohar, Aurangabad, Rohtas, Gaya, Lakhisarai, Saran has shown water level fall between 2-4m. very small part of Samastipur, Muzaffarpur, Sheohar, Rohtas, Aurangabad, Lakhisarai has shown water level fall >4m.

Area where rise of water level is within 2 m spread over major part of Supaul, Araria, Purnea, Katihar, W Champaran, Banka, Jamui, Naewada and Gaya district, and as patches at many places in the state constituting 29% area of the state. Water level rise in the range of 2-4 m observed in small parts of W Champaran, Kaimur, Gaya, Nawada, Jamui and Katihar district. Water level rise >4m has been observed only in Jamui and Nawada district. (Fig. 11, Table 12).

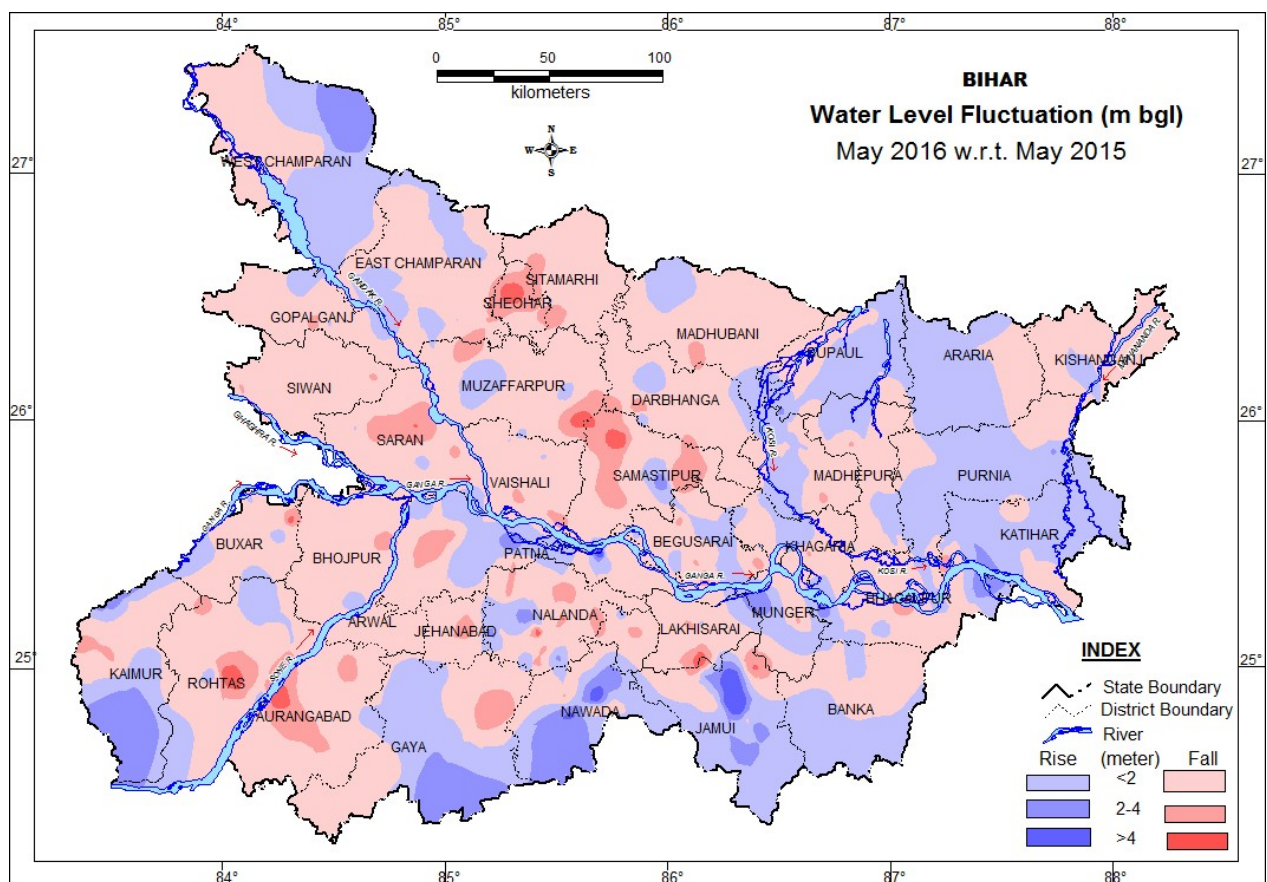


Fig. 11: Fluctuation in ground water level between May 2015 and May 2016.

Table –12 District-wise categorization of frequency and fluctuation water levels of HNS of **May, 2016 w.r.t. May, 2015** 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	0.5	1.19	1.61	1.61	4	67	0	0	0	0	1	17	0	0	0	0	4	1
2	Aurangabad	14	0.21	0.21	0.11	5.9	1	7	0	0	0	0	9	64	2	14	2	14	1	13
3	Banka	12	0.05	1.72	0.36	2.08	7	58	0	0	0	0	4	33	1	8	0	0	7	5
4	Begusarai	23	0.03	1.16	0.07	3.75	9	39	0	0	0	0	10	43	4	17	0	0	9	14
5	Bhagalpur	14	0.32	3.69	0.07	3.35	2	14	3	21	0	0	8	57	1	7	0	0	5	9
6	Bhojpur	33	0.4	1.26	0.08	3	2	6	0	0	0	0	30	91	1	3	0	0	2	31
7	Buxar	23	0.08	1.74	0.02	5.65	6	26	0	0	0	0	15	65	1	4	1	4	6	17
8	Darbhanga	8	1.21	1.55	0.53	3.24	2	25	0	0	0	0	5	63	1	13	0	0	2	6
9	Gaya	7	0.35	3.5	0.35	3.33	3	43	1	14	0	0	2	29	1	14	0	0	4	3
10	Gopalganj	15	0.11	0.26	0.08	4.01	2	13	0	0	0	0	12	80	0	0	1	7	2	13
11	Jamui	19	0.13	9.55	0.11	6.3	3	16	3	16	3	16	4	21	1	5	2	11	9	7
12	Jehanabad	10	-	-	0.17	3.21	0	0	0	0	0	0	9	90	1	10	0	0	0	10
13	Kaimur	7	1.25	4	0.6	2.3	1	14	2	29	0	0	1	14	2	29	0	0	3	3
14	Katihar	17	0.23	2.03	0.35	3.14	11	65	1	6	0	0	3	18	1	6	0	0	12	4
15	Khagaria	14	0.16	2.18	0.11	2.48	2	14	1	7	0	0	9	64	2	14	0	0	3	11
16	Kishanganj	6	0.02	0.65	0.27	1.64	2	33	0	0	0	0	3	50	0	0	0	0	2	3
17	Lakhisarai	6	0.12	0.12	0.08	3.12	1	17	0	0	0	0	4	67	1	17	0	0	1	5
18	Madhepura	16	0.01	0.91	0.01	2.18	7	44	0	0	0	0	8	50	1	6	0	0	7	9
19	Madhubani	23	0.12	1.95	0.32	3	5	22	0	0	0	0	17	74	1	4	0	0	5	18
20	Munger	6	0.02	3.44	0.27	2.32	2	33	1	17	0	0	2	33	1	17	0	0	3	3
21	Muzaffarpur	22	0.05	1.72	0.03	4.82	4	18	0	0	0	0	16	73	1	5	1	5	4	18
22	Nalanda	31	0.25	4.12	0.09	5.9	6	19	2	6	1	3	13	42	7	23	2	6	9	22
23	Nawada	11	1.1	5.62	0.81	2.34	1	9	1	9	2	18	5	45	1	9	0	0	4	6
24	W.Champaran	12	0.01	2.92	0.47	1.32	5	42	1	8	0	0	6	50	0	0	0	0	6	6
25	Patna	18	0.37	7.75	0.04	3.41	5	28	1	6	1	6	8	44	3	17	0	0	7	11
26	E. Champaran	24	0.05	1.62	0.04	1.31	11	46	0	0	0	0	12	50	0	0	0	0	11	12
27	Purnia	15	0.38	2.26	0.28	1.38	11	73	1	7	0	0	3	20	0	0	0	0	12	3
28	Rohtas	16	0.05	0.92	0.07	6.42	4	25	0	0	0	0	8	50	2	13	1	6	4	11
29	Saharsa	15	0.09	0.95	0.11	2.37	6	40	0	0	0	0	8	53	1	7	0	0	6	9
30	Samastipur	15	0.99	3.74	0.26	5.22	1	7	1	7	0	0	9	60	3	20	1	7	2	13
31	Saran	28	0.09	0.59	0.22	4.14	4	14	0	0	0	0	21	75	2	7	1	4	4	24
32	Seikhpura	7	1.38	1.38	0.33	2.35	1	14	0	0	0	0	4	57	2	29	0	0	1	6
33	Sheohar	4	-	-	1.63	5.94	0	0	0	0	0	0	3	75	0	0	1	25	0	4
34	Sitamarhi	12	-	-	0.6	3.26	0	0	0	0	0	0	9	75	3	25	0	0	0	12
35	Siwan	19	-	-	0.04	3.38	0	0	0	0	0	0	16	84	2	11	0	0	0	18
36	Supaul	23	0.03	2.29	0.18	1.32	17	74	1	4	0	0	5	22	0	0	0	0	18	5
37	Vaishali	14	0.04	0.72	0.47	3.1	3	21	0	0	0	0	8	57	3	21	0	0	3	11
	Total	565	0.01	9.55	0.01	6.42	151	27	20	4	7	1	310	55	53	9	13	2	178	376

3.3.2 August 2015 to August 2016

Water level fluctuation between August 2015 and August 2016 has been analysed for 521 HNS, which indicates that the rise of water level is in about 57% of the HNS and fall in about 43% of the HNS. Rise and fall within 2 m has been observed in almost every part of the state. However, in general, northeastern part in NBP and Southwestern part in SBP has shown rise in water level constitutes 54% area of the state whereas the central part in south of the Ganga and northwestern part has shown fall covered total 37% area.

The rise of water level in the range of 2 to 4 m has been observed in central part of Samstipur, Rohtas, Kaimur and Gaya district and many other localised places. Total 10 wells have shown rise in water level more than 4 m located each in Gaya, Jamui, Kaimur, Lakhisarai and Nawada district, 02 in Rohtas and 03 in Samastipur district.

The segment 2 to 4 m fall has covered very small parts of Nalanda, Gaya, Jamui, Banka, Bhojpur, Patna, Sran, Saran, Gopalganj, Banka, Bhagalpur district. Only 3 wells located in Nalanda and Gopalganj district have shown fall more than 4 m. (**Fig.12, Table 13**).

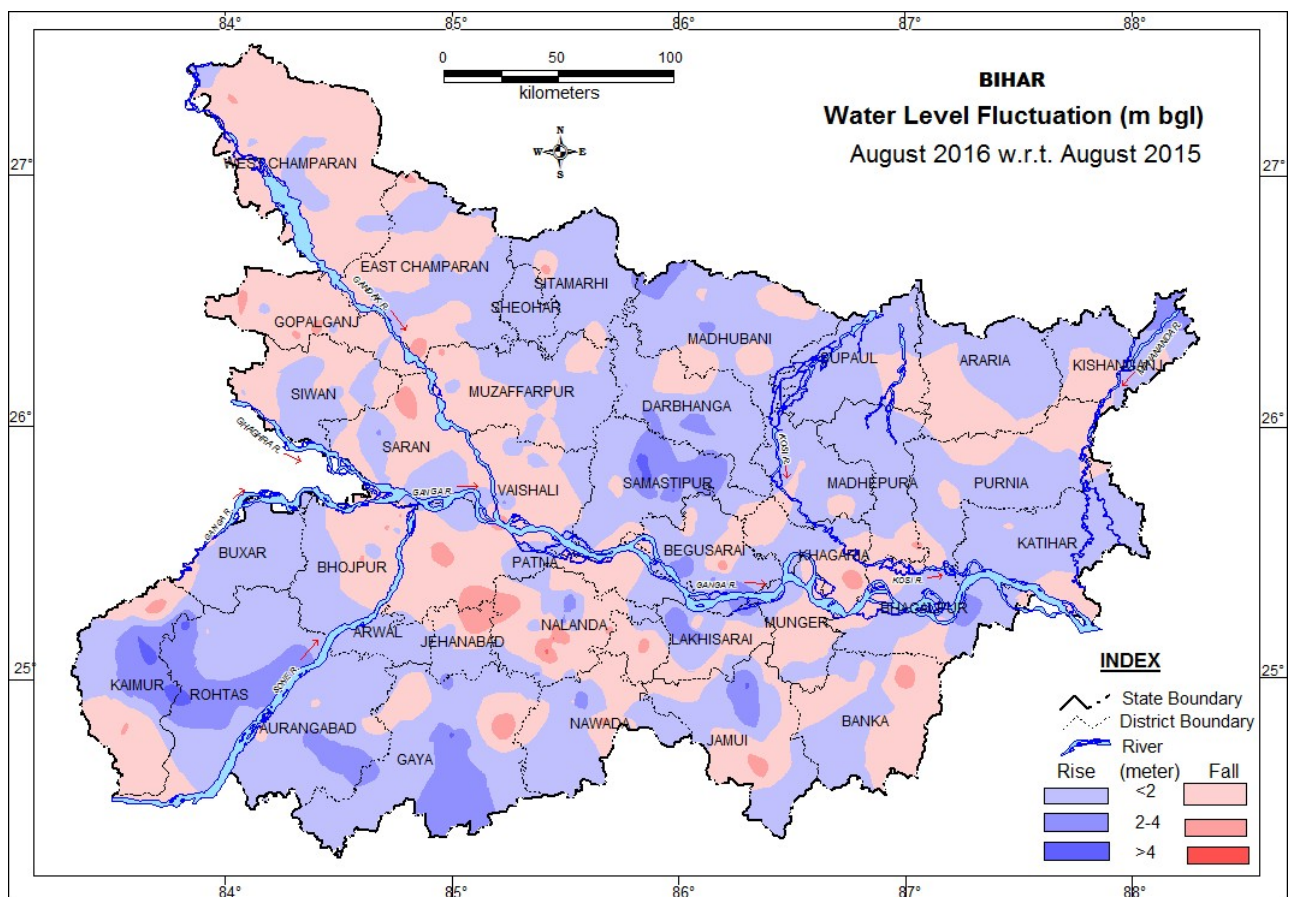


Fig. 12: Fluctuation in ground water level between Aug. 2015 and Aug. 2016

Table –13 District-wise categorization of frequency and fluctuation water levels of HNS of Aug. 2016 w.r.t. Aug. 2015 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	5	0.23	1.3	0.18	0.86	3	60	0	0	0	0	2	40	0	0	0	0	3	2
2	Aurangabad	12	0.27	3.28	0.15	0.73	6	50	3	25	0	0	3	25	0	0	0	0	9	3
3	Banka	12	0.16	1.48	0.01	2.74	6	50	0	0	0	0	5	42	1	8	0	0	6	6
4	Begusarai	24	0.09	3.11	0.1	2.81	13	54	3	13	0	0	7	29	1	4	0	0	16	8
5	Bhagalpur	9	0.2	2.98	0.08	0.8	4	44	1	11	0	0	4	44	0	0	0	0	5	4
6	Bhojpur	17	0.19	1.64	0.4	2.39	4	24	0	0	0	0	10	59	3	18	0	0	4	13
7	Buxar	11	0.03	1.83	0.3	0.3	10	91	0	0	0	0	1	9	0	0	0	0	10	1
8	Darbhanga	9	0.41	3.88	0.11	1.18	3	33	3	33	0	0	3	33	0	0	0	0	6	3
9	Gaya	11	0.81	4.37	1.51	3.03	3	27	5	45	1	9	1	9	1	9	0	0	9	2
10	Gopalganj	19	0.13	1.05	0.06	4.45	4	21	0	0	0	0	12	63	2	11	1	5	4	15
11	Jamui	16	0.28	4.18	0.08	3.48	6	38	1	6	1	6	7	44	1	6	0	0	8	8
12	Jehanabad	7	0.06	1.42	1.42	3.62	5	71	0	0	0	0	1	14	1	14	0	0	5	2
13	Kaimur	8	1.45	4.03	0.47	3.03	2	25	2	25	1	13	1	13	2	25	0	0	5	3
14	Katihar	14	0.12	1.32	0.1	1.12	12	86	0	0	0	0	2	14	0	0	0	0	12	2
15	Khagaria	16	0.05	0.74	0.09	2.71	7	44	0	0	0	0	8	50	1	6	0	0	7	9
16	Kishanganj	6	0.34	3.7	0.02	1.83	1	17	1	17	0	0	4	67	0	0	0	0	2	4
17	Lakhisarai	6	1.26	4.01	0.8	2	1	17	2	33	1	17	2	33	0	0	0	0	4	2
18	Madhepura	8	0.15	1.41	0.45	2.6	6	75	0	0	0	0	1	13	1	13	0	0	6	2
19	Madhubani	21	0.12	2.78	0.09	1.67	9	43	4	19	0	0	8	38	0	0	0	0	13	8
20	Munger	7	0.31	1.43	0.11	1.25	3	43	0	0	0	0	4	57	0	0	0	0	3	4
21	Muzaffarpur	26	0.03	1.33	0.08	2.26	13	50	0	0	0	0	11	42	2	8	0	0	13	13
22	Nalanda	30	0.24	3.76	0.2	4.37	7	23	3	10	0	0	12	40	6	20	2	7	10	20
23	Nawada	11	0.02	4.07	0.32	2.8	5	45	0	0	1	9	4	36	1	9	0	0	6	5
24	W. Champaran	16	0.07	0.49	0.03	2.26	6	38	0	0	0	0	9	56	1	6	0	0	6	10
25	Patna	11	0.61	1.47	0.24	2.92	3	27	0	0	0	0	7	64	1	9	0	0	3	8
26	E. Champaran	25	0.05	1.77	0.06	2.72	11	44	0	0	0	0	11	44	3	12	0	0	11	14
27	Purnia	14	0.18	1.85	0.19	1.24	8	57	0	0	0	0	6	43	0	0	0	0	8	6
28	Rohtas	14	0.01	4.5	0.07	0.07	7	50	4	29	2	14	1	7	0	0	0	0	13	1
29	Saharsa	15	0.09	0.88	0.27	0.51	12	80	0	0	0	0	2	13	0	0	0	0	12	2
30	Samastipur	17	0.01	4.59	0.97	0.97	11	65	2	12	3	18	1	6	0	0	0	0	16	1
31	Saran	24	0.01	2.23	0.03	2.69	12	50	2	8	0	0	9	38	1	4	0	0	14	10
32	Seikhpura	7	-	-	0.14	2.44	0	0	0	0	0	0	6	86	1	14	0	0	0	7
33	Sheohar	4	0.58	1.5	-	-	4	100	0	0	0	0	0	0	0	0	0	0	4	0
34	Sitamarhi	12	0.34	1.33	2.8	2.8	11	92	0	0	0	0	0	0	1	8	0	0	11	1
35	Siwan	16	0.13	2.05	0.06	1.63	5	31	1	6	0	0	9	56	0	0	0	0	6	9
36	Supaul	23	0.03	1.16	0.06	0.37	19	83	0	0	0	0	4	17	0	0	0	0	19	4
37	Vaishali	18	0.31	2.41	0.04	3.76	5	28	1	6	0	0	9	50	3	17	0	0	6	12
	Total	521	0.01	4.59	0.01	4.45	247	47	38	7	10	2	187	36	34	7	3	1	295	224

3.3.3 November 2015 to November 2016

Water level fluctuation between November 2015 and November 2016 has been analysed for 570 HNS, which indicates that there is a rise of water level in about 77% of the HNS and fall in only 23% of the HNS. The rise of water level of 0-2 m range spread in 59% area covers maximum parts of NBP & SBP except some patches. The segment of 2 to 4m shown in Kaimur, Rohtas, Buxar, Bhojpur, Nalanda, Patna, Lakhisarai, Begusarai, Jamui, Banka district and many other small parts of the state. >4 m rise has been observed only in Kaimur, Rohtas, district and some other parts as patches.

Total 21% area of the State including parts of E & W Champaran, Gopalganj, Siwan, Muzaffarpur, Madhubani, Samastipur, Darbhanga districts and some small patches in SBP is covered by the range of 0-2m fall in water level. Area covering very small parts of Banka Bhagalpur Samastipur, Madhubani, Darbhanga, Muzaffarpur and E Champaran has shown the fall of water level 2- 4 m. The range of > 4 m fall has been observed only in Banka, Bhagalpur and E Champaran districts. (Fig.13, Table 14).

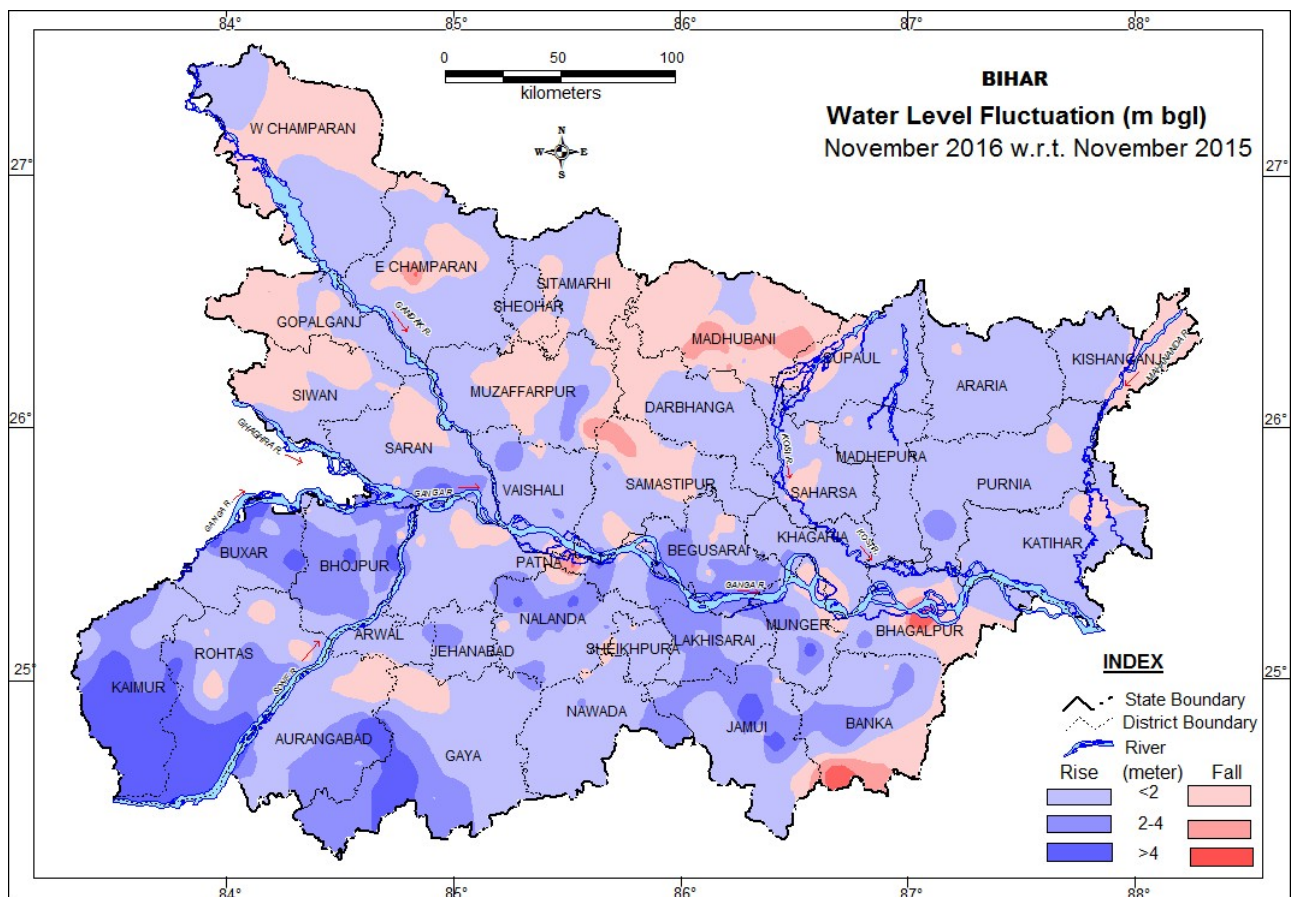


Fig. 13: Fluctuation in ground water level between Nov 2015 and Nov. 2016.

Table –14 District-wise categorization of frequency and fluctuation water levels of HNS of Nov. 2016 w.r.t. Nov. 2015 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	0.05	0.78	0.57	0.57	7	88	0	0	0	0	1	13	0	0	0	0	7	1
2	Aurangabad	14	0.23	6.09	1.53	1.53	7	50	3	21	1	7	2	14	0	0	0	0	11	2
3	Banka	11	0.54	2.84	0.24	4.96	4	36	3	27	0	0	3	27	0	0	1	9	7	4
4	Begusarai	23	0.14	3.72	0.14	0.98	9	39	10	43	0	0	4	17	0	0	0	0	19	4
5	Bhagalpur	10	0.26	2.45	0.02	8.98	4	40	1	10	0	0	4	40	0	0	1	10	5	5
6	Bhojpur	34	0.2	5.08	0.12	1.75	10	29	18	53	4	12	2	6	0	0	0	0	32	2
7	Buxar	23	0.09	7.47	-	-	5	22	9	39	9	39	0	0	0	0	0	0	23	0
8	Darbhanga	7	0.49	1.46	0.04	0.98	4	57	0	0	0	0	3	43	0	0	0	0	4	3
9	Gaya	9	0.41	5.39	1.26	1.26	5	56	1	11	1	11	1	11	0	0	0	0	7	1
10	Gopalganj	18	0.14	1.76	0.23	2.12	5	28	0	0	0	0	11	61	2	11	0	0	5	13
11	Jamui	17	0.76	8.97	0.46	1.12	8	47	4	24	3	18	2	12	0	0	0	0	15	2
12	Jehanabad	11	0.14	3.04	-	-	9	82	2	18	0	0	0	0	0	0	0	0	11	0
13	Kaimur	8	1.34	7	-	-	2	25	3	38	3	38	0	0	0	0	0	0	8	0
14	Katihar	15	0.18	1.66	0.28	0.38	13	87	0	0	0	0	2	13	0	0	0	0	13	2
15	Khagaria	14	0.5	2.55	1.63	1.76	10	71	2	14	0	0	2	14	0	0	0	0	12	2
16	Kishanganj	6	0.05	0.89	0.14	0.5	3	50	0	0	0	0	3	50	0	0	0	0	3	3
17	Lakhisarai	7	0.16	2.86	-	-	2	29	5	71	0	0	0	0	0	0	0	0	7	0
18	Madhepura	13	0.29	1.34	0.12	0.12	12	92	0	0	0	0	1	8	0	0	0	0	12	1
19	Madhubani	22	0.04	1.83	0.03	3.78	7	32	0	0	0	0	9	41	6	27	0	0	7	15
20	Munger	10	0.11	5.45	0.17	0.17	6	60	2	20	1	10	1	10	0	0	0	0	9	1
21	Muzaffarpur	23	0.03	3.64	0.05	3.21	12	52	2	9	0	0	8	35	1	4	0	0	14	9
22	Nalanda	31	0.08	4.82	0.34	0.34	22	71	6	19	2	6	1	3	0	0	0	0	30	1
23	Nawada	10	0.04	2.58	0.32	0.32	7	70	2	20	0	0	1	10	0	0	0	0	9	1
24	W.Champaran	10	0.01	0.63	0.07	0.43	6	60	0	0	0	0	4	40	0	0	0	0	6	4
25	Patna	18	0.17	4.36	0.19	4.45	9	50	2	11	1	6	5	28	0	0	1	6	12	6
26	E.Champaran	25	0.01	1.41	0.61	4.36	20	80	0	0	0	0	3	12	1	4	1	4	20	5
27	Purnia	17	0.11	3.28	1.73	1.73	15	88	1	6	0	0	1	6	0	0	0	0	16	1
28	Rohtas	18	0.35	7.14	0.25	1.87	6	33	4	22	4	22	4	22	0	0	0	0	14	4
29	Saharsa	14	0.1	1.12	0.07	0.73	10	71	0	0	0	0	4	29	0	0	0	0	10	4
30	Samastipur	17	0.06	2.54	0.25	2.72	8	47	1	6	0	0	7	41	1	6	0	0	9	8
31	Saran	29	0.02	4.98	0.38	0.93	18	62	5	17	2	7	4	14	0	0	0	0	25	4
32	Seikhpura	7	0.58	1.6	0.32	0.92	4	57	0	0	0	0	3	43	0	0	0	0	4	3
33	Sheohar	2	1	1	0.08	0.08	1	50	0	0	0	0	1	50	0	0	0	0	1	1
34	Sitamarhi	16	0.28	1.98	0.08	1.71	8	50	0	0	0	0	8	50	0	0	0	0	8	8
35	Siwan	15	0.02	1.49	0.05	1.66	8	53	0	0	0	0	7	47	0	0	0	0	8	7
36	Supaul	21	0.04	1.73	0.05	0.05	20	95	0	0	0	0	1	5	0	0	0	0	20	1
37	Vaishali	17	0.03	2.87	0.01	0.71	12	71	2	12	0	0	3	18	0	0	0	0	14	3
	Total	570	(1.34)	(0.63)	0.00	8.98	318	56	88	15	31	5	116	20	11	2	4	1	437	131

3.3.4 January 2016 to January 2017

Water level fluctuation between January 2016 and January 2017 has been analysed for 563 HNS. The rise of water level ranged from 0.01 to 9.9 m has been observed in 451 wells (80%) whereas the fall in water level was between 0.01 and 6.35 m noticed in 107 Well (19%).

The rise 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 rise has been observed in localised areas falls in Sitamarhi, Madhubani, Samastipur, Patna, Nalanda, Vaishali, Jamui, Lakhisarai, Aurangabad, Rohtas, Kaimur, and many other small parts of the State. Only 20 wells in has shown water level rise more than 4m.

The fall in the range of 0 – 2 m and 2 – 4 m has been observed in 18% and 1% of HNS respectively. The fall ranged from 0 to 2 m is observed as patches at many locations including the part of Jamui, Bhagalpur, Khagaria, Supaul, Muzaffarpur, Saran, E Champaran and Araria district. The segment of 2 to 4 m has been calculated for only 06 wells covers the area as patches in part of Jamui, Lakhisarai and Aurangabad district. Only 02 wells analysed have shown fall of water level more than 4 m located in Jamui and Aurangabad district. (Fig. 14, Table 15).

