

RANKING OF DISTRICTS ON THE BASIS OF PROGRAM REVIEW INDICATORS

Oct - 2016

OBJECTIVE

- The objective of the analysis is to rank districts based on their performance
- Performance is measured using set of input and output indicators used for program reviews by GoUP

Description of the variables

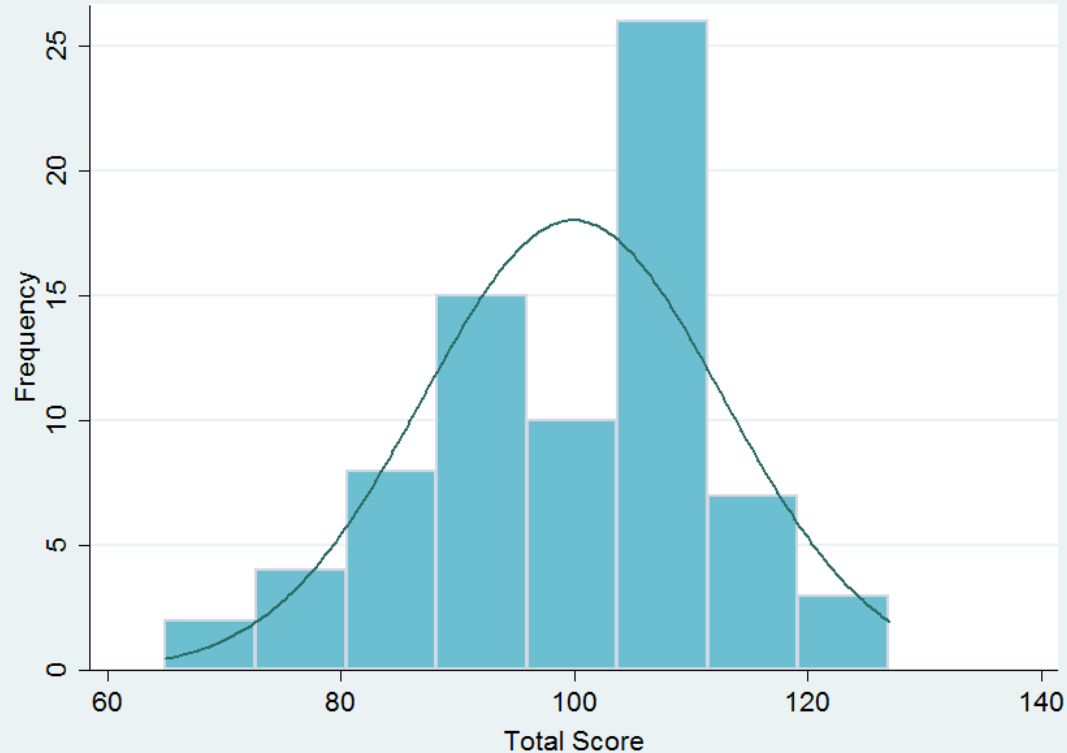
- The districts are ranked based on 34 key indicators (7 input indicators and 27 output indicators).
- The input indicators are taken from the financial data and the performance indicators are taken from the HMIS/ UPHMIS/ MCTS data.
- These indicators are routinely used by the NHM for reviewing performance of the district and/or CMOs during review meetings at the state for HMIS/UPHMIS/ MCTS and financial data

Variables	Mean	Std. Dev.	Min	Max
% of Budget utilized RCH flexi pool	55.5	8.3	32.4	68.6
% of Budget utilized Mission flexi pool	34.0	8.7	12.4	62.1
% of Budget utilized RI	44.2	15.6	12.9	99.6
% of Budget utilized NUHM	50.4	16.2	5.1	84.3
% of Budget utilized National programme	34.8	14.4	14.7	124.1
% of construction works completed/in progress	98.2	7.5	50.0	100.0
% Budget utilized in construction work	84.2	19.3	7.8	100.0
Rate of change of ins del rate	-1.1	21.5	-62.3	84.4
% of pregnancy identified as HRP	3.4	2.5	0.1	10.4
% received full ANC (3 ANC)	69.2	9.2	52.6	103.1
Maternal death reported per 1000 expected death	91.8	121.5	0.0	685.7

Variables	Mean	Std. Dev.	Min	Max
% change in OPD from last year	20.3	20.2	-34.5	88.0
% change in IPD from last year	33.2	91.1	-57.1	648.0
Bed occupancy rate	54.9	45.2	3.2	208.5
% change in pathology investigation from last year	35.1	54.3	-43.8	395.5
% Institutional deliveries	45.2	11.9	12.3	72.1
% Missing delivery	41.9	14.0	5.3	77.5
% of beneficiaries received JSY	79.7	14.0	37.7	104.9
% Institutional deliveries ASHA received JSY benefits	58.7	16.1	20.8	102.2
% of C-section deliveries	3.5	4.0	0.0	22.8
% fully immunized children	74.3	15.6	49.2	159.4
dropout children from BCG to Measles	4.6	10.9	-30.8	28.8
% of Sterilization to total workload	4.7	3.3	0.2	18.8
% of IUCD insertion to total workload	22.8	10.4	4.5	49.2
% of PPIUCD insertion to total IUCD inserted	22.0	15.0	3.1	92.6
% Cataract Operation against target	7.2	16.2	0.0	103.6
% facilities uploaded HMIS data on or before 5th	86.7	17.3	19.2	100.0
% facilities compiled and forwarded HMIS data on or before 10th	35.6	45.0	0.0	100.0
% facilities uploaded UPHMIS data on time	23.9	33.0	0.0	96.7
% of estimated preg women registered in MCTS	63.9	14.1	23.1	119.3
% of estimated children registered in MCTS	44.4	11.0	18.6	86.1
% Fully immunized children as per MCTS	22.5	8.3	5.9	55.5
# of women received full ANC (3 ANC) as per MCTS	23.2	9.9	6.7	54.6
# of delivery reported as per MCTS	14.3	8.0	1.2	36.4

METHOD

Distribution of score (final run, 34 variables)



- All variables are divided into quintiles; districts in the lowest quintile gets a score of `1` and those are in highest quintile gets a score of `5` for each variable. Rank of total score is computed to order the districts as per their performance
- This method generates top 5 and bottom 5 districts
- The distribution of score is found to be normal indicating robustness of the methodology adopted

