

RANKING OF DISTRICTS ON THE BASIS OF PROGRAM REVIEW INDICATORS

July - 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

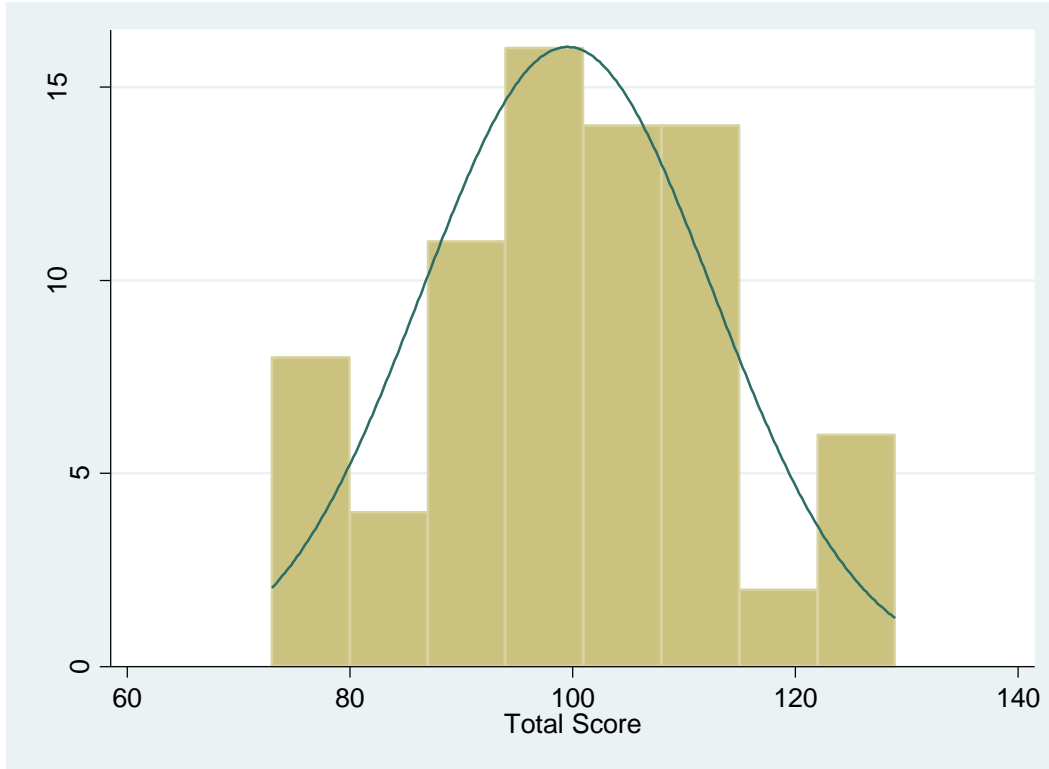
- The districts are ranked based on 34 key indicators (7 input indicators and 27 output indicators).
- The input indicators are taken from the financial data and the performance indicators are taken from the HMIS/ UPHMIS/ MCTS data.
- These indicators are routinely used by the NHM for reviewing performance 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	38.7	9.5	7.7	56.2
% of Budget utilized Mission flexi pool	11.7	4.7	3.0	28.4
% of Budget utilized RI	21.3	11.0	2.9	63.4
% of Budget utilized NUHM	20.8	13.5	0.5	58.2
% of Budget utilized National programme	17.1	9.3	1.1	56.5
% of construction works completed/in progress	97.5	8.4	50.0	100.0
% Budget utilized in construction work	82.4	20.3	7.8	100.0
Rate of change of ins del rate	-3.2	21.6	-68.6	58.9
% of pregnancy identified as HRP	1.7	1.6	0.0	8.1
% received full ANC (3 ANC)	65.2	8.9	49.1	89.5
Maternal death reported per 1000 expected death	80.7	110.5	0.0	600.0