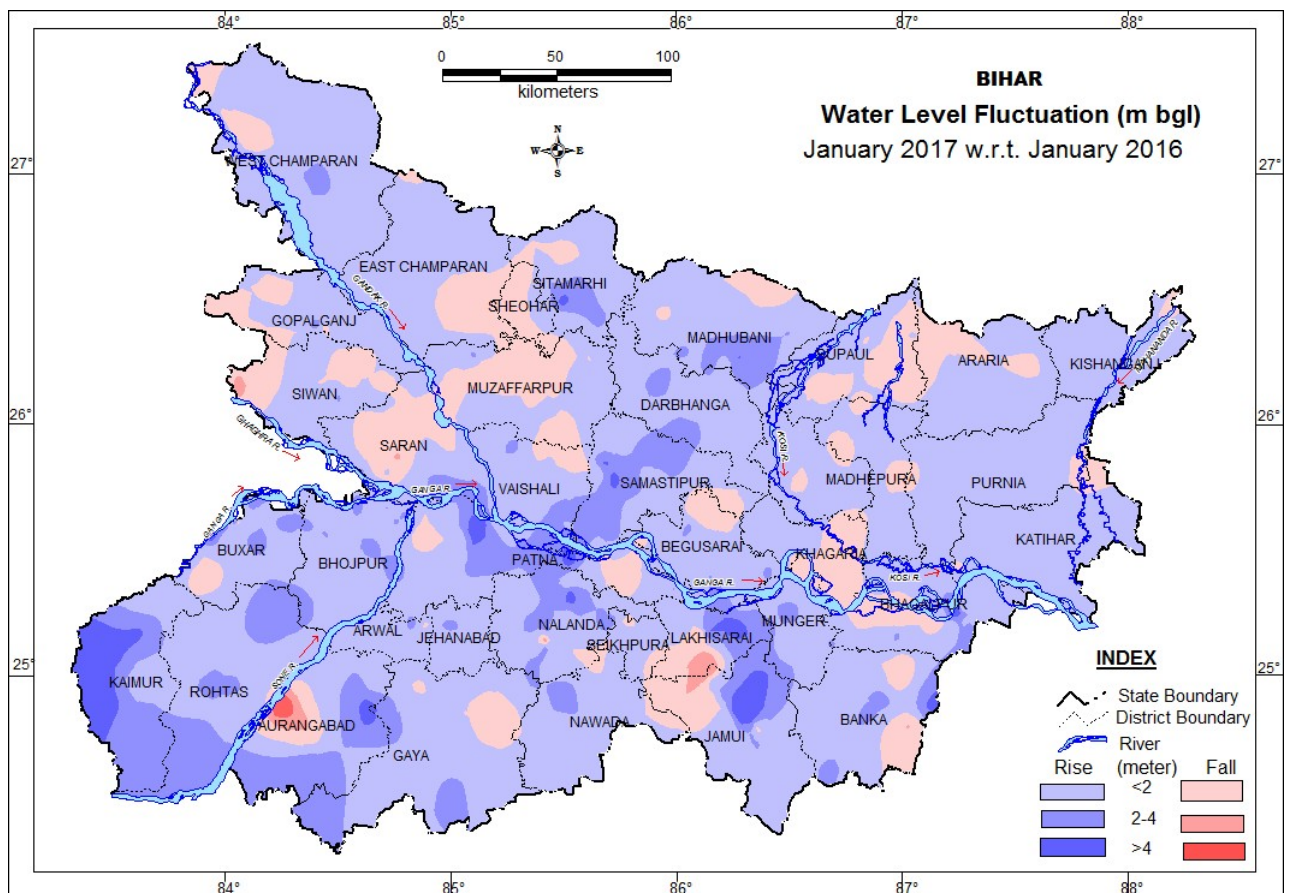


Fig. 14: Fluctuation in ground water level between Jan. 2017 and Jan. 2016.

Table – 15 District-wise categorization of fluctuation and their frequency of water levels of HNS of Jan 2017 w.r.t. Jan 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	0.05	0.59	0.01	0.32	5	63	0	0	0	0	3	38	0	0	0	0	5	3		
2	Aurangabad	15	0.26	4.99	0.01	6.35	3	20	5	33	2	13	4	27	0	0	1	7	10	5		
3	Banka	13	0.1	4.5	1.83	2.09	7	54	3	23	1	8	1	8	1	8	0	0	11	2		
4	Begusarai	23	0.24	2.54	0.31	2.08	16	70	4	17	0	0	2	9	1	4	0	0	20	3		
5	Bhagalpur	11	0.81	6.12	0.13	1.69	5	45	2	18	1	9	3	27	0	0	0	0	8	3		
6	Bhojpur	35	0.3	3.53	-	-	27	77	8	23	0	0	0	0	0	0	0	0	35	0		
7	Buxar	22	0.32	5.45	0.18	1.04	11	50	8	36	1	5	2	9	0	0	0	0	20	2		
8	Darbhanga	5	0.27	2.73	-	-	3	60	2	40	0	0	0	0	0	0	0	0	5	0		
9	Gaya	6	0.16	2.76	0.11	1.17	3	50	1	17	0	0	2	33	0	0	0	0	4	2		
10	Gopalganj	19	0.01	3.4	0.26	1.49	13	68	1	5	0	0	4	21	0	0	0	0	14	4		
11	Jamui	15	1.1	9.9	0.01	4.13	7	47	0	0	2	13	4	27	1	7	1	7	9	6		
12	Jehanabad	11	0.06	2.69	0.23	0.23	8	73	2	18	0	0	1	9	0	0	0	0	10	1		
13	Kaimur	8	0.15	6.91	-	-	4	50	1	13	3	38	0	0	0	0	0	0	8	0		
14	Katihar	15	0.02	2.46	0.26	0.26	13	87	1	7	0	0	1	7	0	0	0	0	14	1		
15	Khagaria	14	0.06	1.02	0.01	1.86	6	43	0	0	0	0	8	57	0	0	0	0	6	8		
16	Kishanganj	7	0.14	1.9	0.03	0.03	6	86	0	0	0	0	1	14	0	0	0	0	6	1		
17	Lakhisarai	6	0.53	5	1.46	1.46	3	50	1	17	1	17	1	17	0	0	0	0	5	1		
18	Madhepura	16	0.16	1.02	0.8	1.74	13	81	0	0	0	0	3	19	0	0	0	0	13	3		
19	Madhubani	24	0.08	4.09	0.19	0.39	16	67	4	17	1	4	2	8	0	0	0	0	21	2		
20	Munger	9	0.05	3.25	1.22	1.22	7	78	1	11	0	0	1	11	0	0	0	0	8	1		
21	Muzaffarpur	20	0.03	2.25	0.08	1.71	13	65	1	5	0	0	6	30	0	0	0	0	14	6		
22	Nalanda	26	0.05	5.08	0.06	2.91	16	62	5	19	2	8	1	4	1	4	0	0	23	2		
23	Nawada	9	0.2	3.82	0.11	0.19	5	56	2	22	0	0	2	22	0	0	0	0	7	2		
24	W. Champaran	11	0.02	3.28	0.27	1.26	7	64	2	18	0	0	2	18	0	0	0	0	9	2		
25	Patna	17	0.4	6.32	0.05	1.91	8	47	2	12	2	12	4	24	0	0	0	0	12	4		
26	E. Champaran	22	0.1	1.84	0.11	0.79	18	82	0	0	0	0	4	18	0	0	0	0	18	4		
27	Purnia	18	0.08	1.97	0.49	0.49	16	89	0	0	0	0	1	6	0	0	0	0	16	1		
28	Rohtas	15	0.16	3.75	0.13	0.13	9	60	5	33	0	0	1	7	0	0	0	0	14	1		
29	Saharsa	17	0.03	1.65	0.04	0.38	15	88	0	0	0	0	2	12	0	0	0	0	15	2		
30	Samastipur	18	0.05	4.31	-	-	10	56	6	33	2	11	0	0	0	0	0	0	18	0		
31	Saran	25	0.06	4.44	0.14	2.15	10	40	4	16	1	4	9	36	1	4	0	0	15	10		
32	Seikhpura	7	0.07	2.74	0.14	1.45	4	57	1	14	0	0	2	29	0	0	0	0	5	2		
33	Sheohar	3	0.48	0.48	0.15	0.53	1	33	0	0	0	0	2	67	0	0	0	0	1	2		
34	Sitamarhi	16	0.18	4.6	0.02	1	11	69	2	13	1	6	2	13	0	0	0	0	14	2		
35	Siwan	16	0.03	2.15	0.08	2.18	8	50	1	6	0	0	6	38	1	6	0	0	9	7		
36	Supaul	24	0.02	1.14	0.01	1.33	15	63	0	0	0	0	9	38	0	0	0	0	15	9		
37	Vaishali	17	0.16	2.62	0.1	0.89	11	65	3	18	0	0	3	18	0	0	0	0	14	3		
	Total	563	0.01	9.90	0.01	6.35	353	63	78	14	20	4	99	18	6	1	2	0	451	107		

3.4 DECADAL FLUCTUATION

3.4.1 Decadal Mean of May to May 2016

Fluctuation in water level of May 2016 with respect to decadal mean of May has been analysed for 594 HNS, which indicates fall in 67% and rise in the remaining 33% of the analysed HNS. The rise in the tune of 0 – 2 m is observed in the 30% of the HNS analysed, spatially covers the 32% area of the State and occurs in the major and adjoining part of E & W Champaran, Saharsa, Madhepura, Araria, Purnia, Sheikhpura, Nawada, Gaya and Kaimur district and as patches at many locations. In only 13 HNS has shown rise in the tune of 2-4 m covering very small patches of Kaimur, Gaya, Nawada, jamui and W Champaran districts. Only 6 wells located each in Gaya, Jamui, Nawada and Samastipur district has recorded water level rise more than 4m.

The major area (63% 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 (13 Nos. NHS). The fall of water level more than 4m has been recorded in only 8 wells located in Sheohar, Nalanda, Muzaffarpur, Lakhisarai, Jamui, Buxar and Aurangabad district. (**Fig. 15, Table 16**).

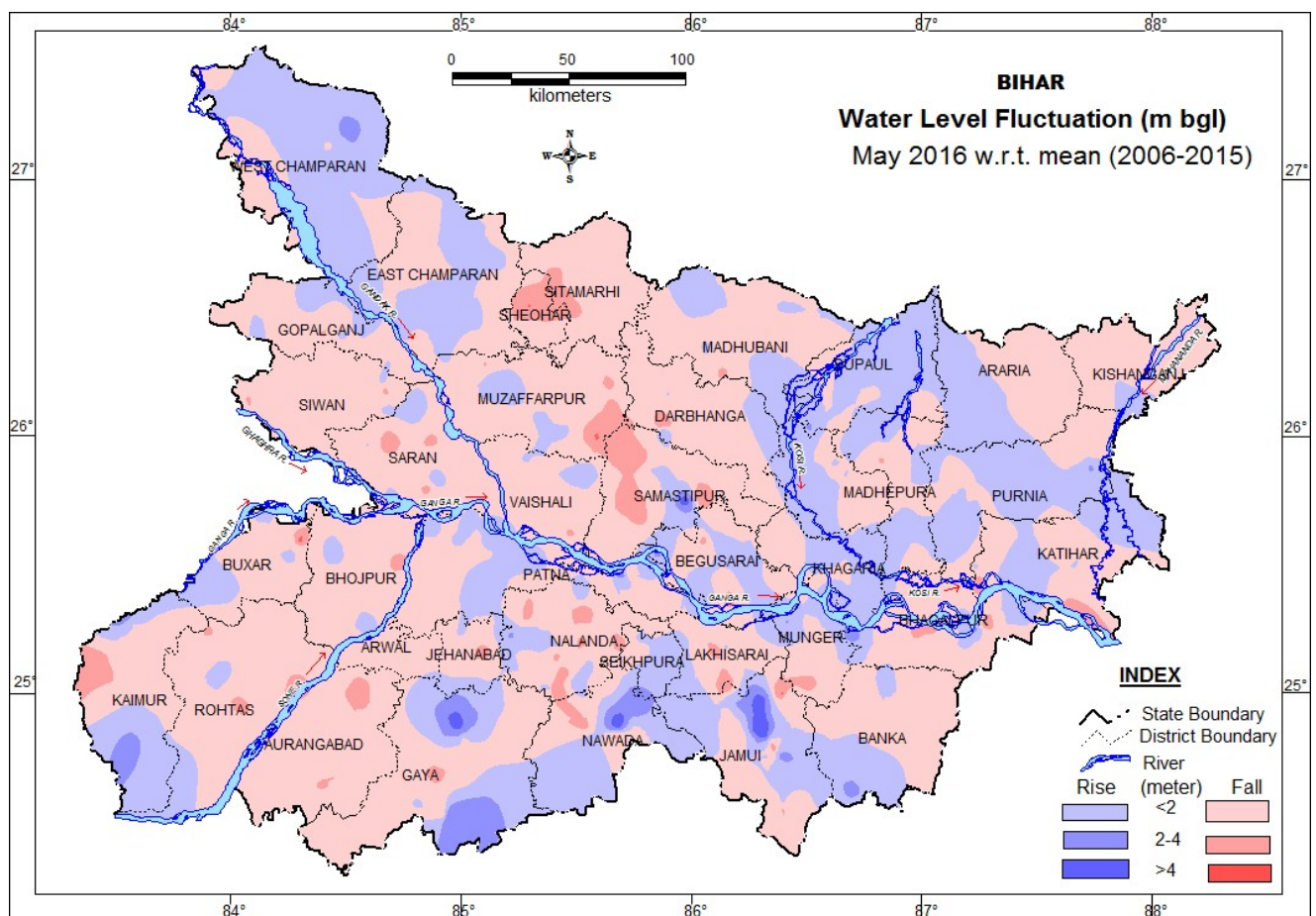


Fig. 15 Fluctuation in water level between May (mean) and May 2016.

Table – 16 District-wise categorization of fluctuation and their frequency of water levels of HNS of May, 2016 w.r.t. May mean (2006-2015) 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	0.41	0.82	0.16	1.76	3	50	0	0	0	0	3	50	0	0	0	0	3	3		
2	Aurangabad	14	-	-	0.47	5.29	0	0	0	0	0	0	12	86	1	7	1	7	0	14		
3	Banka	12	0.06	2.22	0.36	1.12	3	25	1	8	0	0	8	67	0	0	0	0	4	8		
4	Begusarai	23	0.24	1.98	0.09	3.75	9	39	0	0	0	0	12	52	2	9	0	0	9	14		
5	Bhagalpur	14	0.14	2.88	0.15	3.1	2	14	2	14	0	0	7	50	3	21	0	0	4	10		
6	Bhojpur	34	0.13	0.95	0.08	3	3	9	0	0	0	0	30	88	1	3	0	0	3	31		
7	Buxar	23	0.08	1.47	0.05	4.96	8	35	0	0	0	0	13	57	1	4	1	4	8	15		
8	Darbhanga	9	0.05	1.55	0.22	3.25	2	22	0	0	0	0	6	67	1	11	0	0	2	7		
9	Gaya	14	0.52	5.07	0.29	2.3	4	29	1	7	1	7	7	50	1	7	0	0	6	8		
10	Gopalganj	16	0.11	0.44	0.08	2.62	3	19	0	0	0	0	12	75	1	6	0	0	3	13		
11	Jamui	20	0.13	7.13	0.74	4.37	4	20	3	15	3	15	6	30	3	15	1	5	10	10		
12	Jehanabad	10	0.18	0.18	0.13	2.63	1	10	0	0	0	0	8	80	1	10	0	0	1	9		
13	Kaimur	7	1.79	2.67	0.22	3.35	1	14	1	14	0	0	3	43	1	14	0	0	2	4		
14	Katihar	17	0.1	1.84	0.15	2.59	7	41	0	0	0	0	8	47	2	12	0	0	7	10		
15	Khagaria	15	0.16	1.94	0.17	2.14	7	47	0	0	0	0	7	47	1	7	0	0	7	8		
16	Kishanganj	6	0.02	0.57	0.27	1.91	2	33	0	0	0	0	3	50	0	0	0	0	2	3		
17	Lakhisarai	6	0.12	0.12	0.09	4.04	1	17	0	0	0	0	4	67	0	0	1	17	1	5		
18	Madhepura	16	0.03	0.91	0.04	2.18	9	56	0	0	0	0	6	38	1	6	0	0	9	7		
19	Madhubani	25	0.12	1.71	0.04	2.55	7	28	0	0	0	0	17	68	1	4	0	0	7	18		
20	Munger	7	0.1	1.95	0.11	2.6	2	29	0	0	0	0	4	57	1	14	0	0	2	5		
21	Muzaffarpur	22	0.05	1.57	0.52	4.17	5	23	0	0	0	0	14	64	2	9	1	5	5	17		
22	Nalanda	31	0.27	2.23	0.03	5.51	8	26	1	3	0	0	14	45	6	19	2	6	9	22		
23	Nawada	11	1.26	5.37	0.82	3.33	2	18	1	9	1	9	5	45	2	18	0	0	4	7		
24	W. Champaran	14	0.03	1.97	0.25	1.07	9	64	0	0	0	0	5	36	0	0	0	0	9	5		
25	Patna	27	0.01	3.67	0.04	1.89	9	33	1	4	0	0	17	63	0	0	0	0	10	17		
26	E. Champaran	24	0.06	1.62	0	1.26	12	50	0	0	0	0	12	50	0	0	0	0	12	12		
27	Purnia	15	0.09	2.27	0.09	1.63	9	60	1	7	0	0	5	33	0	0	0	0	10	5		
28	Rohtas	17	0.03	0.79	0.02	2.66	2	12	0	0	0	0	12	71	3	18	0	0	2	15		
29	Saharsa	15	0.02	0.84	0.11	1.01	9	60	0	0	0	0	6	40	0	0	0	0	9	6		
30	Samastipur	15	0.06	5.19	0.51	3.15	3	20	0	0	1	7	7	47	4	27	0	0	4	11		
31	Saran	28	0.11	0.92	0.11	3.15	5	18	0	0	0	0	19	68	4	14	0	0	5	23		
32	Seikhpura	7	1.06	1.67	0.13	1.68	2	29	0	0	0	0	5	71	0	0	0	0	2	5		
33	Sheohar	4	-	-	1.47	4.15	0	0	0	0	0	0	3	75	0	0	1	25	0	4		
34	Sitamarhi	12	-	-	0.39	2.92	0	0	0	0	0	0	9	75	3	25	0	0	0	12		
35	Siwan	19	0.09	0.31	0.04	3.12	2	11	0	0	0	0	15	79	2	11	0	0	2	17		
36	Supaul	25	0.04	2.21	0.07	0.84	19	76	1	4	0	0	5	20	0	0	0	0	20	5		
37	Vaishali	14	0.12	1.22	0.3	2.36	4	29	0	0	0	0	9	64	1	7	0	0	4	10		
	Total	594	0.12	1.79	0.00	5.51	178	30	13	2	6	1	338	57	49	8	8	1	197	395		

3.4.2 Decadal Mean of August to August 2016

Fluctuation in water level of August 2016 with respect to decadal mean of August has been analysed for 549 HNS, which shows rise in water level in the 52% of HNS and fall in the remaining 48% of HNS. The rise in the range of 0 – 2 m has been observed in 47% of the HNS, spatially covers the major area in eastern part of the State and localised area in southern part. The range of 2 to 4 m rise has been recorded as patches at many locations and in an area including the part of Samastipur, Lakhisarai, Sheikhpura, Gaya, Nawada, Aurangabad and Kaimur district. Only 03 wells located in Jamui, Kaimur and district has shown rise more than 4m.

About 42 % area of the State has shown fall of water level in the range of 0 to 2m spread in Muzaffarpur, E & W Champaran, Saran, Siwan, Gopalganj, Rohtas, Kaimur, Aurangabad, Jehanabad & Arwal district and many other parts of the state. The range of 2 – 4 m has been observed as patches in about 4% area of the State. The fall of water level more than 4m has been recorded only in 9 wells. (Fig. 16, Table 17).

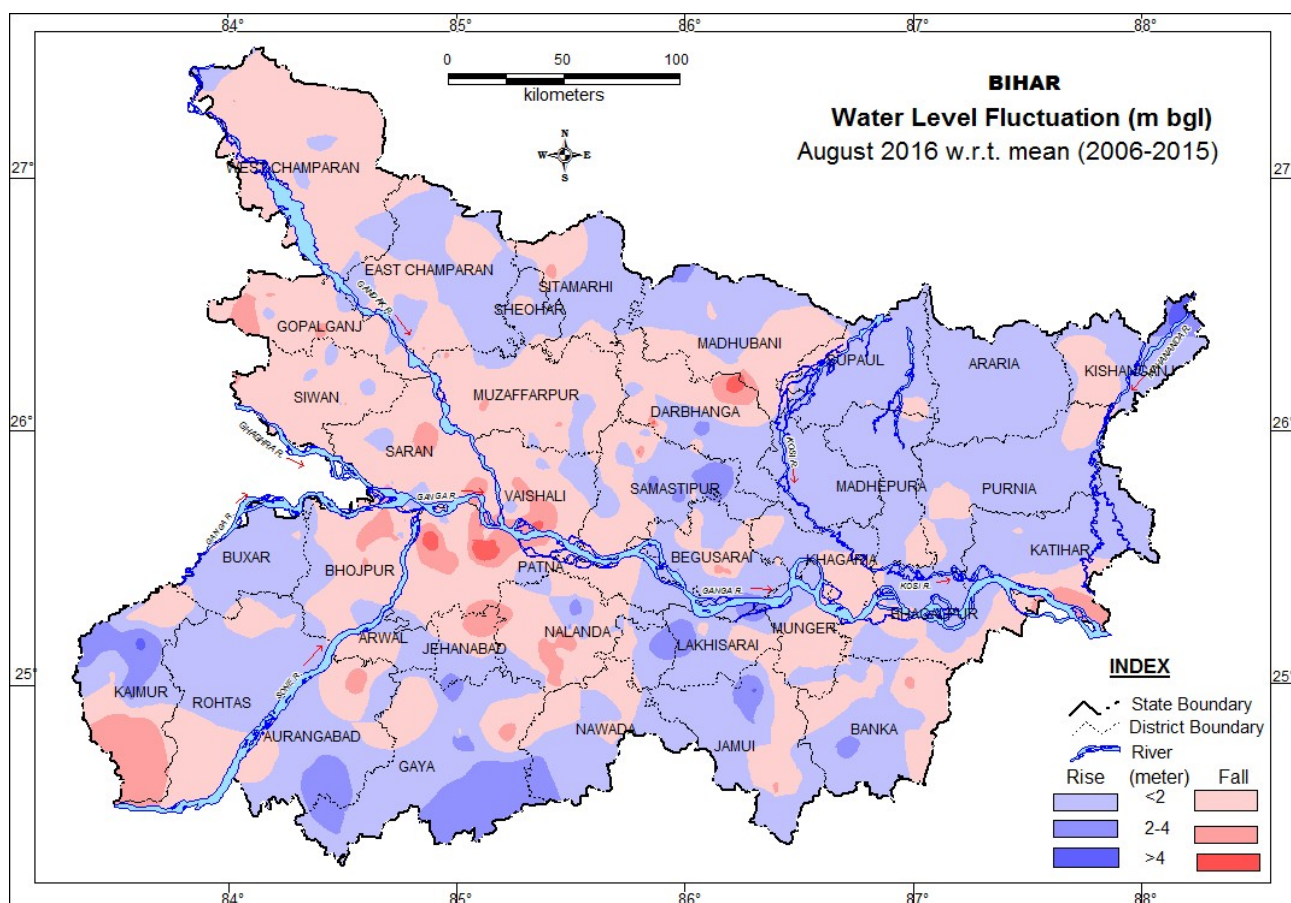


Fig. 16 Fluctuation in water level between Aug. (mean) and Aug. 2016

Table – 17 District-wise categorization of fluctuation and their frequency of water levels of HNS of Aug. 2016 w.r.t. Aug. mean (2006-2015) 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	9	0.16	0.78	0.01	0.78	6	67	0	0	0	0	3	33	0	0	0	0	6	3
2	Aurangabad	14	0.46	1.75	0.42	2.31	9	64	0	0	0	0	4	29	1	7	0	0	9	5
3	Banka	11	0.11	1.52	0.72	4.41	7	64	0	0	0	0	3	27	0	0	1	9	7	4
4	Begusarai	23	0.14	3.42	0.26	0.88	17	74	2	9	0	0	4	17	0	0	0	0	19	4
5	Bhagalpur	14	0.11	1.38	0.07	8.36	6	43	0	0	0	0	5	36	2	14	1	7	6	8
6	Bhojpur	35	0.34	5.08	0.12	1.75	14	40	13	37	4	11	4	11	0	0	0	0	31	4
7	Buxar	23	0.07	7.47			8	35	7	30	8	35	0	0	0	0	0	0	23	0
8	Darbhanga	7	0.12	1.41	0.28	1.15	3	43	0	0	0	0	4	57	0	0	0	0	3	4
9	Gaya	9	0.25	5.39	0.06	1.3	3	33	1	11	1	11	4	44	0	0	0	0	5	4
10	Gopalganj	19	0.1	1.57	0.01	2.01	4	21	0	0	0	0	14	74	1	5	0	0	4	15
11	Jamui	19	0.04	8.07	0.78	5.8	8	42	3	16	3	16	3	16	1	5	1	5	14	5
12	Arwal & Jehanabad	12	0.53	2.64	0.03	0.13	9	75	1	8	0	0	2	17	0	0	0	0	10	2
13	Kaimur	10	0.89	4.42	1.29	1.29	4	40	4	40	1	10	1	10	0	0	0	0	9	1
14	Katihar	15	0.08	0.79	0.02	1.28	10	67	0	0	0	0	5	33	0	0	0	0	10	5
15	Khagaria	15	0.14	1.59	0.18	1.58	11	73	0	0	0	0	4	27	0	0	0	0	11	4
16	Kishanganj	8	0.05	0.89	1.1	1.14	6	75	0	0	0	0	2	25	0	0	0	0	6	2
17	Lakhisarai	7	0.16	2.85	0.75	0.75	3	43	3	43	0	0	1	14	0	0	0	0	6	1
18	Madhepura	15	0.14	0.93	0.08	0.12	12	80	0	0	0	0	2	13	0	0	0	0	12	2
19	Madhubani	23	0.05	1.83	0.07	3.72	5	22	0	0	0	0	12	52	6	26	0	0	5	18
20	Munger	10	0.01	2.46	0.21	0.36	7	70	1	10	0	0	2	20	0	0	0	0	8	2
21	Muzaffarpur	23	0.19	3.45	0.03	2.61	4	17	2	9	0	0	13	57	4	17	0	0	6	17
22	Nalanda	31	0.13	4.82	0.01	1.76	19	61	0	0	1	3	11	35	0	0	0	0	20	11
23	Nawada	10	0.43	2.17	0.01	0.85	5	50	1	10	0	0	4	40	0	0	0	0	6	4
24	W Champaran	10	0.04	0.63	0.2	0.93	3	30	0	0	0	0	7	70	0	0	0	0	3	7
25	Patna	31	0.07	4.53	0.09	4.38	9	29	0	0	2	6	17	55	2	6	1	3	11	20
26	E Champaran	26		1.21	0.03	4.36	14	54	0	0	0	0	10	38	1	4	1	4	14	12
27	Purnia	18	0.01	1.73	0.9	1.38	16	89	0	0	0	0	2	11	0	0	0	0	16	2
28	Rohtas	19	0.07	4.84	1.22	2.06	13	68	1	5	2	11	2	11	1	5	0	0	16	3
29	Saharsa	14	0.28	1.1	0.05	0.49	10	71	0	0	0	0	4	29	0	0	0	0	10	4
30	Samastipur	17	0.08	2.54	0.39	2.72	6	35	1	6	0	0	9	53	1	6	0	0	7	10
31	Saran	30	0.03	3.03	0.17	2.03	12	40	3	10	0	0	14	47	1	3	0	0	15	15
32	Seikhpura	7	0.66	3.21	1.17	1.45	4	57	1	14	0	0	2	29	0	0	0	0	5	2
33	Sheohar	2	1	1	0.08	0.08	1	50	0	0	0	0	1	50	0	0	0	0	1	1
34	Sitamarhi	16	0.31	1.89	0.05	1.71	7	44	0	0	0	0	9	56	0	0	0	0	7	9
35	Siwan	17	0.01	0.61	0.09	1.9	4	24	0	0	0	0	13	76	0	0	0	0	4	13
36	Supaul	24	0.04	1.36	0.07	1.08	19	79	0	0	0	0	5	21	0	0	0	0	19	5
37	Vaishali	18	0.13	1.96	0.01	1.16	11	61	0	0	0	0	7	39	0	0	0	0	11	7
	Total	611	0.01	8.07	0.01	8.36	309	51	44	7	22	4	209	34	21	3	5	1	375	235

3.4.3 Decadal Mean of November to November 2016

Fluctuation in water level of November 2016 with respect to decadal mean of November has been analysed for 611 HNS, which shows Rise in water level ranged from 0.01 (Purnea district) to 8.07 (Jamui district) m in 61% of the HNS and fall in the remaining 39 % of HNS. Rise in the range of 0 – 2 m has been observed in 51% NHS which covers 52% area of the state including almost entire SBP And eastern part of NBP and some other patches. Rise in the range of 2-4 m and >4m has been observed in 7% and 4% NHS wells.

The fall is 34% and 3% of HNS in the range of 0-2 and 2-4 m respectively. The fall in water level >4 m has been observed in only in 5 stations located in Patna, E champaran, Gopalganj, Bhagalpur and Banka district. The fall of water level ranged from 0 to 2 m has been shown by 36% area of the State covers the major and adjoining part of Sitamarhi, Sheohar, Muzaffarpur, Samastipur, Darbhanga, Madhubani, saran, sowan, Gopalganj, E & W champaran districts and as patches at many locations. (Fig. 17, Table 18.)