Summary of output indicators between poor and best performance districts

Variables	Mean	Std. Dev.	Min	Max	Mean	Std. Dev.	Min	Max
	Poor performer				Best performer			
% change in OPD from last year	4.5	24.2	-34.5	29.5	23.1	24.3	2.9	63.9
% change in IPD from last year	-10.4	13.5	-29.1	2.6	214.8	261.3	-2.3	648.0
Bed occupancy rate	25.2	27.4	3.2	73.1	106.8	45.7	33.0	169.0
% change in pathology investigation from last year	9.8	27.1	-27.5	41.1	55.3	20.3	35.1	91.8
% Institutional deliveries	32.2	11.9	21.0	49.8	53.7	16.2	32.3	71.9
% Missing delivery	55.9	12.2	37.3	70.7	33.9	12.2	15.6	47.0
% of beneficiaries received JSY	63.9	15.6	37.7	79.2	80.2	13.5	58.0	98.2
% Institutional deliveries ASHA received JSY benefits	45.0	14.8	20.8	58.0	57.5	14.0	35.1	71.3
% of C-section deliveries	4.1	4.8	0.0	11.6	3.1	3.7	0.6	10.5
% fully immunized children	62.0	6.7	53.8	68.6	73.0	7.9	59.3	82.8
dropout children from BCG to Measles	5.5	3.3	1.0	8.6	6.9	9.7	-6.9	21.0
% of Sterilization to total workload	4.6	3.2	2.3	9.7	5.6	3.8	1.1	11.1
% of IUCD insertion to total workload	20.9	5.7	14.0	27.6	28.3	12.8	12.2	49.2
% of PPIUCD insertion to total IUCD inserted	22.1	11.8	7.5	34.8	31.1	13.7	16.7	54.4
% Cataract Operation against target	3.9	1.9	0.9	6.1	24.9	35.3	1.5	93.8
% facilities uploaded HMIS data on or before 5th	81.6	16.2	64.2	99.5	95.9	3.5	91.8	100.0
% facilities compiled and forwarded HMIS data on or before 10th	19.4	43.5	0.0	97.2	36.3	44.6	0.0	100.0
% facilities uploaded UPHMIS data on time	3.4	7.7	0.0	17.2	27.8	43.2	0.0	92.7
% of estimated preg women registered in MCTS	51.4	7.9	39.8	60.5	69.8	10.2	58.7	85.9
% of estimated children registered in MCTS	37.2	6.1	27.6	43.6	52.9	13.4	42.0	72.4
% Fully immunized children as per MCTS	15.1	1.3	13.5	16.6	30.3	14.2	20.0	55.5
# of women received full ANC (3 ANC) as per MCTS	15.9	2.1	14.0	19.1	35.8	13.5	20.6	54.6
# of delivery reported as per MCTS	8.5	4.1	5.0	13.4	24.7	9.5	10.5	36.4

Summary of output indicators between poor and best performance districts

Variables	Mean	Std. Dev.	Min	Max	Mean	Std. Dev.	Min	Max
	Poor performer				Best performer			
Rate of change of institutional delivery rate	-25.7	29.5	-62.3	-0.2	3.6	23.9	-29.7	44.7
% of registered pregnancy identified as high risk (MCTS)	3.0	2.5	0.3	6.7	5.3	2.3	1.5	8.7
% of registered pregnant women received 3 ANC	64.1	4.1	59.6	68.5	72.4	11.3	60.5	90.4
Maternal death reported in HMIS per 1000 expected deaths	49.1	33.0	0.0	83.2	263.1	227.1	32.7	685.7

Summary of input indicators between poor and best performance districts

Variables	Mean	Std. Dev.	Min	Max	Mean	Std. Dev.	Min	Max
	Poor performer				Best performer			
% of Budget utilized RCH flexi pool	43.2	4.3	39.1	48.7	59.4	9.7	47.9	68.6
% of Budget utilized Mission flexi pool	27.3	3.5	21.5	30.3	35.4	5.6	28.8	44.4
% of Budget utilized RI	25.0	11.9	12.9	43.1	51.1	12.4	33.9	66.5
% of Budget utilized NUHM	34.9	10.2	21.0	44.8	58.1	7.5	47.5	69.3
% of Budget utilized National programme	36.6	7.0	24.8	42.9	43.9	6.3	35.9	53.6
% of construction works completed/in progress	99.0	2.1	95.2	100.0	100.0	0.0	100.0	100.0
% Budget utilized in construction work	80.4	23.0	40.0	97.5	97.3	4.2	90.8	100.0

The mean difference of the score between best and poor performer is (i.e; 50) is found to be statistically significant

Summary of output indicators for best and poor performance districts

Variables	Poor performing					Best performing					
	Bijnor	Kanpur Dehat	Aligarh	J P Nagar	Meerut	Kannauj	Etah	Bagpat	Saharanpur	Shamli	Lalitpur
Total score	65	71	73	75	75	119	119	119	123	126	127
Rank	75	74	73	71	71	4	4	4	3	2	1
% change in OPD from last year	5.3	29.5	4.2	18.2	-34.5	63.9	28.3	2.9	34.7	5.3	3.4
% change in IPD from last year	-7.4	2.6	-19.1	1.1	-29.1	648.0	63.1	-2.3	408.9	164.5	6.8
Bed occupancy rate	3.2	15.2	73.1	17.2	17.3	86.8	169.0	126.8	123.9	33.0	101.1
% change in pathology investigation from last year	3.4	41.1	1.0	30.8	-27.5	52.4	91.8	35.1	45.2	43.6	63.7
% Institutional deliveries	23.2	38.3	49.8	28.6	21.0	60.1	32.3	42.4	45.1	71.9	70.6
% Missing delivery	61.4	55.1	37.3	54.9	70.7	29.9	43.8	47.0	41.2	15.6	25.7
% of beneficiaries received JSY	69.9	79.2	37.7	65.1	67.6	85.1	58.0	98.2	81.4	84.9	73.8
% Institutional deliveries ASHA received JSY benefits	49.2	42.4	20.8	58.0	54.5	54.6	35.1	67.0	48.9	68.2	71.3
% of C-section deliveries	6.2	0.8	1.9	0.0	11.6	0.6	1.8	1.6	10.5	0.8	3.2
% fully immunized children	55.8	65.3	68.6	66.5	53.8	59.3	72.1	72.5	73.7	77.9	82.8
dropout children from BCG to Measles	6.9	8.0	8.6	3.0	1.0	21.0	7.1	0.0	12.6	7.9	-6.9
% of Sterilization to total workload	2.7	2.4	2.3	5.8	9.7	1.1	1.3	11.1	7.4	6.8	5.9
% of IUCD insertion to total workload	27.6	25.7	20.2	14.0	17.1	24.7	12.2	31.8	19.1	33.0	49.2
% of PPIUCD insertion to total IUCD inserted	7.5	13.2	34.8	32.2	22.7	25.9	54.4	31.3	16.7	20.3	37.7
% Cataract Operation against target	4.4	0.9	4.3	6.1	3.8	1.5	4.5	4.0	29.2	93.8	16.4
% facilities uploaded HMIS data on or before 5th	64.2	98.3	71.8	74.4	99.5	96.3	100.0	94.7	91.8	100.0	92.7
% facilities compiled and forwarded HMIS data on or before 10th	0.0	0.0	0.0	0.0	97.2	80.1	100.0	0.0	0.0	0.0	38.0
% facilities uploaded UPHMIS data on time	0.0	0.0	17.2	0.0	0.0	92.7	73.2	0.7	0.0	0.0	0.0
% of estimated preg women registered in MCTS	51.7	56.4	48.7	60.5	39.8	70.3	85.9	76.9	61.2	58.7	66.1
% of estimated children registered in MCTS	40.4	35.8	27.6	43.6	38.8	45.5	67.3	72.4	42.0	42.5	48.0
% Fully immunized children as per MCTS	16.6	14.1	13.5	15.7	15.7	25.1	55.5	38.8	22.0	20.3	20.0
# of women received full ANC (3 ANC) as per MCTS	14.0	19.1	14.0	15.8	16.5	49.1	24.2	54.6	32.8	33.8	20.6
# of delivery reported as per MCTS	5.7	12.5	5.8	13.4	5.0	27.6	16.6	10.5	27.0	30.2	36.4