Variables	Mean	Std. Dev.	Min	Max
% change in OPD from last year	20.9	28.7	-34.1	183.8
% change in IPD from last year	24.9	68.6	-55.8	537.9
Bed occupancy rate	26.6	26.7	1.5	189.9
% change in pathology investigation from last year	30.4	36.6	-40.0	169.5
% Institutional deliveries	38.0	10.7	10.0	65.8
% Missing delivery	50.0	13.2	12.3	80.9
% of beneficiaries received JSY	78.6	16.9	34.6	112.1
% Institutional deliveries ASHA received JSY benefits	56.6	17.9	18.1	106.8
% of C-section deliveries	3.6	4.2	0.0	23.7
% fully immunized children	75.2	16.3	50.0	166.2
dropout children from BCG to Measles	-2.8	16.9	-50.5	93.9
% of Sterilization to total workload	2.3	1.9	0.1	9.4
% of IUCD insertion to total workload	11.6	5.4	2.2	26.1
% of PPIUCD insertion to total IUCD inserted	21.5	17.5	0.7	102.6
% Cataract Operation against target	3.6	7.4	0.0	51.7
% facilities uploaded HMIS data on or before 5th	93.2	9.0	57.8	100.4
% facilities compiled and forwarded HMIS data on or before 10th	43.1	49.2	0.0	100.0
% facilities uploaded UPHMIS data on time	22.1	30.0	0.0	90.9
% of estimated preg women registered in MCTS	56.9	14.7	20.6	122.6
% of estimated children registered in MCTS	34.2	12.6	14.4	89.8
% Fully immunized children as per MCTS	14.5	7.2	3.8	43.5
# of women received full ANC (3 ANC) as per MCTS	9.3	7.5	0.9	38.4
# of delivery reported as per MCTS	8.1	5.4	0.8	24.0

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 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	16.0	6.2	9.4	21.7	61.4	65.4	5.4	183.8
% change in IPD from last year	5.9	22.7	-11.1	31.7	126.1	210.6	-12.5	537.9
Bed occupancy rate	15.1	18.0	1.6	35.5	30.2	18.1	13.0	50.6
% change in pathology investigation from last year	21.3	30.4	-2.3	55.6	50.4	33.0	9.1	103.0
% Institutional deliveries	31.5	10.8	20.1	41.5	45.0	16.3	26.5	63.1
% Missing delivery	60.2	5.6	54.4	65.7	42.7	10.8	30.1	53.8
% of beneficiaries received JSY	67.8	12.4	53.5	75.0	84.6	16.2	53.8	99.0
% Institutional deliveries ASHA received JSY benefits	42.7	4.5	39.9	47.9	68.4	5.6	58.4	74.1
% of C-section deliveries	2.9	2.3	0.6	5.2	4.7	5.3	0.6	14.1
% fully immunized children	61.5	8.0	52.5	67.8	80.5	11.3	66.1	92.1
dropout children from BCG to Measles	-2.2	4.6	-7.5	0.9	-5.2	12.2	-24.6	9.5
% of Sterilization to total workload	0.9	0.6	0.3	1.5	3.4	2.4	0.3	6.3
% of IUCD insertion to total workload	14.8	2.3	12.4	16.9	15.7	6.1	7.2	26.1
% of PPIUCD insertion to total IUCD inserted	8.6	4.2	6.1	13.4	36.2	24.3	13.0	79.7
% Cataract Operation against target	1.4	1.5	0.4	3.1	8.1	13.5	1.0	35.3
% facilities uploaded HMIS data on or before 5th	95.4	4.3	91.4	100.0	97.3	6.1	84.9	100.0
% facilities compiled and forwarded HMIS data on or before 10th	33.3	57.7	0.0	100.0	50.0	54.8	0.0	100.0
% facilities uploaded UPHMIS data on time	2.2	3.8	0.0	6.6	33.9	43.2	0.0	88.4
% of estimated preg women registered in MCTS	43.6	3.5	40.4	47.4	62.4	9.9	55.1	81.4
% of estimated children registered in MCTS	22.6	4.6	17.9	27.0	43.3	13.0	32.9	68.5
% Fully immunized children as per MCTS	7.7	1.6	6.3	9.4	19.6	9.1	6.6	32.5
# of women received full ANC (3 ANC) as per MCTS	4.0	1.6	2.9	5.9	18.1	15.1	3.6	38.4
# of delivery reported as per MCTS	3.6	3.7	0.8	7.7	13.9	9.6	2.6	24.0

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	-16.0	45.9	-68.6	16.0	-2.6	42.4	-52.8	58.9
% of registered pregnancy identified as high risk (MCTS)	0.5	0.3	0.2	0.9	2.5	1.2	1.3	4.4
% of registered pregnant women received 3 ANC	64.0	2.7	61.4	66.7	68.9	9.7	54.1	83.4
Maternal death reported in HMIS per 1000 expected deaths	36.0	31.2	0.0	56.0	188.9	224.9	0.0	600.0

