



APPENDIX AVAILABLE ON THE HEI WEBSITE

Special Report 21

Burden of Disease Attributable to Major Air Pollution Sources in India

GBD MAPS Working Group

**Appendix C. Population-Weighted Percentage Contribution to Ambient
PM_{2.5} for Each Future Scenario by State and by Sector**

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Appendix Table C.1. Population-Weighted Percentage of Ambient PM_{2.5} (µg/m³) Attributable to Emissions of Coal and Other Sectors by State (2015)

	Coal Related						Noncoal Related				
	All Ambient PM _{2.5}	Total Coal	Industrial Coal	Powerplant Coal	Dust	AFCI Dust	Domestic Biomass	Open Burning	Transportation	Brick Production	Distributed Diesel
India-All	100.0	15.7	7.7	7.6	38.8	8.9	23.9	5.5	2.1	2.2	1.8
Andhra Pradesh-All	100.0	28.2	14.9	12.5	33.7	11.6	19.1	4.6	2.4	2.3	0.9
Arunachal Pradesh-All	100.0	8.6	5.1	4.4	37.0	4.1	22.5	3.2	2.6	2.0	1.2
Assam-All	100.0	9.3	5.8	4.1	28.2	5.0	29.8	2.8	3.1	2.0	1.2
Bihar-All	100.0	13.0	5.7	7.1	23.7	8.2	37.4	4.6	2.8	3.0	2.7
Chhattisgarh-All	100.0	31.1	12.8	16.9	40.8	14.4	18.7	2.4	1.5	1.4	1.2
Delhi-All	100.0	9.1	2.9	6.3	38.1	13.9	23.8	18.8	1.7	2.4	1.9
Goa-All	100.0	12.2	7.5	4.9	60.4	5.5	11.4	1.7	1.4	1.2	0.6
Gujarat-All	100.0	10.1	5.2	4.7	69.7	6.4	10.4	1.2	0.9	0.9	0.7
Haryana-All	100.0	8.3	2.9	5.6	43.6	12.1	20.6	17.9	1.4	2.1	1.9
Himachal Pradesh-All	100.0	6.8	4.3	2.6	47.7	7.4	24.3	7.8	1.9	1.7	1.5
Jammu & Kashmir-All	100.0	2.8	1.7	1.2	54.6	3.0	25.0	0.8	1.5	0.9	0.7
Jharkhand-All	100.0	26.2	8.2	15.9	26.9	10.4	28.6	2.9	2.4	2.2	1.7
Karnataka-All	100.0	18.9	12.2	6.7	41.7	7.8	18.8	4.7	2.7	2.1	1.1
Kerala-All	100.0	15.2	10.1	5.5	43.3	6.5	17.6	2.2	2.1	2.0	1.1
Madhya Pradesh-All	100.0	13.6	7.2	6.5	49.9	7.5	20.4	3.7	1.9	1.6	1.9
Maharashtra-All	100.0	16.1	8.4	7.7	53.5	7.8	15.5	2.1	1.8	1.8	0.9
Manipur-All	100.0	9.9	6.2	4.4	30.9	4.9	28.0	2.9	3.3	1.9	1.3
Meghalaya-All	100.0	11.0	6.7	4.7	25.6	5.4	31.7	2.8	3.3	2.2	1.5
Mizoram-All	100.0	10.2	5.6	5.4	33.6	4.5	22.3	2.6	2.4	2.0	1.2
Nagaland-All	100.0	10.0	6.8	3.9	29.7	5.3	30.4	2.9	3.5	1.8	1.2
Orissa-All	100.0	30.5	14.2	14.3	32.3	13.5	22.0	2.3	2.2	1.8	1.0
Punjab-All	100.0	4.7	2.1	2.8	46.4	8.7	18.6	17.2	1.4	1.8	2.0
Rajasthan-All	100.0	7.4	4.2	3.3	63.9	5.6	14.4	4.4	1.2	1.1	1.3
Sikkim-All	100.0	8.3	4.9	4.5	49.4	4.2	14.7	5.3	2.0	2.4	1.8
Tamil Nadu-All	100.0	23.7	14.2	8.2	28.0	10.3	22.4	3.7	2.7	2.8	1.1
Telangana-All	100.0	25.4	14.9	10.2	38.2	11.1	19.8	4.2	2.1	2.1	0.9
The Six Minor Territories-All	100.0	12.5	7.9	4.7	51.3	9.3	15.7	7.1	1.4	1.6	1.2
Tripura-All	100.0	10.8	6.0	5.5	28.2	4.7	22.3	2.8	2.2	2.0	1.3
Uttar Pradesh-All	100.0	10.0	4.8	5.2	30.1	9.7	31.6	10.9	2.2	2.8	3.6
Uttarakhand-All	100.0	6.2	3.5	2.8	43.4	7.6	24.9	9.5	1.6	2.5	2.1
W Bengal-All	100.0	22.6	6.9	14.1	22.8	10.1	31.4	3.3	2.3	2.4	1.3
India-Rural	100.0	15.5	7.6	7.5	38.7	8.8	24.2	5.5	2.1	2.1	1.8
Andhra Pradesh-Rural	100.0	28.1	14.8	12.5	33.9	11.5	19.1	4.6	2.4	2.3	0.9
Arunachal Pradesh-Rural	100.0	8.6	5.1	4.4	36.9	4.1	22.6	3.2	2.6	2.0	1.2
Assam-Rural	100.0	9.3	5.8	4.1	28.3	5.0	29.7	2.8	3.1	2.0	1.2
Bihar-Rural	100.0	13.0	5.7	7.2	23.7	8.2	37.4	4.6	2.8	3.0	2.7
Chhattisgarh-Rural	100.0	31.1	12.8	16.9	40.7	14.3	18.7	2.4	1.5	1.4	1.2
Delhi-Rural	100.0	9.1	2.9	6.2	37.8	14.0	23.7	19.5	1.7	2.4	1.9