Summary of output indicators for best and poor performance districts

	Poor performing					Best performing					
Variables	Bijnor	Kanpur Dehat	Aligarh	J P Nagar	Meerut	Kannauj	Etah	Bagpat	Saharan pur	Shamli	Lalitpur
Rate of change of institutional delivery rate	-62.3	-0.8	-0.2	-13.0	-52.1	7.2	2.0	-29.7	-0.7	44.7	-1.7
% of registered pregnancy identified as high risk (MCTS)	2.6	6.7	0.3	1.3	4.3	5.2	8.7	5.9	5.4	4.9	1.5
% of registered pregnant women received 3 ANC	68.5	68.3	62.7	59.6	61.2	61.3	60.5	78.5	74.2	69.8	90.4
Maternal death reported in HMIS per 1000 expected deaths	83.2	0.0	40.9	45.7	75.8	32.7	115.0	276.5	200.4	268.5	685.7

Summary of input indicators for best and poor performance districts

	Poor performing					Best performing					
Variables	Bijnor	Kanpur Dehat	Aligarh	J P Nagar	Meerut	Kannauj	Etah	Bagpat	Saharan pur	Shamli	Lalitpur
% of Budget utilized RCH flexi pool	40.3	41.3	39.1	48.7	46.8	66.2	48.1	47.9	68.6	68.3	57.3
% of Budget utilized Mission flexi pool	28.9	21.5	29.1	30.3	26.9	34.2	38.7	28.8	44.4	30.8	35.3
% of Budget utilized RI	21.5	12.9	30.0	17.8	43.1	63.1	46.5	33.9	43.3	66.5	53.5
% of Budget utilized NUHM	42.6	27.5	44.8	38.5	21.0	55.0	54.4	69.3	60.6	47.5	62.0
% of Budget utilized National programme	24.8	38.1	42.9	37.1	40.0	35.9	47.0	53.6	43.0	45.5	38.6
% of construction works completed/in progress	100.0	100.0	95.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
% Budget utilized in construction work	87.1	40.0	88.2	97.5	89.1	93.2	100.0	90.8	100.0	100.0	100.0

TOP AND BOTTOM PERFORMER- SEP 2016

■ **Top 5 performer :**

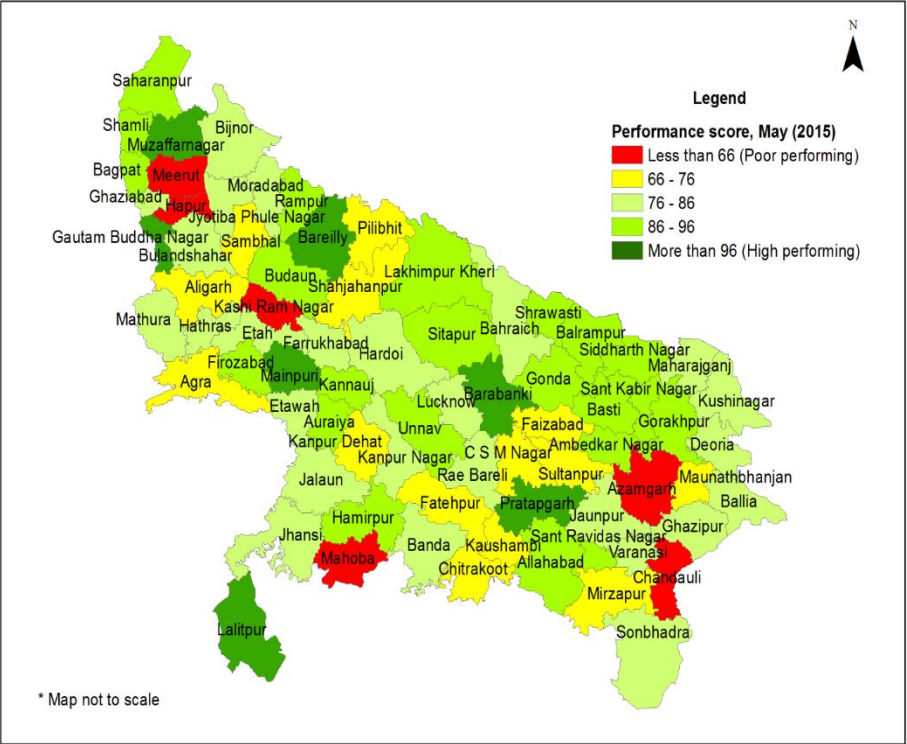
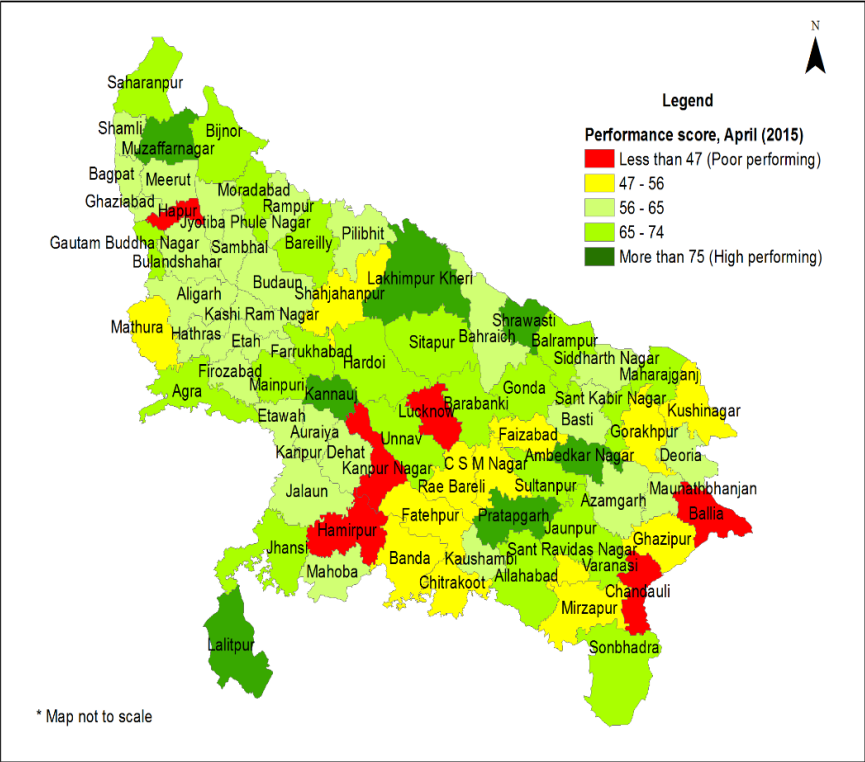
Lalitpur (127), Shamli (126), Shahrampur (123), Kannauj (119),
Bagpat (119), Etah (119)

Bottom 5 performer :