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	34.5	15.7	22.6	52.3	47.7	7.0	39.3	56.2
% of Budget utilized Mission flexi pool	14.9	11.7	6.9	28.4	13.8	2.8	9.7	16.6
% of Budget utilized RI	11.6	6.1	5.9	18.1	29.2	8.7	17.9	42.8
% of Budget utilized NUHM	13.8	10.9	4.9	25.9	35.1	19.1	12.4	58.2
% of Budget utilized National programme	29.5	23.9	11.2	56.5	22.0	7.4	14.7	33.2
% of construction works completed/in progress	100.0	0.0	100.0	100.0	100.0	0.0	100.0	100.0
% Budget utilized in construction work	65.8	33.5	29.7	96.0	94.2	7.0	82.3	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	Bijnor	Faizabad	Kanpur Dehat	Bareilly	Bagpat	Kannauj	Moradabad	Lalitpur	Shamli
	Poor performer			Best performer					
Total score	73	75	76	122	122	124	124	127	129
Rank	75	74	73	5	5	3	3	2	1
% change in OPD from last year	9.4	21.7	17.0	39.1	183.8	76.8	51.6	11.7	5.4
% change in IPD from last year	-11.1	31.7	-2.8	24.1	-12.5	537.9	40.2	7.6	159.6
Bed occupancy rate	1.6	35.5	8.1	14.1	49.5	38.9	15.2	50.6	13.0
% change in pathology investigation from last year	-2.3	10.5	55.6	38.0	37.9	40.3	73.9	103.0	9.1
% Institutional deliveries	20.1	41.5	32.8	27.6	38.0	56.4	26.5	63.1	58.4
% Missing delivery	65.7	54.4	60.6	53.8	53.3	35.3	49.9	33.8	30.1
% of beneficiaries received JSY	75.0	53.5	74.9	91.6	99.0	83.0	85.3	53.8	94.9
% Institutional deliveries ASHA received JSY benefits	47.9	40.3	39.9	68.1	67.1	58.4	70.1	72.7	74.1
% of C-section deliveries	5.2	2.9	0.6	7.6	1.6	0.6	14.1	3.6	0.7
% fully immunized children	52.5	64.3	67.8	92.1	67.4	66.1	87.1	89.2	81.0
dropout children from BCG to Measles	0.9	0.0	-7.5	-7.5	-10.3	9.5	-4.2	-24.6	5.8
% of Sterilization to total workload	1.5	0.8	0.3	5.9	6.3	0.3	1.5	2.2	3.9
% of IUCD insertion to total workload	16.9	12.4	15.3	16.5	13.7	14.6	7.2	26.1	15.9
% of PPIUCD insertion to total IUCD inserted	6.2	13.4	6.1	13.0	42.6	21.8	79.7	39.8	20.3
% Cataract Operation against target	3.1	0.4	0.7	1.6	2.1	1.0	2.1	6.5	35.3
% facilities uploaded HMIS data on or before 5th	94.9	100.0	91.4	100.0	99.6	99.2	100.0	84.9	100.0
% facilities compiled and forwarded HMIS data on or before 10th	0.0	0.0	100.0	100.0	0.0	0.0	100.0	0.0	100.0
% facilities uploaded UPHMIS data on time	0.0	6.6	0.0	87.5	0.0	88.4	27.3	0.0	0.0
% of estimated preg women registered in MCTS	40.4	43.1	47.4	55.1	81.4	56.9	56.1	61.5	63.6
% of estimated children registered in MCTS	27.0	23.1	17.9	39.2	68.5	32.9	34.5	43.4	41.5
% Fully immunized children as per MCTS	7.4	6.3	9.4	15.5	32.5	25.1	22.6	6.6	15.1
# of women received full ANC (3 ANC) as per MCTS	2.9	3.3	5.9	4.8	33.6	38.4	3.6	8.1	20.0
# of delivery reported as per MCTS	2.2	0.8	7.7	7.0	6.6	24.0	2.6	23.4	19.8

Summary of output indicators for best and poor performance districts

Variables	Bijnor	Faizabad	Kanpur Dehat	Bareilly	Bagpat	Kannauj	Moradabad	Lalitpur	Shamli
	Poor performer			Best performer					
Rate of change of institutional delivery rate	-68.6	16.0	4.5	-52.8	-45.4	26.2	-0.3	-1.9	58.9
% of registered pregnancy identified as high risk (MCTS)	0.9	0.2	0.5	4.4	2.9	3.0	1.5	1.8	1.3
% of registered pregnant women received 3 ANC	61.4	66.7	64.0	65.7	70.6	54.1	73.5	83.4	66.2
Maternal death reported in HMIS per 1000 expected deaths	56.0	51.9	0.0	14.2	193.5	0.0	72.6	600.0	253.0