Goa-Rural	100.0	12.3	7.5	5.0	60.3	5.5	11.5	1.7	1.4	1.2	0.6
Gujarat-Rural	100.0	10.1	5.2	4.7	70.2	6.4	10.1	1.2	0.9	0.9	0.7
Haryana-Rural	100.0	8.3	2.8	5.5	44.2	11.9	20.2	18.0	1.4	2.1	2.0
Himachal Pradesh-Rural	100.0	6.8	4.3	2.6	47.8	7.4	24.3	7.7	1.9	1.7	1.5
Jammu & Kashmir-Rural	100.0	2.9	1.7	1.3	54.7	3.0	24.2	0.9	1.5	0.9	0.8
Jharkhand-Rural	100.0	26.2	8.1	15.9	26.9	10.4	28.6	2.9	2.4	2.2	1.7
Karnataka-Rural	100.0	18.8	12.1	6.7	42.1	7.8	18.6	4.7	2.6	2.1	1.1
Kerala-Rural	100.0	15.4	10.3	5.5	42.4	6.7	18.2	2.2	2.1	2.1	1.1
Madhya Pradesh-Rural	100.0	13.7	7.2	6.5	49.8	7.6	20.5	3.7	1.9	1.6	1.9
Maharashtra-Rural	100.0	16.0	8.0	8.0	52.6	7.7	16.3	2.3	1.8	1.7	0.9
Manipur-Rural	100.0	9.9	6.2	4.4	31.0	4.9	27.9	2.9	3.3	1.9	1.3
Meghalaya-Rural	100.0	10.9	6.8	4.6	25.7	5.4	31.8	2.8	3.3	2.2	1.5
Mizoram-Rural	100.0	10.2	5.6	5.4	33.6	4.5	22.3	2.6	2.4	2.0	1.2
Nagaland-Rural	100.0	10.0	6.7	3.9	29.7	5.3	30.4	2.9	3.5	1.8	1.2
Orissa-Rural	100.0	30.4	14.2	14.3	32.3	13.4	22.1	2.3	2.1	1.8	1.0
Punjab-Rural	100.0	4.7	2.1	2.8	46.6	8.6	18.5	17.1	1.3	1.8	2.0
Rajasthan-Rural	100.0	7.4	4.2	3.3	64.1	5.6	14.3	4.4	1.2	1.0	1.3
Sikkim-Rural	100.0	8.3	4.9	4.5	49.4	4.2	14.7	5.3	2.0	2.4	1.8
Tamil Nadu-Rural	100.0	23.6	14.6	7.8	27.6	10.2	22.4	3.7	2.7	2.8	1.1
Telangana-Rural	100.0	25.6	14.5	10.7	38.5	11.2	19.6	4.1	2.0	2.0	0.9
The Six Minor Territories-Rural	100.0	15.0	9.9	5.2	54.6	7.3	11.3	0.9	1.2	1.4	0.6
Tripura-Rural	100.0	10.8	6.0	5.6	28.2	4.7	22.3	2.8	2.2	2.0	1.3
Uttar Pradesh-Rural	100.0	10.0	4.8	5.2	30.0	9.6	31.7	10.8	2.2	2.8	3.6
Uttarakhand-Rural	100.0	6.1	3.5	2.8	43.5	7.5	24.8	9.4	1.6	2.5	2.1
W Bengal-Rural	100.0	22.6	7.0	14.0	23.3	10.1	31.0	3.3	2.3	2.4	1.3
India-Urban	100.0	17.1	8.5	8.0	39.5	9.6	22.1	5.6	2.1	2.2	1.4
Andhra Pradesh-Urban	100.0	29.1	15.4	12.7	32.8	12.6	19.4	4.5	2.3	2.4	0.8
Arunachal Pradesh-Urban	100.0	8.9	5.3	4.6	39.9	3.8	18.1	3.7	2.3	2.1	1.4
Assam-Urban	100.0	9.5	6.1	3.9	26.3	5.1	31.6	2.8	3.1	2.0	1.3
Bihar-Urban	100.0	13.1	5.6	7.3	23.4	8.3	37.8	4.7	2.8	3.0	2.7
Chhattisgarh-Urban	100.0	31.5	13.5	16.6	41.1	14.6	18.7	2.3	1.4	1.4	1.1
Delhi-Urban	100.0	9.2	2.9	6.4	38.0	13.9	24.0	18.6	1.7	2.4	1.9
Goa-Urban	100.0	12.2	7.5	4.9	60.7	5.5	11.2	1.6	1.4	1.2	0.6
Gujarat-Urban	100.0	9.7	4.9	4.6	67.7	6.1	11.5	1.2	1.1	1.0	0.7
Haryana-Urban	100.0	9.0	3.0	6.1	40.3	12.9	23.5	16.7	1.7	2.3	1.9
Himachal Pradesh-Urban	100.0	8.1	5.4	2.9	48.5	8.3	23.6	7.3	1.8	1.7	1.5
Jammu & Kashmir-Urban	100.0	2.6	1.6	1.1	55.8	2.7	24.4	0.6	1.4	0.8	0.7
Jharkhand-Urban	100.0	28.2	8.8	16.6	26.4	10.7	27.6	2.7	2.3	2.0	1.5
Karnataka-Urban	100.0	19.8	13.0	6.8	37.4	8.4	20.0	4.7	3.1	2.7	1.2
Kerala-Urban	100.0	14.8	9.7	5.6	45.1	6.2	16.4	2.1	2.0	2.0	1.0
Madhya Pradesh-Urban	100.0	12.8	6.7	6.2	51.4	7.1	20.0	3.4	1.8	1.5	1.8
Maharashtra-Urban	100.0	16.4	10.1	6.3	57.5	8.0	12.3	1.4	1.7	1.9	0.8
Manipur-Urban	100.0	9.8	6.2	4.3	30.5	4.9	28.7	3.0	3.4	1.9	1.3
Meghalaya-Urban	100.0	11.4	7.4	4.5	25.6	5.5	32.1	2.6	3.5	2.1	1.5
Mizoram-Urban	100.0	10.0	5.8	4.9	29.5	4.8	24.4	2.8	2.8	2.0	1.3
Nagaland-Urban	100.0	10.4	7.0	4.0	29.8	5.3	29.4	2.9	3.6	1.8	1.3
Orissa-Urban	100.0	31.2	14.0	14.8	31.1	14.6	23.0	2.1	2.3	1.7	1.0
Punjab-Urban	100.0	5.2	2.4	2.9	45.6	9.0	19.4	17.0	1.4	1.8	2.0
Rajasthan-Urban	100.0	7.5	4.3	3.4	60.8	5.8	16.6	4.7	1.4	1.1	1.5