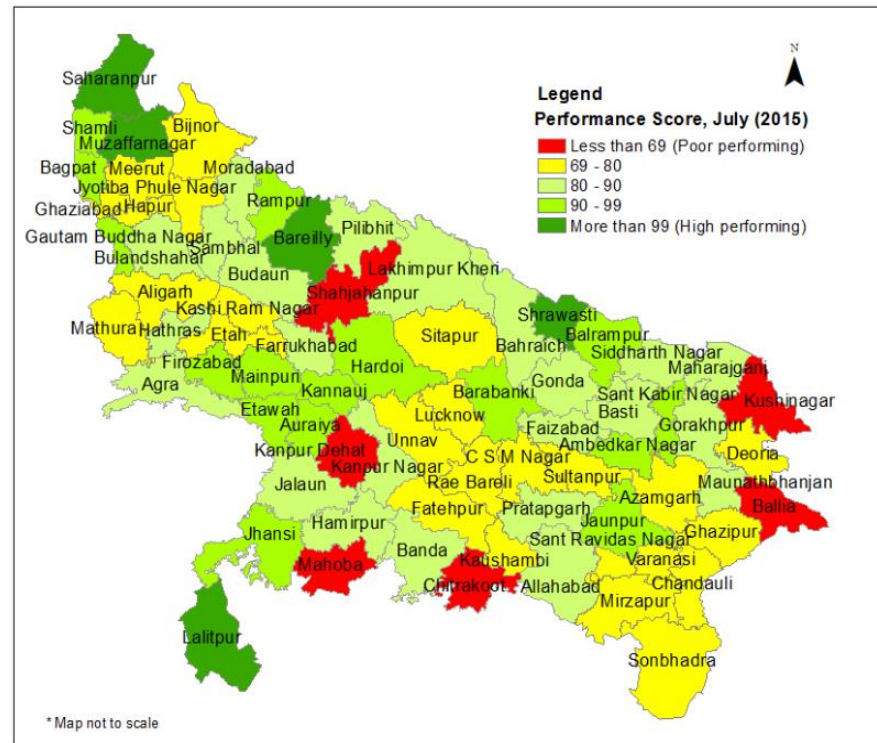
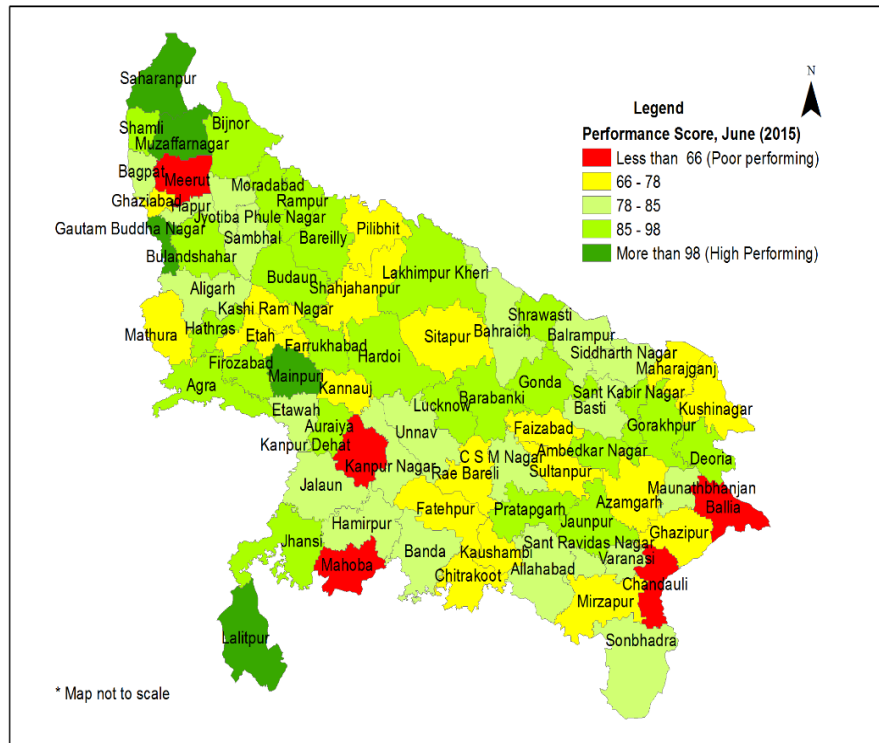
Bijnor (65), Kanpur Dehat (71), Aligarh (73),
Jyotiba Phule Nagar (75), Meerut (75)

***() indicates score obtained by the districts**

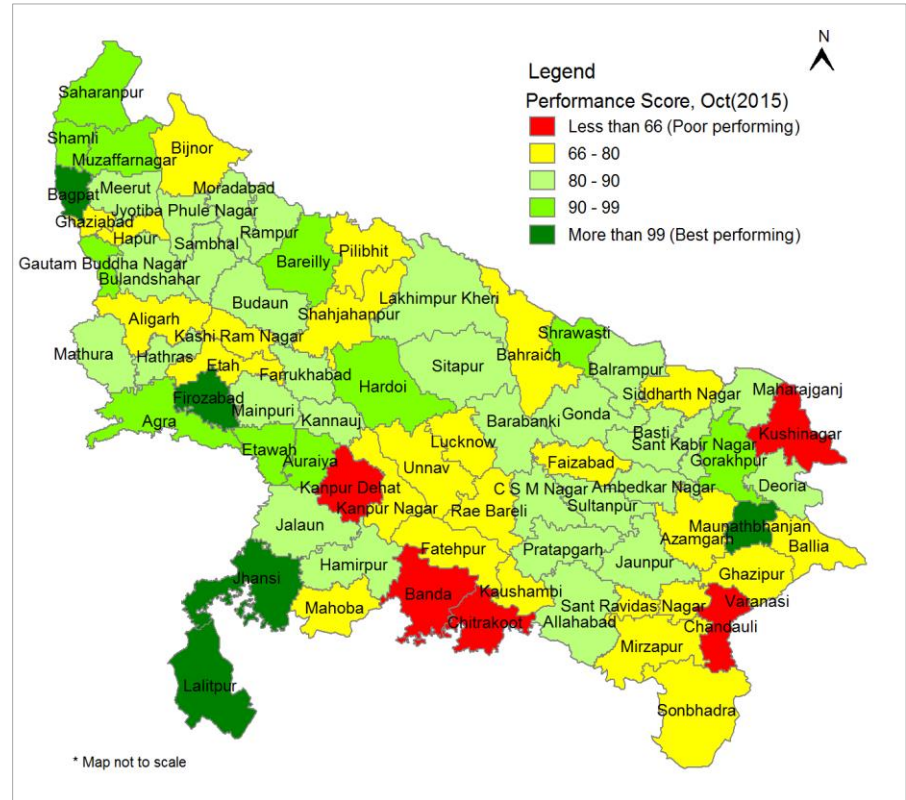
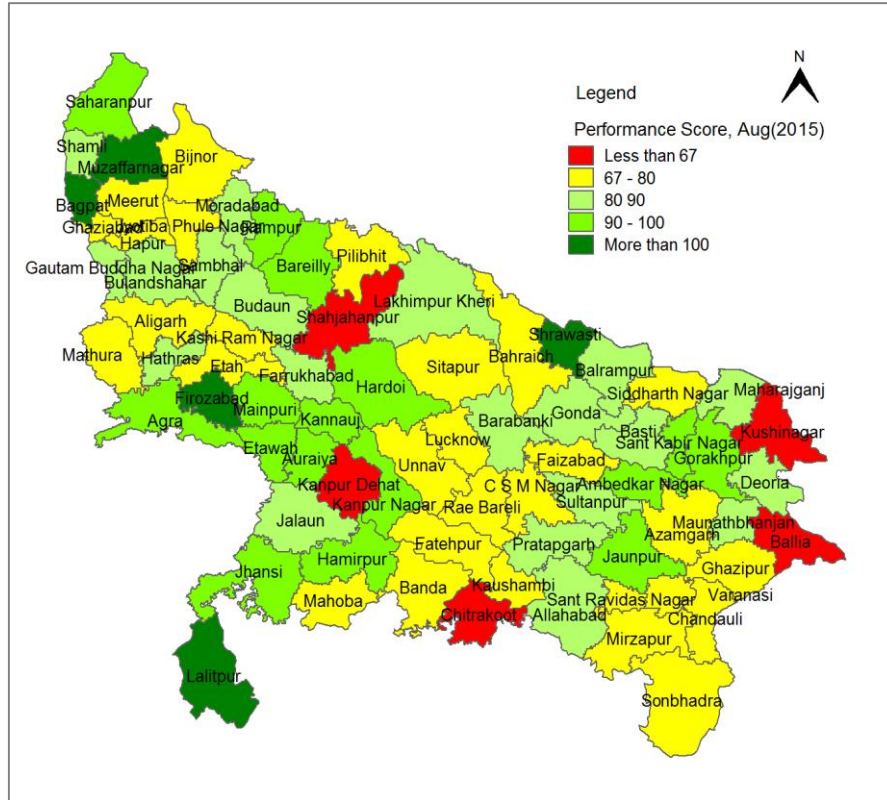
Classification of districts of Uttar Pradesh based on performance score