Summary of input indicators for best and poor performance districts

Variables	Bijnor	Faizabad	Kanpur Dehat	Bareilly	Bagpat	Kannauj	Moradabad	Lalitpur	Shamli
	Poor performer			Best performer					
% of Budget utilized RCH flexi pool	52.3	22.6	28.6	56.2	39.3	54.7	41.0	45.4	49.6
% of Budget utilized Mission flexi pool	28.4	6.9	9.5	16.1	9.7	16.6	15.5	11.4	13.7
% of Budget utilized RI	10.8	18.1	5.9	17.9	21.8	31.8	30.9	30.3	42.8
% of Budget utilized NUHM	25.9	4.9	10.5	57.4	20.0	34.1	58.2	28.4	12.4
% of Budget utilized National programme	20.7	11.2	56.5	24.5	33.2	26.7	15.6	17.4	14.7
% of construction works completed/in progress	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
% Budget utilized in construction work	71.6	96.0	29.7	82.3	90.8	93.2	99.0	100.0	100.0

TOP AND BOTTOM PERFORMER- JUL 2016

■ **Top 5 performer :**

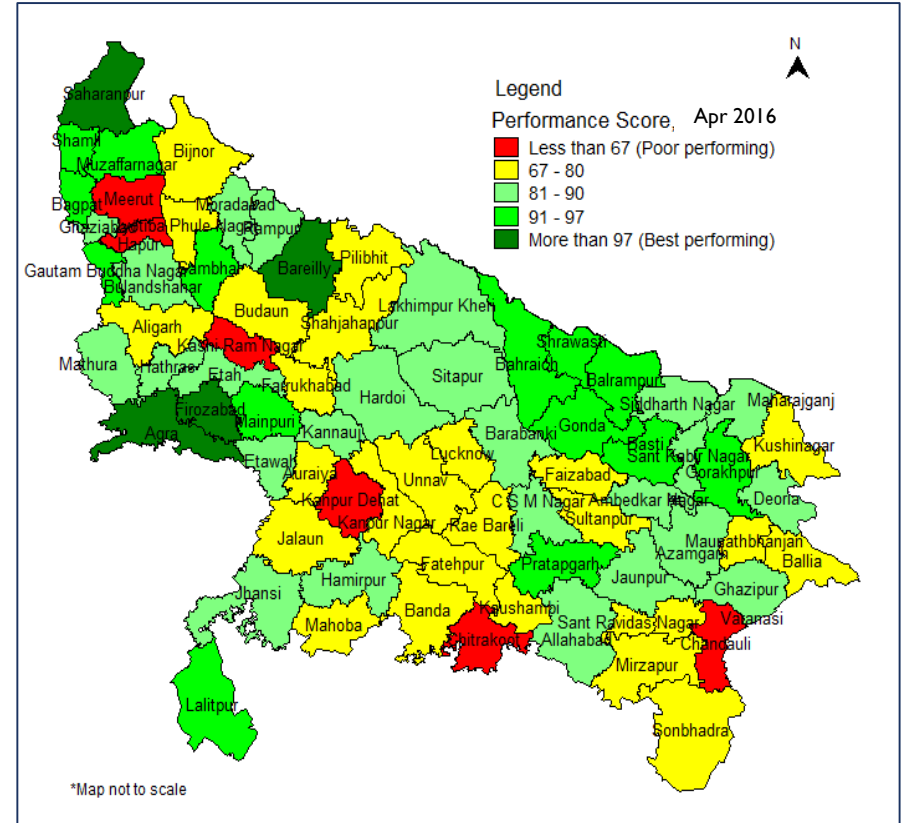
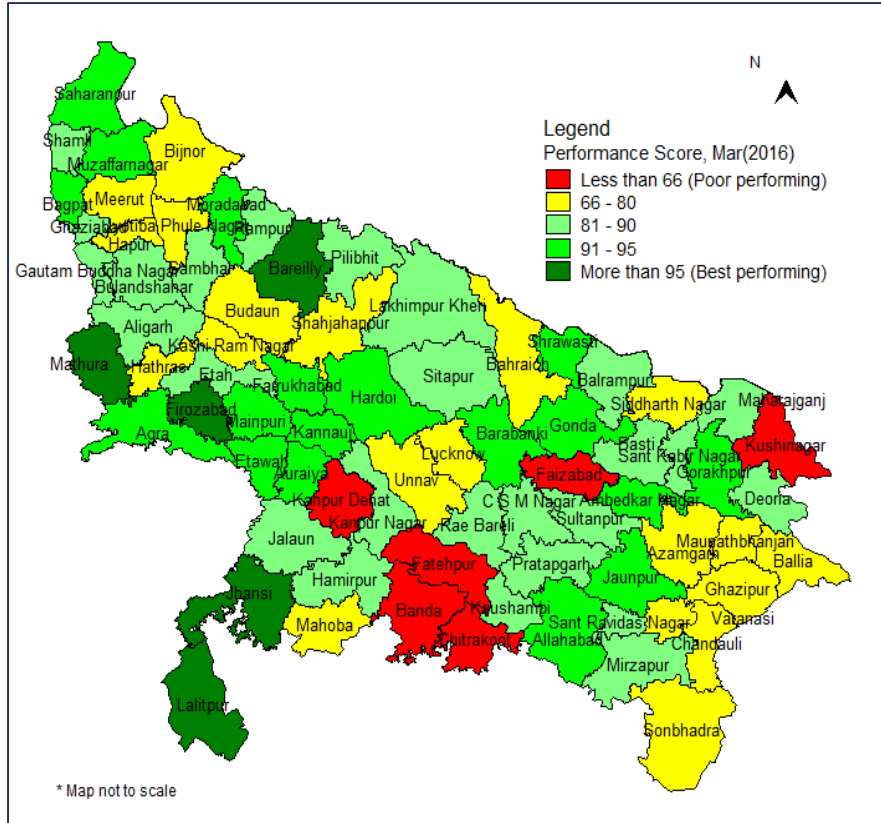
Bareilly (122), Bagpat (122), Kannauj (124), Moradabad (124),
Lalitpur (127), Shamli (129)