Sikkim-Urban	100.0	8.4	5.0	4.5	48.1	4.3	15.5	5.3	2.0	2.4	1.8
Tamil Nadu-Urban	100.0	24.1	13.1	9.3	29.6	10.5	22.3	3.6	2.5	2.6	0.9
Telangana-Urban	100.0	25.1	16.3		8.8	11.1	20.4	4.4	2.3	2.2	0.9
The Six Minor Territories-Urban	100.0	15.3	8.6	6.4	38.6	12.4	22.1	10.3	2.0	2.2	1.5
Tripura-Urban	100.0	10.8	5.9	5.6	28.6	4.7	22.0	2.8	2.1	2.0	1.3
Uttar Pradesh-Urban	100.0	10.1	4.6	5.5	31.1	10.6	30.9	12.1	2.3	2.7	3.3
Uttarakhand-Urban	100.0	6.5	3.7	2.9	41.6	8.1	26.0	9.6	1.7	2.7	2.1
W Bengal-Urban	100.0	22.6	6.6	14.2	20.8	10.4	33.0	3.1	2.3	2.6	1.2

Appendix Table C.2. Mean Population-Weighted Ambient PM_{2.5} in India and States for the REF Scenario (2030)

	Year	All Ambient PM _{2.5}
Andhra Pradesh-All	2030	60.1
Arunachal Pradesh-All	2030	30.2
Assam-All	2030	59.4
Bihar-All	2030	139.6
Chhattisgarh-All	2030	68.4
Delhi-All	2030	143.4
Goa-All	2030	35.0
Gujarat-All	2030	60.5
Haryana-All	2030	106.2
Himachal Pradesh-All	2030	54.6
India-All	2030	85.2
Jammu & Kashmir-All	2030	52.5
Jharkhand-All	2030	90.6
Karnataka-All	2030	40.2
Kerala-All	2030	36.8
Madhya Pradesh-All	2030	65.5
Maharashtra-All	2030	55.8
Manipur-All	2030	34.3
Meghalaya-All	2030	53.6
Mizoram-All	2030	31.7
Nagaland-All	2030	36.6
Orissa-All	2030	74.5
Punjab-All	2030	98.4
Rajasthan-All	2030	64.3
Sikkim-All	2030	40.8
Tamil Nadu-All	2030	49.6
Telangana-All	2030	58.0
The Six Minor Territories-All	2030	58.0
Tripura-All	2030	54.6
Uttar Pradesh-All	2030	131.8
Uttarakhand-All	2030	58.9
W Bengal-All	2030	111.2
Andhra Pradesh-Rural	2030	59.2
Arunachal Pradesh-Rural	2030	30.4
Assam-Rural	2030	59.3
Bihar-Rural	2030	139.6
Chhattisgarh-Rural	2030	67.6
Delhi-Rural	2030	128.1
Goa-Rural	2030	33.1
Gujarat-Rural	2030	59.4

Haryana-Rural	2030	105.3
Himachal Pradesh-Rural	2030	54.4
India-Rural	2030	85.2
Jammu & Kashmir-Rural	2030	53.5
Jharkhand-Rural	2030	90.1
Karnataka-Rural	2030	39.6
Kerala-Rural	2030	36.7
Madhya Pradesh-Rural	2030	65.3
Maharashtra-Rural	2030	53.8
Manipur-Rural	2030	34.0
Meghalaya-Rural	2030	52.6
Mizoram-Rural	2030	31.7
Nagaland-Rural	2030	36.3
Orissa-Rural	2030	74.3
Punjab-Rural	2030	98.3
Rajasthan-Rural	2030	63.8
Sikkim-Rural	2030	40.9
Tamil Nadu-Rural	2030	49.1
Telangana-Rural	2030	58.0
The Six Minor Territories-Rural	2030	40.5
Tripura-Rural	2030	54.1
Uttar Pradesh-Rural	2030	131.4
Uttarakhand-Rural	2030	58.0
W Bengal-Rural	2030	109.0
Andhra Pradesh-Urban	2030	67.2
Arunachal Pradesh-Urban	2030	33.1
Assam-Urban	2030	67.4
Bihar-Urban	2030	139.3
Chhattisgarh-Urban	2030	81.4
Delhi-Urban	2030	146.7
Goa-Urban	2030	37.7
Gujarat-Urban	2030	65.8
Haryana-Urban	2030	110.7
Himachal Pradesh-Urban	2030	48.6
India-Urban	2030	84.7
Jammu & Kashmir-Urban	2030	61.3
Jharkhand-Urban	2030	95.4
Karnataka-Urban	2030	46.5
Kerala-Urban	2030	36.9
Madhya Pradesh-Urban	2030	71.6
Maharashtra-Urban	2030	64.3
Manipur-Urban	2030	37.6
Meghalaya-Urban	2030	52.1

Mizoram-Urban	2030	43.2
Nagaland-Urban	2030	38.7
Orissa-Urban	2030	81.9
Punjab-Urban	2030	98.5
Rajasthan-Urban	2030	70.3
Sikkim-Urban	2030	45.6
Tamil Nadu-Urban	2030	50.5
Telangana-Urban	2030	58.1
The Six Minor Territories-Urban	2030	73.2
Tripura-Urban	2030	53.5
Uttar Pradesh-Urban	2030	138.2
Uttarakhand-Urban	2030	79.2
W Bengal-Urban	2030	119.2

Appendix Table C.3. Mean Population-Weighted Ambient PM_{2.5} for India and States for Scenario S2 (2030)

	Year	All Ambient PM _{2.5}
Andhra Pradesh-All	2030	51.5
Arunachal Pradesh-All	2030	27.1
Assam-All	2030	52.5
Bihar-All	2030	120.6
Chhattisgarh-All	2030	58.0
Delhi-All	2030	127.0
Goa-All	2030	32.5
Gujarat-All	2030	56.5
Haryana-All	2030	95.9
Himachal Pradesh-All	2030	49.6
India-All	2030	74.9
Jammu & Kashmir-All	2030	48.6
Jharkhand-All	2030	77.5
Karnataka-All	2030	35.9
Kerala-All	2030	33.0
Madhya Pradesh-All	2030	58.8
Maharashtra-All	2030	50.4
Manipur-All	2030	30.6
Meghalaya-All	2030	46.9
Mizoram-All	2030	28.4
Nagaland-All	2030	32.5
Orissa-All	2030	63.9
Punjab-All	2030	90.7
Rajasthan-All	2030	60.0
Sikkim-All	2030	37.1
Tamil Nadu-All	2030	43.4
Telangana-All	2030	50.5
The Six Minor Territories-All	2030	53.0
Tripura-All	2030	48.6
Uttar Pradesh-All	2030	114.8
Uttarakhand-All	2030	52.6
W Bengal-All	2030	94.6
Andhra Pradesh-Rural	2030	50.8
Arunachal Pradesh-Rural	2030	27.2
Assam-Rural	2030	52.4
Bihar-Rural	2030	120.5
Chhattisgarh-Rural	2030	57.3
Delhi-Rural	2030	113.5
Goa-Rural	2030	30.7
Gujarat-Rural	2030	55.6

Haryana-Rural	2030	95.3
Himachal Pradesh-Rural	2030	49.4
India-Rural	2030	74.8
Jammu & Kashmir-Rural	2030	49.6
Jharkhand-Rural	2030	77.1
Karnataka-Rural	2030	35.4
Kerala-Rural	2030	32.9
Madhya Pradesh-Rural	2030	58.6
Maharashtra-Rural	2030	48.4
Manipur-Rural	2030	30.4
Meghalaya-Rural	2030	46.0
Mizoram-Rural	2030	28.4
Nagaland-Rural	2030	32.3
Orissa-Rural	2030	63.7
Punjab-Rural	2030	90.7
Rajasthan-Rural	2030	59.6
Sikkim-Rural	2030	37.2
Tamil Nadu-Rural	2030	43.0
Telangana-Rural	2030	50.4
The Six Minor Territories-Rural	2030	37.5
Tripura-Rural	2030	48.1
Uttar Pradesh-Rural	2030	114.4
Uttarakhand-Rural	2030	51.8
W Bengal-Rural	2030	92.8
Andhra Pradesh-Urban	2030	57.3
Arunachal Pradesh-Urban	2030	29.9
Assam-Urban	2030	59.4
Bihar-Urban	2030	120.3
Chhattisgarh-Urban	2030	69.7
Delhi-Urban	2030	129.8
Goa-Urban	2030	35.0
Gujarat-Urban	2030	61.3
Haryana-Urban	2030	98.2
Himachal Pradesh-Urban	2030	43.9
India-Urban	2030	74.6
Jammu & Kashmir-Urban	2030	56.9
Jharkhand-Urban	2030	82.1
Karnataka-Urban	2030	41.2
Kerala-Urban	2030	33.2
Madhya Pradesh-Urban	2030	64.4
Maharashtra-Urban	2030	59.0
Manipur-Urban	2030	33.5
Meghalaya-Urban	2030	45.6