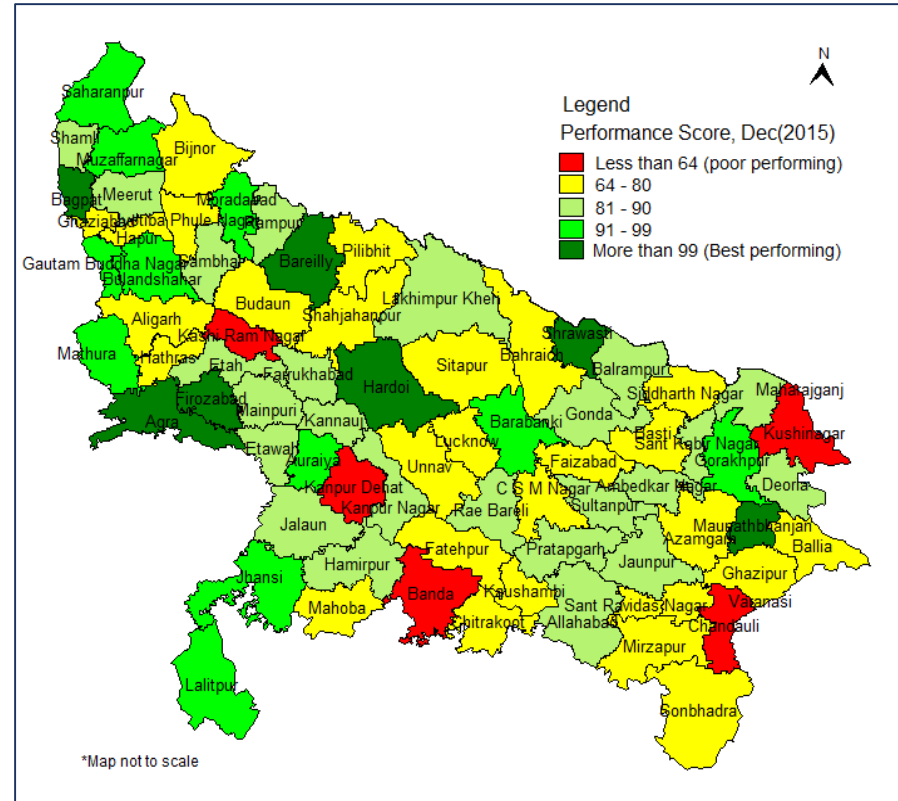
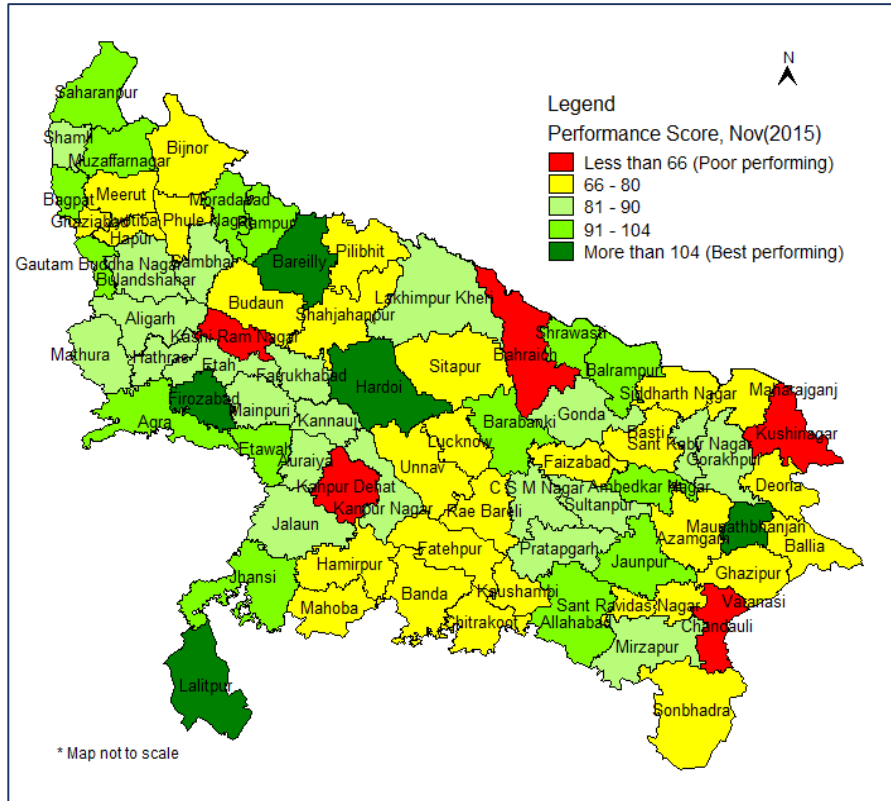
Classification of districts of Uttar Pradesh based on performance score