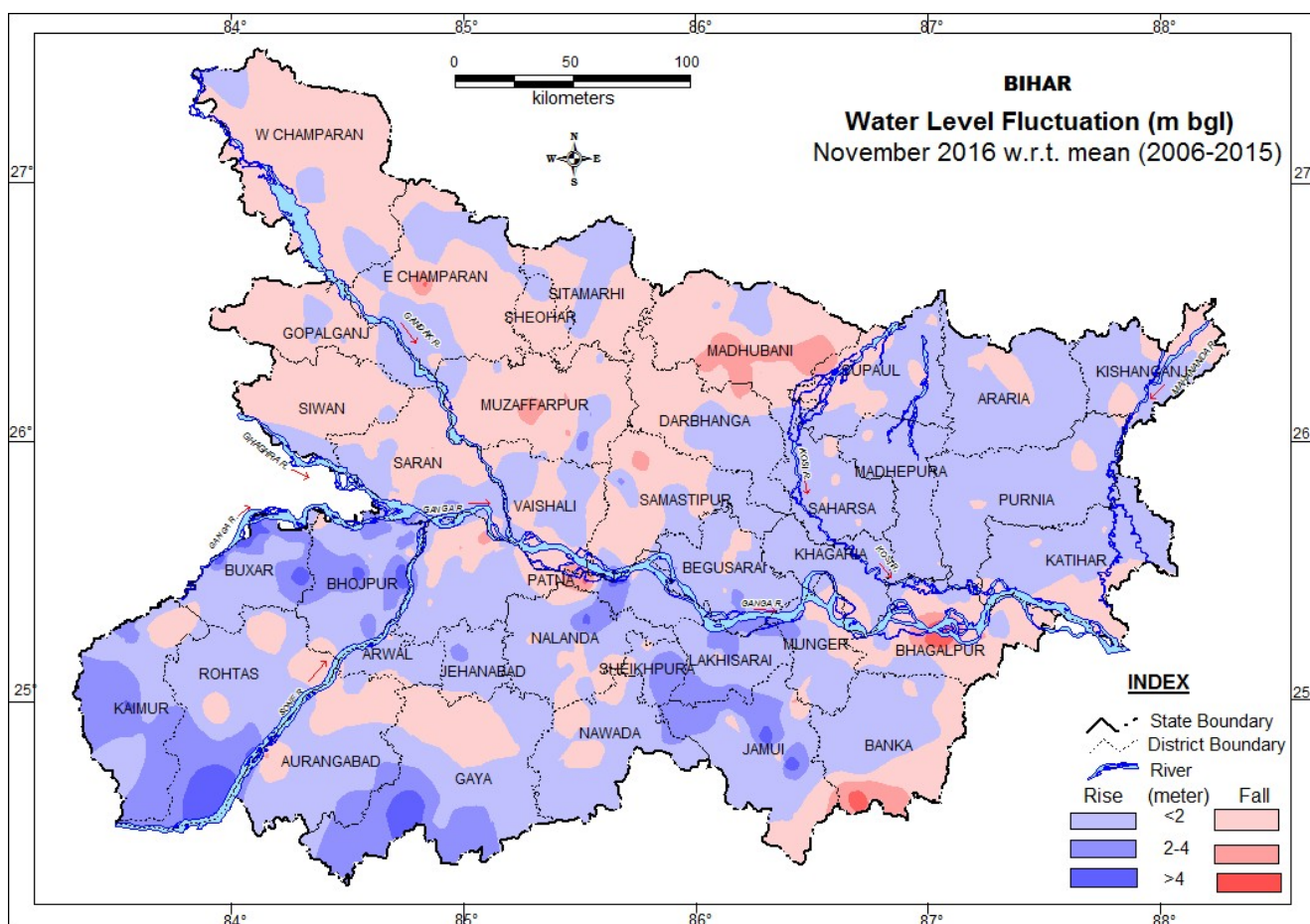


Fig. 17 Fluctuation in water level between Nov. (mean) and Nov. 2016

Table – 18 District-wise categorization of fluctuation and their frequency of water levels of HNS of Nov. 2016 w.r.t. Nov. mean (2006-2015) 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	0.16	0.78	0.01	0.78	6	67	0	0	0	0	3	33	0	0	0	0	6	3
2	Aurangabad	14	0.46	1.75	0.42	2.31	9	64	0	0	0	0	4	29	1	7	0	0	9	5
3	Banka	11	0.11	1.52	0.72	4.41	7	64	0	0	0	0	3	27	0	0	1	9	7	4
4	Begusarai	23	0.14	3.42	0.26	0.88	17	74	2	9	0	0	4	17	0	0	0	0	19	4
5	Bhagalpur	14	0.11	1.38	0.07	8.36	6	43	0	0	0	0	5	36	2	14	1	7	6	8
6	Bhojpur	35	0.34	5.08	0.12	1.75	14	40	13	37	4	11	4	11	0	0	0	0	31	4
7	Buxar	23	0.07	7.47			8	35	7	30	8	35	0	0	0	0	0	0	23	0
8	Darbhangha	7	0.12	1.41	0.28	1.15	3	43	0	0	0	0	4	57	0	0	0	0	3	4
9	Gaya	9	0.25	5.39	0.06	1.3	3	33	1	11	1	11	4	44	0	0	0	0	5	4
10	Gopalganj	19	0.1	1.57	0.01	2.01	4	21	0	0	0	0	14	74	1	5	0	0	4	15
11	Jamui	19	0.04	8.07	0.78	5.8	8	42	3	16	3	16	3	16	1	5	1	5	14	5
12	Arwal & Jehanabad	12	0.53	2.64	0.03	0.13	9	75	1	8	0	0	2	17	0	0	0	0	10	2
13	Kaimur	10	0.89	4.42	1.29	1.29	4	40	4	40	1	10	1	10	0	0	0	0	9	1
14	Katihar	15	0.08	0.79	0.02	1.28	10	67	0	0	0	0	5	33	0	0	0	0	10	5
15	Khagaria	15	0.14	1.59	0.18	1.58	11	73	0	0	0	0	4	27	0	0	0	0	11	4
16	Kishanganj	8	0.05	0.89	1.1	1.14	6	75	0	0	0	0	2	25	0	0	0	0	6	2
17	Lakhisarai	7	0.16	2.85	0.75	0.75	3	43	3	43	0	0	1	14	0	0	0	0	6	1
18	Madhepura	15	0.14	0.93	0.08	0.12	12	80	0	0	0	0	2	13	0	0	0	0	12	2
19	Madhubani	23	0.05	1.83	0.07	3.72	5	22	0	0	0	0	12	52	6	26	0	0	5	18
20	Munger	10	0.01	2.46	0.21	0.36	7	70	1	10	0	0	2	20	0	0	0	0	8	2
21	Muzaffarpur	23	0.19	3.45	0.03	2.61	4	17	2	9	0	0	13	57	4	17	0	0	6	17
22	Nalanda	31	0.13	4.82	0.01	1.76	19	61	0	0	1	3	11	35	0	0	0	0	20	11
23	Nawada	10	0.43	2.17	0.01	0.85	5	50	1	10	0	0	4	40	0	0	0	0	6	4
24	W Champaran	10	0.04	0.63	0.2	0.93	3	30	0	0	0	0	7	70	0	0	0	0	3	7
25	Patna	31	0.07	4.53	0.09	4.38	9	29	0	0	2	6	17	55	2	6	1	3	11	20
26	E Champaran	26		1.21	0.03	4.36	14	54	0	0	0	0	10	38	1	4	1	4	14	12
27	Purnia	18	0.01	1.73	0.9	1.38	16	89	0	0	0	0	2	11	0	0	0	0	16	2
28	Rohtas	19	0.07	4.84	1.22	2.06	13	68	1	5	2	11	2	11	1	5	0	0	16	3
29	Saharsa	14	0.28	1.1	0.05	0.49	10	71	0	0	0	0	4	29	0	0	0	0	10	4
30	Samastipur	17	0.08	2.54	0.39	2.72	6	35	1	6	0	0	9	53	1	6	0	0	7	10
31	Saran	30	0.03	3.03	0.17	2.03	12	40	3	10	0	0	14	47	1	3	0	0	15	15
32	Seikhpura	7	0.66	3.21	1.17	1.45	4	57	1	14	0	0	2	29	0	0	0	0	5	2
33	Sheohar	2	1	1	0.08	0.08	1	50	0	0	0	0	1	50	0	0	0	0	1	1
34	Sitamarhi	16	0.31	1.89	0.05	1.71	7	44	0	0	0	0	9	56	0	0	0	0	7	9
35	Siwan	17	0.01	0.61	0.09	1.9	4	24	0	0	0	0	13	76	0	0	0	0	4	13
36	Supaul	24	0.04	1.36	0.07	1.08	19	79	0	0	0	0	5	21	0	0	0	0	19	5
37	Vaishali	18	0.13	1.96	0.01	1.16	11	61	0	0	0	0	7	39	0	0	0	0	11	7
	Total	611	0.01	8.07	0.01	8.36	309	51	44	7	22	4	209	34	21	3	5	1	375	235

3.4.4 Decadal Mean of January to January 2017

Fluctuation in water level of January 2016 with respect to decadal mean of January has been analysed for 592 HNS. In 66% of the HNS, rise in water level is recorded and remaining 34% HNS fall in water level has been observed. The rise in the range of 0 – 2 m has been spread in 66% area covered almost entire part of the state except some patches. The segment of 2-4m rise has been observed as patches in Sitamarhi, Samastipur, Lakhisarai, Sheikhpura, Munger, Jamui, Nalanda and Gaya districts and some other places as small patches. Only 10 wells have shown rise of water level >4m.

About 30% area of the State has shown fall in localised areas in the tune of 0 to 2 m including the part of Muzaffarpur, Sitamarhi, Sheohar E Champaran Gaya, Aurngabad and Rohtas district. The segment of 2 to 4 m fall has been observed as patches in Saran, Muzaffarpur, Bhagalpur, Patna districts and some small patches. Only 03 wells located in Patna, Jamui and Bhagalpur district has shown fall of water level more than 4 m.

(Fig. 18, Table 19).

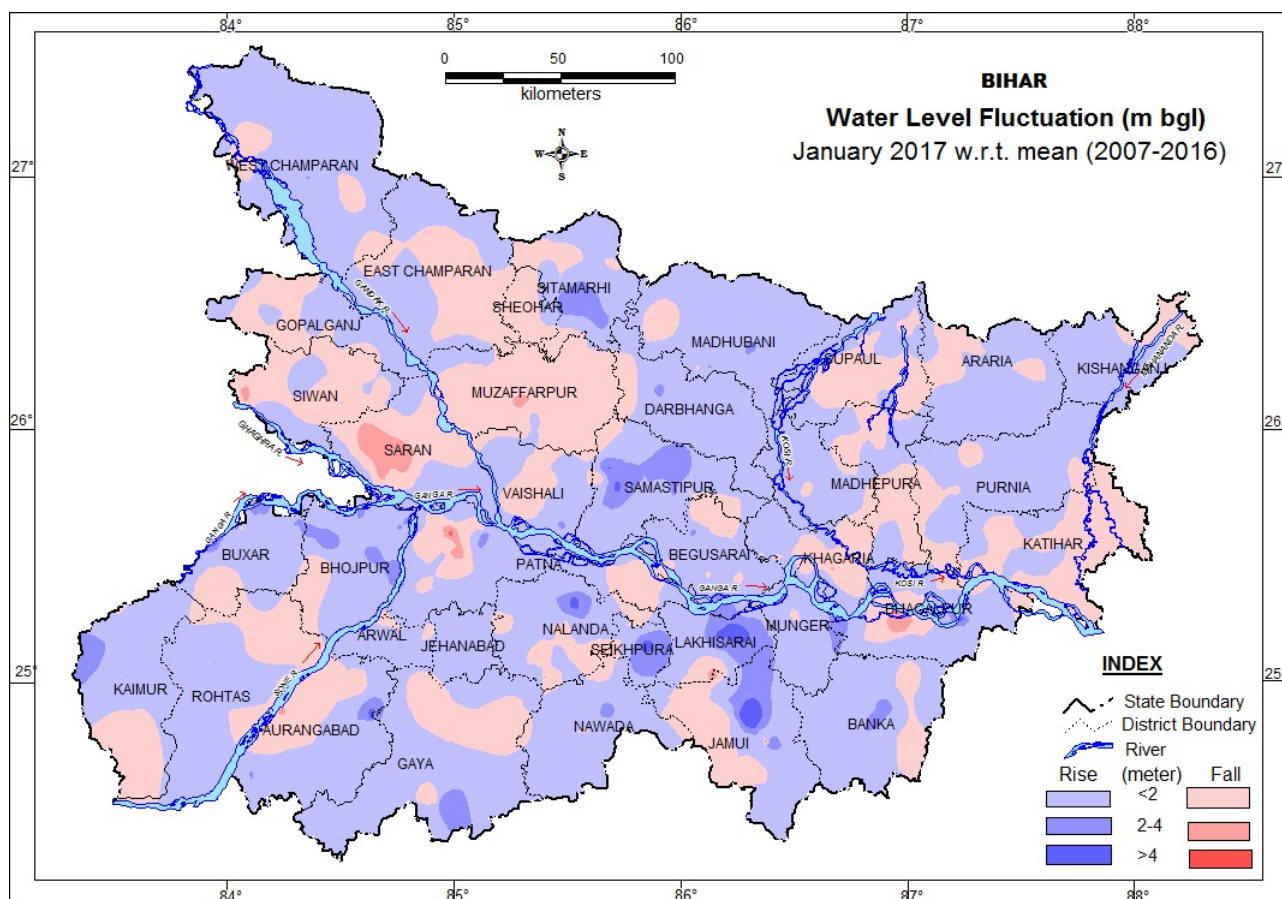


Fig. 18 Fluctuation in water level between Jan. (mean) and Jan. 2017

Table – 19 District-wise categorization of fluctuation and their frequency of water levels of HNS of Jan. 2017 w.r.t. Jan. 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	0.17	0.67	0.2	0.4	5	63	0	0	0	0	3	38	0	0	0	0	5	3		
2	Aurangabad	15	0.97	4.99	0.01	2.17	6	40	1	7	1	7	6	40	1	7	0	0	8	7		
3	Banka	14	0.19	2.3	0.11	0.79	9	64	2	14	0	0	3	21	0	0	0	0	11	3		
4	Begusarai	23	0.02	2.54	0.24	2.08	17	74	2	9	0	0	3	13	1	4	0	0	19	4		
5	Bhagalpur	14	0.14	4.74	0.15	4.06	7	50	2	14	1	7	3	21	0	0	1	7	10	4		
6	Bhojpur	35	0.3	3.18	0.5	0.5	26	74	8	23	0	0	1	3	0	0	0	0	34	1		
7	Buxar	22	0.36	5.45	0.18	0.54	13	59	6	27	1	5	2	9	0	0	0	0	20	2		
8	Darbhanga	6	0.76	2.27	0.68	0.68	4	67	1	17	0	0	1	17	0	0	0	0	5	1		
9	Gaya	7	0.21	2.76	0.26	0.82	2	29	1	14	0	0	4	57	0	0	0	0	3	4		
10	Gopalganj	19	0.02	0.95	0	1.75	8	42	0	0	0	0	11	58	0	0	0	0	8	11		
11	Jamui	17	0.07	7.07	0.41	4.04	9	53	2	12	1	6	3	18	1	6	1	6	12	5		
12	Jehanabad	12	0.49	1.83	0.06	0.7	9	75	0	0	0	0	3	25	0	0	0	0	9	3		
13	Kaimur	8	0.2	3.03	0.26	0.74	5	63	1	13	0	0	2	25	0	0	0	0	6	2		
14	Katihar	15	0.02	0.7	0.02	1.33	7	47	0	0	0	0	8	53	0	0	0	0	7	8		
15	Khagaria	15	0.03	1.02	0.11	2.22	6	40	0	0	0	0	8	53	1	7	0	0	6	9		
16	Kishanganj	7	0.14	1.47	2.04	2.04	6	86	0	0	0	0	0	0	1	14	0	0	6	1		
17	Lakhisarai	6	0.53	5	-	-	3	50	2	33	1	17	0	0	0	0	0	0	6	0		
18	Madhepura	17	0.26	1.02	0.03	1.74	6	35	0	0	0	0	11	65	0	0	0	0	6	11		
19	Madhubani	24	0.08	2.2	0.22	0.6	19	79	2	8	0	0	2	8	0	0	0	0	21	2		
20	Munger	9	0.07	1.48	0.01	0.14	7	78	0	0	0	0	2	22	0	0	0	0	7	2		
21	Muzaffarpur	20	0.13	0.56	0.07	2.19	5	25	0	0	0	0	14	70	1	5	0	0	5	15		
22	Nalanda	30	0.04	5.08	0.35	2	18	60	0	0	1	3	11	37	0	0	0	0	19	11		
23	Nawada	10	0.05	2.63	0.06	0.3	7	70	1	10	0	0	2	20	0	0	0	0	8	2		
24	W. Champaran	11	0.08	2.06	0.16	0.64	7	64	1	9	0	0	3	27	0	0	0	0	8	3		
25	Patna	25	0.11	3.52	0.01	4.69	10	40	2	8	0	0	10	40	2	8	1	4	12	13		
26	E. Champaran	24	0.08	0.98	0.02	1.7	13	54	0	0	0	0	10	42	0	0	0	0	13	10		
27	Purnia	18	0.01	1.97	0.04	0.69	11	61	0	0	0	0	7	39	0	0	0	0	11	7		
28	Rohtas	16	0	1.89	0.14	1.54	10	63	0	0	0	0	6	38	0	0	0	0	10	6		
29	Saharsa	17	0.02	1.81	0.29	0.29	16	94	0	0	0	0	1	6	0	0	0	0	16	1		
30	Samastipur	18	0.02	4.31	0.7	0.7	11	61	4	22	2	11	1	6	0	0	0	0	17	1		
31	Saran	26	0.04	2.71	0.25	3.47	12	46	1	4	0	0	8	31	4	15	0	0	13	12		
32	Seikhpura	7	0.84	4.58	0.16	1.13	3	43	0	0	1	14	3	43	0	0	0	0	4	3		
33	Sheohar	3	0.48	0.48	0.53	1.05	1	33	0	0	0	0	2	67	0	0	0	0	1	2		
34	Sitamarhi	16	0.18	4.05	0.03	0.89	9	56	2	13	1	6	4	25	0	0	0	0	12	4		
35	Siwan	17	0.01	0.85	0.01	2.77	7	41	0	0	0	0	9	53	1	6	0	0	7	10		
36	Supaul	24	0.03	0.61	0.01	1.07	13	54	0	0	0	0	11	46	0	0	0	0	13	11		
37	Vaishali	17	0.15	2.62	0.39	1.42	11	65	1	6	0	0	5	29	0	0	0	0	12	5		
	Total	592	0.48	0.97	0.00	4.69	338	57	42	7	10	2	183	31	13	2	3	1	390	199		

4. HYDROCHEMISTRY

In order to assess the chemical quality of ground water of phreatic aquifers of Bihar 595 ground water samples have been analysed for 15 major parameters viz. EC, pH, HCO₃, CO₃, Cl, F, NO₃, PO₄, SO₄, TH, Ca, Mg, K, Na, SiO₂. 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 (63% area of total area of the state) EC value within the range of 250-750 $\mu\text{s/cm}$ @ 25⁰C. In few well located in Rohtas, Nalanda, Sheikhpura, Lakhisarai, Begusarai and Khagaria district contains EC value >2250 $\mu\text{s/cm}$ @ 25⁰C has also been found.

HCO₃ contour map (**Fig:20**) shows HCO₃ concentration >750 mg/l in small patch like area in Khagaria, Madhepura and Sheikhpura district. 49% of total area shows HCO₃ value in the range of 250-500 mg/l. 32% area shows HCO₃ concentration within the range of <250 mg/l. small patches of Aurangabad, Sheikhpura, Nalanda, Gaya Khagaria, Saharsa, Darbhanga and Supaul district are within the range of 500-750 mg/l HCO₃ 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 2016

Chemical Parameters	Minimum	Maximum
pH	6.71	9.07
EC micromhos/cm at 25°C	94.4	3496
TDS (mg/l)	0	2272.4
F ⁻ (mg/l)	0	4.86
Cl ⁻ (mg/l)	0.56	797.85
HCO ₃ ⁻ (mg/l)	31.11	1018.7
CO ₃ ²⁻ (mg/l)	0	45
SO ₄ ²⁻ (mg/l)	0	313
NO ₃ ⁻ (mg/l)	0	288
PO ₄ ³⁻ (mg/l)	0	1.55
SiO ₂ (mg/l)	0	55.12
TH (mg/l)	16.95	1245
Ca ²⁺ (mg/l)	4	338
Mg ²⁺ (mg/l)	0	181.2
Na ⁺ (mg/l)	0.96	497
K ⁺ (mg/l)	0	386.72

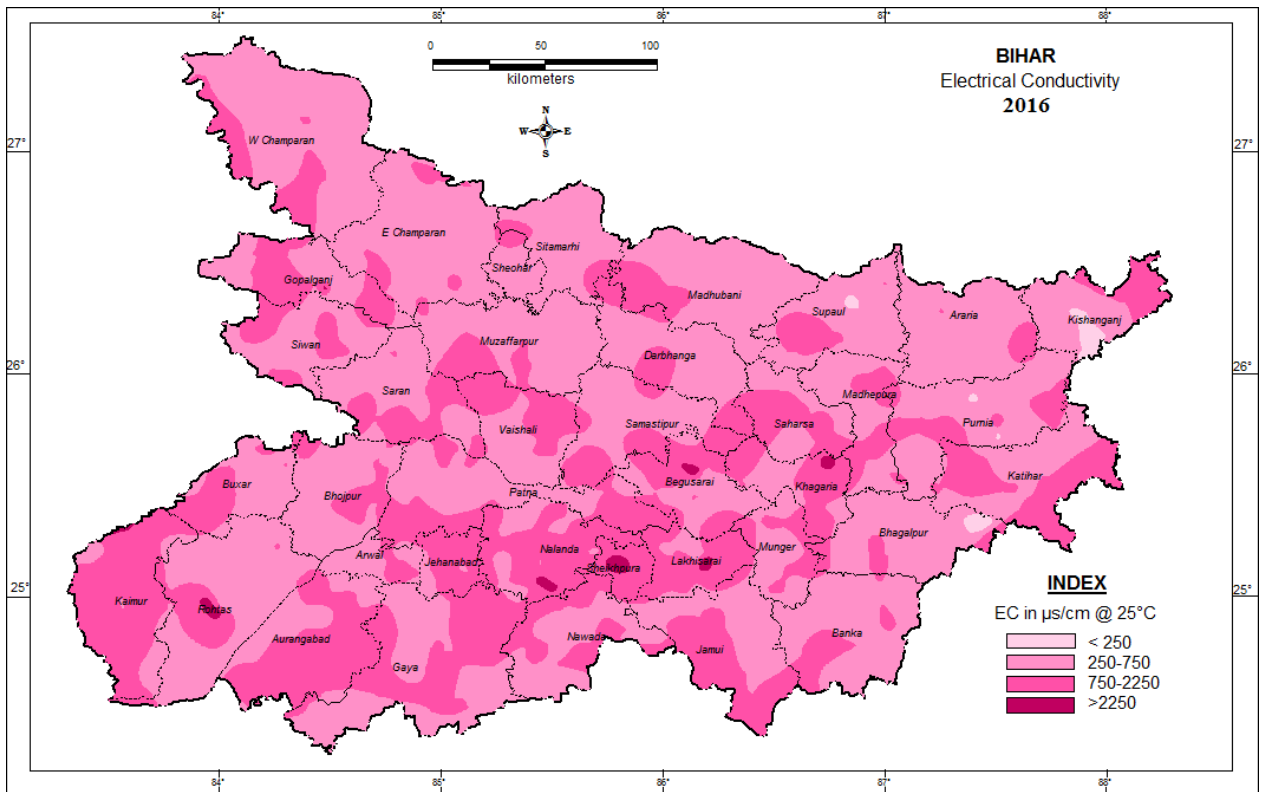


Fig.19 EC contour map of Bihar (2016)

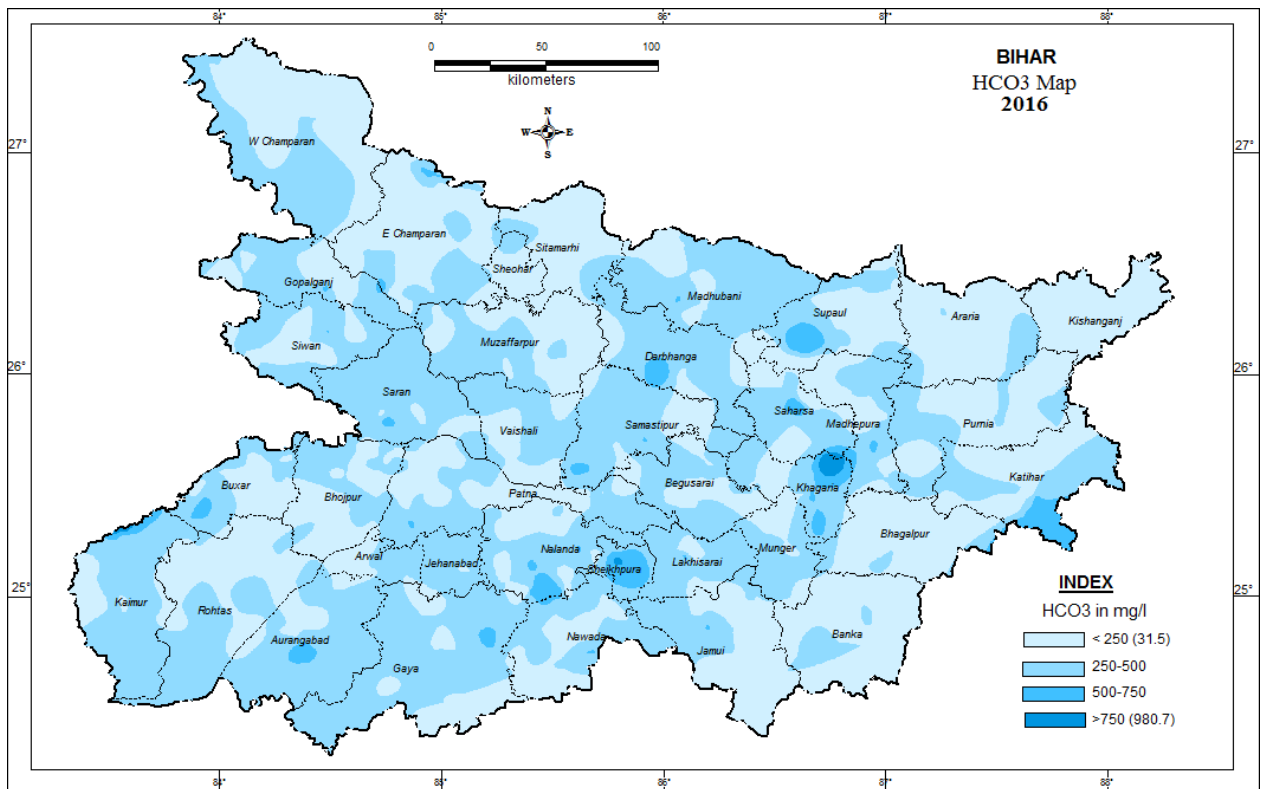


Fig.20 HCO₃ contour map of Bihar (2016)

5. RAINFALL DATA ANALYSIS

The study of rainfall data indicates that in the year 2015 Bihar has received normal rainfall during the monsoon period after a deficit rainfall in the previous year and same is reflected in the unconfined aquifer. The district wise monthly rainfall for Bihar and percent departure has been given in Annexure-III. More than 20% excess in monsoon rainfall occurred in Araria, Arwal, Aurangabad, Banka, Gaya, Kishanganj and Supaul districts of Bihar. However less than 20% deficit in monsoon rainfall has been observed in E Champaran, Gopalganj, Katihar, Muzaffarpur, Saharsa, Saran, Sheohar, Sitamarhi and Siwan district. The depth to water level during Aug'16 revealed that 53% 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 '16 water levels, out of 611 wells analysed, 375 (52%) wells showed rise in water level and out of which 51% of wells showed rise in the range of <2m. 48% wells have shown fall in water level. Hence, the phreatic aquifer is in tune with the vagaries of normal monsoon.

6. TREND ANALYSIS DURING PRE AND POST MONSOON

Trend of the ground water level for the last ten year (2007-2016) 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 – IV. From long term water level trend data it has been observed that more than 50% NHS wells have shown falling trend in 25 districts in premonsoon period and 23 districts in Postmonsoon period. The post monsoon data of Araria, Aurangabad, Begusarai, Bhagalpur, Buxar, Gaya, Gopalganj, Jamui, Katihar, Khagaria, Lakhisarai, Madhubani, Munger, Muzaffarpur, Nalanda, Nawada, Patna, E Champaran, Purnia, Saharsa, Samastipur, Sitamarhi 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	May	Aug	Nov	Jan
Araria	Araria	4.6	-	3.28	3.6
Araria	Bhargama	3.22	1.38	2.08	2.71
Araria	Bathnaha 1	3.98	2	2.93	3.95
Araria	Bathnaha_badres	5.73	1.4	2.45	Road Jam
Araria	Haripur	2.76	1.5	1.95	3.04
Araria	Matiyari	3.85	1.15	2.7	3.31
Araria	Jokihat1	2.97	1	2.25	2.32
Araria	Pallasi	Dry	2.01	2.66	Dry
Araria	Palasi	2.23	1.1	2.66	2.66
Araria	Raniganj	4.5	1.4	2.28	2.79
Aurangabad	Aurangabad	7.57	0.15	0.75	4.78
Aurangabad	Patraya	Dry	0.05	2.82	4.38
Aurangabad	Barun	10.2	Partially filled	Partially filled	10.11
Aurangabad	Narari Kala	11.5	3.7	10.3	10.79
Aurangabad	Daudnagar	6.39	-	3.2	4.56
Aurangabad	Deo1	8.03	0.05	2	2.78
Aurangabad	Deohara_goh	9.79	6.92	6.85	8.33
Aurangabad	Dhobi Tola_Goh	5.79	1.31	2.43	3.88
Aurangabad	Etwan	3.64	1.12	2.24	2.62
Aurangabad	Madanpur	7	0.05	1.2	2.02
Aurangabad	Pataya	6.7	0.05	0.95	2.41
Aurangabad	Dhanibar	8.71	4.35	5.2	4.89
Aurangabad	Mahauli	6.8	2.37	3.4	4.3
Aurangabad	Nabinagar dbib	4.62	0.15	0.58	0.82
Aurangabad	Obra	6.48	3.03	4.57	5.44
Aurangabad	Rafiganj	9.76	5.15	3.38	5.66
Aurangabad	Tineri Morh	6.38	0.12	1.2	2.31
Banka	Amarpur ps	5.16	4.1	3.63	1.77
Banka	English More	3.16	0.38	1.21	1.32
Banka	Rampur	1.78	1.5	2.04	0.58
Banka	Banka ps	5.1	0.66	1.82	1.2
Banka	Barahat	5.67	2.3	2.25	3.55
Banka	Baunsi	5.89	3.94	4.64	4.98
Banka	Tinmurty	5.2	1.87	2.35	3.19
Banka	Chandan	5.04	2.34	8.6	3.18
Banka	Panjwara	5.23	4.27	4.68	2.45
Banka	Katoria	7.76	0.88	3.82	5.74
Banka	Rajaun ps	8.9	7.02	4.78	7.02
Banka	Fulidumer	3.97	0.87	-	1.2
Banka	Kharharia	4.3	1.32	-	2.53
Banka	Mirjapur	5.2	1.84	-	4.02

Banka	Sambhuganj	4.9	2.26	1.82	2.46
Begusarai	Baraun mile	-	1.84	Filled with garbage	Filled with garbage
Begusarai	Kumharson	5.48	3.46	3.38	4.03
Begusarai	Naya Nagar Dularpur	6.61	2.02	1.7	4.1
Begusarai	Teghra	8.7	3.05	5.35	7.14
Begusarai	Bagrash	7.29	3.92	4.8	5.96
Begusarai	Bakhari_salauna	6.2	4.78	3.83	4.65
Begusarai	Manjaul	5.57	2.89	5	4.65
Begusarai	Peernagar	5.74	4.02	5.1	5.15
Begusarai	Simri	6.06	3.92	4.29	5.76
Begusarai	Parihara	6.52	3.53	4.1	4.83
Begusarai	Begusarai	6.1	1.68	2.55	4.43
Begusarai	Harpur	6.75	1.98	1.5	3.43
Begusarai	Begusarai fc_ib	6.2	1.76	2.7	4.49
Begusarai	Gopalpur	6.8	5.56	2.72	5.02
Begusarai	Haridia	6.48	5.27	1.9	3.78
Begusarai	Kaithma	9.42	2.03	4.38	4.93
Begusarai	Lakho	7.43	2.11	2.26	5.29
Begusarai	Matihani	9.3	2.73	5.2	7.24
Begusarai	Mohanpur Usrai	6.5	3.3	5.48	5.31
Begusarai	Pokharia	6.68	2.09	3.95	5.83
Begusarai	Aghara	8.17	5.82	5.01	5.03
Begusarai	Cheriabariarpur	6.08	3.3	4.5	4.97
Begusarai	Kumbhidera	5.45	4.55	2.29	4.62
Begusarai	Badalpura	11.3	2.61	5.15	5.11
Begusarai	Bintoli	8.4	2.89	4.68	5.21
Bhagalpur	Bihpur ib	Dry	2.23	Dry	Dry
Bhagalpur	Marwa	5.93	Water logged	-	4.04
Bhagalpur	Ghoga rly stn	5.14	1.56	2.03	3.36
Bhagalpur	Harchandpur	4.1	Water logged	2.96	1.7
Bhagalpur	Jagnathpur	7.69	Water logged	6.23	5.78
Bhagalpur	Kahalgaon rlyco	6.59	5.25	9.6	3.62
Bhagalpur	Madrauni Chowk	6.68	0.7	2.5	4.77
Bhagalpur	Bhagalpur city	13.07	8.2	12.31	13.25
Bhagalpur	Jagadishpur	4.02	1.26	0.91	1.13
Bhagalpur	Naugachhia h.s	6.37	0.23	1.76	3.94
Bhagalpur	Pirpainti db.ib	5.68	Water logged	4.47	4.26
Bhagalpur	Sabaur	6.98	Water logged	11.2	4.67
Bhagalpur	Shahkund db.ib	7.37	3.26	4.23	5.32
Bhagalpur	Akbarnagar stn	5.28	2.1	2.47	3
Bhagalpur	Asarganj	-	-	2.86	1.5
Bhagalpur	Sultanganj	6.64	Water logged	5.98	4.5
Bhojpur	Jarawarpur Milki	5.94	Flooded	3.32	4
Bhojpur	Bakhorapur	6.97	Flooded	3.47	5.05
Bhojpur	Balua	10.15	Flooded	3.5	8.9