Mizoram-Urban	2030	38.5
Nagaland-Urban	2030	34.4
Orissa-Urban	2030	70.1
Punjab-Urban	2030	90.6
Rajasthan-Urban	2030	65.3
Sikkim-Urban	2030	41.4
Tamil Nadu-Urban	2030	44.2
Telangana-Urban	2030	51.0
The Six Minor Territories-Urban	2030	64.8
Tripura-Urban	2030	47.6
Uttar Pradesh-Urban	2030	120.3
Uttarakhand-Urban	2030	70.6
W Bengal-Urban	2030	101.3

Appendix Table C.4. Mean Population-Weighted Ambient PM_{2.5} for India and States for Scenario S3 (2030)

	Year	All Ambient PM _{2.5}
Andhra Pradesh-All	2030	32.8
Arunachal Pradesh-All	2030	20.5
Assam-All	2030	37.6
Bihar-All	2030	75.9
Chhattisgarh-All	2030	35.7
Delhi-All	2030	87.4
Goa-All	2030	26.6
Gujarat-All	2030	47.3
Haryana-All	2030	69.1
Himachal Pradesh-All	2030	36.7
India-All	2030	51.1
Jammu & Kashmir-All	2030	39.9
Jharkhand-All	2030	48.0
Karnataka-All	2030	25.9
Kerala-All	2030	24.5
Madhya Pradesh-All	2030	43.5
Maharashtra-All	2030	38.6
Manipur-All	2030	22.7
Meghalaya-All	2030	32.7
Mizoram-All	2030	21.5
Nagaland-All	2030	23.4
Orissa-All	2030	39.6
Punjab-All	2030	69.4
Rajasthan-All	2030	49.5
Sikkim-All	2030	29.5
Tamil Nadu-All	2030	28.8
Telangana-All	2030	33.5
The Six Minor Territories-All	2030	39.5
Tripura-All	2030	36.7
Uttar Pradesh-All	2030	75.5
Uttarakhand-All	2030	37.3
W Bengal-All	2030	57.7
Andhra Pradesh-Rural	2030	32.4
Arunachal Pradesh-Rural	2030	20.6
Assam-Rural	2030	37.5
Bihar-Rural	2030	75.8
Chhattisgarh-Rural	2030	35.3
Delhi-Rural	2030	78.1
Goa-Rural	2030	25.1
Gujarat-Rural	2030	46.6

Haryana-Rural	2030	69.0
Himachal Pradesh-Rural	2030	36.5
India-Rural	2030	51.0
Jammu & Kashmir-Rural	2030	40.9
Jharkhand-Rural	2030	47.8
Karnataka-Rural	2030	25.6
Kerala-Rural	2030	24.2
Madhya Pradesh-Rural	2030	43.3
Maharashtra-Rural	2030	36.7
Manipur-Rural	2030	22.5
Meghalaya-Rural	2030	32.1
Mizoram-Rural	2030	21.5
Nagaland-Rural	2030	23.3
Orissa-Rural	2030	39.5
Punjab-Rural	2030	69.5
Rajasthan-Rural	2030	49.3
Sikkim-Rural	2030	29.5
Tamil Nadu-Rural	2030	28.6
Telangana-Rural	2030	33.3
The Six Minor Territories-Rural	2030	29.8
Tripura-Rural	2030	36.3
Uttar Pradesh-Rural	2030	75.3
Uttarakhand-Rural	2030	36.8
W Bengal-Rural	2030	56.6
Andhra Pradesh-Urban	2030	35.7
Arunachal Pradesh-Urban	2030	23.3
Assam-Urban	2030	42.0
Bihar-Urban	2030	75.6
Chhattisgarh-Urban	2030	43.2
Delhi-Urban	2030	89.2
Goa-Urban	2030	28.7
Gujarat-Urban	2030	51.0
Haryana-Urban	2030	68.4
Himachal Pradesh-Urban	2030	32.0
India-Urban	2030	51.3
Jammu & Kashmir-Urban	2030	46.8
Jharkhand-Urban	2030	51.4
Karnataka-Urban	2030	29.1
Kerala-Urban	2030	24.9
Madhya Pradesh-Urban	2030	48.4
Maharashtra-Urban	2030	46.7
Manipur-Urban	2030	24.8
Meghalaya-Urban	2030	31.9

Mizoram-Urban	2030	28.8
Nagaland-Urban	2030	25.0
Orissa-Urban	2030	43.0
Punjab-Urban	2030	68.6
Rajasthan-Urban	2030	53.1
Sikkim-Urban	2030	32.6
Tamil Nadu-Urban	2030	29.2
Telangana-Urban	2030	34.2
The Six Minor Territories-Urban	2030	44.1
Tripura-Urban	2030	36.1
Uttar Pradesh-Urban	2030	79.2
Uttarakhand-Urban	2030	50.2
W Bengal-Urban	2030	61.2

Appendix Table C.5. Population-Weighted Percentage of Ambient PM_{2.5} (µg/m³) Attributable to Emissions of Coal and Other Sectors by State (2050) (REF)