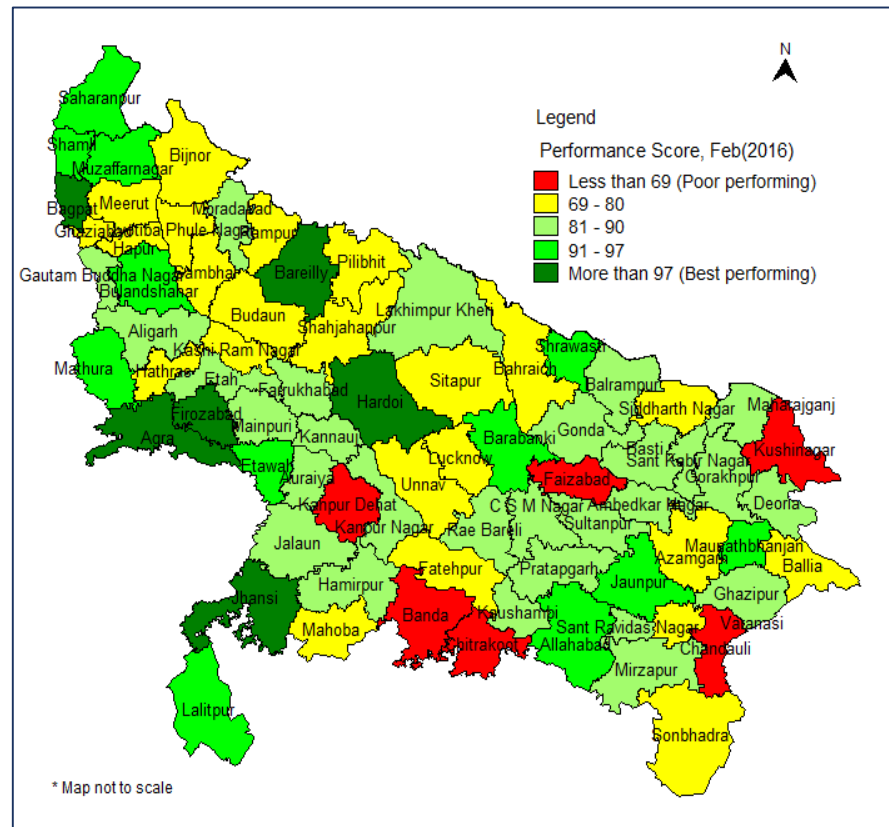
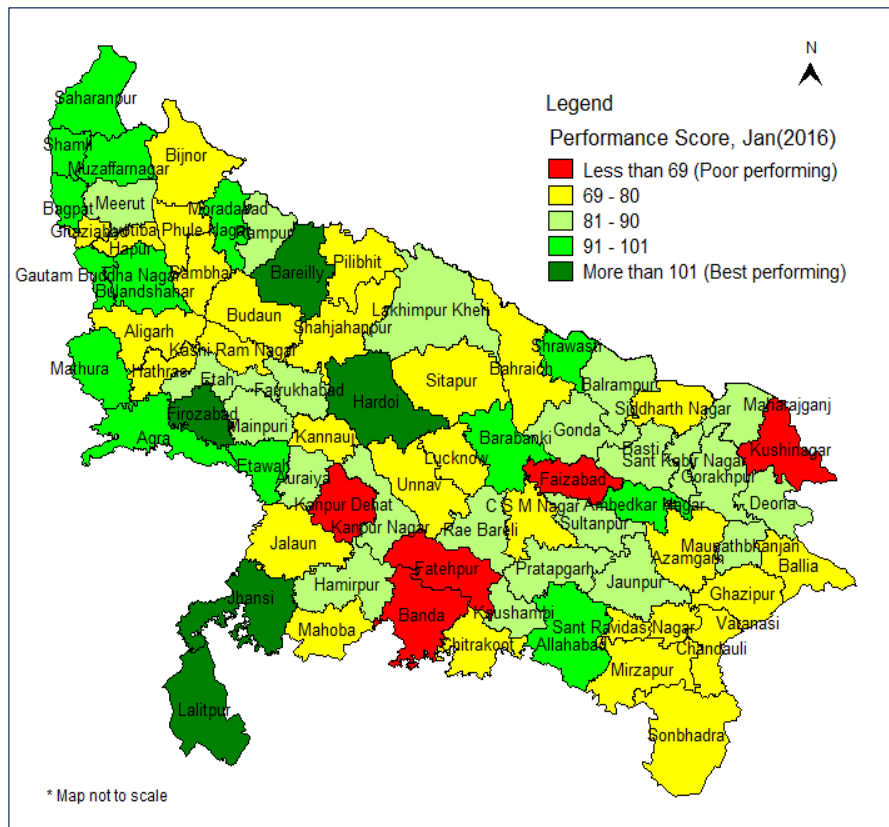
CLASSIFICATION OF DISTRICTS OF UTTAR PRADESH BASED ON PERFORMANCE SCORE



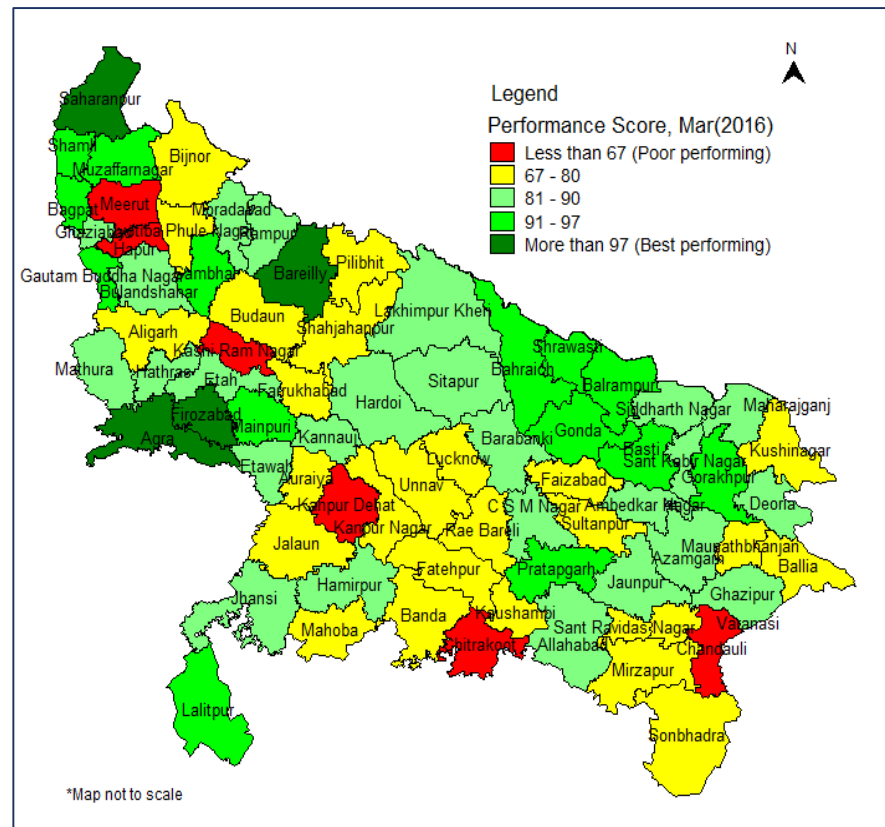
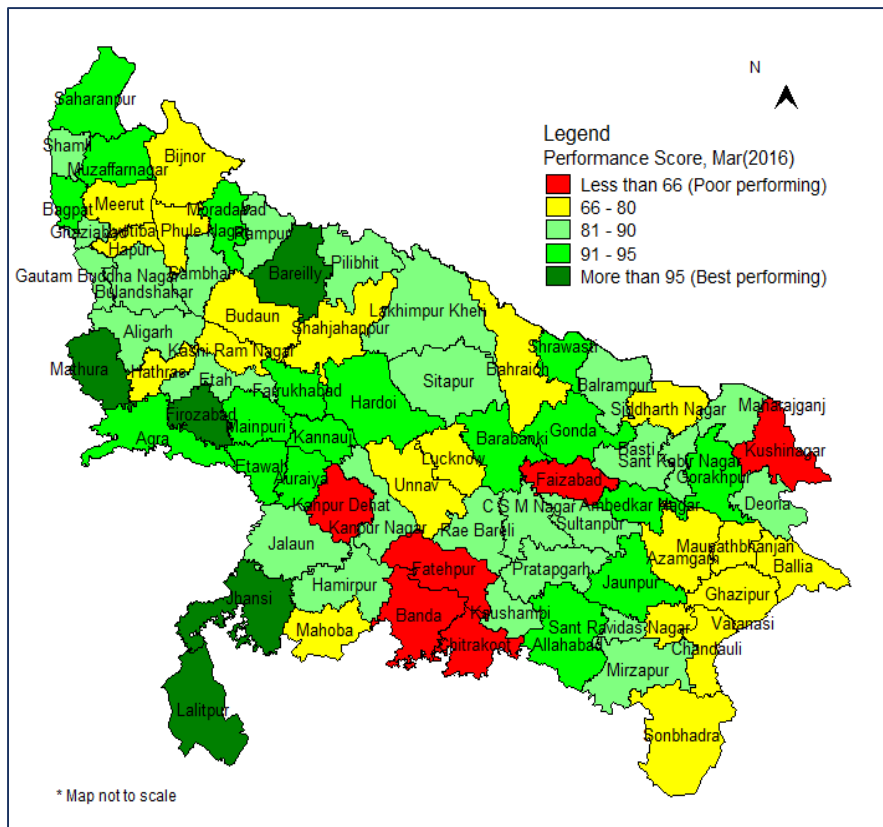
CLASSIFICATION OF DISTRICTS OF UTTAR PRADESH BASED ON PERFORMANCE SCORE