Bhojpur	Barahara	9.5	Flooded	7.45	8.68
Bhojpur	Dhusaria	8.95	Flooded	5.13	6.38
Bhojpur	Ekauna	8.43	Flooded	4.28	6.68
Bhojpur	Farhda	7.88	Flooded	3.76	5.68
Bhojpur	Jagatpur	8.01	Flooded	2.47	4.48
Bhojpur	Milki	6.84	Flooded	4.81	3.67
Bhojpur	Simariya	8.2	Flooded	5.77	6.33
Bhojpur	Bihiya	5.51	Flooded	2.17	3.06
Bhojpur	Garhani	6.45	3.38	2.15	3.5
Bhojpur	Jagadishpur I	6.1	2.42	1.76	5
Bhojpur	Birampur	8.13	7.22	Filled with garbage	7.11
Bhojpur	Giddha	7.23	6.26	5.18	5.9
Bhojpur	Inglishpur	7.9	7.91	4.69	6.05
Bhojpur	Kulharia	8.2	8.2	5.28	6.22
Bhojpur	Lodhipur	9.48	Flooded	3.05	7.03
Bhojpur	Mokhlisa	7.92	Flooded	4.54	6.53
Bhojpur	Muhammadpur	7.7	7.12	5.71	6.29
Bhojpur	Pachrukhiya	8.28	6.81	5.49	5.63
Bhojpur	Rajapur Bazar	8.37	7.03	4.87	6.19
Bhojpur	Sakkadi	6.05	3.25	6.23	3.02
Bhojpur	Songhata	8.33	Flooded	4.86	6.07
Bhojpur	Pirro	Road damaged	2.43	2.7	Partially filled
Bhojpur	Guljarpur	6.4	Flooded	2.88	5.8
Bhojpur	Kori	6.35	4.71	2.58	4.32
Bhojpur	Nasratpur	8.77	7.24	2.75	5.97
Bhojpur	Pauna	6.6	3.01	2.46	3.48
Bhojpur	Sandesh	7.02	4.45	1.45	2.02
Bhojpur	Karnempur	5.17	Flooded	5.06	5.39
Bhojpur	Chandawa	5.8	4.53	3.04	2.74
Bhojpur	Harnath Kundi	5.15	Flooded	2.1	3.37
Bhojpur	Kasap	5.58	3.49	1.33	1.42
Bhojpur	Sasaram Chota	6.07	Flooded	2.8	3.66
Bhojpur	Udwantnagar	5.95	1.99	0.7	0.62
Buxar	Bagen Bazar	7.6	3.82	2.39	5.79
Buxar	Barhampur	10.6	4.7	3.86	5.3
Buxar	Hathilpur	9.2	5.1	3.01	5.45
Buxar	Jugia Dera	7.45	5.2	3.6	6.11
Buxar	Khochariwan	6.19	4.93	4.9	6.74
Buxar	Mharajgunj	6.22	Flooded	4.01	7.4
Buxar	Raghunathpur	7.7	Flooded	5.68	6.7
Buxar	Buxar(SSA)	6.24	2.43	2.75	4.1
Buxar	Chausa	2.16	1.1	1.18	1.43
Buxar	Churamanpur DW	8.46	3.01	2.45	6.55
Buxar	Danikutia	7.95	Flooded	2.88	3.35
Buxar	Dudharchak	9.7	Flooded	Filled with garbage	8.18

Buxar	Kritpur	9.98	4.9	1.98	3.33
Buxar	Mishrvalia	7.74	Road damaged	2.01	3.3
Buxar	Ramobariya	9.8	Road damaged	2.45	4.77
Buxar	Thodagaon	7.75	5.32	3.28	Filled with garbage
Buxar	Dumraon	10.9	7.02	6.11	7.34
Buxar	Rajpur	3.54	1.02	2.28	3.76
Buxar	Barka Rajpur	8.66	Flooded	1.98	4.57
Buxar	Dumri	5.47	Flooded	4.48	3.37
Buxar	Durasan	8.24	Flooded	4.43	5.35
Buxar	Karathar	7.56	Flooded	3.61	5.73
Buxar	Manikpur	11.45	Flooded	3.71	8.5
Buxar	Neazipur	7.37	Flooded	2.17	4.91
Buxar	Sohiar	7.94	Flooded	2.11	6.2
Darbhangha	Darbhangha	2.77	1.7	Well cap locked	0.19
Darbhangha	Bithauli	7.79	4.66	2.1	3.01
Darbhangha	Jorja	6.9	4.2	3.12	2.63
Darbhangha	Bahera	5.41	3.97	2.7	2.91
Darbhangha	Baheri	4.9	2.67	2.95	1.71
Darbhangha	Baheri I	4.9	3.24	2.95	1.71
Darbhangha	Barhi Tola	5.71	3.24	Partially filled	Partially filled
Darbhangha	Hayaghat	Filled	Filled	Filled	Filled
Darbhangha	Pouram	9	3.7	4.42	4.08
Darbhangha	Keoti	4	4	3.54	Partially filled
Darbhangha	Dharampur(ujan)	Damaged	7.4	Damaged	Damaged
Darbhangha	Sakari	5.68	5.75	0.57	Partially filled
Darbhangha	Sakari I	5.68	4	Filled	Filled
Darbhangha	Simri (bithauli)	5.61	2.12	3.71	3.55
Gaya	Akauna	7.05	Water logged	2.01	3.14
Gaya	Banke Bazar	5.58	0.5	2.51	3.87
Gaya	Bhadeya	4.15	0.6	2.24	3.4
Gaya	Dobhi	7.6	2	3.38	4.82
Gaya	Paligaon	5.25	2.12	Dry	Dry
Gaya	Bodh Gaya	7.05	2.15	3.26	Dry
Gaya	Khandail	14.8	Dry	Dry	Dry
Gaya	Magra	6.24	0.65	1.98	3.27
Gaya	Fatehpur	6.83	1.56	4.47	5.13
Gaya	Bitho Sharif I	8.86	3.08	3.98	Dry
Gaya	Chakand	5.25	5.48	Dry	Dry
Gaya	Chand Chowra Chowk	8.45	2.86	5.9	5.39
Gaya	Ram Kund	5.71	4.25		5.22
Gaya	Sangat Gali	8.45	1.64		6.22
Gaya	Gururu	6.15	2.07	1.65	2.65
Gaya	Raghunath Khap	9.3	3.4	2.3	3.86

Gaya	Baseta	4.83	0.8	2.05	2.65
Gaya	Konch	10	4.37	2.81	4.73
Gaya	Manpur	7.5	1.89	6.06	6.33
Gaya	Dangra More	6.72	4.12	2.56	3.46
Gaya	Sherghati	4.3	1.5	Dry	Dry
Gaya	Tekari	4.43	4.63	4.88	5.21
Gaya	Wazirganj	6.53	4.73	2.2	3.63
Gopalganj	Manjwalia	4.01	4.1	3.13	3.38
Gopalganj	Barauli	3.5	3.08	2.5	2.69
Gopalganj	Bhojpurwa	4.34	2.98	1.85	3.16
Gopalganj	Bhore	4.7	5.1	4.12	4.7
Gopalganj	Rampur2	3.72	1.76	3.2	1.43
Gopalganj	Turkaha	3	0.73	1.3	1.44
Gopalganj	Yadavpur Sukal	6.34	4.63	3.8	4.1
Gopalganj	Hathua 1	4.87	4.03	3.27	3.7
Gopalganj	Jamunaha	5.28	4.22	5.35	5.9
Gopalganj	Katea	5.7	3.09	3.05	3.25
Gopalganj	Katiya	4.93	3.09	3.05	3.25
Gopalganj	Lala Pachmawa	5	5.04	4.17	4.45
Gopalganj	Misirbatha 1	6.28	5.44	4.44	4.9
Gopalganj	Jalalpur 1	3.84	3.39	3.2	3.12
Gopalganj	Kuchaikot	2.48	2.1	1.56	2.2
Gopalganj	Bangra	4.36	2.11	3.6	3.8
Gopalganj	Bangra Deoria	4.75	2.13	3.46	3.5
Gopalganj	Bishambarpur	4.7	3.93	3.65	3.9
Gopalganj	Chanwabe	6.32	6.32	4.1	2.92
Gopalganj	Lachchwar	3.76	3.11	2.07	2.64
Gopalganj	Manjhwa	4.07	2.86	2.47	3.16
Gopalganj	Manjhwa 1	4.01	2.86	2.47	3.16
Gopalganj	Nunachapra	3.7	1.48	2.9	3.1
Gopalganj	Phulwariya	3.7	3.17	Filled with garbage	Filled with garbage
Jamui	Chakai	9.6	3.4	4.62	4.6
Jamui	Chakai B	6.12	7.5	5.08	5.16
Jamui	Tarakhakhar	11.64	7.23	9.22	10.1
Jamui	Aghara	4.87	1.67	1.6	2.57
Jamui	Jamui	10.71	5.47	7.7	8.38
Jamui	Manjhwe	10.15	1.85	1.74	7.6
Jamui	Ambedkar Nagar	10.86	6.36	4.6	5.97
Jamui	Chandramanita	5.5	2.36	3.18	3.8
Jamui	Chandwari	10.84	8.48	14.5	9.5
Jamui	Harna	5.74	7.99	2.42	3.92
Jamui	Jhajha	11.25	Road damaged	1.15	Partially filled
Jamui	Gidhaur O	3.95	2.35	6	3.6
Jamui	Purna Khaira	4.93	1.03	2.19	2.88
Jamui	Gidhaur	Partially filled	5.4	Partially filled	Partially filled
Jamui	Lalmatia	4.92	2.8	3.55	2.51

Jamui	Laxmipur	10.88	1.14	1.82	1.98
Jamui	Sandipi	9.94	1.7	5.46	5.03
Jamui	Sikandra	6.3	2.36	0.48	4.42
Jamui	Batia	15.8	10.71	11.56	11.85
Jamui	Batia1	Dry	11.8	11.56	11.83
Jamui	Sono	7.57	3.8	3.83	4.07
Jehanabad	Arwal	Partially filled	2.88	4.48	5.85
Jehanabad	Arwal1	Partially filled	2.88	4.48	3.51
Jehanabad	Dirpal Bigha	-	Road damaged	Road damaged	Road damaged
Jehanabad	Madhubani	5.33	Road damaged	2.69	3.75
Jehanabad	Ghoshi	7.5	3.6	2.32	3.67
Jehanabad	Hulasganj	7.5	3.39	3.07	3.61
Jehanabad	Kako	7.8	7.12	3.01	4.3
Jehanabad	Lakhwar	4.9	Road damaged	2	2.56
Jehanabad	Gaurakhini	9.81	5.74	5.17	5.91
Jehanabad	Jahanabad hosp.	4.51	Covered with bushes	3.28	3.87
Jehanabad	Teni Bigha	3.63	3.47	2.02	2.24
Jehanabad	Bairbigha	5.63	1.98	3	4.37
Jehanabad	Imamganj	6.29	1.9	2.63	3.85
Jehanabad	Karpi	5.6	1.98	Filled	Filled
Jehanabad	Kinjer	Filled	Well covered & sealed	Well covered & sealed	4.09
Jehanabad	Jhunathi	6.76	Road damaged	2.96	5.72
Jehanabad	Kurtha bdo	3.97	0.68	1.72	2.18
Jehanabad	Alubikha	5.5	Road damaged	2.39	4.77
Jehanabad	Makhdumpur	6.1	3.16	2.44	Gate locked
Kaimur	Adhaura	Law & order problem	Law & order problem	Law & order problem	Law & order problem
Kaimur	Bhabhua	8.2	8.86	4.16	8.44
Kaimur	Saraiya	Partially filled	4.06	5.08	8.13
Kaimur	Tori f.ck.post	6.25	2.16	3.42	5.43
Kaimur	Chainpur	9.7	3.86	2.26	5.39
Kaimur	Chand in p.s.	10.4	0.9	1.43	2.79
Kaimur	Karmanasa	Partially filled	0.61	3.83	Partially filled
Kaimur	Nuawan	5.6	Road damaged	2.65	6.18
Kaimur	Mohania	Partially filled	0.55	4.16	5.55
Kaimur	Bandipur	5.59	6.65	5.92	Closed with RCC
Kaimur	Bevnaliya	7.3	4.49	2.63	4.88
Katihar	Barari-1	4.3	2.27	2.74	4.78
Katihar	Dumaria	6.64	2.9	3.9	Partially filled
Katihar	Kursela	9.7	1.56	5.06	6.96
Katihar	Paranpur	4.56	1.05	2.13	3.32
Katihar	Dumer	6.1	Filled	Filled	Filled
Katihar	Mahendrapur	4.65	2.7	2.47	2.97

Katihar	Narahaiya	5.24	Filled with garbage	Filled with garbage	3.31
Katihar	Kadwa	4.35	1.97	3.33	4
Katihar	Sonauli	4.57	1.86	2.5	3.3
Katihar	Hafla1	4.29	2.03	2.22	2.94
Katihar	Katihar	5.75	2.62	2.94	3.6
Katihar	Khiria	5.05	3.88	3.48	4.04
Katihar	Korha	5.29	3.9	3.5	4.03
Katihar	Routru	5.84	3.02	2.86	3.01
Katihar	Manihari	8.75	7.11	6.25	7.05
Katihar	Basantpur	5.05	2.63	3.48	3.18
Katihar	Bastaul1	4.05	2.05	2.63	3.06
Khagaria	Pirnasa	5.4	1.58	-	5.11
Khagaria	Basantpur	4.28	2.43	2.4	4.5
Khagaria	Chautham	5.26	1.78	2.3	4.71
Khagaria	Maheshkhunt 1	7.46	2.38	2.73	5.58
Khagaria	Gandhinagar	5.22	2.54	1.9	5.51
Khagaria	Jamalpur	6.3	4	3.45	3.99
Khagaria	Maheshkhunt	6.88	2.54	2.73	5.58
Khagaria	Maheshkhunt _Lohiya Chowk	7.25	2.94	3.4	5.36
Khagaria	Maheshkunt	Partially filled	2.38	2.8	5.58
Khagaria	Gangaut	8	2.28	4.35	6.5
Khagaria	Ismailpur	7.77	2.38	4.68	5.93
Khagaria	Kasimpur	6.4	2.83	4.4	5.61
Khagaria	Khagaria	7.77	2.03	3.85	6.38
Khagaria	Labhgaon	8.4	2.9	4.9	6.6
Khagaria	Dewri	3.24	2.23	3.2	1.97
Khagaria	Mohaddipur	5.26	5.07	3.11	5.56
Khagaria	Salarpur	7.33	2.42	4.1	6.14
Kishanganj	Bahadurganj	3.65	1.83	2.63	2.1
Kishanganj	Bahadurganj B	4	1.42	2.32	2.6
Kishanganj	Gunsagar	4.37	2.02	-	2.61
Kishanganj	Kishanganj	3.02	0.55	1.97	2.62
Kishanganj	Bhagalbari	-	1.83	3.19	3.13
Kishanganj	Kochadhamin	3.47	0.75	2.9	2.16
Kishanganj	Kasba Kaliganj	4.32	0.46	1.4	1.82
Kishanganj	Teragachhi	3.87	0.55	2.15	2.66
Kishanganj	Thakurganj	10.52	3.5	8.15	9.5
Lakhisarai	Dariyapur	8.94	4.02	5.23	7.29
Lakhisarai	Barhaiya	8.99	0.21	5.55	6.64
Lakhisarai	Lakhisarai	11.52	5.87	8.1	4.56
Lakhisarai	Surajgarha	8.07	2.75	2.1	3.43
Lakhisarai	Arma	9.95	3.76	3.02	2.45
Lakhisarai	Rishi Paharpur	Partially filled	1.7	4.28	6.31
Lakhisarai	Saidpur	9.36	4.86	4.56	4.2
Madhepura	Abhiyatola	6.3	3.73	4	4.57

Madhepura	Chausa I	5.9	3.9	3.05	3.85
Madhepura	Ganeshpur	4.13	-	2.05	3.32
Madhepura	Bhimpura	6	1.35	2.13	2.73
Madhepura	Hatkora bazar	3.86	1.13	2.1	2.82
Madhepura	Madhepura	4.87	2.15	3.74	4.57
Madhepura	Surajganj	3.01	-	1.33	4.25
Madhepura	Gaushala Chowk	4	1.57	2.7	2.71
Madhepura	Murliganj	3.2	0.51	1.67	2.16
Madhepura	Rajui Rajni	New well	New well	New well	2.91
Madhepura	Rampur	4.8	0.97	2.72	2.88
Madhepura	Barahari	2.85	1.44	2.39	4.14
Madhepura	Jiwachhapur	3.01	2.38	2.94	3.23
Madhepura	Singeswar	4.32	2.02	2.87	3.94
Madhepura	Gwalpara	4.47	1.42	2.24	3.86
Madhepura	Kusthan	4.76	1.87	2	3.36
Madhepura	Uda Kishanganj	5.34	3.68	3.1	3.96
Madhubani	Harri	9.84	1.72	5.01	1.78
Madhubani	Babubarhi	3.95	0.76	0.88	0.96
Madhubani	Narar	3.23	1.3	2.15	2.08
Madhubani	Benipatti	2.85	0.55	Partially filled	Partially filled
Madhubani	Dhakjari	4.18	1.6	2.55	3.01
Madhubani	Kapasias	3.56	0.83	2.17	1.65
Madhubani	Baurahar Chowk	3.17	2.07	5.88	2.41
Madhubani	Harlakhi	2.14	1.72	4.66	3.15
Madhubani	Jaynagar	3.26	1.66	4.05	1.91
Madhubani	Bideshwar Asthan	6.29	3.95	6.25	4.01
Madhubani	Jhanjharpur	1.65	0.7	0.5	0.26
Madhubani	Bentadih	4.15	1.94	1.83	2.31
Madhubani	Khajauli	3.95	1.18	2.14	1.82
Madhubani	Thantola	3.2	2.59	3.12	2.75
Madhubani	Jogiya	4.3	2.62	1.12	3.53
Madhubani	Ambedkar Nagar	3.48	1.46	3.78	2.98
Madhubani	Bihari	4.95	1.67	Partially filled	2.48
Madhubani	Madhubani	2.66	1.27	Filled with garbage	1.26
Madhubani	Bhawanipur	8.12	4.03	5.39	3.11
Madhubani	Pandaul	5.75	5.15	3.96	4.45
Madhubani	Phulparas	2.41	-	2.18	2.12
Madhubani	Shambhuar	5.8	4.17	5.05	3.25
Madhubani	Kapileshwar	4.68	Water logged	6.4	2.9
Madhubani	Siswar	4.68	3.26	3.05	2.62
Madhubani	Karmanli	4.42	1.73	Partially filled	Partially filled
Madhubani	Pariharpur	6.26	1.72	6.26	2.38
Munger	Bariarpur	8.65	3.05	2.86	5.75
Munger	Singhiya chawk	5.61	Flooded	1.33	3.16
Munger	Jamalpur I	6.5	2.17	4.33	4.89

Munger	Gangta Morh	8.66	3.52	4.36	5.6
Munger	Gobadda	7.1	Water logged	3.09	2.79
Munger	Havelikharapur	7.26	Water logged	3.55	5.6
Munger	Tarapur	Partially filled	3.73	2.91	2.77
Munger	Purabsarai	Partially filled	1.81	5.43	6.65
Munger	Rampur2	5.17	1.45	1.87	2.37
Munger	Sangrampur	Partially filled	2.92	1.02	Partially filled
Muzaffarpur	Aurai	3.5	1.52	1.06	1.88
Muzaffarpur	Rajkhand	5.31	4.12	3.23	4.37
Muzaffarpur	Bhagwanpur Chowk	6.98	1.5	2.84	3.35
Muzaffarpur	Jaffarpur	3.03	4.02	3.73	3.84
Muzaffarpur	Mahammadpur Balmi	5.78	2.47	4.37	4.56
Muzaffarpur	Bochaha	7.1	6.2	6.65	6.85
Muzaffarpur	Barkurwa	10.4	4	4.89	-
Muzaffarpur	Surfuddinpur	5.43	3.05	1.56	Dry
Muzaffarpur	Muzaffarpur	6.83	4.28	5.35	5.54
Muzaffarpur	Katra 1	6.36	4.92	4.48	4.73
Muzaffarpur	Ramnagar	6.17	3.67	5.68	5.82
Muzaffarpur	Sakri chatti	3.65	2.53	2.57	3
Muzaffarpur	Turki	Partially filled	2.86	Partially filled	Partially filled
Muzaffarpur	Wazitpur	7.55	2.98	5.29	5.49
Muzaffarpur	Gargaliya	6.4	5	6.02	Dry
Muzaffarpur	Digra	5.91	3.75	-	5.06
Muzaffarpur	Japaha	6.9	4.32	6.79	6.93
Muzaffarpur	Dewaria	5.4	3.83	4.64	4.58
Muzaffarpur	Paro	5.14	4.78	3.05	3.37
Muzaffarpur	Daha Chhapra	4.17	3.42	3.12	3.19
Muzaffarpur	Rajwara	5.55	4.63	3.92	4.15
Muzaffarpur	Sahebganj	5	3.05	3.61	3.77
Muzaffarpur	Dholi	8.16	4.73	6.7	7.07
Muzaffarpur	Mahantmanihari	5.58	4.72	5.64	Dry
Muzaffarpur	Mushari	6.7	3.65	-	-
Muzaffarpur	Seho	6.99	2.93	2.15	6.55
Nalanda	Asthwan	4.46	3.45	1.78	2.06
Nalanda	Jangipur	9.54	5	4	6.22
Nalanda	Sare	11.1	4.03	3.37	4.83
Nalanda	B Sharif Rly Stn	7.7	1.63	0.6	0.73
Nalanda	Biharsharif	4.44	2.18	1.67	1.95
Nalanda	Muraura	4.34	2.2	2.3	2.62
Nalanda	Ranabigha	10	7.33	5.22	5.96
Nalanda	Sohdh	3.55	3.4	3.16	3.38
Nalanda	Ekangarsarai	4.35	Water logged	4.35	5.76
Nalanda	Parwalpur	0.75	3.23	0.75	0.94
Nalanda	Giriak	4.13	2.6	2.53	3

Nalanda	Pawapuri	3.85	3.1	2.95	3.52
Nalanda	Harnaut1	1.02	2.71	1.02	1.23
Nalanda	Hilsa	9.45	4.33	2.56	3.86
Nalanda	Karaiparsurai	4.57	1.47	2.12	2.31
Nalanda	Nischalganj	4	3.81	3.55	3.26
Nalanda	Ankuri Bazar	8.1	2.81	5.82	7.06
Nalanda	Islampur	2.92	1.32	1.68	2.02
Nalanda	Sherpur	2.8	1.83	1.56	1.93
Nalanda	Daudpur	10	7.3	5.41	5.93
Nalanda	Doiya	5.66	2.1	4.22	5.23
Nalanda	Heganpura	9.6	2.01	5.76	7.96
Nalanda	Paparnhosa	5.4	5.1	4.47	2.84
Nalanda	Vena	11.44	1.41	3.23	4.48
Nalanda	Bhui	9.06	7.45	2.87	6
Nalanda	Kundalpur	9.93	9.93	6.95	7.6
Nalanda	Nalanda	7.1	7.55	6.44	6.23
Nalanda	Nirpur	9	6.2	6.36	5.47
Nalanda	Pilkhi	6.26	3.09	2.42	4.4
Nalanda	Rajgir	9.06	6.51	5.16	5.58
Nalanda	Silao	8.57	5.32	2.82	3.44
Nalanda	Sithaura	2.04	1.83	2.04	2.6
Nawada	Tungi	5.45	2.45	4.21	4.28
Nawada	Bishunpur	5.2	1.38	2.53	3.03
Nawada	Hisua	9.24	4.93	2.5	4.37
Nawada	Roh	1.58	2.11	2.2	2.23
Nawada	Kawakol ashram	6.8	2.2	2.28	4.42
Nawada	Rupau	6.72	1.98	1.65	3.63
Nawada	Khanwa	6.45	2.5	3.32	3.37
Nawada	Garhpar	7.7	3.08	3.01	3.36
Nawada	Gonama	8	3.42	5.5	4.18
Nawada	Nawada2	9.1	3.9	5.73	6.68
Nawada	Pakribrawan Pond	1.55	2.05	1.55	3.28
Nawada	Dopata	6.93	4.72	5.12	4.23
Nawada	Meskaur	7.89	2.37	3.11	2.91
Nawada	Nawabganj	3.23	1.71	1.2	1.33
Nawada	Shahpur Morh	3.3	2.45	2.5	2.4
Nawada	Warshaliganj	2.9	1.95	1.93	2.29
Pashchim Champaran	Bagaha	4.01	1.51	3.36	3.82
Pashchim Champaran	Belwa	3.5	1.47	2.45	2.48
Pashchim Champaran	Mangalpur	4.29	1.55	3.66	3.98
W Champaran	Bettiah	2.39	1.13	1.33	1.67
W Champaran	Chanpatia	5.01	3.37	4.12	4.16
W Champaran	Gurwalia	2.93	1.43	2.78	Partially filled

W Champaran	Banspur pipra	3.17	2.21	Road jam	Road jam (Strike)
W Champaran	Lauria	3.65	2.6	3.11	3.44
W Champaran	Panchpurwa	Filled	1.33	Partially filled	Partially filled
W Champaran	Shishwania	-	2.41	3.47	3.7
W Champaran	Majhwalia	3.71	1.48	Partially filled	Partially filled
W Champaran	Korigawa Chowk	3.19	0.88	1.98	2.26
W Champaran	Ramnagar	4.87	5.08	4.64	4.63
W Champaran	Sabuni Pokhra			4.64	4.63
W Champaran	Taulaha			3.12	2.95
W Champaran	Harnatanr	4.78	3.98	3.16	3.39
W Champaran	Naurangia	4.02	2.45	-	3.56
W Champaran	Valmikinagar	3.17	1.35	-	2.25
Patna	Bakhtiarpur	9.78	-	11.47	6.57
Patna	Agwanpur	5.94	Water logged	1.46	6.01
Patna	Barh1	4.08	Water logged	0.02	5.81
Patna	Rajpura	10.64	Water logged	3.78	5.09
Patna	Shahri	5.02	Water logged	1.96	1.26
Patna	Amraha	3.32	Road damaged	1.77	2.14
Patna	Anisabad	1.83	8.69	3.5	8.63
Patna	Bishambharpur	4.77	7.57	1.85	4.3
Patna	Moriyawa	Dry	4.13	2.02	7.21
Patna	Raghopur	6.9	6.4	5.93	5.93
Patna	Bharatpura	4.41	Road jam	1.17	1.67
Patna	Din Bigha	-	-	2.45	2.26
Patna	Dulhin Bazar	5.9	5.56	3.22	4.42
Patna	Mariyawa	-	4.13	2.02	7.21
Patna	Noniatola	6.24	2.89	1.81	3.07
Patna	Khaspur	6.74	3.5	4.2	5.73
Patna	Daniyawan	8.37	1.29	Partially filled	Partially filled
Patna	Mokama	3.78	2.88	Partially filled	Partially filled
Patna	Darbeshpur	9.91	3.13	5.44	7.66
Patna	Gyaspur (purvitola)	New well	New well	New well	2.45
Patna	Lalbegam	7.25	3.8	4.16	5.16
Patna	Maner	3.31	3.77	2.36	3.29
Patna	Nagwa	7.09	1.25	2.1	2.3
Patna	Maranchi	9.01	2.64	4.48	7.18
Patna	Faridpur	6.31	5.17	1.97	3.95
Patna	Snehitola	6.95	5.88	2.33	3.13
Patna	Bali Pakar	7.23	2.36	1.41	2.01
Patna	Khazpura	7.65	Filled with garbage	Filled with garbage	Filled with garbage
Patna	Mithapur	1.19	1.35	1.38	1.23
Patna	Nandlal Chapra	-	-	1.7	8.21
Patna	Rajapur	9.42	6.4	5.32	5.89

Patna	Patna-City	2.27	1.92	1.69	7.51
Patna	Bishambharpur	New well	New well	1.85	4.3
Patna	Etwarpur	3.3	2.14	0.84	1.67
Patna	Hulas Chak	5.15	5.15	2.5	6.1
Patna	Parsa Bazar	8.12	9.42	0.54	1.66
Patna	Saristabad	New well	New well	New well	5.67
Patna	Soranpur	Partially filled	0.74	1	Partially filled
Patna	Deokali	6.22	4.58	3.42	5.8
E Champaran	Shyampur	5.24	3.31	2.06	Dry
E Champaran	Areraj	4.17	2.23	Partially filled	Partially filled
E Champaran	Dumaria	New well	New well	3.17	3.44
E Champaran	Radia	3.17	1.71	1.42	1.74
E Champaran	Chakia1	4.89	3.31	4.79	4.97
E Champaran	Uttari Gavandra	4.03	2.13	Road Jam	Road jam
E Champaran	Belai	3.83	3.17	2.67	2.63
E Champaran	Chatia	4.2	2.27	4.98	4.96
E Champaran	Chiraiya	3.45	0.73	2.93	3.4
E Champaran	Mohabbatpur	3.45	Road damaged	2.16	2.56
E Champaran	Bhakatiy Tola	4.23	3.41	2.84	3.21
E Champaran	Ghorashan	4.23	1.73	2.45	2.71
E Champaran	Murarpur	4.05	2.96	2.62	2.87
E Champaran	Sheoraha	2.8	1.76	1.58	1.32
E Champaran	Dharampur	4.53	3.75	3.12	3.62
E Champaran	Dipau	3.2	1.43	2.27	2.39
E Champaran	Rajpur	-	Road damaged	2.76	3.1
E Champaran	Dubey Tola	3.59	1.48	1.82	2.09
E Champaran	Husaini	New well	New well	2.23	2.44
E Champaran	Khajuriachowk	4.58	0.87	1.93	2.18
E Champaran	Kizerpura	5.44	3.12	2.89	3.25
E Champaran	Lala Chapra	4.28	4.74	1.88	2.04
E Champaran	Lakhwara	2.46	1.14	1.22	1.68
E Champaran	Motihari	4.82	2.23	3.81	3.98
E Champaran	Chhauradanu	2.07	1.61	2.8	-
E Champaran	Bishunpur Matiyarwan	3.64	0.82	2.34	2.56
E Champaran	Gobindganj	3.57	1.85	1.38	2.52
E Champaran	Patahi	4.84	2.03	4.35	4.56
E Champaran	Raghunathpur	3.51	0.31	1.55	1.77
E Champaran	Raxaul	3.23	3.36	3.75	3.83
E Champaran	Chhapwa	Partially filled	0.73	2.51	3.03
E Champaran	Bairiya Bazar	5.38	2.39	3.76	4.02
E Champaran	Nawada1	5.06	2.35	2.76	Dry
Purnia	Amour	5.48	3.4	3.05	3.17
Purnia	Bansbari	5.4	2.15	4.03	Partially filled
Purnia	Baisi2	2.04	0.57	2.42	3.9
Purnia	Chadia	4.98	2.24	3.77	5.26

Purnia	Budhia Gola	4.01	2.15	2.15	3.25
Purnia	Mangujan	5.04	3.61	2.61	4.27
Purnia	Dargaha	4.26	3.31	2.54	3.18
Purnia	Amri Kukran E	5.61	3.31	2.46	3.73
Purnia	Amri Kukran W	5.5	4.46	3.57	3.96
Purnia	Banmankhi	3.84	3.85	2.36	3.03
Purnia	Dhamdaha	5.05	4.58	4.1	4.87
Purnia	Kajha	3.6	1.8	1.88	2.19
Purnia	Jalalgarh	5.11	3.3	2.53	3.41
Purnia	Kasba	6.63	3.24	4.3	4.84
Purnia	Khata Hat	3.82	2.15	2.25	3.39
Purnia	Barsoni	4.79	2.21	2.88	3.51
Purnia	Purnia	2.1	1.54	2.3	2.6
Purnia	Ranipatra	4.32	2.1	2.9	3.8
Purnia	Tikapatti Chowk	4.58	2.04	3.33	3.47
Purnia	Tilka Patti	-	1.55	2.05	3.16
Rohtas	Bikramganj pp	9.9	3.23	3.65	6.15
Rohtas	Chenari hospita	12	4.7	3.27	7.6
Rohtas	Maliabagh	7.18	3.03	5.93	5.9
Rohtas	Anikut	10.9	8.38	9.76	10.41
Rohtas	Karbindia(templ	9.05	4.5	4.58	6.85
Rohtas	Dinara1	Partially filled	1.66	2.42	Partially filled
Rohtas	Kochas	7.1	1.52	1.62	4
Rohtas	Nokha in temple	Partially filled	1.6	1.67	3.22
Rohtas	Bahaura	4.83	0.91	3.19	2.64
Rohtas	Ambwalia	5.72	0.83	1.87	2.59
Rohtas	Belthari	6.32	1.69	2.37	3.2
Rohtas	Sirisiyan	6.38	1.45	1.96	4.72
Rohtas	Jahanabad (kudra)	10.3	6.1	6.01	Partially filled
Rohtas	Rajandih	7.32	1.1	1.85	3.9
Rohtas	Nasrganj	11.24	3.48	5.17	7.9
Rohtas	Auraiya	Partially filled	Water logged	2.94	Partially filled
Rohtas	Akbarpur in bdo	12.07	Water logged	4.76	-
Rohtas	Sasaram p.o.	9.65	0.47	1.44	2.79
Rohtas	Tilothu bustand	8.92	6.8	2.46	8.8
Rohtas	Amawan	3.49	Road damaged	2.98	1.7
Saharsa	Bangaon	2.47	1.24	1.45	1.82
Saharsa	Basudeva	2.51	0.36	1.59	1.36
Saharsa	Chainpur	2.5	0.81	1.8	1.81
Saharsa	Kharakuti	3.86	1.66	2.43	2.31
Saharsa	Niralatola	4.57	-	-	2.51
Saharsa	Panchgachhi	3.5	1.39	1.96	2.22
Saharsa	Patodibazar	2.81	0.87	1.7	2.38
Saharsa	Potwaha	3.07	0.96	-	1.8