Bottom 5 performer :

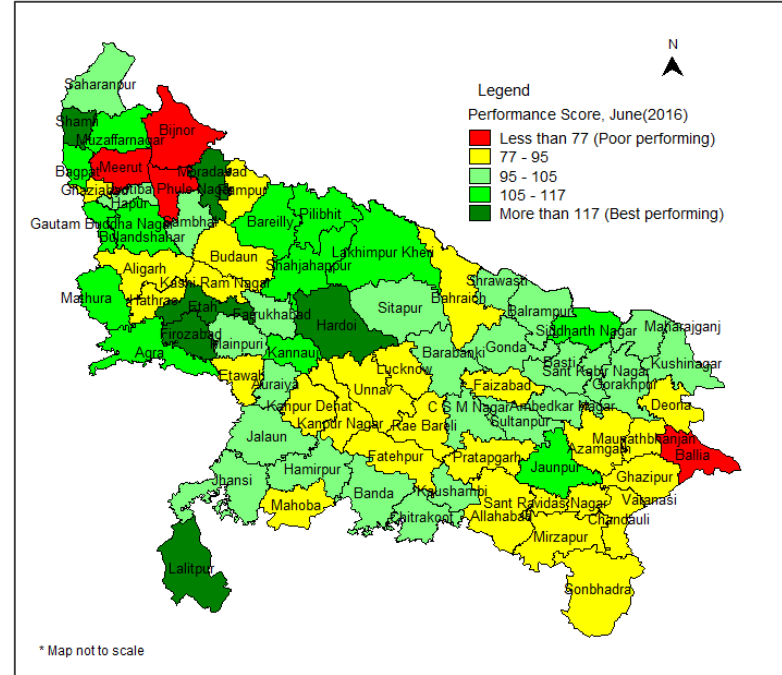
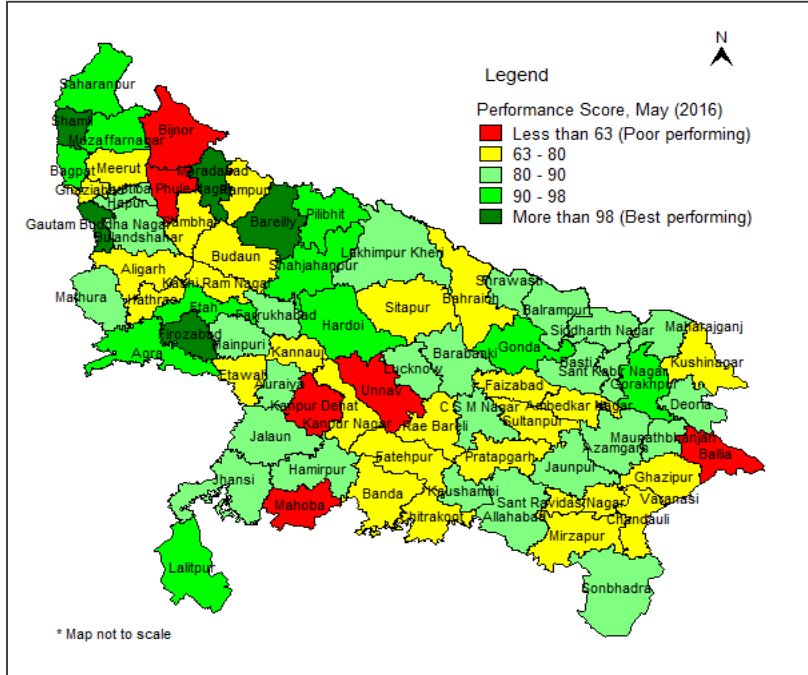
Kanpur Dehat (73), Faizabad (74), Bijnor (75)