	All Ambient PM _{2.5} (mean)	Coal Related					Noncoal Related				
		Total Coal	Industrial Coal	Powerplant Coal	Dust AFCl	Dust Domestic Biomass	Open Burning	Transportation	Brick Production	Distributed Diesel	
India-All	106.3	36	10.5	22.6	41	19.6	13.9	4.6	0.9	2.3	0.7
Andhra Pradesh-All	85.1	56.1	14.6	36.5	37.8	25.8	10.0	2.7	0.6	1.8	0.1
Arunachal Pradesh-All	35.7	28.9	8.1	19.4	32.5	7.8	12.7	2.0	2.3	2.1	0.3
Assam-All	70.5	30.3	10.0	19.0	26.8	9.4	16.8	1.9	3.4	2.3	0.6
Bihar-All	165.7	31.4	9.7	18.4	27.3	15.7	22.3	3.6	1.5	3.2	0.9
Chhattisgarh-All	104.3	61.6	12.3	44.8	51.7	37.8	8.7	1.3	0.2	1.2	0.2
Delhi-All	181.3	28.6	7.0	21.0	45.5	27.0	12.0	17.0	0.9	2.7	1.4
Goa-All	40.8	29.3	11.8	15.2	53.4	12.0	9.1	1.2	0.8	1.4	0.2
Gujarat-All	70.6	25.6	8.6	15.8	68.7	17.6	7.8	1.0	0.4	1.1	0.4
Haryana-All	130.0	24.6	6.0	17.9	46.6	21.8	11.8	16.7	0.8	2.5	1.4
Himachal Pradesh-All	63.8	22.5	8.5	12.8	48.1	14.6	13.6	7.4	1.7	2.7	1.1
Jammu & Kashmir-All	56.1	12.3	5.0	6.9	54.2	5.6	15.4	0.8	2.2	1.9	0.8
Jharkhand-All	118.5	48.2	10.0	32.1	35.2	24.7	15.8	1.9	1.0	2.1	0.4
Karnataka-All	49.7	39.4	15.4	20.5	38.0	14.9	12.1	3.4	1.4	2.1	0.4
Kerala-All	45.1	36.8	14.7	19.9	36.7	11.7	13.4	1.3	1.2	2.2	0.3
Madhya Pradesh-All	80.7	34.3	9.9	21.8	49.0	18.4	12.1	3.0	0.9	1.9	0.8
Maharashtra-All	68.5	35.8	11.5	21.6	50.7	17.8	10.3	1.5	0.5	1.9	0.2
Manipur-All	41.1	32.3	11.1	20.2	28.9	9.4	14.6	1.9	3.1	2.1	0.5
Meghalaya-All	65.4	35.1	11.4	21.9	24.7	10.4	17.0	1.8	3.4	2.5	0.8
Mizoram-All	39.5	34.7	8.9	25.2	29.6	9.4	12.3	1.5	2.1	2.1	0.4
Nagaland-All	43.2	30.6	11.5	18.1	28.2	9.7	16.8	2.0	3.9	2.1	0.6
Orissa-All	106.6	57.5	14.9	36.9	39.1	28.7	11.1	1.3	0.5	1.6	0.1
Punjab-All	114.3	17.4	4.5	12.4	47.8	15.4	11.6	16.9	0.9	2.3	1.5
Rajasthan-All	73.4	21.1	7.7	12.7	61.7	13.4	9.6	4.1	0.8	1.3	1.0
Sikkim-All	48.4	26.8	7.7	17.8	41.9	7.8	7.9	3.6	0.8	2.4	0.5
Tamil Nadu-All	63.4	44.2	16.2	23.1	32.3	21.1	15.0	2.4	0.5	2.9	0.2
Telangana-All	79.8	52.5	15.3	32.8	41.3	25.3	10.4	2.6	0.4	1.7	0.1
The Six Minor Territories-All	71.6	31.6	12.4	18.1	51.3	19.8	9.7	6.4	0.7	1.9	0.6
Tripura-All	69.2	36.4	9.7	25.6	25.5	9.6	12.0	1.8	2.1	2.2	0.7
Uttar Pradesh-All	162.2	29.7	8.4	19.3	35.6	20.2	17.3	9.8	0.9	3.2	1.6
Uttarakhand-All	70.1	22.7	7.3	14.2	43.5	14.5	13.9	9.0	1.3	3.4	1.8
W Bengal-All	148.6	47.1	8.4	33.4	35.4	27.3	16.4	2.1	0.7	2.2	0.3
India-Rural	85.2	35.7	10.3	22.5	41.3	19.3	14.1	4.6	1.0	2.3	0.7
Andhra Pradesh-Rural	83.5	55.9	14.6	36.2	37.7	25.4	10.0	2.7	0.6	1.8	0.1
Arunachal Pradesh-Rural	35.9	28.9	8.1	19.4	32.4	7.8	12.7	2.0	2.3	2.1	0.3
Assam-Rural	70.3	30.3	9.9	19.0	26.8	9.4	16.7	1.9	3.4	2.3	0.6
Bihar-Rural	165.7	31.4	9.7	18.4	27.3	15.7	22.3	3.6	1.5	3.2	0.9
Chhattisgarh-Rural	103.2	61.6	12.2	44.8	51.6	37.8	8.7	1.3	0.2	1.2	0.2
Delhi-Rural	161.9	28.4	7.0	20.8	45.2	26.9	11.9	17.6	0.9	2.7	1.4
Goa-Rural	38.6	29.3	11.8	15.2	53.2	12.0	9.1	1.3	0.8	1.4	0.2
Gujarat-Rural	69.4	25.6	8.7	15.7	69.1	17.6	7.6	1.0	0.3	1.1	0.4
Haryana-Rural	128.3	24.1	5.9	17.5	46.6	21.2	11.7	16.9	0.8	2.4	1.5
Himachal Pradesh-Rural	63.7	22.7	8.5	12.9	48.2	14.7	13.6	7.4	1.7	2.7	1.1
Jammu & Kashmir-Rural	57.3	12.5	5.0	7.2	53.9	5.6	14.9	0.9	2.1	1.9	0.8
Jharkhand-Rural	118.0	48.2	9.9	32.2	35.2	24.7	15.8	1.9	1.0	2.1	0.4
Karnataka-Rural	49.0	39.3	15.3	20.5	38.4	14.9	12.1	3.4	1.4	2.1	0.4
Kerala-Rural	44.9	36.6	14.9	19.4	36.2	11.9	13.9	1.4	1.2	2.3	0.3
Madhya Pradesh-Rural	80.5	34.4	9.9	21.8	49.0	18.4	12.1	3.0	0.9	1.9	0.8
Maharashtra-Rural	66.3	36.0	10.8	22.3	49.8	17.6	10.7	1.7	0.6	1.9	0.3
Manipur-Rural	40.8	32.3	11.1	20.2	29.0	9.4	14.6	1.9	3.1	2.1	0.5
Meghalaya-Rural	64.1	35.0	11.6	21.7	24.7	10.3	17.0	1.8	3.5	2.5	0.8
Mizoram-Rural	39.5	34.7	8.9	25.2	29.6	9.4	12.3	1.5	2.1	2.1	0.4
Nagaland-Rural	42.9	30.6	11.4	18.2	28.2	9.7	16.8	2.0	3.9	2.1	0.6
Orissa-Rural	106.1	57.4	14.9	36.9	39.0	28.5	11.1	1.3	0.5	1.6	0.1
Punjab-Rural	114.1	17.3	4.5	12.3	46.9	15.2	11.5	16.7	0.9	2.3	1.5
Rajasthan-Rural	72.9	21.1	7.7	12.6	61.9	13.4	9.5	4.1	0.8	1.3	0.9
Sikkim-Rural	48.6	26.8	7.7	17.8	41.9	7.8	7.9	3.6	0.8	2.4	0.5
Tamil Nadu-Rural	62.7	44.1	16.5	22.6	32.0	20.9	15.0	2.4	0.5	2.9	0.2
Telangana-Rural	80.5	53.1	14.7	33.8	41.9	25.9	10.3	2.5	0.4	1.6	0.1
The Six Minor Territories-Rural	49.6	35.5	14.7	19.5	51.0	17.1	8.0	0.6	0.4	1.6	0.2
Tripura-Rural	68.5	36.5	9.7	25.7	25.5	9.6	12.0	1.8	2.1	2.2	0.7
Uttar Pradesh-Rural	161.4	29.7	8.4	19.2	35.4	20.0	17.3	9.8	0.9	3.2	1.6
Uttarakhand-Rural	69.0	22.6	7.3	14.2	43.6	14.4	13.9	8.9	1.3	3.4	1.8
W Bengal-Rural	146.2	47.1	8.5	33.4	35.8	27.2	16.1	2.1	0.8	2.2	0.3
India-Urban	84.7	38.0	11.4	23.5	42.6	21.1	13.0	4.5	0.8	2.2	0.5
Andhra Pradesh-Urban	97.5	58.2	14.6	38.7	39.2	28.6	9.6	2.6	0.5	1.7	0.1
Arunachal Pradesh-Urban	39.4	29.4	8.3	19.6	33.8	7.3	9.8	2.4	1.5	2.2	0.3
Assam-Urban	80.2	31.0	10.8	18.8	25.5	9.6	17.6	1.9	3.4	2.4	0.6
Bihar-Urban	164.5	30.6	9.6	17.7	26.8	15.4	22.8	3.7	1.5	3.2	0.9
Chhattisgarh-Urban	122.3	61.5	13.2	43.4	52.2	38.1	8.7	1.2	0.2	1.1	0.2
Delhi-Urban	185.7	28.9	7.0	21.2	45.7	27.2	12.0	16.8	0.9	2.7	1.4
Goa-Urban	44.0	29.2	11.8	15.1	53.7	12.0	9.9	1.2	0.8	1.4	0.2
Gujarat-Urban	76.5	25.2	8.1	15.7	67.1	17.5	8.6	1.1	0.4	1.3	0.4
Haryana-Urban	139.3	28.1	6.8	20.6	46.8	25.6	12.2	15.1	0.9	2.7	1.4
Himachal Pradesh-Urban	58.6	25.7	10.0	14.2	49.4	17.0	12.9	6.7	1.6	2.6	1.0
Jammu & Kashmir-Urban	65.2	11.4	4.7	6.4	55.2	5.1	15.4	0.6	2.1	1.8	0.8
Jharkhand-Urban	124.0	48.8	10.7	31.0	34.6	24.4	15.4	1.8	0.9	2.0	0.3
Karnataka-Urban	57.8	40.7	16.1	20.6	34.3	14.7	12.4	3.2	1.4	2.6	0.3
Kerala-Urban	45.5	37.0	14.3	20.7	37.7	11.4	12.6	1.3	1.2	2.0	0.3
Madhya Pradesh-Urban	87.2	33.1	9.4	21.0	50.1	17.5	12.0	2.8	0.8	1.8	0.8
Maharashtra-Urban	78.1	35.2	14.3	18.6	54.6	18.4	8.5	0.9	0.4	1.9	0.2
Manipur-Urban	45.0	32.2	11.3	19.9	28.8	9.4	14.9	2.0	3.1	2.1	0.5