Saharsa	Saharsa I	4.05	1.59	2.1	2.92
Saharsa	Tulsiyahi	2.05	0.9	1.05	1.18
Saharsa	Sonbarsaraj I	4.92	1.71	3.25	2.02
Saharsa	Jamunia	3.1	1.33	2.4	2.27
Saharsa	Semribaktiarpur	Partially filled	1.07	1.7	1.95
Saharsa	Adrahch	3.94	0.93	2.24	2.67
Saharsa	Baidnathpur	3.71	1.47	2.18	2.76
Saharsa	Chandaur Purbi	4.21	1.08	2.03	1.9
Samastipur	Kalyanpur	7.02	3.91	4.57	4.37
Samastipur	Patapara	4.41	1.5	1.65	1.72
Samastipur	Singhia Ghat	3.98	3.2	Filled with garbage	5.22
Samastipur	Dalsinghsarai	8.91	5.49	5.1	5.51
Samastipur	Malipur	-	2.24	2.78	2.53
Samastipur	Basudebpur	7.3	4.92	5.93	3.68
Samastipur	Jakhra	7.4	4.2	4.93	4.3
Samastipur	Kishanpur I	Partially filled	8.5	Partially filled	Partially filled
Samastipur	Madudabad	8.06	5.67	6.76	5.23
Samastipur	Bajidpur	8.31	5.24	4.73	4.72
Samastipur	Shahpurpatori	7.85	4.69	5.33	4.09
Samastipur	Kerian	8.05	3.27	3.81	2.05
Samastipur	Rosera	11.1	5.85	7.68	6.62
Samastipur	Sarai Ranjan	9.3	9.3	6.41	3.18
Samastipur	Motipur	9.17	6.07	7.62	3.4
Samastipur	Tajpur I	8.8	5.8	6.15	7.12
Samastipur	Vikrampur	15	4.2	Dry	Dry
Samastipur	Dandia Asadpur	-	2.88	4.3	3.37
Samastipur	Ujiarpur	8.74	Road damaged	5.15	4
Samastipur	Jathmalpur	6.72	2.96	4.26	2.82
Saran	Jalalpur	7.8	3.1	2.6	Partially filled
Saran	Manopali	5.12	4.11	4.2	5.6
Saran	Chhapra	5.8	4.89	4.1	5.6
Saran	Chirand	8.9	4.82	2.1	3.24
Saran	Daldali Bazar A	6.64	3.24	2.44	4.11
Saran	Daldali Bazar B	6.1	3.01	Filled with garbage	Filled with garbage
Saran	Kapiya Niyamat	4.59	-	3.2	4.3
Saran	Mahuapakri	5.1	3.21	1.25	2.7
Saran	Mauna Pakri	4.72	3.24	3.8	4.9
Saran	Nagra	6.77	4.98	4.7	6.1
Saran	Taraiya	4.95	3.19	3.37	3.97
Saran	Ammi	8.81	5.31	2.53	5.6
Saran	Bishunpur	4.55	4.02	3.7	6.5
Saran	Ekma	5.09	3.97	2.59	2.96
Saran	Garkha	6.42	5.34	3.9	5.1
Saran	Minapur	7.35	3.21	1.66	2.8

Saran	Bisunpur	6.86	4.59	4.16	6.05
Saran	Rampur Kala	3.9	4.49	2.7	5.9
Saran	Majhanpura	9.82	Flooded	6.4	6.61
Saran	Majhanpura New	8.76	Flooded	4.75	5.47
Saran	Manjhi	7.97	Flooded	7.07	5.75
Saran	Manjhi 2	7.74	Flooded	5.77	6.33
Saran	Mansath	New Well		3.79	4.72
Saran	Marhaura	6.6	5.88	5.1	4.96
Saran	Masrakh	3.77	3.99	2.9	3.25
Saran	Masrakh1	5	4.45	3.52	4.22
Saran	Saguni	5.22	3.96	3.65	4.22
Saran	Saidpur	5.87	5.02	4.9	5.1
Saran	Baleshara	5.2	4.1	3.25	6.1
Saran	Sanghar Tola	13.5	Flooded	9.2	3.74
Saran	Chausia	8.24	6.04	6.27	5.54
Saran	Nayagaon	7.55	5.46	2.45	5.32
Saran	Sonepur	1.81	0.5	0.48	1.38
Saran	Sonepur1	1.81	0.5	0.48	1.38
Seikhpura	Ambari	6.55	3	4.8	5.31
Seikhpura	Barbiga	6.51	6.23	4.61	6.06
Seikhpura	Keoti 1	3.34	1.23	2.8	2.22
Seikhpura	Koeri Biga	5.4	3.88	1.28	2.76
Seikhpura	Sherpar	9.9	3.61	2.97	5.26
Seikhpura	Nemdarganj	5.33	1.25	1.47	1.76
Seikhpura	Seikhpura	7.69	3.42	2.58	2.28
Sheohar	Belsand	4.55	2.9	4.09	2.37
Sheohar	Sarbarpur	5.1	2.6	Filled with garbage	3.44
Sheohar	Purnhaiya Bazar	5.33	2.32	2.5	3.11
Sheohar	Sheohar	7	1.5	Filled with garbage	Filled with garbage
Sitamarhi	Dheng	3.96	3.63	3.22	2.43
Sitamarhi	Bangaon	6.2	2.36	3.68	1.81
Sitamarhi	Jagwanabazar	4.3	2.33	2.32	3.78
Sitamarhi	Bhpbhana Khaptola	4.92	4.27	2.73	2.23
Sitamarhi	Kodwara Tola	4.68	1.8	2.26	2.4
Sitamarhi	Panaura	5.2	1.72	1.85	1.7
Sitamarhi	Sitamarhi	6.76	4.73	3.35	1.45
Sitamarhi	Sursand	4.26	1.89	2.82	2.7
Sitamarhi	Nanpur	3.42	2.02	2.61	1.1
Sitamarhi	Khairwa	4.98	1.7	2.1	2.71
Sitamarhi	Pupri	4.8	2.64	4.11	2.14
Sitamarhi	Karahniya Chowk	5.29	1.68	3.44	1
Sitamarhi	Kushmari	5.96	6.1	3.41	2.5
Sitamarhi	Thumba	5.3	0.64	1.55	1.79
Sitamarhi	Bhutahi	4.23	1.16	1.1	1.87

Sitamarhi	Dastiya	5.02	2.2	0.56	2.07
Siwan	Andar	6.62	4.82	5.7	5.54
Siwan	Basantpur	6.26	3.56	Filled with garbage	Filled with garbage
Siwan	Chimanpur	4.37	3.02	3.23	3.6
Siwan	Hardia	4.97	2.06	3.75	4.1
Siwan	Malmalia Chowk	4.11	2.85	2.38	3
Siwan	Sarripatti	3.6	3.21	2.2	2.6
Siwan	Darauli	8.72	6.17	5.2	5.8
Siwan	Agaya	4.97	2.96	4.78	4.97
Siwan	Tarwara	4.64	3.27	3.7	2.95
Siwan	Chitakhal	4.31	4.31	4.1	3.63
Siwan	Deoria	6.13	3.08	4.85	5.6
Siwan	Maharajganj	3.9	2.06	Filled with garbage	Filled with garbage
Siwan	Patrehi	5	3.99	3.71	4.2
Siwan	Mairwal	5.5	2.4	4.3	3.94
Siwan	Sadikpur	4.74	3.8	2.95	3.4
Siwan	Jamanpura	4.5	1.74	2.11	3.1
Siwan	Murarpatti	5.55	4.03	2.9	3.5
Siwan	Bhagar	5.68	4.89	3.14	3.46
Siwan	Gangapur Siswan I	5.5	4.89	2.6	3.7
Siwan	Siwan	5.19	2.87-	3.75	3.29
Siwan	Siwan I	4.46	2.87	4.1	3.29
Supaul	Balua	Partially filled	0.81	2.24	2.21
Supaul	Bhawanipur I	1.9	1.07	1.95	2.23
Supaul	Bhimnagar	1.5	0.31	1.3	1.33
Supaul	Birpur	2.06	0.85	1.81	2.13
Supaul	Ratanpura I	2.24	Road damaged	2.05	2.33
Supaul	Balua I	3.1	1.38	2.13	3.04
Supaul	Balua Bazar	2.35	0.69	1.9	2.22
Supaul	Bhasanpatti	2.19	0.44	2.2	2.73
Supaul	Andauli	2.93	1.07	1.43	2.36
Supaul	Hardi	3.7	1.4	2.47	2.81
Supaul	Kario	3.08	0.53	1.76	3.49
Supaul	Malhani	2.64	0.93	2	1.92
Supaul	Supaul	3.15	1.01	2.07	2.45
Supaul	Thumba	1.13	1.27	2.4	2.98
Supaul	Pipra chowk	4.7	2.86	4.51	4.96
Supaul	Shyam Nagar	3.34	2.16	2.86	3.62
Supaul	Ganpatganj I	2.42	Road damaged	1.89	2.46
Supaul	Kaithtola	2.58	2.11	1.57	3.41
Supaul	Karjain	2.6	1.35	2.4	3.01
Supaul	Norha	2.28	0.99	2.06	2.39
Supaul	Parsarma	2.7	1.27	2.23	2.87
Supaul	Pratapganj	2.4	1.27	2.11	2.54
Supaul	Jadia	3.27	1.37	1.89	2.84

Supaul	Tribeniganj	4.1	1.49	1.74	3.56
Vaishali	Chak Sikandar	8.1	6.92	4.24	5.44
Vaishali	Kachanpur	8.92	5.86	5.79	6.9
Vaishali	Mathura	8.24	4.98	4	6.24
Vaishali	Mathura 2	8.24	4.98	4	6.24
Vaishali	Baksama	6.18	3.96	3.55	4.76
Vaishali	Bhaluhia (Garaul)	5.38	4.6	2.25	2.84
Vaishali	Chandpur Kala	5.53	5.36	4.63	4.06
Vaishali	Garaul	4.1	2.51	2.55	2.59
Vaishali	Harpur	6.67	6.31	5.3	5.9
Vaishali	Hajipur	Main gate locked	2.76	5.7	7.01
Vaishali	Sahjadpur	8.26	4.68	5.1	6.8
Vaishali	Chakiyai	7.5	5.86	3.4	3.82
Vaishali	Kumharkal	8.12	5.81	3.59	4.38
Vaishali	Mahnar	9.28	5.21	4.5	6.13
Vaishali	Mahua1	6	4.52	4.56	5.17
Vaishali	Sarai1	7.7	6.96	Filled with garbage	Filled with garbage
Vaishali	Tariya Supaul	4.8	4.03	3.3	3.95
Vaishali	Patepur	5.12	3.53	3.6	4.8
Vaishali	Gajipur	7.24	6.5	4.35	4.9

Major Chemical parameters of ground water samples of HNS collected during Pre-Monsoon 2016 in Bihar State

District	Block	Location	pH	EC	TDS	F ⁻	Cl ⁻	HCO ₃ ⁻	CO ₃ ²⁻	SO ₄ ²⁻	NO ₃ ⁻	PO ₄ ³⁻	SiO ₂	TH	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺
Araria	Araria	Araria	7.58	521	0	0	53.19	155.55	0	5.86	34.05	0	16.32	155	36	15.6	35.32	6.63
Araria	Forbesganj	Bathnaha	7.76	338	0	0	14.184	122.61	0	13.79	33.55	0	3.24	105	38	2.4	28.53	0.72
Araria	Bhargama	Bhargama	7.88	597	0	0.41	39.006	256.2	0	11.86	12.97	0	5.89	220	18	42	29.44	5.32
Araria	Forbesganj	Hariarpur	7.84	372	0	0	17.73	143.96	0	24.13	30.86	0	14.62	125	18	19.2	25.26	3.95
Araria		Jokihat	7.67	887	0	0	102.834	307.44	0	40.97	8.48	0.064	22.35	270	14	56.4	69.18	5.68
Araria	Forbesganj	Matiyari	8	828	0	0.22	85.104	289.75	0	16.64	32.41	0	12.78	280	22	54	44.17	16.64
Araria	Sikti	Plasi	7.9	540	0	0.04	53.19	233.63	0	3.95	11.45	0	8.63	190	32	26.4	37.02	1.84
Araria	Forbesganj	Palasi I	7.7	241	0	0	21.276	81.74	0	12.98	7.2	0	14	60	12	7.2	26.02	3.11
Araria	Raniganj	Raniganj	8.23	642	0	0.07	70.92	207.4	0	16.64	35.09	0	0.63	190	26	30	56.01	0.34
Arwal	Arwal	Arwal	7.73	632	410.8	1.15	46.07	196.8	0	34.1	25.12	0	5.01	110	40	2.43	65.94	11.94
Arwal	Sonbhadra	Bansi Surajpur	7.56	439	285.35	0.41	17.72	209.1	0	8.48	3.69	0	6.8	100	38	1.21	46.5	1.75
Arwal	Karpi	Bairbigha	7.79	676	439.4	1.16	46.08	295.2	0	26.1	18.04	0	4.9	135	40	8.5	85.12	3.12
Arwal	Karpi	Imamganj	7.76	813	528.45	0.64	31.9	381.3	0	21.97	0.05	0	4.65	160	52	7.29	92.61	1.62
Arwal	Ratni Faridpur	Jhunathi	7.61	523	339.95	1.08	31.9	289.05	0	10.98	0	0	5.59	110	42	1.21	83	1.78
Arwal	Karpi	Kinjer	7.93	482	313.3	1.36	14.18	276.75	0	8	5.05	0	5.97	135	46	4.86	47.21	1.72
Arwal	Kurtha	Kurtha	7.91	837	544.05	0.43	99.26	252.15	0	24.98	13	0	3.72	125	38	7.08	108.8	9.27
Arwal	Arwal	Madhubani	7.8	274	178.1	1.19	17.72	129.15	0	9.84	4.76	0	3.71	90	18	10.93	26.56	1.69
Aurangabad	Aurangabad	Aurangabad	7.69	1906	1238.9	0.34	223.33	578.1	0	75.49	8.42	0	4.52	410	80	51.03	182.08	32.89
Aurangabad	Barun	Barun	7.6	610	396.5	0.75	42.54	295.5	0	20.66	7.99	0	4.65	195	40	23.08	69.51	1.61
Aurangabad	Daudnagar	Daudnagar	7.72	1305	848.25	0.47	102.8	461.25	0	54.1	25.39	0	6.57	335	40	57.1	113	27.7
Aurangabad	Madanpur	Deo I	8.06	867	563.55	0.23	35.45	436.65	0	12	0	0	4.44	155	16	27.9	109.89	0.7
Aurangabad	Goh	Deohara Goh	8	954	620.1	0.95	67.35	405.9	0	42.83	25.34	0	3.79	315	60	40.09	78.99	13.9
Aurangabad	Nabinagar	Dhanibar	7.48	764	496.6	0.41	88.62	258.3	0	10.66	25.17	0	5.98	320	48	48.6	37.12	0.97
Aurangabad	Goh	Dhobitola Goh	7.86	682	443.3	1	53.17	393.6	0	18.51	20.5	0	4.78	220	32	35	75.72	2.93
Aurangabad	Haspura	Etawan	7.96	470	305.5	0.51	35.45	190.65	0	23.12	22.13	0	4.9	180	46	15.79	36.77	2.93
Aurangabad	Madanpur	Madanpur	7.63	1057	687.05	0.46	152.43	295.2	0	50.78	10.11	0	6.12	310	54	42.52	110.36	0.67
Aurangabad	Kutumba	Mahauli	8.34	950	617.5	0.27	46.08	436.65	3	9.17	0	0	6.12	230	38	32.8	76.81	0.96
Aurangabad	Nabinagar	Nabinagar	7.57	1216	790.4	0.36	109.89	463.65	0	32.86	17.34	0	4.25	315	46	48.6	108.24	1.68
Aurangabad	Barun	Narari Kala	7.68	485	315.25	0.89	35.45	239.85	0	9.58	3.23	0	4.87	135	44	6.07	49.92	2.38
Aurangabad	Obra	Obra	7.48	410	266.5	0.98	31.9	141.45	0	16.48	12.34	0	4.58	130	50	1.21	25.7	3.19

Aurangabad	Deo	Pataya	7.67	1100	715	0.22	99.26	430.5	0	31.84	21.17	0	4.54	230	38	32.8	138.59	0.77
Aurangabad	Aurangabad	Patrava	7.75	445	289.25	0.83	24.81	196.8	0	21.32	6.78	0	5.64	155	38	14.58	41.68	1.28
Aurangabad	Rafiganj	Rafiganj	7.78	1051	683.15	0.34	92.17	393.6	0	29.93	3.08	0	6.84	205	26	34.02	117.38	2.02
Aurangabad	Rafiganj	Tineri Morh	8.03	995	646.75	0.34	63.81	504.3	0	10.44	14.19	0	7.13	275	54	34.04	98.48	7.52
Aurangabad	Madanpur	Deo	7.69	1193	775.45	0.32	155.98	442.8	0	35.43	23.13	0	7.21	365	38	65.61	101.83	1.14
Banka	Amarpur	Amarpur	7.74	780	507	0.19	67.35	172.3	0	65.95	22.92	0	20.67	180	30	25.51	54.76	9.79
Banka	Banka	Banka	8.23	530	344.5	1.08	31.9	264.45	0	40.92	0	0	13.74	120	8	24.3	71.94	11.34
Banka	Barahat	Barahat	8.06	881	572.65	1.26	180.79	104.55	0	58.48	19.96	0	18.14	275	70	24.3	58.51	3.8
Banka	Bausi	Baunsi	7.57	606	393.9	0.23	38.99	202.95	0	61.16	20.4	0	16.36	170	34	18.22	41.37	40.04
Banka	Amarpur	English Morh	7.74	452	293.8	0.46	24.81	233.7	0	30.05	0	0	15.81	135	24	18.22	48.55	3.89
Banka	Banka	Fullidumar	7.28	706	458.9	0.46	109.88	172.2	0	54.83	18.96	0	26.43	300	84	21.87	32.55	3.85
Banka	Katoria	Katuria	8.42	915	594.75	2.01	81.53	338.25	12	58.78	0	0	11.59	125	10	24.3	133.28	2.92
Banka	Shambhuganj	Mirzapur	8.1	312	202.8	0.23	17.72	129.15	0	31.95	0	0	12.47	125	20	18.22	17.64	6.34
Banka	Dhuraiya	Panjwara	8	394	256.1	0.33	7.09	221.4	0	31.05	0	0	16.55	110	8	21.87	43.84	6.04
Banka	Rajon	Rajaun	7.73	735	477.75	0.02	81.53	190.65	0	81.4	3.99	0	14.5	250	40	36.45	39.72	1.1
Banka	Amarpur	Rampur	7.98	728	473.2	0.51	56.72	233.7	0	68.78	11.91	0	15.31	150	10	30.37	75.88	13.74
Banka	Shambhuganj	Sambuganj	8.09	542	352.3	0	31.9	202.95	0	50.08	12.97	0	20.01	105	10	19.44	65.22	4
Begusarai	Tegra	Baruni Omile	6.71	787	511.55	0	49.644	359.9	0	15.95	0	0.01	3.82	300	22	58.8	37.78	9.68
Begusarai	Tegra	Tegra	7.03	696	452.4	0.01	46.098	292.8	0	35.84	0	0	9.62	250	46	32.4	38.13	5.43
Begusarai	Tegra	Naya Nagar	7.01	731	475.15	0	14.184	396.5	0	14.54	0	0	1.34	320	32	57.6	22.06	1.87
Begusarai	Barauni	Begusarai	7.24	452	293.8	0	17.73	189.1	0	25.95	0	0	0	205	32	30	1.2	0.4
Begusarai	Begusarai	Harpur	7.05	495	321.75	0	21.276	189.1	0	33.84	0	0	5.64	195	44	20.4	11.08	0.02
Begusarai	Begusarai	Kaithma	7.57	377	245.05	0	21.276	115.9	0	18.75	0	0	3.36	125	32	10.8	9.28	0.33
Begusarai	Mathani	Badaalpura	7.02	442	287.3	0	24.822	219.6	0	13.64	0	0	6.84	44.71	16.95	18.11	1.59	0.3
Begusarai	Begusarai	Matihani	6.9	739	480.35	0	63.828	183	0	85.95	28.85	0	3.33	16.95	18.11	21.59	21.93	1.94
Begusarai	Begusarai	Haridia	7.71	769	499.85	0	120.564	195.2	0	21.59	0	0	8.73	165	40	15.6	73.21	22.34
Begusarai	Navkothi	Mohanpur	7.61	342	222.3	0	14.184	158.6	0	9.69	0	0.08	1.18	125	24	15.6	11.93	2.91
Begusarai	Bakhri	Manjaul	6.92	3040	1976	0.06	797.85	469.7	0	18.44	13.8	0	4.96	1245	338	96	107.91	31.33
Begusarai	Begusarai	Gopalpur	7.59	740	481	0	92.196	244	0	41.95	0	0	1.64	300	64	33.6	32.05	4.65
Begusarai	Cheribariarpur	Kumbidera	7.22	1272	826.8	0	226.944	305	0	55.44	0	0.02	3.95	435	80	56.4	83.41	8.69
Begusarai	Cheribariarpur	Aghara	7.17	2010	1306.5	0.06	407.79	396.5	0	90.88	0	0	1.8	745	108	114	107.91	19.65
Begusarai	Bakhri	Peernagaar	7.86	618	401.7	0	17.73	219.6	0	93.51	0	0	9.78	170	40	16.8	45.48	18.64
Begusarai	Bachhwara	Kumarshan	8.34	519	337.35	0.94	88.65	85.4	12	16.59	0	0	11.57	150	18	25.2	34.69	15.32
Begusarai	Bakhri	Simri	7.88	834	542.1	0.06	99.288	244	0	50.15	15.04	0	6.98	225	36	32.4	74.99	12.35
Begusarai	Bakhri	Bakhri Salauna	6.98	1161	754.65	0.05	117.018	329.4	0	80.15	40.1	0	1.11	375	40	66	70.62	18.65
Begusarai	Bakhri	Bagrash	7.21	696	452.4	0.04	31.914	305	0	15.45	0	0	0	290	24	55.2	15.123	3.65
Begusarai	Dhandari	Parihara	7.22	428	278.2	0.4	7.092	237.9	0	13.64	0	0	8.84	215	44	25.2	0.96	0.47

Begusarai	Sahebpur Kamal	Bintoli Kalyanpur	7.39	709	460.85	0	92.196	207.4	0	25.37	40.2	0	3.97	325	52	46.8	9.41	0.14
Begusarai	Begusarai	Lakho	7.21	609	395.85	0.12	17.73	298.9	0	19.64	0	0	8.39	210	22	37.2	38.83	0.8
Begusarai	Mathani	Begusaria	7.05	1284	834.6	0	138.294	488	0	4.59	0	0	9.59	395	72	51.6	83	17.62
Bhagalpur	Sultanganj	Akbarpur	7.46	452	293.8	0.56	35.45	227.55	0	35.6	0	0	20.44	160	22	25.51	41.25	1
Bhagalpur	Jagdishpur	Bhagalpur	7.54	864	561.6	0.33	138.25	92.25	0	81.75	27.58	0	19.06	240	64	31.59	48.97	1
Bhagalpur	Kahalgaoon	Ghoga	7.92	349	226.85	0.57	17.73	147.6	0	32.99	22.68	0	19.69	135	24	18.22	24.01	1
Bhagalpur	Kahalgaoon	Harchandpur	7.86	542	352.3	0.43	46.08	233.7	0	42.16	26.84	0	20.23	205	30	31.59	38.57	3.46
Bhagalpur	Jagdishpur	Jagnathpur	7.27	810	526.5	0.07	63.81	270.6	0	68.58	27.13	0	18.58	265	36	42.52	59.15	0.57
Bhagalpur	Piroainti	Pirpanti	7.22	97.4	63.31	0.4	60.26	135.3	0	84.65	26.46	0	20.84	350	38	4.1	80	3.59
Bhagalpur	Sabour	Sabour	7.7	505	328.25	0.37	24.81	246	0	41.91	6.68	0	19.53	160	12	31.59	47	1.37
Bhagalpur	Sultanganj	Sultanganj	7.6	1206	783.9	0.3	141.8	479.7	0	87.39	26.3	0	17.07	350	64	46.17	87	94.45
Bhagalpur	Rangra Chowk	Madrauni Chowk	7.68	485	0	0.05	7.092	220.21	0	25.12	4.7	0.03	13.65	160	50	8.4	25.69	5.62
Bhagalpur	Naugachhia	Bihpur	7.64	518	0	0	46.098	223.26	0	13.64	9.79	0.06	26.52	190	26	30	28.83	10.99
Bhagalpur	Bihpur	Mairwa	7.92	459	0	0.19	17.73	112.24	0	3.26	4.79	0	6.45	60	20	2	25.93	3.6
Bhojpur	Barahara	Bakhorapur	8.29	311	0	0.64	24.822	128.1	0	8	3.84	0	0.79	105	18	14.4	23.44	0.3
Bhojpur	Jagdishpur	Balua	7.94	614	0	0.09	35.46	280.6	0	25.07	10.64	0	5.08	250	42	34.8	25.97	0.48
Bhojpur	Barahara	Barhara	7.81	540	0	0.9	31.914	219.6	0	33.45	5.62	0.01	1.45	220	22	39.6	13.4	12.3
Bhojpur	Bihyan	Bihiya	8.02	653	0	0	31.914	286.7	0	30.81	13.9	0	4.34	255	24	46.8	27.84	1.5
Bhojpur	Koilwar	Birampur	7.72	803	0	0.34	88.65	311.1	0	21.04	5.48	0	5.37	395	60	58.8	10.24	0.5
Bhojpur	Udwantnagar	Chandawa	8.03	448	0	0.11	17.73	219.6	0	5.6	7.92	0	36.55	180	46	15.6	16.77	0.4
Bhojpur	Barahara	Dhusaria	7.81	784	0	0.09	70.92	298.9	0	47.06	4.68	0	3.8	345	42	57.6	13.24	5.6
Bhojpur	Barahara	Ekauna	7.69	812	0	0.64	63.828	317.2	0	43.38	12.35	0	4.16	345	70	40.8	19.62	4.9
Bhojpur	Barahara	Farhda	8.15	447	0	0.07	14.184	219.6	0	3.33	13.65	0.03	1.45	170	28	24	17.92	7.3
Bhojpur	Garhani	Garhani	8.34	812	0	0	17.73	158.6	6	8.76	20.13	0	6.26	135	36	10.8	13.11	12.6
Bhojpur	Koilwar	Giddha	7.8	914	0	0	95.742	317.2	0	43.62	4.12	0	6.88	390	44	67.2	22.19	11.3
Bhojpur	Sahar	Guljarpur	8.19	486	0	0	17.73	213.5	0	9.89	8.95	0	7.75	155	24	22.8	27.84	3.32
Bhojpur	Udwantnagar	Harnath Kundi	7.79	620	0	0.45	42.552	256.2	0	22.86	15.64	0	8.1	265	36	42	16.82	5.45
Bhojpur	Koilwar	Inglishpur	8.17	449	0	0.02	14.184	219.6	0	10.5	1.25	0	3.02	175	20	30	11.11	8.9
Bhojpur	Jagdishpur	Jagdishpur	8.07	556	0	0.11	31.914	225.7	0	18.85	8.65	0	0.94	190	12	38.4	29.31	4.2
Bhojpur	Barahara	Jagatpur	7.95	534	0	0	24.822	262.3	0	10.71	16.98	0	1.34	205	42	24	32.11	6.3
Bhojpur	Arrah	Jarawarpur	8.16	526	0	0	10.638	292.8	0	3.85	19.62	0	2.22	235	28	39.6	19.11	3.36
Bhojpur	Shahpur	Karnempur	8.06	589	0	0.62	14.184	298.9	0	3.56	0.36	0	3.12	225	6	50.4	16.17	9.31
Bhojpur	Shahpur	Kasap	8.16	1015	0	0.14	106.38	372.1	0	46.9	20	0.09	0.98	485	66	76.8	18.11	4.6
Bhojpur	Sandesh	Kori	8.1	547	0	0.78	24.822	262.3	0	7.85	28.36	0	2.22	255	22	48	13.12	0.2
Bhojpur	Koilwar	Kulharia	8	488	0	0	24.822	213.5	0	12.96	16.98	0	1.98	195	22	33.6	19.22	0.09
Bhojpur	Koilwar	Lodhipur	8.08	780	0	0	60.282	115.9	0	33.45	17.98	0	3.32	190	18	34.8	16.32	0.62
Bhojpur	Barahara	Milki	8	540	0	0.1	14.184	268.4	0	6.57	15.64	0	6.32	190	22	32.4	38.11	1.5