*() indicates score obtained by the districts

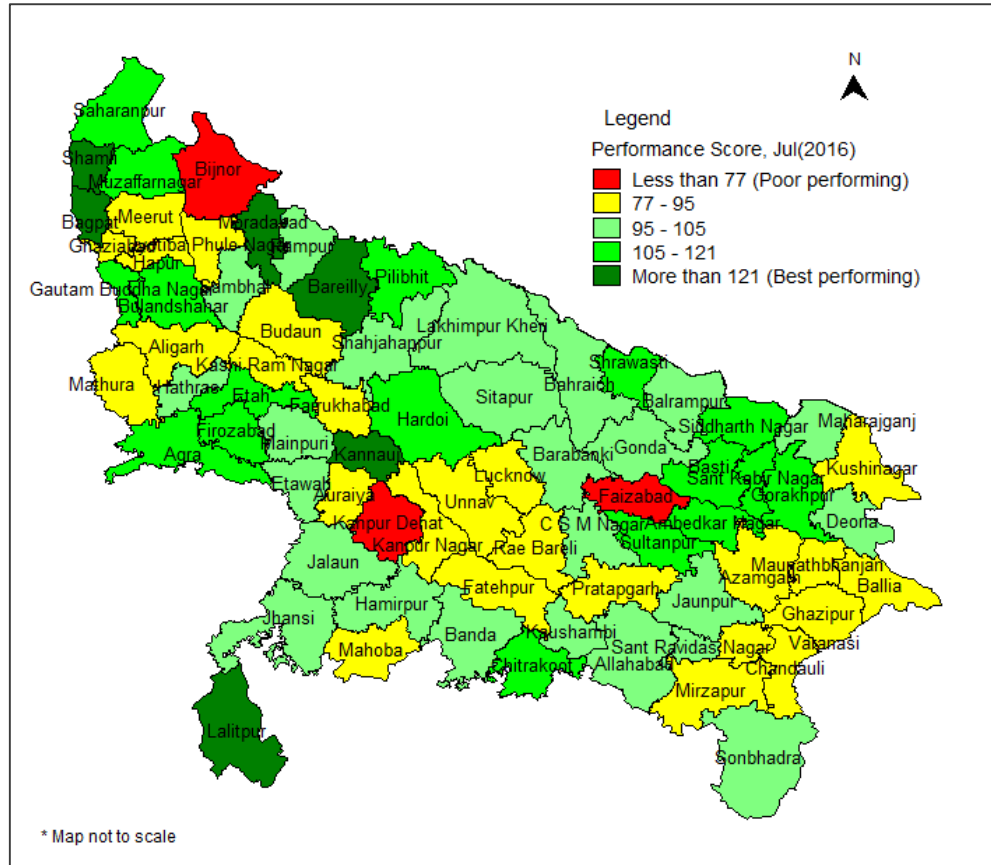
CLASSIFICATION OF DISTRICTS OF UTTAR PRADESH BASED ON PERFORMANCE SCORE



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COMPARATIVE PERFORMANCE RANKING

Category	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	June-16	July-16	Consistent
Top performing	Lalitpur(105), Maunathbhanjan (105), Hardoi (105), Barailly (106), Firozabad (109),	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)	Firozabad, Bareilly Etah
Poor Performing	Chandauli (55), Kushinagar (58), Kanpur Dehat (62), Baharaich (65), Kasganj (65)	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), 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)	Kanpur Dehat, Kushinagar, Chandauli, Banda, Kushinagar

THANK YOU