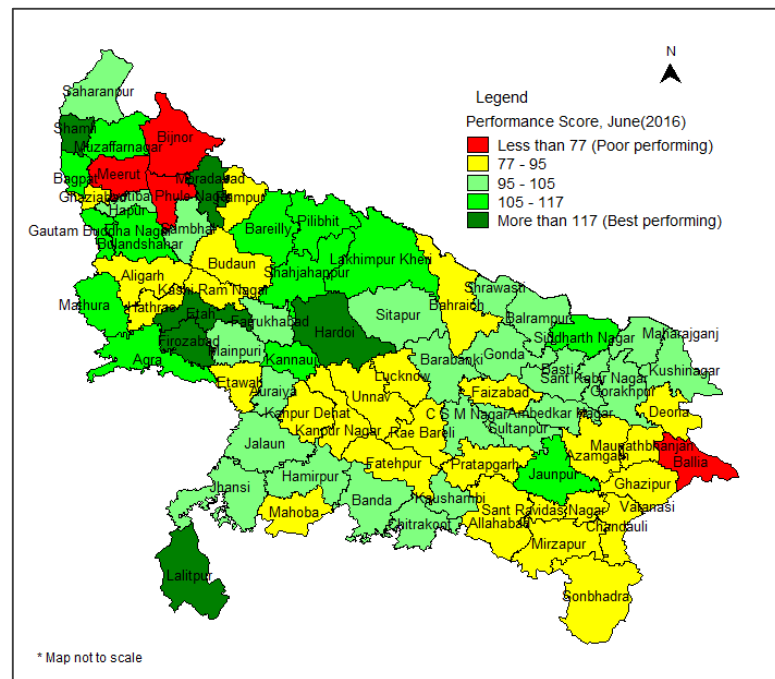
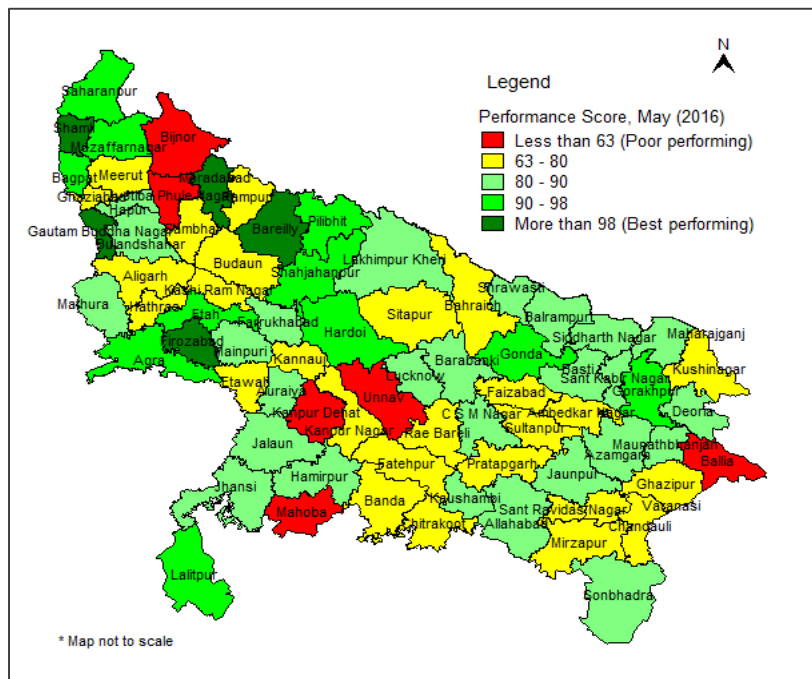
CLASSIFICATION OF DISTRICTS OF UTTAR PRADESH BASED ON PERFORMANCE SCORE