Bhojpur	Koilwar	Mokhlisa	8.11	447	0	0.14	14.184	189.1	0	30.63	18.45	0	4.84	195	18	36	15.27	1.7
Bhojpur	Koilwar	Muhamadpur	8.1	618	0	0	39.006	298.9	0	2.43	2.36	0	2.18	260	40	38.4	18.13	0.45
Bhojpur	Koilwar	Nasratpur	8.29	835	0	0	85.104	335.5	0	2.79	9.63	0	7.34	350	48	55.2	19.72	12.45
Bhojpur	Koilwar	Pachrukhiya	8.3	446	0	0	31.914	189.1	0	2.23	17.62	0	5.31	190	16	36	13.84	1.4
Bhojpur	Sandesh	Pauna	8.29	1250	0	0.33	134.748	402.6	0	45.7	21.36	0	0.95	505	82	72	21.14	17.98
Bhojpur	Charpokhri	Pirro	8.32	547	0	0.15	14.184	250.1	9	5.07	30.14	0	1.84	205	28	32.4	18.79	12.36
Bhojpur	Koilwar	Rajapur Bazar	8.37	356	0	0.62	17.73	115.9	15	4.7	5.87	0	4.84	105	20	13.2	18.24	9.9
Bhojpur	Koilwar	Sakhaddi	8.34	922	0	0	46.098	420.9	12	38.43	5.63	0.02	0.44	405	60	61.2	25.21	8.63
Bhojpur	Sandesh	Sandesh	7.63	1383	0	0	163.116	341.6	0	67.98	21.36	0	5.98	580	96	81.6	22.18	0.36
Bhojpur	Udwantnagar	Sasaram Chota	7.9	482	0	0	24.822	207.4	0	7.09	3.69	0	1.98	180	20	31.2	13.24	3.45
Bhojpur	Barahara	Simariya	8.17	512	0	0	14.184	311.1	0	8.8	5.64	0	6.34	250	28	43.2	9.78	15.6
Bhojpur	Koilwar	Songhata	8.23	424	0	0	7.092	219.6	0	6.53	12.36	0	7.94	150	30	18	23.84	2.32
Buxar	Brahampur	Bagen Bazar	8.38	460	0	0.03	21.276	183	12	5.29	14.6	0	5.13	185	28	27.6	13.45	3.12
Buxar	Brahampur	Brahmpur	8.55	824	0	0	67.374	268.4	36	47.49	7.36	0	6.84	345	54	50.4	24.81	12.36
Buxar	Simri	Barka Rajpur	8.21	710	0	0.16	56.736	347.7	0	6.85	25.3	0	9.98	325	76	32.4	25.92	2.3
Buxar	Buxar	Buxar	8.2	1067	0	0.15	177.3	244	0	42.43	24.6	0	1.34	470	66	73.2	16.34	0.2
Buxar	Buxar	Chausa	8.61	565	0	0	24.822	152.5	45	12.4	21.6	0	8.64	175	16	32.4	31.47	15.6
Buxar	Buxar	Churamanpur	8.24	671	0	0	35.46	286.7	0	15.05	32.5	0	6.95	250	60	24	32.21	7.56
Buxar	Buxar	Danikutia	8.49	743	0	0	14.184	341.6	24	21.11	3.6	0	3.95	300	50	42	24.56	5.36
Buxar	Simri	Dudharchak	8.56	709	0	0.56	24.822	305	27	8.37	15.4	0	11.95	280	22	54	26.54	4.12
Buxar	Dumraon	Dumraon	8.43	475	0	0.04	10.638	164.7	30	5	18.6	0	7.89	170	32	21.6	21.45	2.45
Buxar	Chakki	Dumri	8.35	463	0	0.08	31.914	170.8	6	20.45	3.33	0	6.39	170	20	28.8	17.26	9.3
Buxar	Chakki	Durasan	8.47	427	0	0	7.092	183	9	5.3	30.5	0	9.99	150	16	26.4	21.35	8.63
Buxar	Brahampur	Hathilpur	8.36	510	0	0	28.368	225.7	6	12.08	21	0	14.59	195	12	39.6	19.36	14.63
Buxar	Brahampur	Jugia Dera	7.48	508	0	0	14.184	256.2	0	5.99	14.78	0	14.95	195	36	25.2	16.94	11.36
Buxar	Chakki	Karathpur	7.84	827	0	0	42.552	347.7	0	37.77	19.6	0.08	3.11	370	52	57.6	12.34	5.63
Buxar	Brahampur	Khochariwan	7.72	533	0	0.21	14.184	274.5	0	5.49	14.21	0	6.97	200	40	24	24.25	8.45
Buxar	Buxar	Kritpur	7.87	643	0	0.36	21.276	292.8	0	7.34	31.54	0	14.18	260	16	52.8	16.15	9
Buxar	Simri	Mnikpur	7.68	562	0	0.15	35.46	256.2	0	6.48	7.65	0	12.13	230	48	26.4	14.32	7.12
Buxar	Buxar	Misharvalia	7.65	559	0	0	17.73	250.1	0	7.1	5.81	0	7.84	250	42	34.8	1.35	0.05
Buxar	Simri	Neazipur	7.6	660	0	0.05	17.73	359.9	0	4.49	8.3	0	6.95	240	48	28.8	45.21	0.35
Buxar	Brahampur	Raghunathpur	7.78	550	0	0	14.184	274.5	0	7.62	3.45	0	5.95	175	20	30	28.95	12.36
Buxar	Rajpur	Rajpur	7.84	1500	0	0	163.116	549	0	67.52	6.45	0	15.63	645	98	96	32.41	11.1
Buxar	Simri	Ramobariya	7.9	701	0	0	17.73	390.4	0	7.58	14.89	0	7.95	270	14	56.4	41.45	3.45
Buxar	Simri	Sohair	7.69	631	0	0	35.46	262.3	0	18.03	20.45	0	1.84	265	26	48	16.45	7.9
Buxar	Buxar	Thodagaon	7.84	735	0	0.47	35.46	329.4	0	12.59	22.65	0	8.13	320	66	37.2	8.62	0.12
Darbhangha	Benipur	Bahera	7.99	565	0	0.44	7.09	325.95	0	5	0	0	22	85	20	8.5	81.26	1.45

Darbhanga	Baheri	Baheri	8.27	438	0	0.3	17.72	227.55	0	7	8.41	0	17	100	32	4.86	51.83	2.89
Darbhanga	Benipur	Bithouli	8.39	385	0	0.39	24.81	190.65	0	1	0	0	20	70	14	8.5	56.3	2
Darbhanga	Darbhanga	Darbhanga	8.41	534	0	0.53	24.81	276.75	12	4	0	0	33	120	40	4.86	66.59	1.82
Darbhanga	Baheri	Jorja	8.18	1487	0	0.65	148.89	649.44	0	27	23.6	0	41	400	124	21.87	48.95	177.63
E Champaran	Areraj	Areraj	7.19	1006	0	0	85.104	396.5	0	74.3	1.94	0	18.7	390	76	48	60.7	16.85
E Champaran	Turkauliya	Bariyari Bazar	7.8	408	0	0	28.368	176.9	0	16.9	0.95	0	4.9	115	32	8.4	39.1	5.9
E Champaran	Chiraia	Belai	7.02	332	0	0	28.368	146.4	0	3.47	12.32	0	0.9	110	22	13.2	24.6	3.9
E Champaran	Bankatwa	Bhakatiya Tola	7.35	356	0	0	31.914	134.2	0	11.23	1.36	0	0.91	130	38	8.4	14.1	3.1
E Champaran	Paharpur	Bishunpur	7.11	452	0	0.05	31.914	189.1	0	16.56	0.9	0	13.9	175	34	21.6	20.1	4.5
E Champaran	Madhuban	Chakia1	7.29	742	0	0	39.006	353.8	0	24.79	1.5	0	4.9	250	56	26.4	44.4	20.6
E Champaran	Chiraia	Chatiya	7.18	509	0	0	35.46	231.8	0	3.78	5.6	0.04	3.6	105	18	14.4	49.6	26.5
E Champaran	Narkatia	Chaudadanu	7.17	327	0	0	31.914	140.3	0	7.9	1.82	0	6.1	110	20	14.4	21.1	12.2
E Champaran	Chiraia	Chairiya	7.06	357	0	0	14.184	183	0	14.6	7.45	0	3.9	145	24	20.4	15.6	13.3
E Champaran	Kalyanpur	Dharampur	7.43	568	0	0	31.914	244	0	19.89	9.12	0	0.99	145	30	16.8	47.8	25.78
E Champaran	Kalyanpur	Dipau	7.21	348	0	0	24.822	152.5	0	7.98	5.85	0	0.64	70	12	9.6	33.9	18.7
E Champaran	Sangrampur	Dubey Tola	7.09	664	0	0.06	39.006	311.1	0	13.69	11.21	0	7.9	185	46	16.8	50.4	24.5
E Champaran	Bankatwa	Ghorshashan	8.1	394	0	0	28.368	152.5	0	18.45	1.6	0	4.6	145	36	13.2	17.4	3.6
E Champaran	Paharpur	Govindganj	7.99	423	0	0	35.46	183	0	12.34	3.84	0	3.9	140	30	15.6	24.9	17.9
E Champaran	Kesaria	Khajuria Chowk	7.32	367	0	0	35.46	122	0	3.89	16.9	0	4.9	130	30	13.2	16.4	4.6
E Champaran	Kesaria	Kizerpura	7.69	539	0	0	39.006	237.9	0	2.45	14.4	0	9.9	190	38	22.8	34	7
E Champaran	Kesaria	Lala Chapra	7.23	534	0	0	35.46	219.6	0	21.63	15.64	0	1.9	195	40	22.8	30.5	7.9
E Champaran	Dhaka	Mohabbatpur	7.99	426	0	0.05	28.368	201.3	0	17.9	1.32	0	4.5	140	30	15.6	39.1	3.6
E Champaran	Bankatwa	Lakhwara	7.14	367	0	0	31.914	158.6	0	5.7	2.84	0	0.97	120	20	16.8	20.9	9.9
E Champaran	Motihari	Motihari	7.43	344	0	0	31.914	122	0	6.3	9.72	0	0.65	110	20	14.4	22.6	1.5
E Champaran	Turkauliya	Murarpur	7.84	502	0	0	35.46	195.2	0	35.9	5.77	0	1.4	210	52	19.2	20.52	0.9
E Champaran	Motihari	Nawada	7.14	655	0	0	46.098	244	0	39.6	6.84	0	3.4	245	56	25.2	33.69	4.7
E Champaran	Patahi	Patahi	8	504	0	0.08	35.46	207.4	0	27.9	13.54	0	4.9	165	26	24	41.23	12.3
E Champaran	Areraj	Radia	8.1	374	0	0	31.914	158.6	0	9.6	1	0	5.9	155	36	15.6	16.54	0.9
E Champaran	Ramgarhwa	Raghunathpur	7.33	394	0	0	31.914	170.8	0	13.3	7.3	0	6	150	24	21.6	18.95	4.7
E Champaran	Raxaul	Raxaul	7.5	326	0	0.31	35.46	158.6	0	3.9	3.25	0	0.45	175	48	13.2	3.89	0.3
E Champaran	Harsidhi	Sheoraha	7.36	376	0	0	39.006	146.4	0	11.78	1.84	0.04	1.6	170	42	15.6	10.56	1.2
E Champaran	Adepur	Shympur	7.84	1482	0	0.42	138.294	573.4	0	51.32	4.4	0	20.12	565	138	52.8	57.96	11.45
E Champaran	Madhuban	Uttari	7.55	809	0	0	53.19	353.8	0	41.6	10.11	0	11.9	305	68	32.4	47.12	13.6
E Champaran	Kesaria	Hussaini	7.31	647	0	0	35.46	323.3	0	6.9	5.6	0	16.9	225	60	18	35.6	24.6
E Champaran	Kesaria	Dumariya	7.14	1199	0	0	74.466	530.7	0	44.96	7.9	0	23.6	455	108	44.4	49.87	22.4
E Champaran	Chiraia	Chatia	7.6	1680	0	0	92.196	744.2	0	55.96	23.1	0	29.45	660	194	42	63.21	29.5
Gaya	Sherghati	Akuna	8.62	850	552.5	0.08	71	238	33	25	0	0	26	165	28	23	55	97

Gaya	Bankebazar	Baraila More	8.46	588	382.2	0.25	50	166.05	21	12	27	0	24	175	56	8.5	43	4
Gaya	Gaya	Bitho Sarif	8.15	542	352.3	0.26	56.35	104.55	0	76	28	0	17.21	130	24	17.01	55	9
Gaya	Bodhgaya	Bodhgaya	7.23	905	588.25	0.71	53.12	393.6	0	81	6	0	13	285	40	44.95	91	7.5
Gaya	Gaya	Chakan	8.12	630	409.5	0.51	42.54	270.6	0	15	21.55	0	20	190	22	34.02	70	1.21
Gaya	Dobhi	Dobhi	8.2	839	545.35	0.65	56.72	393.6	0	11.24	10	0	20	215	42	26.73	85	6
Gaya	Fatehpur	Fatehpur	7.92	550	357.5	0.37	3.54	313.65	0	14.35	0	0	19	170	48	12.15	41	1.27
Gaya	Manpur	Manpur	8.18	675	438.75	0.19	88.62	209.1	0	23.56	21	0	14	165	24	25.51	73.24	3.25
Gaya	Belaganj	Paligaon	8.07	478	310.7	0.08	46.08	172.2	0	23.04	23.09	0	21	125	30	12.15	59.66	5.27
Gaya	Manpur	Ram Kund	7.8	480	312	4.86	67.35	159.9	0	10.37	5.96	0	18	75	20	6.08	82.31	7.02
Gaya	Gaya	Chand Chaura Chowk	7.9	628	408.2	0.62	50	256	0	0	9	0	22	165	52	8.5	69	0.2
Gaya	Gaya	Sangat Gali	8.01	1289	837.85	0.55	170.16	233.7	0	121.57	33.15	0	20	235	48	27.94	133.38	11.16
Gaya	Wazirganj	Wajir Ganj	7.42	2044	1328.6	0.56	297.78	522.75	0	83.87	29.51	0	23	510	130	35.23	188	42.09
Gaya	Bodhgaya	Khandail	8.38	633	411.45	0.09	113.44	277	18	0	6.2	0	17	175	28	26	66	14.1
Gaya	Bankebazar	Banke Bazar	8.16	655	425.75	0.55	42.54	369	0	15	2.01	0	21	265	44	37.7	41	2.3
Gaya	Barachatti	Dhangra More	8.27	762	495.3	0.32	78	232	0	7	12	0	25	175	28	26	72	9
Gopalganj	Manjha	Bangra	8.28	448	291.2	0.24	7.09	209.1	0	22	0	0	33.76	120	14	21	34	13
Gopalganj	Manjha	Bangra Deoria	7.58	855	555.75	0.02	92.17	307.5	0	42.87	2.82	0	9.28	300	46	44.95	71.11	2.82
Gopalganj	Barauli	Barauli	8.46	444	288.6	0.61	10.63	215.25	9	12.7	1.94	0	8	160	30	20.65	33	5.7
Gopalganj	Sidhwalia	Bhojpurwa	7.64	1516	985.4	0.39	155.98	436.65	0	107.82	9.68	0	11.21	405	40	74.11	82.5	130
Gopalganj	Bhorey	Bhore	7.15	655	425.75	0.48	28.36	264.45	0	52	0	0	26.32	190	42	21	58	9
Gopalganj	Uchkagaon	Chanwabe	7.65	926	601.9	0.27	120.53	289.05	0	60.19	0	0	9.83	250	40	36.45	88.13	6.13
Gopalganj	Hatwa	Hathua	7.21	1143	742.95	0.54	166.62	457.5	0	14	8	0	26.25	280	38	44.95	122	38
Gopalganj	Kuchaikot	Jalalpur	8.18	1014	659.1	0.21	102.8	414.8	0	34	9.1	0	19	185	40	20.65	129	45
Gopalganj	Kuchaikot	Jamunaha	7.58	872	566.8	0.23	127.62	276.75	0	20.17	0	0	10.38	300	50	42.52	73.74	6.66
Gopalganj	Kuchaikot	Kuchaikot	7.63	741	481.65	0.16	81.535	258.3	0	39.61	9.6	0	8.42	230	56	21.87	81.57	2.02
Gopalganj	Uchkagaon	Lachwar	7.28	833	541.45	0.73	85.08	276.75	0	52.33	0	0	8.98	325	54	46.17	54.16	1.34
Gopalganj	Manjha	Manjhwa	8.03	2560	1664	0.38	291	615	0	72	105	0	55.12	440	80	51.03	325	43
Gopalganj	Pachdeori	Misirbatha	8.18	338	219.7	0.87	35.45	116.85	0	6	6.4	0	38.3	135	20	20.65	12	3
Gopalganj	Manjha	Nuna Chapra	7.6	583	378.95	0.24	35.45	233.7	0	28	19	0	13.14	245	36	37.66	31.22	1.06
Gopalganj	Phulwaria	Rampur	7.4	869	564.85	0.64	24.82	448.95	0	4.44	0.35	0	34.52	225	16	45	91.74	13
Gopalganj	Gopalganj	Turkaha (Gopalganj)	8.47	428	278.2	0.28	14.18	153.75	9	55	13.8	0	33.55	135	16	23.08	36	4
Gopalganj	Bhorey	Bhore	7.68	448	291.2	0.33	7.09	239.85	0	0	0	0	8.46	170	40	17.01	23.21	6.5
Gopalganj	Manjha	Bishampurhar	7.62	687	446.55	0.35	49.63	319.8	0	0	0	0	15.39	255	28	44.95	49.2	1.71
Gopalganj	Manjha	Phulwaria	7.59	516	335.4	0.33	35.45	233.7	0	0	18.56	0	11.2	175	42	17.01	49.5	1.06
Gopalganj	Kataiya	Kateya	8.01	590	383.5	0.08	38.99	264.45	0	12	21	0	9.24	250	46	32.805	32.45	4.77
Jamui	Jamui	Aghara	7.8	524	340.6	0.2	53.17	147.6	0	36.07	27.33	0	29.23	200	64	9.72	18.26	1.66
Jamui	Jhajha	Ambedkar Nagar	7.85	448	291.2	0.66	38.98	202.95	0	27.11	9.16	0	21.18	160	28	21.87	39.34	2.15

Jamui	Sono	Batia	7.44	908	590.2	0.44	155.98	104.55	0	74.25	27.86	0	29.56	260	40	38.88	65.13	6
Jamui	Chakai	Chakai	7.53	841	546.65	0.5	127.62	172.2	0	75.21	27.92	0	30.86	290	42	44.95	42.64	2.5
Jamui	Sono	Chakai - B	8.04	804	522.6	1.28	141.8	172.2	0	54.55	17.12	0	32.99	240	28	41.31	61.49	2.28
Jamui	Jhajha	Chandra Mandih	7.1	593	385.45	0.92	56.72	209.1	0	54.94	18.3	0	19.32	150	24	21.87	65.67	2.71
Jamui	Jhajha	Chandwari	7.77	455	295.75	0.52	42.54	141.45	0	31.28	26.65	0	20.13	135	22	19.44	33.79	1.36
Jamui	Gidhaur	Gidhaur	7.28	549	356.85	0.85	17.73	252.15	0	27.49	19	0	17.38	195	20	35.23	48.5	0.42
Jamui	Jhajha	Harna	7.84	597	388.05	0.02	85.08	159.9	0	45.41	6.3	0	20.95	165	14	31.59	51.98	3.62
Jamui	Jamui	Jamui	8.21	375	243.75	0.77	2.27	202.95	0	27.08	11	0	26.75	110	18	15.79	35.59	1.74
Jamui	Barhat	Lalmatia	7.65	630	409.5	0	120.53	123	0	32.32	17.77	0	10.79	150	10	30.37	63.5	1.94
Jamui	Lakshmipur	Laksmipur	7.82	524	340.6	3.18	24.81	276.75	0	30.96	4.94	0	21.15	130	12	24.3	66.4	2.78
Jamui	Jamui	Manjhwe	8.02	459	298.35	0.58	31.9	172.2	0	39.03	10.19	0.04	19.04	110	24	1.9	68.33	1.62
Jamui	Khaira	Purna Khaira	7.6	1927	1252.55	0.5	223.33	504.3	0	116.99	27.83	0	16.68	375	4	88.68	90.4	298.51
Jamui	Sikandra	Sikandra	8.14	600	390	0.61	24.81	344.4	0	31.93	2.63	0	24.74	165	14	31.59	73.31	1
Jamui	Jhajha	Sono	7.98	459	298.35	0.81	31.9	153.75	0	42.88	27.06	0	31.14	145	30	17.01	37.06	2.65
Jamui	Chakai	Tarakhar	7.96	507	329.55	0.78	35.45	215.25	0	33.92	26.56	0	22.36	125	12	23.08	62.08	3
Jamui	Lakshmipur	Sandipi	7.84	466	302.9	0.54	17.73	246	0	29.49	8.66	0	19.79	170	26	25.51	35.64	2.98
Jehanabad	Makhdumpur	Alubikha	8.3	1508	980.2	0.39	109.89	442.8	0	154.24	34	0	4.98	285	60	32.8	165.15	1.17
Jehanabad	Jehanabad	Gaurakshini	7.64	958	622.7	0.47	38.99	424.35	0	21.48	14.91	0	6.72	180	42	18.22	102.24	8.24
Jehanabad	Ghoshi	Ghoshi	7.77	1039	675.35	1.08	42.54	418.2	0	34.71	25.29	0	6.52	230	68	14.58	95.24	1.15
Jehanabad	Hulhasganj	Hulhasganj	7.62	836	543.4	0.76	53.17	301.35	0	38.62	25.49	0	7.2	195	68	6.07	83.6	1.31
Jehanabad	Jehanabad	Jehanabad	7.56	1250	812.5	0.4	134.71	399.75	0	39.16	15.6	0	4.78	195	40	23.08	134.87	39.5
Jehanabad	Ghoshi	Kako	7.56	1501	975.65	0.45	163.07	442.8	0	31.66	25.24	0	8.19	230	42	30.37	107.06	97.51
Jehanabad	Ghoshi	Lakhwar	7.61	664	431.6	0.36	67.35	202.95	0	31.41	15.25	0	4.96	170	28	25.3	61.04	3.44
Jehanabad	Makhdumpur	Makhdumpur	8	748	486.2	0.37	17.72	442.8	0	19.84	6.48	0	4.75	90	18	10.93	133.54	7.18
Jehanabad	Jehanabad	Teni Bigha	7.65	1232	800.8	0.8	120.53	399.75	0	39.25	13.5	0	4.28	205	38	26.73	131.71	6.81
Kaimur	Ramgarh	Bandipur	8.07	938	0	0.34	53.19	414.8	0	46.25	14.98	0	6.84	435	62	67.2	16.84	0.89
Kaimur	Ramgarh	Bevnaliya	8.29	734	0	0	39.006	353.8	0	17.36	15.22	0	2.84	300	18	61.2	32.97	7.89
Kaimur	Adahaura	Bhabua	7.8	805	0	0	78.012	323.3	0	20.61	22.45	0	5.95	345	42	57.6	17.18	12.65
Kaimur	Bhabhua	Chainpur	7.99	1427	0	0.47	177.3	384.3	0	48.54	26.98	0	3.85	710	102	109.2	19.84	10.36
Kaimur	Chainpur	Chand	8.17	774	0	0	46.098	140.3	0	9.22	14.62	0	9.63	130	12	24	24.84	11.56
Kaimur	Durgawati	Karmausa	8.18	627	0	0	14.184	311.1	0	6.05	14.69	0	5.93	270	42	39.6	13.94	1.36
Kaimur	Mohania	Mohania	7.78	1240	0	0	191.484	323.3	0	43.81	15.6	0	13.71	510	80	74.4	27.18	4.68
Kaimur	Ramgarh	Nuwan	8.41	2560	0	0.9	319.14	817.4	30	67.25	20.4	0	9.98	1170	199	136	16.18	9.356
Kaimur	Bhagwanpur	Saraiya	8.36	685	0	0	39.006	195.2	12	66.72	36.45	0	13.94	265	54	31.2	19.84	13.65
Kaimur	Rampur	Tori Forest	8.31	1266	0	0	184.392	359.9	18	30.87	6	0	2.84	565	68	94.8	16.81	4.6
Katihar	Samoli	Barari	7.73	904	0	0.75	124.11	308.05	0	15.86	6.87	0	32.56	295	38	48	62.59	13.1
Katihar	Manshi	Basantpur	7.37	586	0	0	35.46	213.5	0	33.84	7.95	0	25.61	200	26	32.4	33.33	6.84

Katihar	Dhandkhora	Bastaul	8.01	561	0	0	70.92	178.12	0	40.98	9.14	0	29.41	195	20	34.8	39.23	2.17
Katihar	Falka	Dumer	8.07	1695	0	0	195.03	622.2	0	11.64	36.77	0	4.65	220	42	27.6	260.3	15.65
Katihar	Katihar	Hafla	8.03	868	0	0.6	95.742	311.1	0	5.36	29.78	0	8.62	275	28	49.2	56.93	8.64
Katihar	Kadwa	Kadwa	7.95	452	0	0	31.914	178.12	0	12.64	8.98	0	16.33	120	20	16.8	33.97	9.97
Katihar	Katihar	Kathihar	7.86	264	0	0	28.368	61	0	21.34	7.65	0.03	11.94	50	16	2.4	28.01	8.72
Katihar	Korha	Khiria	7.85	775	0	0.04	95.742	186.66	0	4.56	36.38	0	22.65	50	12	4.8	238	15.34
Katihar	Manihari	Kajra	7.91	529	0	0.08	67.374	151.89	0	16.64	30.43	0	0.51	175	60	6	32.83	7.87
Katihar	Samoli	Kursela	7.83	329	0	0	21.276	134.81	0	18.97	6.9	0	0.99	115	24	13.2	22.98	1.83
Katihar	Falka	Mahendrapur	7.91	340	0	0.64	24.822	147.62	0	22.34	7.19	0	16.45	120	22	15.6	29.95	5.84
Katihar	Manihari	Manihari	7.77	1560	0	0.31	148.932	622.2	0	25.12	37.19	0	3.84	665	104	97.2	41.88	7.84
Katihar	Falka	Narhaiya	7.84	1172	0	0	99.288	433.1	0	7.86	37.12	0	11.69	460	86	58.8	39.49	9.99
Katihar	Samoli	Pranpur	8.12	419	0	0.17	42.552	109.8	0	50.64	36.6	0	1.65	160	34	18	30.9	12.36
Katihar	Korha	Routara	8.51	303	0	0	39.006	91.5	0.2	3.88	32.33	0	19.35	70	8	12	36.82	1.97
Katihar	Kadwa	Sonali	7.83	567	0	0.06	49.644	189.71	0	19.86	19.84	0	17.54	170	34	20.4	38.19	3.42
Khagaria	Parbatta	Sabalpur	7.08	814	529.1	0.61	70.92	359.9	0	26.71	0	0	12.57	305	42	48	53.08	0.45
Khagaria	Khagaria	Kasimpur	7.37	648	421.2	0	56.736	250.1	0	28.95	0	0	13.76	265	62	26.4	13.25	13.92
Khagaria	Khagaria	Labhgaon	7.51	615	399.75	0	31.914	305	0	13.65	0	0	0.34	295	48	42	1.17	9.61
Khagaria	Khagaria	Ismailpur	7.27	558	362.7	0	35.46	213.5	0	40.95	0	0	15	145	52	3.6	60.37	0.45
Khagaria	Khagaria	Gangaur	7.09	805	523.25	0	49.644	384.3	0	7.63	0	0	3.39	295	66	31.2	35.08	15.11
Khagaria	Khagaria	Kahgaria	7.54	535	347.75	0.32	46.098	189.1	0	23.59	0	0	8.64	210	28	33.6	17.42	8.95
Khagaria	Gogri	Maheskunth	7.34	615	399.75	0.07	53.19	244	0	16.59	0	0.01	0	220	58	18	31.15	9.99
Khagaria	Gogri	Lohia Chowk	7.09	737	479.05	0	53.19	292.8	0	25.95	33.12	0	13.39	315	30	57.6	20.63	6.78
Khagaria	Gogri	Jamalpur	7.51	700	455	0	31.914	305	0	18.95	39.1	0	5.95	115	32	8.4	104.9	13.94
Khagaria	Parbatta	Dewri	7.25	1717	1116.05	0	234.036	573.4	0	11.99	21.08	0	0.54	695	102	105.6	53.37	31.69
Khagaria	Parbatta	Mohaddipur	7.6	608	395.2	0	35.46	286.7	0	18.65	0	0	9.13	180	26	27.6	45.77	13.92
Khagaria	Gogri	Gandhinagar	7.48	1532	995.8	0	180.846	530.7	0	50.95	31.5	0	1.17	555	102	72	80.13	9.74
Khagaria	Chautham	Chautham	8.03	1011	657.15	0.69	74.466	488	0	13.85	0	0	7.89	255	60	25.2	105	16.86
Khagaria	Beldaur	Pirnasara	8.13	2510	1631.5	0.07	287.226	982.1	0	7.79	13.03	0	13.84	1150	158	181.2	32.3	35.94
Kishanganj	Bahadurganj	Bhadurganj	7.91	406	0	0	39.006	115.9	0	15.97	25.7	0	9.66	115	30	9.6	34.11	5.84
Kishanganj	Bahadurganj	Bahadurganj	8.23	549	0	0	88.65	128.1	0	18.67	36.15	0	19.21	145	18	24	57.82	2.84
Kishanganj	Kochadhiman	Bhagalbari	9.07	355	0	0	42.552	31.11	8.7	52.31	9.42	0	33.45	100	30	6	27.62	6.84
Kishanganj	Bahadurganj	Gunsagar	8.38	158.1	0	0	17.73	59.78	9	40.84	5.9	0	45.62	75	6	14.4	24.89	9.34
Kishanganj	Kishanganj	Kisanganj	8.13	94.4	0	0	17.73	40.87	0	32.16	3.59	0	11.56	55	14	4.8	23.74	1.84
Kishanganj	Kochadhiman	Kochadhamin	7.76	279	0	0	24.822	93.94	0	11.72	6	0	20.18	55	16	3.6	28.8	7.34
Kishanganj	Tehragachhi	Teragachi	7.94	483	0	0	31.914	197.03	0	19.86	7.86	0	33.64	150	40	12	30.9	10.99
Kishanganj	Thakurganj	Thakurganj	7.97	945	0	0	170.208	189.1	0	27.64	34.71	0	13.77	370	26	73.2	25.71	0.56
Lakhisarai	Lakhisarai	Barhaiya	7.68	685	445.25	0.26	28.36	325.95	0	24.6	14.94	0	14.51	200	26	32.8	81.37	0.76

Lakhisarai	Lakhisarai	Dariyarpur	7.62	654	425.1	0.09	67.35	239.85	0	28.82	7.59	0	19.52	135	52	1.21	73.06	4.82
Lakhisarai	Lakhisarai	Kiul	8.11	1325	861.25	0.98	141.8	559.65	0	27.78	26.88	0	14.44	455	20	98.41	90	0.94
Lakhisarai	Surajgarha	Kajra	7.36	2850	1852.5	0.62	127.62	479.7	0	71	6.6	0	19.06	815	84	147.01	217.64	7
Lakhisarai	Surajgarha	Arma	7.3	1208	785.2	0.14	127.62	473.55	0	105.21	9.62	0	10.79	370	28	72.9	118.88	7
Lakhisarai	Lakhisarai	Surajgarha	7.08	1784	1159.6	0.31	241.06	264.45	0	123.69	28.34	0	18.4	120	126	74.11	73.73	2
Lakhisarai	Lakhisarai	Saidpura	7.58	338	219.7	0.13	35.45	129.15	0	26.08	17.24	0	19.37	140	24	19.44	19.54	2
Lakhisarai	Lakhisarai	Lakhisarai	8.24	1606	1043.9	0.3	184.32	522.75	0	85.68	27.53	0	24.31	395	76	49.81	111.45	180
Madhepura	Madhepura	Madepura	7.93	1133	736.45	0	109.926	488	0	0	28.81	0	8.94	410	16	88.8	70.14	9.37
Madhepura	Madhepura	Bhimpur	8.1	433	281.45	0.4	17.73	195.2	0	15.36	0	0.02	4.91	45	4	8.4	64.21	14.15
Madhepura	Madhepura	Hathkora Bazar	8.01	584	379.6	0	46.098	244	0	3.89	18.28	0	18.99	240	44	31.2	20.33	1.95
Madhepura	Murliganj	Rampur	7.8	559	363.35	0	35.46	213.5	0	14.7	0	0	18.11	75	20	6	63.52	23.17
Madhepura	Murliganj	Murliganj	8.36	879	571.35	0	53.19	396.5	12	19	1.6	0	10.2	360	70	44.4	28.41	10.17
Madhepura	Alamnagar	Gaushala Chowk	8.03	668	434.2	0.61	60.282	305	0	5.6	0	0	13.74	245	20	46.8	30.45	16.57
Madhepura	Biharriganj	Kusthan	8.07	873	567.45	0.21	88.65	329.4	0	7	11.6	0	7.84	365	52	56.4	21.45	1.94
Madhepura	Gwalpara	Gwalpara	7.96	536	348.4	0.05	35.46	231.8	0	20	0	0	0.85	215	40	27.6	17.34	3.94
Madhepura	Singheswar	Singneswar	7.96	651	423.15	0	21.276	305	0	23.15	19.1	0.01	1.17	250	60	24	23.45	11.15
Madhepura	Gamharia	Jiwacchapur	8.23	577	375.05	0	60.282	183	0	19	29.4	0	5.59	265	40	39.6	3.1	1.5
Madhepura	Madhepura	Surajganj	8.05	281	182.65	0.45	14.184	85.4	0	27	0.9	0	13.11	100	20	12	9.3	0.84
Madhepura	Shankarpur	Barhari	7.85	467	303.55	0	49.644	176.9	0	9.7	0	0	1.17	220	56	19.2	3.4	0.41
Madhepura	Biharriganj	Uda Kisangamnj	7.63	1028	668.2	0.04	46.098	555.1	0	12.9	8.66	0.03	9.75	355	92	30	63.7	30.12
Madhepura	Purai	Ganreshpur	8.2	679	441.35	0.51	78.012	201.3	0	41	0	0	4.59	250	54	27.6	28.16	4.89
Madhepura	Chausa	Abhiyatola	7.76	833	541.45	0	60.282	311.1	0	34	38.7	0	12.51	300	90	18	32.4	21.21
Madhepura	Chausa	Chausa	7.74	582	378.3	0.07	28.368	256.2	0	28	12.73	0	0.91	205	54	16.8	25.61	15.69
Madhepura	Murliganj	Rajui	7.75	527	342.55	0	35.46	201.3	0	24.7	40.1	0	0.64	250	68	19.2	7.05	0.73
Madhubani	Jhanjharpur	Bhawanipur	7.99	555	0	0.31	35.45	244	0	48	1.63	0	29	195	34	26.73	57.96	4.68
Madhubani	Jhanjharpur	Bideshwar Asthan	7.87	556	0	0.17	24.81	301.35	0	2	0	0	18	150	40	12.15	68.83	2.13
Madhubani	Madhawpur	Bihari	7.77	412	0	0.41	17.34	209.1	0	14	12	0	27	120	28	12.15	33.15	2.35
Madhubani	Benipatti	Dhakjari	7.94	1188	0	0.27	127.62	436.65	0	16	38.63	0.16	22	105	24	10.93	145	172.98
Madhubani	Basipatti	Harlakhi	8.28	372	0	0.34	10.65	209.1	0	2	5.65	0	17	70	20	4.86	53.47	5.69
Madhubani	Jainagar	Jaynagar	7.82	528	0	0.18	17.34	270.6	0	18	0	0	24	155	52	6.05	37.98	4.8
Madhubani	Jhanjharpur	Jhanjharpur	7.91	589	0	0.04	21.27	325.95	0	3	18	0	21	140	36	12.15	63.59	6
Madhubani	Ladhanasia	Jogiya	7.84	603	0	0.17	14.18	338.25	0	10	0	0.07	25	175	50	12.15	56.69	3.24
Madhubani	Rajnagar	Pariharpur	8.26	637	0	0.41	42.54	313.65	0	9	14	0	18	165	42	14.58	67.28	1.32
Madhubani	Kaluhi	Kapasias	7.77	488	0	0.57	24.81	258.3	0	4	6	0	20	155	54	4.86	37.32	1.47
Madhubani	Laukahi	Kapileswar	7.76	524	0	0.25	36.9	258.3	0	21	3.87	0.04	28	150	34	15.79	52.99	3.62
Madhubani	Babubari	Karnaulli	8.16	461	0	0.02	38.99	196.8	0	18	14.36	0	25	110	26	10.93	49.08	5.53
Madhubani	Babubari	Khajauli	7.8	564	0	0.26	46.08	264.45	0	11	11.38	0	27	160	48	9.72	51.28	0.67