Meghalaya-Urban	63.8	35.9	12.7	21.5	24.7	10.3	16.7	1.7	3.6	2.4	0.8
Mizoram-Urban	53.5	34.1	9.9	23.6	26.8	9.5	13.3	1.8	2.9	2.2	0.6
Nagaland-Urban	45.9	31.6	12.0	18.6	28.2	9.8	16.0	2.0	3.9	2.1	0.6
Orissa-Urban	116.9	57.1	15.2	35.9	39.0	29.9	11.6	1.2	0.5	1.6	0.1
Punjab-Urban	115.1	18.4	4.9	12.9	46.3	16.1	11.9	16.6	0.9	2.3	1.5
Rajasthan-Urban	80.3	21.7	8.1	12.9	58.7	13.6	10.8	4.4	1.0	1.4	1.1
Sikkim-Urban	54.2	27.0	7.8	17.8	41.0	8.0	8.4	3.6	0.8	2.4	0.5
Tamil Nadu-Urban	64.8	44.4	15.3	24.3	33.4	21.2	15.1	2.4	0.5	2.8	0.2
Telangana-Urban	77.9	51.0	17.0	29.6	39.3	23.5	10.9	2.8	0.4	1.7	0.1
The Six Minor Territories-Urban	95.3	37.9	11.9	24.0	46.2	27.8	12.5	9.0	0.7	2.4	0.8
Tripura-Urban	67.8	36.4	9.6	25.9	25.8	9.6	11.9	1.7	2.0	2.2	0.6
Uttar Pradesh-Urban	172.0	30.6	8.3	20.4	37.7	22.3	16.5	10.8	0.9	3.0	1.4
Uttarakhand-Urban	94.3	23.5	7.6	14.6	42.5	15.5	14.6	9.1	1.3	3.6	1.7
W Bengal-Urban	157.3	47.1	8.1	33.5	34.2	27.6	17.2	2.0	0.5	2.3	0.2

Appendix Table C.6. Population-Weighted Percentage of Ambient PM_{2.5} (µg/m³) Attributable to Emissions of Coal and Other Sectors by State (2050) (S2)