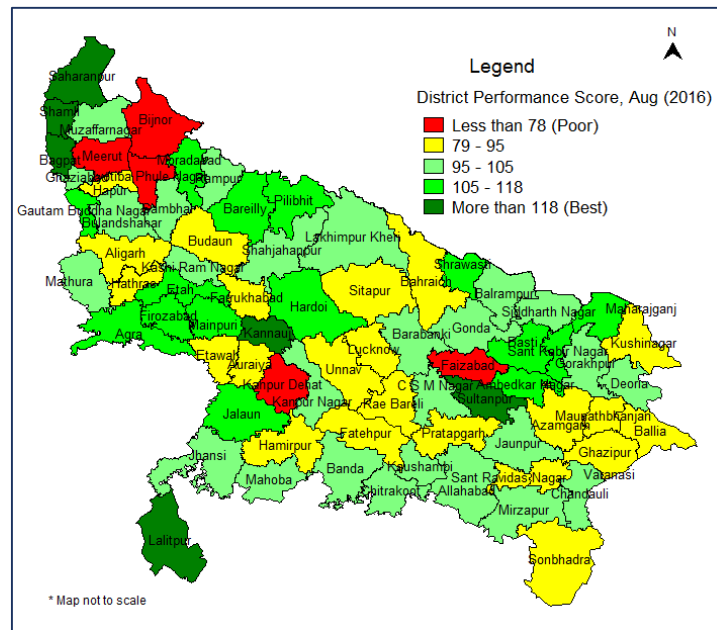
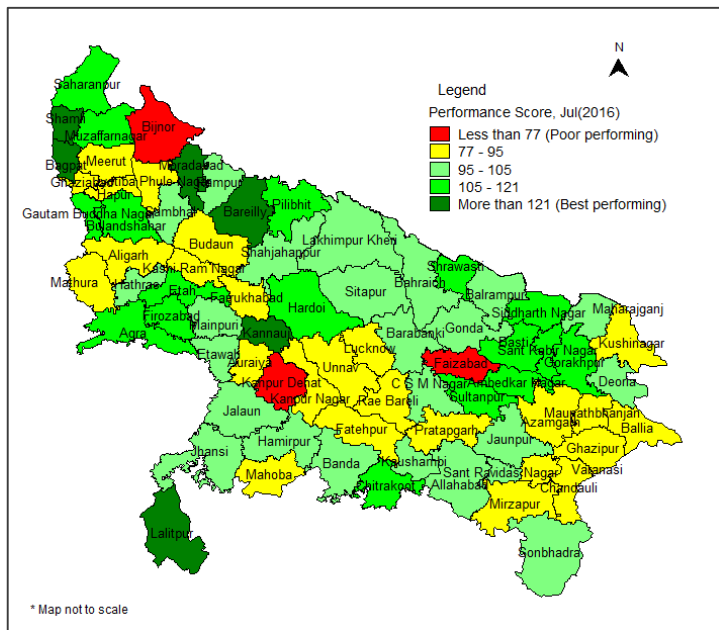
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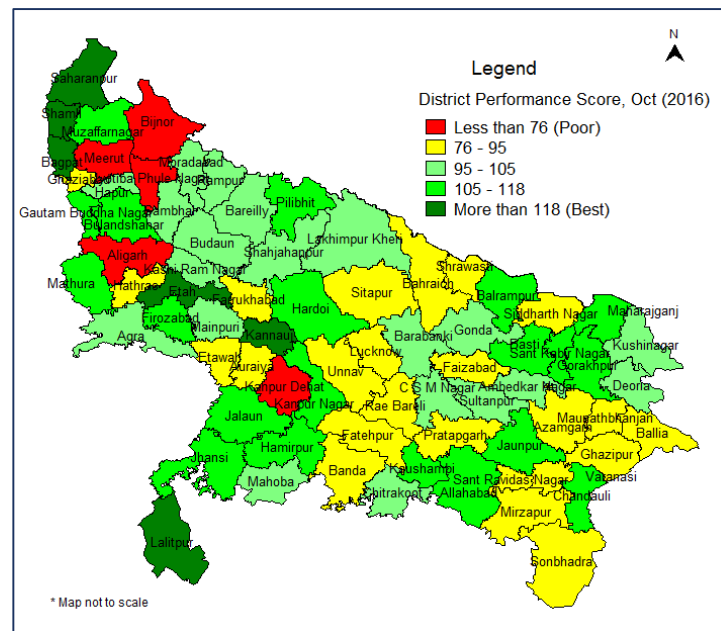
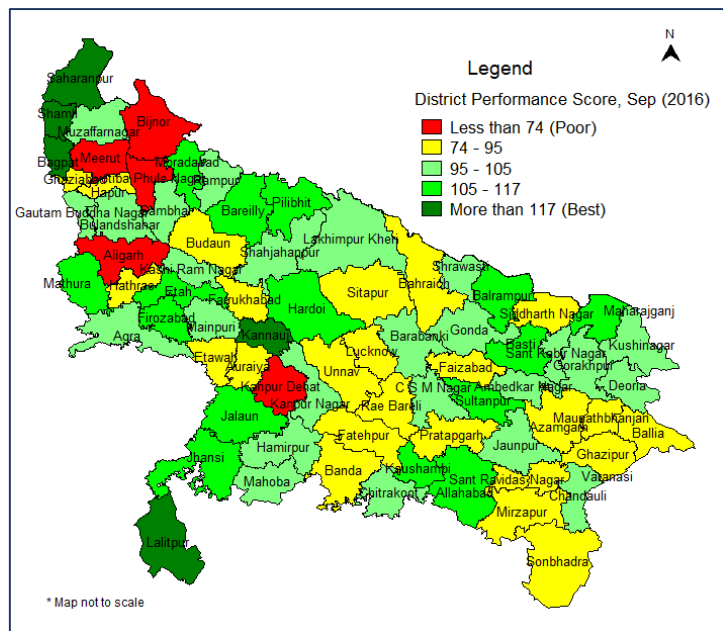
CLASSIFICATION OF DISTRICTS OF UTTAR PRADESH BASED ON PERFORMANCE SCORE



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CLASSIFICATION OF DISTRICTS OF UTTAR PRADESH BASED ON PERFORMANCE SCORE



COMPARATIVE PERFORMANCE RANKING

Category	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	June-16	July-16	Aug-16	Sep-16	Oct-16	Consistent
Top performing	Bagpat (100), Shrawasti (100), Agra (100), Maunathbhanjan (100), Hardoi (103), Barailly (104), Firozabad (106)	Hardoi (102), Jhansi (102), Firozabad (103), Barailly (104), Lalitpur (107)	Jhansi (98), Hardoi (98), Barailly (99), Agra (99), Bagpat (100), Firozabad (101)	Mathura (96), Jhansi (97), Firozabad (98), Bareilly (99), Lalitpur (107)	Saharanpur (98), Firozabad (98), Agra (99), Bareilly (103)	Moradabad (99), Shamli (101), Bareilly (103), Gautam Buddha (104), Nagar Firozabad (105)	Lalitpur (118), Hardoi, (118), Firozabad (119), Etah (120), Moradabad (123), Shamli (128)	Bareilly (122), Bagpat (122), Kannauj (124), Moradabad (124), Lalitpur (127), Shamli (129)	Lalitpur (132), Shamli (125), Bagpat (121), Shahranpur (119), Sultanpur (119), Kannauj (119)	Lalitpur (130), Kannauj (124), Shamli (121), Shahranpur (119), Bagpat (118)	Lalitpur (127), Shamli (126), Shahranpur (123), Kannauj (119), Bagpat (119), Etah (119)	Firozabad, Lalitpur Shamli Shahranpur
Poor Performing	Kanpur Dehat (60), Chandauli (61), Kushinagar (61), Kashiram Nagar (62), Banda (63)	Kushinagar (55), Kanpur Dehat (59), Banda (60), Faizabad (67), Fatehpur (68)	Kushinagar (54), Kanpur Dehat (59), Banda (61), Faizabad (65), Chitrakoot (68), Chandauli (68)	Kanpur Dehat (57), Banda (59), Kushinagar (61), Faizabad (64), Chitrakoot (65), Fatehpur (65)	Kanpur Dehat (56), Chitrakoot (63), Hapur (63), Meerut (64), Chandauli (66), Kasganj (66)	Kanpur Dehat (58), Jyotiba Phule Nagar (60), Unnav (62), Mahoba (62), Ballia (62), Bijnor (62)	Bijnor (66), Ballia (72), Jyotiba Phule Nagar (76), Meerut (76)	Kanpur Dehat (73), Faizabad (74), Bijnor (75)	Bijnor (70), Kanpur Dehat (73), Meerut (74)	Kanpur Dehat (65), Bijnor (68), Jyotiba Phule Nagar (70), Meerut (71), Aligarh (73)	Bijnor (65), Kanpur Dehat (71), Aligarh (73), Jyotiba Phule Nagar (75), Meerut (75)	Kanpur Dehat, Bijnor Banda, Chandauli

*() indicates score obtained by the districts

THANK YOU