Madhubani	Basipatti	Khutauna	7.87	327	0	0	7.09	178.35	0	0	2.31	0	22	80	18	8.5	36.48	1.51
Madhubani	Rajnagar	Madhubani	7.7	1378	0	0.09	194.97	510.45	0	12	25.94	0	33	115	32	10.93	202.95	107.1
Madhubani	Pandaul	Pandaul	7.94	602	0	0.37	21.27	282.9	0	49	24.77	0	36	270	68	24.3	44	1.3
Madhubani	Pandaul	Phulparas	8.11	353	0	0	21.27	178.35	0	2	3.72	0	21	65	22	2.43	51.2	1.53
Madhubani	Madhubani	Shambhuar	8.33	1044	0	0.08	60.26	480.93	0	31	27.32	0.18	30	195	56	13.36	59.3	206
Madhubani	Laukaha	Siswar	7.82	528	0	0.23	21.27	276.75	0	4	7.71	0	26	145	32	15.79	49.01	4.82
Munger	Asarganj	Asarganj	8.07	1736	1128.4	0.59	226.88	424.35	0	104.83	28.01	0	10.76	460	16	102.06	123	2
Munger	Dharhara	Bariarpur	7.4	582	378.3	0.56	67.35	264.45	0	25.93	1.82	0	20.51	115	22	24.3	70.72	1
Munger	Karagpur	Gangta Morh	8.01	870	565.5	0.92	74.44	455.1	0	33.52	3.01	0	15.3	395	16	86.26	38.01	1
Munger	Karagpur	Gobadda	7.7	417	271.05	0.22	21.27	227.55	0	20.33	0	0	26.05	120	24	24.3	30.39	1
Munger	Karagpur	Haveli Kharagpur	7.51	850	552.5	0.17	35.45	418.2	0	26.58	0	0	16.38	200	16	88.88	36.09	3
Munger	Jamalpur	Jamalpur	7.42	793	515.45	0.18	77.98	190.65	0	68.53	27	0	19.57	270	38	45.52	58.94	0.98
Munger	Munger	Purabsarai Navtoli	7.69	338	219.7	0.03	31.91	147.6	0	24.87	0	0	22.56	100	18	13.36	37.49	2.02
Munger	Sangrampur	Rampur	7.89	362	235.3	0.42	21.27	147.6	0	34.76	4.88	0.17	20.37	115	18	17.01	38.28	1.25
Munger	Sangrampur	Sangrampur	7.96	428	278.2	0.01	28.36	184.5	0	30.36	16.64	0	12.21	155	26	21.87	34.34	6
Munger	Karagpur	Tarapur	7.95	493	320.45	0.32	42.54	282.9	0	30.94	5.64	0	16.75	215	28	35.23	53.11	3.91
Muzaffarpur	Aurai	Aurai	7.06	308	0	0	7.092	128.1	0	18.54	3.53	0	1.9	80	18	8.4	20	10.1
Muzaffarpur	Baruraj(Motipur)	Bhagwanpur Chowk	7.69	524	0	0.04	17.73	256.2	0	13.46	4.84	0	3.45	190	38	22.8	25	3.56
Muzaffarpur	Bochaha	Boccha	7.92	448	0	0	24.822	176.9	0	30.69	1.64	0.03	1.2	180	40	19.2	13.45	4.56
Muzaffarpur	Sahebganj	Daha Chapra	7.52	500	0	0	35.46	237.9	0	5.46	10	0	11.32	210	36	28.8	16.89	1.9
Muzaffarpur	Paroo	Dewaria	7.54	450	0	0	14.184	189.1	0	19.78	13.3	0	4.9	105	26	9.6	40	10.56
Muzaffarpur	Sakra	Dholi	7.26	458	0	0.03	31.914	183	0	7.45	6.8	0	13.6	120	38	6	33.3	14.32
Muzaffarpur	Musahari	Digra	7.37	524	0	0	39.006	219.6	0	22.45	1.34	0	0	235	40	32.4	12.4	1.32
Muzaffarpur	Baruraj(Motipur)	Jaffarfur	7.09	633	0	0	28.368	335.5	0	3.45	0	0	5.9	250	52	28.8	29.3	12.2
Muzaffarpur	Musahari	Japaha	7.3	765	0	0.05	53.19	323.3	0	22.45	1.65	0	3.6	280	42	42	40.5	3.6
Muzaffarpur	Katra	Katra	7.45	391	0	0	17.73	128.1	0	37.45	5.32	0	11.9	135	36	10.8	16.4	0.6
Muzaffarpur	Baruraj(Motipur)	Muhamadpur Balmi	7.26	371	0	0.06	31.914	152.5	0	5.48	2.62	0.05	5.84	155	28	20.4	10.1	0.5
Muzaffarpur	Kurhani	Mahant Manihari	7.3	456	0	0	35.46	183	0	5.6	6.8	0	0.69	200	22	34.8	3.3	1.1
Muzaffarpur	Kanti	Muzaffarpur	7.73	563	0	0	31.914	256.2	0	33.79	0	0	9.9	180	34	22.8	45.2	16.1
Muzaffarpur	Saraiya	Parro	7.04	1242	0	0	120.564	494.1	0	40.65	16.5	0	0.98	485	84	66	55.1	11.1
Muzaffarpur	Aurai	Rajkhand	7.54	300	0	0	21.276	134.2	0	15.78	9.4	0	6.9	105	16	15.6	25.6	4.5
Muzaffarpur	Sahebganj	Rajwara	7.23	566	0	0	28.368	244	0	25.12	15.6	0	7.9	185	48	15.6	30.1	15.4
Muzaffarpur	Katra	Ramnagar	7.05	404	0	0.2	24.822	189.1	0	15.7	9.7	0	19.9	80	20	7.2	47	22.1
Muzaffarpur	Sahebganj	Sahebganj	7.61	419	0	0	35.46	183	0	3.45	10.1	0	2.58	160	24	24	21.1	10.7
Muzaffarpur	Kurhani	Sakri Chatti	7.26	1245	0	0	106.38	488	0	65.45	22.3	0	2.3	475	86	62.4	50.2	21.6
Muzaffarpur	Gaighat	Safuddin Pur	7.19	696	0	0	67.374	256.2	0	31.46	2.3	0.01	0.94	240	48	28.8	33.9	15.6
Muzaffarpur	Bochaha	Shukrahat	7.14	684	0	0.33	42.552	298.9	0	24.9	5.6	0	15.4	255	40	37.2	30.1	16.1

Muzaffarpur	Dholi	Seho	7.76	489	0	0	10.638	207.4	0	29.45	6.9	0	1.95	190	34	25.2	16.45	1.9
Muzaffarpur	Kurhani	Wazitpur	7.29	458	0	0	24.822	207.4	0	17.9	11.2	0	0.95	165	40	15.6	25.7	2.5
Muzaffarpur	Sahebganj	Parwal Patti	7.23	1772	0	0.02	106.38	738.1	0	88.74	20.21	0	20.18	625	98	91.2	80.9	25.9
Nalanda	Islampur	Ankuri Bazar	7.78	744	483.6	1.21	67.35	258.3	0	34	19	0	36	165	30	24.3	81	13
Nalanda	Bind	Asthwan	8.02	1371	891.15	0.58	109.89	510.45	0	31	21	0	43	415	104	38.88	121	5
Nalanda	Bihar Shariff	Biharsharif Rly Stn	7.21	668	434.2	0.22	35.45	313.65	0	42	0	0	17	225	52	23.08	56	7.2
Nalanda	Bari	Bhui	8.14	1610	1046.5	0.67	180.79	467	15	52	44.4	0	35	530	82	76.54	134	15
Nalanda	Bihar Shariff	Biharsharif	8.51	1543	1002.95	1.09	113.4	565.8	21	48	26	0	33	455	80	61.96	130	24.07
Nalanda	Noorsarai	Daudpur	7.13	751	488.15	0.18	46.08	344.4	0	17	23.29	0	19	300	64	34.02	51.27	1.07
Nalanda	Rahul	Doiya	6.88	2598	1688.7	1.26	297.78	768.65	0	231	17	0	27	535	72	86.26	360	22
Nalanda	Ekangarsari	Ekangarsarai	8.59	1266	822.9	1.19	74.55	405.89	21	41	59	0	24	150	20	12.1535	168	48
Nalanda	Giriak	Giriak	7.13	1911	1242.15	0.55	173	610	0	78	33	0	42	680	72	109.35	133	2.2
Nalanda	Harnaut	Harnaut	7.65	1050	682.5	0.17	141.8	268	0	31	69	0	40	100	20	12.15	159	61.35
Nalanda	Rahul	Heganpura	7.71	1256	816.4	1.62	283	280	0	58	0.6	0	21	430	80	55.89	70	49
Nalanda	Hilsa	Hilsa	7.14	525	341.25	0.16	319.8	38.99	0	2	9.37	0	21	190	24	32	72	81
Nalanda	Islampur	Islampur	7.93	2210	1436.5	0.67	280	393.6	0	49	288	0	22	320	88	24.3	299	97
Nalanda	Asthawan	Jangipur	8.61	420	273	0.58	21.27	184.5	24	12	10	0	30	130	30	13.36	41	4.3
Nalanda	Karaiparsurai	Kundalpur	7.82	950	617.5	0.82	81.53	258.3	0	77	30	0	29	260	66	23	96	1
Nalanda	Silao	Moghra	7.67	724	470.6	0.24	42.54	319.8	0	50	0	0	27	275	64	28	53	6.088
Nalanda	Bihar Shariff	Muraura	7.22	1130	734.5	0.33	67.35	467.4	0	0	27.4	0	33	345	84	33	69	36
Nalanda	Silao	Nalanda	8.26	1093	710.45	0.15	46.08	467.4	0	65	31	0	21	470	82	64.39	53	2
Nalanda	Bari	Nirpur	7.88	2393	1555.45	0.66	326.14	621.15	0	249	196	0	32	490	96	60.75	365	24
Nalanda	Prabalpur	Nischalganj	8.01	984	639.6	0.39	106.35	264.45	0	60	28.5	0	24	240	56	24	117	2.16
Nalanda	Silao	Papanhosa	7.41	960	624	1.28	81.53	264.45	0	80	19	0	30	225	66	15	99	1
Nalanda	Prabalpur	Parwalpur	7.79	1130	734.5	0.58	106.35	430.5	0	48	41	0	31	345	84	33	94	4.3
Nalanda	Giriak	Pawapuri	7.6	886	575.9	0.52	63.81	209.1	0	77	33	0	26	215	40	27.94	83	1.2
Nalanda	Rajgir	Pilkhi	7.84	540	351	0.12	53.72	153.75	0	36	19.5	0	33	120	22	15.79	71	1
Nalanda	Rajgir	Rajgir	8.7	1427	927.55	0.53	88.62	658.05	24	58	39	0	28	560	116	65.61	95	7
Nalanda	Bihar Shariff	Ranabigha	7.5	955	620.75	0.38	113.44	319.8	0	18	18	0.04	34	170	58	6.07	123	1
Nalanda	Asthawan	Sare	8.51	580	377	0.57	53.17	147.6	18	25	11.5	0	30	125	20	18.22	73	1.25
Nalanda	Ekangarsari	Sherpur	7.63	329	213.85	0.52	21.27	147.6	0	4.05	5.17	0	14.05	85	18	9.72	43	0.22
Nalanda	Silao	Silao	7.37	3496	2272.4	1.25	473.55	916.35	0	313	205	0	40	730	146	88.69	497	92
Nalanda	Giriak	Sithuara	7.54	2702	1756.3	0.66	354	615	0	210	85	0	41	445	90	53.46	419	50
Nalanda	Rahul	Sodh	8.14	874	568.1	0.81	113.44	313.65	0	3	38	0	27	205	50	17.01	127	1.5
Nalanda	Noorsarai	Vena	7.57	540	351	0.34	46.08	159.9	0	36	19.5	0	33	130	20	19.44	68.25	0.49
Nalanda	Karaiparsurai	Karaipar Sarai	7.09	970	630.5	0.39	106.35	264.45	0	60	28.5	0	24	235	58	21.87	117	2.16
Nalanda	Silao	Nalanda	8.05	411	267.15	0.14	28	165	0	8.2	17	0	27	105	32	6	38	0.84

Nalanda	Silao	Silao	8.29	1700	1105	0.4	280	492	0	83	21	0	23	250	28	44	221	74
Nawada	Nawada	Garphar	7.81	433	281.45	0.23	42.54	147.6	0	12.02	34	0	14	130	32	12.15	50	0.61
Nawada	Nawada	Gunama	7.35	752	488.8	0.39	56.72	362.85	0	11	0	0	12.24	195	32	27.94	78	1.2
Nawada	Roh	Hisua	8.26	320	208	0.45	24.81	147.6	0	4.05	5.17	0	14.05	105	34	4.9	30	0.87
Nawada	Kawakol	Kauakol ASHRAM	7.95	522	339.3	3.09	10.14	264.45	0	8	13	0	24	125	36	8.5	75	0.64
Nawada	Nawada	Nawada-2	8.23	770	500.5	0.29	35.45	399.75	0	11	27.2	0	24	325	56	44.95	54.06	2.81
Nawada	Nawada	Nawada	7.76	529	343.85	0.59	63.81	123	0	71	12	0	16	120	14	20.65	63.24	4
Nawada	Pakribarwan	Pakribarawan	8.2	359	233.35	0.33	14	195	0	21	13	0	19	125	28	12	33	5.61
Nawada	Roh	Roh	8.46	491	319.15	1.81	31.05	178.35	12	18	31	0	21	180	40	19.44	37	4
Nawada	Warisaliganj	Shahpur More	7.71	780	507	0.37	81.53	178.35	0	61	80.2	0	12	130	20	19.44	91	43
Nawada	Kawakol	Rupau	8.58	1564	1016.6	0.27	141.8	381.3	30	128	91	0	24	325	56	45	159	64
Nawada	Akbarpur	Tungi	8.47	477	310.05	0.56	53.17	116.85	15	33.87	5	0	16.84	95	10	17.01	58	3.5
Nawada	Warisaliganj	Warsaliganj	8.85	1123	729.95	0.95	85.08	476.75	33	70	68	0	12.32	350	20	72.9	112	33
Nawada	Gobindpur	Bishunpur	8.02	1191	774.15	0.26	113.44	504.3	0	24	12.04	0	22	440	60	70	93	17.21
Nawada	Rajauli	Dopata	7.88	620	403	0.34	77.99	221.4	0	13	21	0	20	215	26	36	40	4.2
Nawada	Sirdauli	Nawabganj	7.26	560	364	0.21	28.36	189.1	0	40.17	38.84	0	19	165	22	26.73	41.7	10.7
Nawada	Harnaut	Khanewa	7.48	920	598	0.08	85.08	359.9	0	25.46	11.59	0	27	315	44	49.815	54	42
Nawada	Maskaur	Meskaur	7.7	590	383.5	0.19	70.9	176.9	0	17.3	2.31	0	22	195	16	37.665	31.7	11.7
Patna	Bakhtiarpur	Bakhtiyarpur	7.59	487	316.55	0.2	31.9	209.1	0	43.72	6.12	0	10.99	175	12	35.23	37.01	8.17
Patna	Sampatchak	Rajpura	7.74	430	279.5	0.35	21.27	196.9	0	30.01	0	0	18.52	110	10	20.65	56.11	4.47
Patna	Barh	Agwanpur	7.76	817	531.05	0.96	102.8	264.45	0	48.36	0	0.12	0	175	14	35.22	93.03	28.1
Patna	Naubatpur	Sahari	7.41	469	304.85	0.52	38.99	190.65	0	51.87	0	0	14.77	135	18	21.87	48.66	3.72
Patna	Ghosawari	Maranchi	7.23	1175	763.75	0.17	155.98	399.75	0	72.73	14.3	0	12.84	265	16	54.67	161	3.71
Patna	Barh	Barh	7.48	544	353.6	0.37	21.27	319.8	0	32.82	0	0	18.23	145	18	24.3	68.61	2.68
Patna	Daniwan	Daniyawan	8.37	303	196.95	0.33	14.18	110.7	6	17	0	0	27	100	28	7.29	19	2.15
Patna	Patna Sadar	Patna City	8.21	638	414.7	0.23	74.45	145.6	0	34	33.57	0	36	205	42	23.08	49.58	1.88
Patna	Fathua	Fatuha	8.46	520	338	0.81	31.05	202.95	15	0	17.5	0	30	125	24	15.79	67.32	1.39
Patna	Athmalgola	Rajpura	7.7	491	0	0.18	21.276	209.84	0	13.48	3.24	0	0.45	150	36	14.4	28.89	1.23
Patna	Barh	Sahri	7.72	645	0	0.67	56.736	234.85	0	34.82	3.22	0	5.67	195	30	28.8	57.26	3.43
Patna	Paliganj	Baliapakar	8	1476	959.4	0.83	191.43	418.2	0	47.42	24.9	0	8.15	320	88	24.3	105.91	80.8
Patna	Dulhin Bazar	Bharatpura	8.5	1790	1163.5	0.44	205.6	516.6	18	61.67	24.89	0	4.38	425	30	85.05	149.54	4.67
Patna	Sampatchak	Deokoli	8.04	529	343.85	0.56	17.72	295.2	0	10.94	0	0	6.4	210	48	21.87	20.62	0
Patna	Dulhin Bazar	Dulhin Bazar	7.63	1013	658.45	0.89	120.53	252.15	0	23.41	24.43	0	6.98	285	80	20.65	48.2	0.5
Patna	Phulwarisharif	Etwarpur	7.89	889	577.85	0.35	109.89	369	0	23.18	12.78	0	3.74	275	38	43.74	94.22	7.5
Patna	Phulwarisharif	Hulas Chak	7.74	655	425.75	0.75	46.08	325.95	0	18.93	0	0	5.02	245	56	25.51	56.71	0
Patna	Bikram	Noniatola	7.82	948	616.2	0.71	109.89	301.35	0	41.3	0	0	9.4	205	64	10.9	95.03	0.58
Patna	Patna Sadar	Raghopur	8.04	472	306.8	0.35	14.18	276.75	0	9.3	0	0	5.7	230	46	27.94	9.54	0

Patna	Barh	Snehitola	8.01	973	632.45	0.7	88.62	381.3	0	53.09	23.86	0	7.5	335	84	30.37	84	0
Patna	Bihta	Amraha	7.67	356	231.4	0.4	17.72	159.9	0	8.58	0	0	7.64	75	30	2.43	38.78	9.67
Patna	Bihta	Bishambharpur	8.09	337	219.05	0.54	17.72	172.2	0	10.62	0	0	8.5	95	30	4.86	29.4	2.56
Patna	Maner	Darbeshpur	7.66	361	234.65	0.51	17.72	196.8	0	9.06	0	0	5.23	65	36	6.08	28.99	4.67
Patna	Bikram	Din Bigha	8.24	299	194.35	0.59	17.72	135.3	0	13.53	0	0	5.89	80	20	7.29	30.08	0
Patna	Phulwarisharif	Faridpur	7.7	444	288.6	0.75	14.18	239.98	0	4.98	0	0	4.56	145	44	8.5	29.02	0
Patna	Danapur/Khagaul	Goptal Danapur	7.44	763	495.95	0.7	88.62	166.05	0	63.29	25.5	0	5.21	210	40	24.3	57	1.32
Patna	Maner	Gyaspur(Purvatola)	7.68	1100	715	0.52	102.8	338.25	0	66.16	17.48	0	4.28	120	28	12.15	151	10.47
Patna	Danapur/Khagaul	Khaspur	7.66	1295	841.75	0.55	116.98	289.05	0	91.98	25.9	0	4.28	210	40	24.3	132.12	5.08
Patna	Patna Sadar	Khazpura	8.13	511	332.15	0.67	60.26	110.7	0	65.2	25.81	0	3.11	165	28	23.08	40.86	1.52
Patna	Maner	Lalbegwan	7.59	766	497.9	0.87	63.81	215.25	0	60.46	24.58	0	4.64	180	52	12.15	71.78	1.24
Patna	Maner	Maner	7.99	600	390	1.73	60.26	172.2	0	74.37	0	0	6.97	175	50	12.15	48.03	0
Patna	Patna Sadar	Mithapur	7.42	1018	661.7	0.85	95.71	467.4	0	29.71	11.01	0	5.99	125	32	35.23	104.5	50
Patna	Bikram	Moriyawa	7.62	463	300.95	0.64	31.9	184.5	0	39.6	11.75	0	6.52	160	42	13.36	34.97	0
Patna	Maner	Nagwas S	7.7	367	238.55	0.6	14.18	184.5	0	21.82	0	0	5.73	135	18	21.87	33.98	0.03
Patna	Bihta	Parsa Bazar	7.67	445	289.25	0.42	24.81	209.1	0	31.12	0	0	7.38	185	42	19.44	26.36	0.07
Patna	Bihta	Soranpur	7.74	460	299	2.18	17.72	233.7	0	24.8	0	0	1.73	170	40	17.01	32.35	0
Patna	Bikram	Bikram	8.24	296	192.4	0.57	21.27	123	0	26.47	0	0	10.81	125	30	12.15	16.42	0.03
Patna	Phulwarisharif	Khagaul 1	7.64	565	367.25	0.58	60.26	215.25	0	18.22	0	0	3.98	255	72	18.22	12.89	0
Patna	Maner	Maner	7.69	394	256.1	0.58	35.45	184.5	0	13.54	0	0	6.6	195	46	19.44	13.41	0.59
Patna	Naubatpur	Naubatpur	7.7	438	284.7	0.87	24.81	215.25	0	11.5	0	0	5.49	185	38	21.87	20.79	1.16
Patna	Phulwarisharif	Phulwari	7.66	543	352.95	0.75	35.45	252.15	0	16.57	0	0	8.21	240	44	31.59	22.53	0.46
Patna	Bihta	Simri 1	7.6	471	306.15	0.79	31.9	221.4	0	12.14	14.19	0	8.32	210	52	19.44	20.11	0
Patna	Bihta	Bihta	7.75	573	372.45	0.6	28.36	264.45	0	6.45	6.03	0	4.79	290	52	2.43	44.65	10.6
Patna	Naubatpur	Moriyawa (OW)	8.03	477	310.05	0.6	21.27	233.7	0	7.5	8.8	0	6.58	145	54	2.43	31.34	6.22
Purnia	Amaur	Amour	7.72	247	0	0	24.822	53.68	0	56.87	7.87	0	11.65	70	16	7.2	25.29	9.82
Purnia	Damdaha	Amri	8.07	825	0	0.09	46.098	372.1	0	19.76	35.47	0	9.45	340	18	70.8	31.97	5.64
Purnia	Baisi	Basi	7.83	1138	0	0	209.214	279.99	0	3.41	28.41	0	4.69	50	12	4.8	270	13.17
Purnia	Damdaha	Banmankhi	8.08	1267	0	0	141.84	466.04	0	5.95	35.64	0	16.32	60	20	2	255	20.8
Purnia	Amaur	Bansabri	8.04	750	0	0	85.104	247.66	0	16.95	21.44	0	11.78	245	18	48	43.44	16.64
Purnia	Dagaura	Barsoni	8.03	423	0	0.03	31.914	189.71	0	1.31	5.23	0	7.65	145	14	26.4	29.44	1.24
Purnia	Barhara	Magurganj	8.03	780	0	0	56.736	301.95	0	5.45	34.97	0	9.23	290	28	52.8	26.94	2.89
Purnia	Banmankhi	Budhiagola	8.02	485	0	0	24.822	201.3	0	16.84	6.69	0	18.32	170	26	25.2	25.37	5.34
Purnia	Baisi	Chadia	7.75	1345	0	0	226.944	327.57	0	32.64	36.01	0	25.65	65	26	0	274.7	9.74
Purnia	Bhawanipur	Dargaha	7.89	321	0	0	21.276	123.22	0	18.94	5.56	0	3.78	95	24	8.4	25.99	9.78
Purnia	Damdaha	Dhamdaha	7.91	337	0	0	31.914	115.9	0	20.72	4	0.04	30.15	90	24	7.2	28.58	10.13
Purnia	Jalalgarh	Jalalgarh	7.9	607	0	0	42.552	256.2	0	21.7	7.88	0	38.65	215	20	39.6	37.4	1.84

Purnia	Damdaha	Kajha	7.97	819	0	0	106.38	267.18	0	21.32	17.52	0.05	5.98	320	42	51.6	46.14	7.11
Purnia	Kasba	Kasba	7.7	670	0	0	63.828	262.3	0	10.32	26.81	0	13.56	225	38	31.2	43.14	11.34
Purnia	Srinagar	Khata	7.81	233	0	0	17.73	78.69	0	25.64	8.67	0	40.23	70	20	4.8	23.65	1.84
Purnia	Barhara	Mangujan	7.94	410	0	1.12	24.822	179.95	0	11.64	3.65	0	1.45	120	24	14.4	33.76	2.34
Purnia	Purnia East	Purnea	7.98	922	0	0.12	99.288	278.77	0	15.32	36.04	0	0.81	60	20	2.4	240	20.95
Purnia	Purnia East	Ranipatra	7.9	230	0	0	10.638	90.89	0	19.84	3.5	0	20.51	50	18	1.2	23.8	11.86
Purnia	Rupauli	Tikapatti	7.94	724	0	0.36	53.19	311.71	0	6.84	15.21	0	13.51	245	30	40.8	36.48	5.74
Rohtas	Rohats	Akbarpur	7.77	560	364	0.56	17.72	332.1	0	6.7	0	0	4.46	230	54	23.08	25.86	0.61
Rohtas	Sasaram	Amawan Gate	7.67	2510	1631.5	0.36	450.21	412.05	0	99.43	34.52	0	4.15	565	70	94.77	161.45	1.91
Rohtas	Dehri	Anikut (Anikat)	8.48	347	225.55	0.36	14.18	135.3	12	11.5	0	0	8.66	95	30	4.86	31.89	0.02
Rohtas	Chenari	Chenari	7.58	719	467.35	0.56	85.08	221.4	0	24.96	20.37	0	6.03	205	56	15.79	57.66	0.03
Rohtas	Karghar	Jahanabad(Kudra)	7.49	730	474.5	0.42	92.17	184.5	0	31.18	24.96	0	8.03	155	38	14.58	71.17	0.07
Rohtas	Sasaram	Sasaram	8.26	503	326.95	0.34	24.81	227.55	0	9.88	0	0	6.09	155	42	12.15	34.39	1.52
Rohtas	Tilhothu	Tilothu	7.94	365	237.25	0.34	7.09	166.05	0	12.69	9.31	0	14.15	85	30	2.43	30.06	4.05
Rohtas	Rohats	Akbarpur	7.77	560	364	0.56	17.72	332.1	0	6.7	0	0	4.46	230	54	23.08	25.86	0.61
Rohtas	Sheosagar	Amawan Gate	7.67	2510	1631.5	0.36	450.21	412.05	0	99.43	34.52	0	4.15	565	70	94.77	161.45	1.91
Rohtas	Dehri	Anikut (Anikat)	8.48	347	225.55	0.36	14.18	135.3	12	11.5	0	0	8.66	95	30	4.86	31.89	0.02
Rohtas	Chenari	Chenari	7.58	719	467.35	0.56	85.08	221.4	0	24.96	20.37	0	6.03	205	56	15.79	57.66	0.03
Rohtas	Akorhi Gota	Karbindia	7.65	624	405.6	0.37	31.9	344.4	0	16.84	0	0	6.45	175	60	6.08	67.37	6.62
Rohtas	Sasaram	Sasaram	8.26	503	326.95	0.34	24.81	227.55	0	9.88	0	0	6.09	155	42	12.15	34.39	1.52
Rohtas	Tilhothu	Tilothu	7.94	365	237.25	0.34	7.09	166.05	0	12.69	9.31	0	14.15	85	30	2.43	30.06	4.05
Rohtas	Karghar	Ambawalia	8.13	442	0	0	14.184	244	0	8.91	32.87	0	7.11	170	14	32.4	29.24	9.6
Rohtas	Karakat	Barhara	8.14	400	0	0.54	17.73	183	0	12.83	2.36	0	6.95	150	20	24	13.57	12.36
Rohtas	Karghar	Belthari	7.99	481	0	0.23	17.73	219.6	0	6.54	22.35	0	5.96	185	26	28.8	19.84	4.23
Rohtas	Bikramganj	Bikaramganj	7.94	768	0	0	67.374	268.4	0	32.45	15.45	0	9.84	315	24	61.2	16.77	10.3
Rohtas	Dinara	Dinara	7.93	449	0	0	35.46	176.9	0	7.21	17.62	0	3.95	150	20	24	19.99	14.6
Rohtas	Karghar	Kochas	8.04	650	0	0	56.736	256.2	0	10.92	18.69	0	4.96	230	14	46.8	27.29	17.9
Rohtas	Suryapura	Maliabagh	8.09	455	0	0.06	17.73	176.9	0	6.17	18.45	0	2.95	130	18	20.4	31.84	2.3
Rohtas	Narsiganj	Nasriganj	8.21	307	0	0	17.73	122	0	9.31	17.32	0	3.71	95	16	13.2	19.4	6.54
Rohtas	Karghar	Rajandih	8.26	481	0	0	17.73	207.4	0	6.46	16.39	0	7.18	180	12	36	16.14	0.02
Rohtas	Karghar	Sinsiyar	8.25	570	0	0	31.914	237.9	0	11.11	30.15	0.06	7.74	220	12	45.6	23.18	0.3
Saharsa	Saurbazar	Adarch	7.62	1013	658.45	0.08	124.11	384.3	0	0	30.12	0	1.71	475	92	58.8	14.28	1.12
Saharsa	Sonbarsa	Sonbarsaraj	7.83	726	471.9	0	88.65	256.2	0	17.87	0	0	0	195	40	22.8	70.41	17.34
Saharsa	Sonbarsa	Simri BakhtiyarpurI	7.95	804	522.6	0	74.466	292.8	0	80.95	13.05	0	3.11	350	72	40.8	24.04	22.62
Saharsa	Simri Bakhtiyarpur	Simri Bakhtiyarpur	8.14	307	199.55	0.5	21.276	164.7	0	15.95	0	0	13.95	150	20	24	13.45	0.45
Saharsa	Kahara	Bangaon	8.53	1466	952.9	0	124.11	488	24	60.97	20.36	0	0	455	60	73.2	101	28.45
Saharsa	Kahara	Basudev	7.7	1757	1142.05	0.36	148.932	738.1	0	35.17	1.9	0	10	675	108	97.2	62.31	8.64