	All Ambient PM _{2.5} (mean)	Coal Related				Noncoal Related					
		Total Coal	Industrial Coal	Powerplant Coal	Dust	AFCI Dust	Domestic Biomass	Open Burning	Transportation	Brick Production	Distributed Diesel
India-All	81.6	28.8	13.6	12.9	42	15.1	11	5.8	1.6	1.8	1
Andhra Pradesh-All	61.2	47.6	21.3	22.2	37.1	20.6	8.3	3.8	1.3	1.5	0.3
Arunachal Pradesh-All	28.6	20.1	10.0	9.4	36.9	6.4	9.9	2.6	2.3	1.6	0.4
Assam-All	55.3	22.4	12.3	9.4	30.0	7.9	13.3	2.5	3.6	1.8	0.6
Bihar-All	126.8	25.7	12.2	11.1	27.1	12.1	17.9	4.7	2.8	2.5	1.3
Chhattisgarh-All	70.8	51.5	18.4	28.6	48.2	28.4	7.4	1.8	0.7	1.0	0.4
Delhi-All	138.5	18.0	6.8	10.7	43.8	20.3	9.5	21.7	0.9	1.9	1.8
Goa-All	34.9	22.8	13.9	7.6	58.0	9.6	6.5	1.5	1.0	1.0	0.3
Gujarat-All	60.1	18.4	9.8	7.8	71.2	12.5	5.7	1.2	0.5	0.8	0.4
Haryana-All	104.3	15.6	6.5	8.9	47.0	16.8	9.0	20.6	1.0	1.7	1.8
Himachal Pradesh-All	53.0	16.5	9.9	5.9	52.1	12.4	10.1	9.0	2.0	1.8	1.3
Jammu & Kashmir-All	48.6	8.1	5.0	3.0	59.9	4.5	11.0	1.0	2.4	1.2	0.8
Jharkhand-All	86.6	41.0	14.4	21.0	31.9	17.8	12.9	2.6	2.4	1.8	0.8
Karnataka-All	39.9	33.6	20.2	11.4	41.1	12.5	9.4	4.3	2.1	1.7	0.6
Kerala-All	36.1	29.7	18.1	10.1	40.8	9.7	10.7	1.7	1.7	1.7	0.5
Madhya Pradesh-All	64.3	26.5	12.8	12.0	51.9	14.0	9.2	3.7	1.6	1.4	1.2
Maharashtra-All	55.1	28.1	14.4	11.9	53.8	13.3	7.8	1.9	1.0	1.4	0.4
Manipur-All	32.4	23.6	13.2	9.8	32.5	7.7	11.7	2.5	3.3	1.5	0.5
Meghalaya-All	50.1	26.8	14.4	11.5	27.0	8.4	13.9	2.5	3.9	1.9	0.9
Mizoram-All	30.5	23.3	10.7	12.1	33.7	7.5	10.1	2.0	2.2	1.5	0.4
Nagaland-All	34.2	23.2	13.6	8.7	31.8	8.4	13.3	2.6	3.9	1.5	0.6
Orissa-All	76.5	49.7	22.3	22.8	38.0	23.6	9.1	1.8	1.5	1.4	0.4
Punjab-All	97.0	10.9	4.9	5.8	48.6	12.4	8.4	20.0	1.2	1.5	1.8
Rajasthan-All	63.2	15.0	8.6	6.0	65.6	10.6	6.9	4.9	1.0	1.0	1.1
Sikkim-All	39.6	18.4	9.3	8.6	46.5	6.0	5.9	4.5	1.0	1.7	0.5
Tamil Nadu-All	48.6	39.6	22.4	13.2	31.6	17.1	11.9	3.2	1.1	2.3	0.3
Telangana-All	59.1	44.7	21.7	19.5	41.7	20.5	8.5	3.5	1.1	1.4	0.3
The Six Minor Territories-All	58.7	24.2	14.6	9.0	53.5	16.3	7.4	7.8	0.9	1.3	0.8
Tripura-All	53.0	25.1	12.0	12.6	28.3	7.5	9.8	2.4	2.5	1.7	0.7
Uttar Pradesh-All	123.6	22.1	10.1	10.5	35.2	15.5	13.7	12.6	1.8	2.4	2.2
Uttarakhand-All	56.4	15.7	8.2	6.7	47.0	11.8	10.5	11.2	1.5	2.4	1.9
W Bengal-All	105.1	38.7	12.2	21.5	30.0	19.0	14.0	3.0	1.6	1.9	0.5
India-Rural	81.5	28.5	13.5	12.8	41.9	14.9	11.1	5.8	1.7	1.8	1.0
Andhra Pradesh-Rural	60.2	47.4	21.3	22.1	37.0	20.3	8.4	3.8	1.4	1.5	0.3
Arunachal Pradesh-Rural	28.7	20.1	10.0	9.4	36.9	6.4	10.0	2.6	2.3	1.6	0.4
Assam-Rural	55.1	22.4	12.3	9.4	30.0	7.9	13.3	2.5	3.6	1.8	0.6
Bihar-Rural	126.8	25.8	12.2	11.1	27.1	12.1	17.9	4.7	2.8	2.5	1.3
Chhattisgarh-Rural	69.9	51.5	18.4	28.6	48.1	28.3	7.4	1.8	0.7	1.0	0.4
Delhi-Rural	124.2	18.0	6.9	10.6	43.5	20.3	9.5	22.5	0.9	1.9	1.8
Goa-Rural	33.0	22.9	14.0	7.6	57.8	9.7	6.6	1.5	1.0	1.0	0.3
Gujarat-Rural	59.1	18.5	9.9	7.8	71.6	12.6	5.5	1.1	0.5	0.7	0.4
Haryana-Rural	103.7	15.3	6.4	8.6	47.3	16.4	8.9	20.7	1.0	1.7	1.8
Himachal Pradesh-Rural	52.8	16.6	9.9	5.9	52.2	12.5	10.0	8.9	2.0	1.8	1.3
Jammu & Kashmir-Rural	49.8	8.2	5.0	3.2	59.6	4.5	10.6	1.0	2.3	1.2	0.9
Jharkhand-Rural	86.1	41.0	14.4	21.1	31.9	17.8	13.0	2.6	2.4	1.8	0.8
Karnataka-Rural	39.4	33.4	20.1	11.4	41.5	12.5	9.4	4.4	2.1	1.6	0.6
Kerala-Rural	36.0	29.8	18.4	9.9	41.2	9.9	11.0	1.8	1.7	1.7	0.5
Madhya Pradesh-Rural	64.1	26.6	12.8	12.0	51.8	14.0	9.2	3.7	1.6	1.4	1.2
Maharashtra-Rural	52.9	28.0	13.7	12.4	52.9	13.1	8.2	2.1	1.0	1.4	0.4
Manipur-Rural	32.2	23.6	13.2	9.8	32.5	7.7	11.6	2.5	3.3	1.5	0.5
Meghalaya-Rural	49.2	26.7	14.6	11.3	27.1	8.4	13.9	2.4	4.0	1.9	0.9
Mizoram-Rural	30.5	23.3	10.7	12.1	33.7	7.5	10.1	2.0	2.2	1.5	0.4
Nagaland-Rural	34.0	23.1	13.6	8.8	31.8	8.4	13.3	2.6	3.8	1.5	0.6
Orissa-Rural	76.3	49.6	22.2	22.8	37.9	23.5	9.1	1.8	1.5	1.4	0.4
Punjab-Rural	96.9	10.8	4.8	5.7	48.7	12.2	8.3	19.8	1.2	1.5	1.8
Rajasthan-Rural	62.8	14.9	8.6	6.0	65.7	10.5	6.8	4.9	1.0	0.9	1.1
Sikkim-Rural	39.7	18.4	9.3	8.6	46.5	6.0	5.9	4.5	1.0	1.7	0.5
Tamil Nadu-Rural	48.2	39.7	22.8	13.0	31.2	17.0	11.8	3.2	1.2	2.4	0.3
Telangana-Rural	59.1	44.9	21.1	20.2	42.1	20.7	8.4	3.4	1.1	1.3	0.3
The Six Minor Territories-Rural	41.4	27.4	17.1	9.6	54.5	13.9	6.0	0.7	0.5	1.1	0.3
Tripura-Rural	52.5	25.2	12.0	12.6	28.3	7.5	9.7	2.3	2.4	1.7	0.7
Uttar Pradesh-Rural	123.1	22.0	10.1	10.5	35.1	15.4	13.8	12.5	1.8	2.5	2.3
Uttarakhand-Rural	55.5	15.6	8.2	6.7	47.0	11.7	10.5	11.1	1.5	2.3	1.9
W Bengal-Rural	103.2	38.7	12.3	21.4	30.5	19.0	13.8	3.0	1.7	1.9	0.5
India-Urban	82.0	30.5	14.7	13.3	42.7	16.2	10.4	5.8	1.3	1.7	0.8
Andhra Pradesh-Urban	68.8	49.5	21.6	23.6	37.7	23.0	8.1	3.7	1.2	1.5	0.2
Arunachal Pradesh-Urban	31.7	20.4	10.4	9.5	38.4	5.7	7.5	3.1	1.6	1.7	0.4
Assam-Urban	62.6	23.5	13.4	9.4	28.3	8.2	14.1	2.5	3.7	1.8	0.7
Bihar-Urban	126.2	25.2	12.1	10.6	26.6	11.9	18.3	4.8	2.9	2.6	1.3
Chhattisgarh-Urban	84.8	51.7	19.5	27.4	48.9	28.9	7.4	1.7	0.6	1.0	0.4
Delhi-Urban	141.5	18.2	6.8	10.9	43.9	20.5	9.6	21.5	0.9	1.9	1.8
Goa-Urban	37.6	22.7	13.9	7.6	58.2	9.6	6.4	1.4	0.9	1.0	0.3
Gujarat-Urban	64.7	17.9	9.2	7.8	69.6	12.1	6.3	1.3	0.5	0.9	0.5
Haryana-Urban	106.9	17.9	6.9	10.5	45.8	19.3	9.6	19.3	1.0	1.9	1.8
Himachal Pradesh-Urban	48.0	19.3	12.0	6.5	53.2	14.5	9.6	8.2	1.9	1.8	1.2
Jammu & Kashmir-Urban	56.8	7.5	4.7	2.7	60.9	4.2	10.9	0.7	2.3	1.1	0.8
Jharkhand-Urban	91.9	42.2	15.5	20.2	31.6	17.9	12.5	2.4	2.2	1.7	0.7
Karnataka-Urban	46.0	35.6	21.7	11.6	37.0	12.7	9.7	4.2	2.3	2.2	0.6
Kerala-Urban	36.4	29.3	17.6	10.5	42.1	9.3	10.1	1.6	1.6	1.5	0.4
Madhya Pradesh-Urban	70.0	25.3	12.1	11.6	53.1	13.2	9.1	3.4	1.5	1.4	1.2
Maharashtra-Urban	64.7	28.2	17.0	9.8	57.7	14.4	6.3	1.1	0.7	1.4	0.3
Manipur-Urban	35.5	23.7	13.4	9.7	32.3	7.7	11.9	2.6	3.4	1.5	0.6
Meghalaya-Urban	48.9	27.7	15.8	11.0	27.1	8.6	13.6	2.2	4.2	1.9	0.9
Mizoram-Urban	41.3	23.5	11.8	11.3	30.1	7.7	10.8	2.4	3.1	1.7	0.6
Nagaland-Urban	36.4	24.0	14.2	8.9	31.7	8.5	12.7	2.6	3.9	1.5	0.6
Orissa-Urban	83.9	49.9	22.7	22.4	37.5	24.9	9.5	1.6	1.7	1.4	0.4
Punjab-Urban	97.1	11.8	5.5	6.0	48.1	13.0	8.6	19.7	1.3	1.6	1.8
Rajasthan-Urban	68.7	15.4	9.0	6.1	63.1	11.0	7.8	5.3	1.2	1.0	1.3
Sikkim-Urban	44.2	18.7	9.4	8.7	45.5	6.2	6.2	4.5	1.0	1.8	0.5