Saharsa	Satar Kateya	Tulsiyahi	7.91	733	476.45	0	81.558	256.2	0	42.98	5.94	0	1.87	265	62	26.4	41.3	13.45
Saharsa	Satar Kateya	Patodi Bazar	7.97	728	473.2	0.91	53.19	305	0	21.59	0	0	3.42	275	40	42	29.83	8.94
Saharsa	Satar Kateya	Punchgachi	7.98	629	408.85	0	46.098	286.7	0	16.94	0	0	13.97	170	28	24	63.04	5.91
Saharsa	Satar Kateya	Patodi Bazar	8.63	783	508.95	0	53.19	244	30	18.38	30.4	0	0.84	220	40	28.8	62.1	18.45
Saharsa	Saurbazar	Karkutti	8.41	704	457.6	0.04	35.46	256.2	21	12.35	37.4	0.01	13.11	150	22	22.8	85.45	3.45
Saharsa	Satar Kateya	Saharsa	8.02	868	564.2	0.08	88.65	305	0	21.35	23.4	0	3.92	350	66	44.4	25.4	9.74
Saharsa	Saurbazar	Potwa	8.23	272	176.8	0.05	10.638	73.2	0	29.65	0	0	1.11	100	20	12	3.6	0.05
Saharsa	Saurbazar	Niralatola	7.96	404	262.6	0	10.638	237.9	0	11.65	0	0	6.84	100	20	12	48.71	8.94
Saharsa	Saurbazar	Chandaaur Purvi	8.33	512	332.8	0	53.19	213.5	9	0	0	0	12.9	150	42	10.8	49.86	6.74
Samastipur	Patori	Sahit Bajitpur	8.16	1696	0	0.35	184.34	553.5	0	36	26.41	0	34	255	50	31.59	198	34.25
Samastipur	Dalsinghsarai	Dalsinghsarai	8.44	535	0	0.55	46.08	239.85	0	12	15.23	0	27	150	38	13.36	58.88	3.05
Samastipur	Kalyanpur	Jakhra	7.7	654	0	0.31	67.35	279.82	0	24	0.61	0	23	230	48	26.73	61.03	3.59
Samastipur	Bibhutipur	Kalyanpur	8.02	1706	0	0.66	194.97	504.3	0	67	33.22	0	28	580	120	68.04	99.22	52.02
Samastipur	Vidyapatinagar	Madudabad	8.06	1132	0	0.64	145.34	461.25	0	17	26.2	0	30	340	84	29.9	156.22	1.02
Samastipur	samastipur	Motipur	7.76	572	0	0.28	3.54	344.4	0	5	20.33	0	18	205	64	10.935	34.5	3.08
Samastipur	Bibhutipur	Patpara	8.18	556	0	0.29	7.09	332.1	0	8	0	0	16	175	58	7.29	44.38	2.56
Samastipur	Rosare	Rosra	8.2	345	0	0.68	18.43	177.12	0	3	0	0	10	175	38	6.07	21.27	3.41
Samastipur	Sarairanjan	Sarairanjan	8	584	0	1.09	21.27	313.65	0	0	1.19	0	17.72	120	36	7.5	79.37	3.08
Samastipur	Patori	Shahpur Patori	8	677	0	0.82	35.45	270.6	0	14	25.94	0	25.41	170	28	25.3	67.26	2.14
Samastipur	Tajpur	Tajpur	7.7	938	0	0.71	53.17	387.45	0	23	12	1.55	33.02	285	30	51.03	58	3.21
Saran	Chapra	Karbindia	7.65	624	405.6	0.37	31.9	344.4	0	16.84	0	0	6.45	175	60	6.08	67.37	6.62
Saran	Dighwara	Aami	8.06	895	581.75	0.24	106.35	258.3	0	21.62	28.6	0	6	380	72	48.6	30.33	2.34
Saran	Chapra	Baleshra	7.85	1002	651.3	0.11	85.08	356.7	0	78.55	20.41	0	6.21	340	50	52.24	70.29	1.05
Saran	Baniapur	Bishunpur	8	549	356.85	0.25	31.9	276.15	0	15	0	0	8.36	155	46	9.72	52.14	0.25
Saran	Sonepur	Chausia	7.46	730	474.5	0.12	35.45	375.15	0	7	26	0	11.2	265	48	35.23	51.3	1.06
Saran	Chapra	Chapra	7.74	802	521.3	0.26	106.35	275	0	28	0	0	11	1150	24	22	99	3
Saran	Chapra	Chirand	7.38	586	380.9	0.16	35.45	333	0	0	0	0	10.35	240	30	40	49	0.32
Saran	Chapra	Daldali Bazar A	6.93	932	605.8	0.27	35.45	375.15	0	68.57	5.41	0	7.81	325	28	61	71.4	1.66
Saran	Chapra	Daldali Bazar B	7.96	1231	800.15	0.21	124.07	387.45	0	70.28	21.09	0.02	10	340	50	52.24	135.17	2.05
Saran	Ekma	Ekma	6.8	500	325	0.07	17	282.9	0	3	5	0	12.88	95	20	10.93	69	5.12
Saran	Garkha	Garkha	8.1	591	384.15	0.47	46.085	209.1	0	10	35	0	8.31	185	46	17.01	52.03	0.8
Saran	Baniapur	Jalalpur	7.84	720	468	0.17	28.36	301.35	0	30.24	11	0	11.19	265	56	30.37	37	2.01
Saran	Chapra	Kapiya Niyamat	7.76	420	273	0.33	7.09	258.3	0	0	0	0	11.64	180	36	21.87	22.16	1.5
Saran	Chapra	Mahua Pakri	7.78	1152	748.8	0.22	95.71	461.25	0	26.57	19.47	0	8.16	280	60	31	115.23	8.31
Saran	Ravelganj	Mahajanpura	7.89	774	503.1	0.45	31.9	319.8	0	65.32	0	0	8.87	310	76	29.16	47.92	0.13
Saran	Ravelganj	Mahajanpura New	7.2	1650	1072.5	0.13	273.551	436.65	0	84.65	24.49	0	9.74	630	100	87.48	72.28	5.5
Saran	Ravelganj	Manjhi	7.83	688	447.2	0.5	10.63	325.95	0	19.5	29.34	0	10.03	265	60	27.94	41.2	1.19

Saran	Masrakh	Manopali	7.12	547	355.55	0.73	28.36	252.15	0	10.16	0	0	8.34	200	40	24.3	31.92	1.36
Saran	Amnour	Marhaura	7.38	681	442.65	0.19	21	350.55	0	26.27	3	0	8.4	225	38	31.59	59.03	2.14
Saran	Panapur	Mashrakh	6.93	686	445.9	0.4	10.63	375.15	0	7	11	0	9.36	190	54	13.36	67.3	1.02
Saran	Panapur	Mashrakh I	8.14	822	534.3	0.21	14.18	412.05	0	49.2	0	0	12.08	275	34	44.95	73.34	1.97
Saran	Chapra	Mauna Pakari	8.01	1130	734.5	0.23	49.63	430.5	0	66.12	26.49	0	7.59	250	46	32.8	82.49	100.5
Saran	Garkha	Minapur	7.28	1927	1252.55	0.66	297.78	405.9	0	37	111	0	35.77	420	60	65.61	251	6.8
Saran	Chapra	Nagra	7.65	495	321.75	0.34	35.45	190.65	0	27	25	0	28	155	20	14.58	58	6
Saran	Sonepur	Nayagaon	8.49	518	336.7	0.32	39	195	12	10	11.1	0	25.68	140	28	18.22	45	2
Saran	Nagra	Rampur Kala	7.4	610	396.5	0.71	10.64	332.1	0	0	0	0	29.82	210	38	27.9	35.8	1.4
Saran	Sonepur	Sonepur	7.15	931	605.15	0.42	77.99	436.65	0	22	21	0	26	205	48	21	128	1.3
Saran	Parsa	Saguni	7.27	838	544.7	0.53	10.63	500	0	0	2	0	30.49	360	40	63.2	43	1.8
Saran	Chapra	Taraia	7.44	2267	1473.55	0.61	283.6	615	0	68	77.8	0	46.98	445	62	52	280	101
Sheikhpura	Shekhopur Sarai	Ambari	6.88	1830	1189.5	0.08	294.35	251.33	0	218.17	73.28	0	24	280	64	29.16	131.72	244.06
Sheikhpura	Barbhiga	Barbhiga	7.3	1039	675.35	0.42	138.25	264.45	0	82.13	28.76	0	14	265	38	41.31	139	4.05
Sheikhpura	Barbhiga	Keoti	7.65	944	613.6	0.63	35.45	412.05	0	91.27	11.29	0	15	285	40	44.95	77	8.42
Sheikhpura	Barbhiga	Koeribigha	6.74	1153	749.45	0.86	109.89	510.4	0	52	0	0	21	235	50	26.73	141.2	21.71
Sheikhpura	Sheikhpura	Karra	8.24	2619	1702.35	0.66	237.51	774.9	0	177	153.1	0	13	315	78	29.16	255	386.72
Sheikhpura	Barbhiga	Sherpar	8.71	334	217.1	0.32	17.72	147.6	24	18	0	0.09	16	90	20	9.72	45.2	0.87
Sheohar	Purnahiya	Purnahiya Bazar	8.03	998	0	0.37	138.22	338.25	0	28	19.88	0	36	225	62	17.01	112.54	2.48
Sheohar	Tariani Chowk	Sarbarpur	7.75	529	0	0.11	49.63	239.85	0	24	0	0	24	145	40	10.93	58.6	5.91
Sheohar		Sheohar	7.45	407	0	0.17	14.18	227.55	0	11	0	0	29	155	36	15.79	18.93	6.44
Sitamarhi	Bajpatti	Bangaon	8.41	379	0	0.44	7.09	196.8	15	8	0	0	14	100	30	6.07	41.08	2.18
Sitamarhi	Batnaha	Bhupbhana Khaptola	7.93	370	0	0.11	7.09	202	0	2	25.8	0.23	25	135	28	15.79	19.07	5.8
Sitamarhi	Sonbarsa	Bhutahi	8.27	273	0	0.73	14.18	141.45	0	6	2.26	0	15	70	22	3.64	35.86	1.42
Sitamarhi	Sonbarsa	Jagwan Bazar	8.35	319	0	0.14	3.54	178.35	6	14	0	0	17	95	20	10.93	27.98	5.21
Sitamarhi		Karahniya (Chowk)	8.1	282	0	0.27	7.09	159.9	0	8	0	0	21	105	18	14.58	16.3	5.21
Sitamarhi	Pupri	Pupri	7.87	895	0	0.35	109.85	340	0	10	18.89	0	15	205	38	26.73	137.36	1.47
Sitamarhi	Dumra	Sitamarhi	7.99	315	0	0.18	7.09	190.65	0	7	0	0	28	120	22	15.79	15.9	2.72
Sitamarhi		Sursand	8.26	292	0	0.36	10.75	166.05	0	5	0	0	21	85	20	8.5	27.18	2.72
Siwan	basantpur	Malmalia Chowk	8	533	346.45	0.31	14.18	294.96	0	21.57	0	0	7.69	220	44	26.73	24.18	3.43
Siwan	Hussainganj	Ander	8.24	345	224.25	0.39	14	146	0	13	9.4	0	26.36	155	20	25.51	9	3.11
Siwan	basantpur	Basantpur	8.58	486	315.9	0.54	16	190.65	21	0	50	0	11.44	210	40	27	25	2.55
Siwan	Guthani	Chitakahl	8.03	300	195	0.94	11	134	0	BDL	21	0	29	80	6	18	16	11
Siwan	Darauli	Deuria	7.42	628	408.2	0.42	35.45	282.9	0	0	5.6	0	22.41	300	48	43.74	15.7	1.35
Siwan	Darauli	Darauli	7.18	520	338	0.51	20	232	0	14	11	0	38	170	30	23.08	26	9
Siwan	basantpur	Hardia	8.12	371	241.15	0.53	17.72	166.05	0	14	3.7	0	27.3	130	14	23	28	4
Siwan	basantpur	Malmalia Chowk	7.8	533	346.45	0.31	14.18	294.96	0	21.57	0	0	7.69	220	44	26.73	22.18	3.43

Siwan	Maharajganj	Maharajganj	8.06	832	540.8	0.22	113.44	215.25	0	30.82	18	0	9.72	295	42	46.16	56	4.35
Siwan	Nautan	Mairwa	7.32	1310	851.5	0.34	113.44	461.25	0	52	35	0	26	345	30	65.61	135	23.44
Siwan	Raghunathpur	Murarpatti	7.77	827	537.55	0.43	77.99	338.25	0	51.97	15.52	0	10.64	245	52	27.94	82.26	2.8
Siwan	Bhagwanpur	Paterhi	7.15	800	520	0.54	18	332.1	0	21	71	0	23	105	22	12	86	52.43
Siwan	Maharajganj	Sadikpur	8.21	702	456.3	0.48	99.26	262	0	0	28.3	0	32.6	205	30	32.8	82	0
Siwan	Bhagwanpur	Sarripatti	8.03	724	470.6	0.11	35.45	332.1	0	54.02	16.09	0	11.29	245	50	29.16	62.45	16.09
Siwan	Pachrukhi	Siwan	8.27	360	234	0.91	21	166.05	0	4	9.5	0	25.23	120	18	18.22	21	4.67
Siwan	Goriakothi	Tarwara	6.74	999	649.35	0.87	46	504.3	0	9	19	0	37	255	40	37.6	91	14
Supaul	Supaul	Hardi	7.91	467	303.55	0	53.19	164.7	0	32	0.95	0	8.5	210	32	31.2	8.08	6.9
Supaul	Supaul	Malhani	7.84	355	230.75	0	28.368	122	0	38	0	0	5.15	150	38	13.2	8.05	6.97
Supaul	Supaul	Supaul	8.47	926	601.9	0.62	35.46	433.1	18	40	9.84	0	1.2	255	64	22.8	97.45	20.17
Supaul	Supaul	Kario	8.15	2080	1352	0.08	88.65	1018.7	0	41	19.47	0	0.65	930	238	80.4	28.41	13.11
Supaul	Supaul	Andauli	8.04	750	487.5	0	42.552	353.8	0	21	11.5	0	0.81	375	68	49.2	1.9	0.14
Supaul	Supaul	Thumba	8.05	343	222.95	0	35.46	140.3	0	28	0	0.01	1.13	160	22	25.2	12.31	2.3
Supaul	Pipra	Pipra Chowk	7.99	927	602.55	0	46.098	433.1	0	24	31.33	0	8	380	84	40.8	27.31	15.1
Supaul	Raghopur	Ganpatganj	7.88	411	267.15	0.05	35.46	128.1	0	26	36.5	0	0.65	195	18	36	9.03	0.45
Supaul	Raghopur	Kaithtola	7.97	355	230.75	0	39.006	91.5	0	32	0	0	1.15	155	24	22.8	2	0.9
Supaul	Raghopur	Parsharma	7.85	147.1	95.615	0.06	7.092	48.8	0	11	0	0	18.95	45	12	3.6	6	0.91
Supaul	Raghopur	Karzain	7.89	589	382.85	0	35.46	237.9	0	45.12	0	0	3.45	235	60	20.4	20.6	2.56
Supaul	basantpur	Ratanpura	7.93	622	404.3	0	42.552	311.1	0	6.3	0	0	5.95	310	58	39.6	2.45	0.65
Supaul	basantpur	Bhimnagar	8	505	328.25	0.07	46.098	195.2	0	19.56	0	0	8.96	235	36	34.8	4.72	1.1
Supaul	Supaul	Birpur	7.72	554	360.1	0	53.19	231.8	0	8.9	0	0	1.2	260	62	25.2	3.6	0.54
Supaul	basantpur	Bhawanipur	7.87	546	354.9	0	35.46	274.5	0	17.12	0	0	0	270	54	32.4	4.44	1.79
Supaul	Chhatapur	Balua Bazar	7.88	378	245.7	0	31.914	134.2	0	26.45	0	0.04	4.61	130	20	19.2	20.36	9.56
Supaul	basantpur	Balua	7.95	766	497.9	0	42.552	311.1	0	22	33.3	0	13.65	325	82	28.8	20.36	1.45
Supaul	Chhatapur	Basawanpatti	8.06	305	198.25	0.04	0.56	128.1	0	29	0	0	0	150	34	15.6	6.8	2.45
Supaul	Tribeniganj	Jadia	7.89	729	473.85	0	42.552	305	0	32	21.21	0	9.15	245	38	36	45.86	18.45
Supaul	Tribeniganj	Teribeniganj	8	730	474.5	0.064	39.006	317.2	0	33	32.31	0	16.54	340	42	56.4	12.47	4.56
Supaul	Tribeniganj	Teribeniganj	8.07	320	208	0	28.368	109.8	0	34	0	0	0	155	24	22.8	3.73	0.78
Supaul	Pipra	Shym Nagar	8.05	430	279.5	0.81	15.957	195.2	0	46	0	0	13.59	175	28	25.2	17.45	10.23
Vaishali	Mahua	Mahua	8.28	920	598	0.48	81.53	325.95	0	22	40.8	0	36	335	80	33	49	14
Vaishali	Patepur	Patepur	7.64	889	577.85	B	148.89	202.95	0	18.5	28.09	0	5.6	325	60	45.52	54.78	2.34
Vaishali	Goraul	Sarai	8.43	440	286	0.86	14.18	135.3	12	62	28	0	12	170	40	17.01	26	14
Vaishali	Hajipur	Sahjadpur	8.36	1078	700.7	0.73	88.62	455.1	3	21	18.8	0	29.53	290	36	48.6	110	14
Vaishali	Bidupur	Mathura	7.71	596	387.4	1.22	35.45	252.15	0	27.1	0	0	33	245	24	45	24.6	1.1
Vaishali	Hajipur	Kanchanpur	8.07	637	414.05	0.32	10.64	313.65	0	29.1	10.31	0	31	230	52	24.3	39.7	0
Vaishali	Chehra Kalan	Baksama	8.15	521	338.65	0.42	7.09	282.9	0	0	23	0	5.03	220	48	34.3	8.77	4.55

Vaishali	Goraul	Bhaluhia	7.65	833	541.45	0.64	35.45	369	0	0	8	0	9.05	290	18	59.53	50.65	4.35
Vaishali	Raja Pakar	Chak Sikandra	7.74	463	300.95	0.58	14.18	239.85	0	0	0	0	8.71	185	42	19.44	21.25	3.91
Vaishali	Jandaha	Gajipur	8.08	720	468	0.46	53.11	307.5	0	0	0	0	9.35	225	44	18.22	66.24	4.81
Vaishali	Goraul	Goroul	7.42	761	494.65	0	35.45	362.85	0	0	12.67	0	8.81	280	42	45.52	44.2	1.13
Vaishali	Goraul	Garaul	8.01	2150	1397.5	0.74	347.41	522.75	0	41	95	0	31	460	42	86.3	211	112.65
Vaishali	Hajipur	Hajipur	8.44	315	204.75	0.62	10.63	140	9	0	3	0	21	125	24	16	11	10
Vaishali	Chehra Kalan	Harpur	7.11	796	517.4	0.37	24.81	399.75	0	0	0	0	8.06	310	40	51.03	38.1	3.34
Vaishali	Sahdal Buzurg	Kumarkahl	7.36	891	579.15	0.87	63.81	338.25	0	33	31.87	0	23	310	60	38.88	37.66	0
Vaishali	Mehnar	Mahnar	8.05	435	282.75	0.88	10.63	214	0	15	11	0	20	170	32	22	23	5
W Champaran	Bagha	Bagha	7.32	951	0	0.09	56.736	420.9	0	38.7	11.32	0	5.94	365	76	42	47.5	3.4
W Champaran	Narkatiyaganj	Banspur	7.99	310	0	0	28.368	122	0	3.98	3.3	0	7.9	115	22	14.4	12	0.56
W Champaran	Bagha	Belwa	7.48	364	0	0	31.914	128.1	0	9.4	6.9	0	0.91	125	20	18	16.4	0.45
W Champaran	Bettiah	Bettiah	7.27	655	0	0.4	39.006	298.9	0	15.45	3.45	0	4.1	270	80	16.8	18.9	1.69
W Champaran	Chanpatia	Gurwalia	8.1	791	0	0	42.552	359.9	0	27.65	1.84	0.01	7	280	54	34.8	40.78	1.1
W Champaran	Sidhaw	Harnatanr	7.87	323	0	0	24.822	140.3	0	5.98	1.89	0	3.3	110	26	10.8	22.65	0.9
W Champaran	Narkatiyaganj	Korigawa	7.64	586	0	0.66	35.46	207.4	0	40.12	3.98	0	0.71	200	62	10.8	27.45	9.4
W Champaran	Manjhaulia	Majhwalia	8.03	608	0	0	39.006	250.1	0	31.7	11.1	0	0.78	225	54	21.6	33.98	8.9
W Champaran	Sidhaw	Naurangia	7.3	882	0	0	60.282	396.5	0	4.9	0.3	0	8.45	305	68	32.4	43.89	15.6
W Champaran	Ramnagar	Saubani Pokhra	7.52	358	0	0	35.46	140.3	0	7.9	1.96	0	1.45	140	28	16.8	14.54	4.7
W Champaran	Sidhaw	Valmiki	7.33	544	0	0	39.006	256.2	0	19.89	6.9	0.02	9.78	205	46	21.6	29.63	11.9
W Champaran	Narkatiyaganj	Taulaha	7.85	986	0	0	60.282	439.2	0	36.8	16.4	0	15.45	325	86	26.4	57.14	26.9

Districtwise, Monthly Rainfall and its departure during the year 2016

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	27.8	101	0	-100	29.6	92	1	-97	193.4	69	276.4	2	690.4	55	149.8	-58	564.6	103	124.9	49	0	-100	0	-100
2	Arwal	3.3	-79	0	-100	4.2	-20	0	-100	7.6	-32	99.3	-12	368.9	50	267.8	7	378.6	108	96.5	190	0	-100	0	-100
3	Aurangabad	15.7	-13	0	-100	7.4	-5	0	-100	11.6	-20	124.4	2	346.4	19	288.4	14	419.3	117	152.6	244	0	-100	0	-100
4	Banka	18.3	81	0	-100	0	-100	0	-100	66	44	267.2	93	281	4	190.8	-21	377.3	76	77.3	-9	0	-100	0	-100
5	Begusarai	5.2	-36	0	-100	0	-100	0	-100	68.3	40	80.2	-48	285.8	-4	72.4	-72	400.2	86	40.7	-35	0	-100	0	-100
6	Bhabhua	13.1	-51	0	-100	10.1	1	0	-100	3.1	-84	55.7	-58	400.5	28	390.5	30	251.9	0	39.9	-6	0	-100	0	-100
7	Bhagalpur	23.6	33	0.9	-92	1.6	-85	7.2	-69	92	40	104.9	-47	315.3	8	117.1	-55	320.1	41	27.1	-69	0	-100	0	-100
8	Bhojpur	2	-84	0	-100	4.2	-39	0	-100	47.9	92	51	-53	331.7	-1	110.2	-60	320.3	57	7	-84	0	-100	0	-100
9	Buxar	0	-100	0	-100	0	-100	0	-100	0	-100	117.8	6	342.2	19	128.8	-51	213	6	132	146	0	-100	0	-100
10	Darbhanga	0	-100	1.8	-81	1	-92	4.6	-78	141.3	136	149.5	-5	354.9	20	75.3	-74	378.1	103	45.5	-32	0	-100	0	-100
11	E Champaran	8.6	-33	0.4	-96	0	-100	4.8	-64	143.4	192	113.8	-30	234.9	-34	45	-85	322.6	56	22	-70	0	-100	0	-100
12	Gaya	23.2	59	0.3	-97	11.6	34	0	-100	5.8	-68	85.3	-33	399.2	34	296.2	9	463.2	157	119.7	123	0	-100	0	-100
13	Gopalganj	0	-100	0	-100	0	-100	0	-100	113	258	99.5	-36	257.1	-17	48.5	-84	327.9	49	19	-66	0	-100	0	-100
14	Jehanabad	16.2	27	0	-100	3.6	-49	0	-100	10.4	-55	77.4	-31	278.9	9	178.2	-30	436.4	122	57.8	48	0	-100	0	-100
15	Jamui	19.6	94	0	-100	0.8	-91	0	-100	21.1	-40	100	-39	284.9	-9	316.5	25	342.2	53	28.2	-60	0	-100	0	-100
16	Katihar	0	-100	0	-100	0	-100	13.6	-45	91.2	-5	67.3	-68	363.7	1	97.5	-64	329.2	22	62.7	-16	0	-100	0	-100
17	Khagaria	5.4	-43	3.2	-24	0	-100	17.5	14	69.4	50	40.4	-78	227.1	-27	100	-66	241.4	-9	26.1	-68	0	-100	0	-100
18	Kishanganj	0	-100	0.3	-96	4.6	-74	0	-100	236.7	52	425	15	827.7	43	174.8	-62	676	96	141.1	76	0	-100	0	-100
19	Lakhisarai	16.1	25	0	-100	7.3	-27	0	-100	32.6	-27	72.2	-56	341	12	165.5	-39	439.9	90	29.9	-58	0	-100	0	-100
20	Madhepura	1.2	-90	0	-100	0	-100	16	-46	133.8	58	176.6	-17	359.8	-5	120.2	-60	440.6	70	73.2	4	0	-100	0	-100
21	Madhubani	7.1	-36	0	-100	4	-57	0	-100	95.6	21	201	9	287.3	-23	88.1	-71	306.1	60	18.4	-76	0	-100	0	-100
22	Munger	4.6	-64	0	-100	0	-100	0	-100	41.2	-8	15	-91	219.6	-28	121.4	-55	466.2	101	31	-57	0	-100	0	-100
23	Muzaffarpur	0	-100	6.5	-27	0	-100	11.4	-14	92.9	72	85	-47	266.9	-18	74.2	-75	318.9	58	29.3	-54	0	-100	0	-100
24	Nalanda	9.3	-21	0	-100	9.3	3	0	-100	44	58	99.1	-22	394.8	39	143.7	-45	272.9	35	67	32	0	-100	0	-100
25	Nawada	29.5	127	0	-100	3.7	-62	0	-100	5.7	-83	88	-35	270.9	-10	250.9	-9	301.9	64	48.8	-22	0	-100	0	-100
26	Patna	2.6	-80	0	-100	2.4	-75	0	-100	80.3	204	75.9	-39	289.5	-13	110.5	-58	383.7	76	52.3	-6	0	-100	0	-100
27	Purnea	6	-34	1.2	-87	24.3	88	22	-35	280.3	131	217.6	-11	396.8	-9	113.6	-66	333.2	13	71.5	-14	0	-100	0	-100
28	Rohtas	25.5	96	1.7	-87	32.3	255	0	-100	15.1	9	54	-40	489.3	78	245.2	-12	261.1	37	57.2	33	0	-100	0	-100
29	Saharsa	0	-100	0	-100	0	-100	0	-100	106.2	-1	87.4	-65	298.7	-42	70.7	-80	444.1	53	60.9	-36	0	-100	0	-100
30	Samastipur	0	-100	0	-100	0	-100	0	-100	127.4	198	121.7	-31	465.2	48	73.4	-75	351.9	44	96.2	49	0	-100	0	-100
31	Saran	3.7	-77	0.5	-95	0	-100	0	-100	56.4	59	54	-59	239.1	-28	114.5	-61	278.1	30	47.7	-19	0	-100	0	-100
32	Sheikhpura	0	-100	0	-100	0	-100	0	-100	36.6	9	180.9	25	211.5	-27	230.5	-4	282.5	49	105.8	82	0	-100	0	-100
33	Sheohar	0	-100	0	-100	0	-100	0	-100	11.2	-84	13.8	-93	237.2	-40	56	-82	273.3	52	0	-100	0	-100	0	-100
34	Sitamarhi	0	-100	0	-100	0	-100	0	-100	50.5	-29	115.6	-42	191.6	-52	61.6	-80	322.6	79	2.2	-97	0	-100	0	-100
35	Siwan	0	-100	0	-100	0	-100	0	-100	50.5	84	39.7	-71	313.8	-7	123.2	-57	315.6	31	47	9	0	-100	0	-100
36	Supaul	18.1	138	0	-100	0	-100	28.1	22	189.2	127	311.8	56	300.2	-20	139.3	-48	448.3	113	120.9	62	0	-100	0	-100
37	Vaishali	3.7	-76	0	-100	3.4	-53	0	-100	94.2	251	66.7	-52	306.8	-18	90.7	-68	260.5	16	58.1	-21	0	-100	0	-100
38	W. Champaran	0	-100	2.1	-80	4.5	-65	8.2	-55	131.4	133	242.7	6	528.9	18	89.4	-74	362.3	45	43.4	-34	0	-100	0	-100

**District wise percentage of well showing Rise, fall or no significant decline trend (2007-2016)
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	100
2	Aurangabad	55	45	89	40	60	70
3	Banka	33	67	67	56	44	89
4	Begusarai	62	38	100	27	73	82
5	Bhagalpur	33	67	83	18	82	64
6	Bhojpur	63	37	100	62	38	100
7	Buxar	50	50	83	50	50	83
8	Darbhanga	50	50	100	75	25	100
9	Gaya	33	67	100	17	83	83
10	Gopalganj	55	45	100	9	91	100
11	Jamui	14	86	71	29	71	71
12	Jehanabad & Arwal	44	66	78	57	43	86
13	Kaimur	38	62	87	75	25	87
14	Katihar	0	100	73	23	77	85
15	Khagaria	83	17	100	43	57	100
16	Kishanganj	50	50	100	100	0	100
17	Lakhisarai	33	67	67	40	60	100
18	Madhepura	40	60	100	80	20	80
19	Madhubani	20	80	80	22	78	89
20	Munger	57	47	86	50	50	87
21	Muzaffarpur	33	67	100	6	94	60
22	Nalanda	50	50	75	38	62	87
23	Nawada	17	83	50	50	50	83
24	W. Champaran	40	60	100	57	43	100
25	Patna	45	55	100	36	63	64
26	E. Champaran	67	33	100	46	54	92
27	Purnia	33	66	100	29	71	100
28	Rohtas	14	86	64	73	27	100
29	Saharsa	42	58	100	43	57	100
30	Samastipur	13	87	75	0	100	12
31	Saran	64	36	91	58	42	83
32	Seikhpura	100	0	100	100	0	100
33	Sheohar	0	100	0	100	0	100
34	Sitamarhi	40	60	100	50	50	100
35	Siwan	67	33	89	60	40	100
36	Supaul	63	37	100	78	22	100
37	Vaishali	83	17	100	17	83	83