Tamil Nadu-Urban	49.3	39.1	21.0	13.9	32.8	17.0	12.1	3.2	0.9	2.2	0.3
Telangana-Urban	59.2	44.1	23.6	17.3	40.3	19.8	8.8	3.8	1.1	1.4	0.3
The Six Minor Territories-Urban	73.1	30.3	15.3	13.5	45.1	22.4	9.9	11.1	1.1	1.8	1.0
Tripura-Urban	51.9	24.9	11.8	12.6	28.6	7.5	9.7	2.3	2.3	1.6	0.6
Uttar Pradesh-Urban	130.1	22.2	9.8	11.1	36.8	17.0	13.2	13.9	1.7	2.3	2.1
Uttarakhand-Urban	75.6	16.4	8.6	7.0	45.7	12.7	11.1	11.4	1.6	2.5	1.9
W Bengal-Urban	111.9	38.6	11.9	21.7	28.0	19.0	14.9	2.9	1.4	2.0	0.4

Appendix Table C.7. Population-Weighted Percentage of Ambient PM_{2.5} (µg/m³) Attributable to Emissions of Coal and Other Sectors by State (2050) (S3)

	All Ambient PM _{2.5} (mean)	Coal Related				Noncoal Related					
		Total Coal	Industrial Coal	Powerplant Coal	Dust	AFCI Dust	Domestic Biomass	Open Burning	Transportation	Brick Production	Distributed Diesel
India-All	48.5	18.3	15.2	2.7	47.3	6.3	0.8		3	1	1.5
Andhra Pradesh-All	32.9	31.6	27.2	3.8	38.0	8.1	0.6		2.4	1.1	0.5
Arunachal Pradesh-All	20.2	10.3	9.7	0.7	44.7	2.9	0.6		2.2	0.7	0.4
Assam-All	37.0	13.2	12.4	0.8	36.0	3.8	0.8		3.4	0.8	0.6
Bihar-All	73.5	18.2	15.3	2.6	31.5	6.2	1.2		6.8	1.6	2.1
Chhattisgarh-All	36.6	29.6	19.9	7.2	46.9	10.3	0.6		1.3	0.7	0.8
Delhi-All	70.2	8.4	5.5	2.8	54.3	9.9	0.8		1.1	1.0	2.9
Goa-All	26.6	12.2	11.5	0.5	66.6	3.3	0.4		0.7	0.4	0.3
Gujarat-All	47.2	7.3	6.0	1.1	77.3	3.8	0.3		0.5	0.3	0.5
Haryana-All	56.3	7.5	5.2	2.2	59.3	7.4	0.7		1.4	0.9	2.6
Himachal Pradesh-All	33.0	8.0	7.0	0.9	63.1	5.6	0.6		2.0	0.8	1.5
Jammu & Kashmir-All	39.3	3.7	3.4	0.4	69.8	2.4	0.5		1.9	0.4	0.7
Jharkhand-All	48.5	28.3	21.4	5.4	32.7	7.4	0.9		5.1	1.2	1.4
Karnataka-All	25.7	24.8	23.2	1.6	48.0	5.2	0.6		2.9	1.0	0.7
Kerala-All	24.7	19.0	18.1	0.8	48.3	3.5	0.8		2.0	0.8	0.5
Madhya Pradesh-All	42.8	14.5	12.1	2.2	60.8	5.8	0.6		2.1	0.7	1.5
Maharashtra-All	38.6	15.1	13.2	1.8	61.7	4.8	0.5		1.3	0.7	0.5
Manipur-All	22.4	13.6	13.0	0.7	39.4	3.6	0.7		3.0	0.7	0.5
Meghalaya-All	32.2	16.6	15.4	1.2	32.8	4.1	0.9		4.0	1.0	0.9
Mizoram-All	21.4	11.1	10.2	0.8	40.2	3.2	0.7		1.8	0.7	0.4
Nagaland-All	23.1	14.4	13.7	0.7	38.2	3.9	0.8		3.7	0.7	0.6
Orissa-All	40.3	31.2	25.4	4.4	35.8	9.3	0.7		2.6	1.0	0.7
Punjab-All	57.7	5.2	3.9	1.2	62.0	4.8	0.6		1.5	0.7	2.2
Rajasthan-All	47.8	6.6	5.6	0.9	74.5	4.1	0.4		1.1	0.4	1.0
Sikkim-All	28.8	9.1	8.5	0.7	54.9	2.7	0.3		1.0	0.8	0.5
Tamil Nadu-All	28.9	31.9	28.8	2.2	31.0	6.8	0.8		2.5	1.4	0.6
Telangana-All	33.7	29.1	24.8	3.9	44.2	7.4	0.6		1.9	0.8	0.5
The Six Minor Territories-All	35.8	11.8	10.2	1.4	60.4	6.0	0.5		1.1	0.6	1.1
Tripura-All	36.7	12.6	11.6	1.1	33.4	3.2	0.6		2.2	0.8	0.6
Uttar Pradesh-All	67.1	14.3	11.6	2.3	42.8	7.4	1.0		4.1	1.5	3.7
Uttarakhand-All	31.9	8.4	7.2	1.0	58.0	5.6	0.7		1.8	1.1	2.2
W Bengal-All	57.9	26.6	18.0	7.2	27.1	8.1	1.0		4.1	1.3	1.0
India-Rural	48.5	18.1	15.0	2.6	47.4	6.2	0.8		3.0	1.0	1.5
Andhra Pradesh-Rural	32.5	31.5	27.2	3.7	38.2	7.9	0.6		2.4	1.1	0.5
Arunachal Pradesh-Rural	20.3	10.3	9.7	0.7	44.6	3.0	0.6		2.2	0.7	0.4
Assam-Rural	36.9	13.2	12.4	0.8	36.0	3.8	0.8		3.4	0.8	0.6
Bihar-Rural	73.4	18.2	15.3	2.6	31.5	6.2	1.2		6.8	1.6	2.1
Chhattisgarh-Rural	36.2	29.6	19.9	7.2	46.8	10.3	0.6		1.3	0.7	0.8
Delhi-Rural	62.3	8.5	5.6	2.7	54.0	9.8	0.8		1.1	1.0	2.9
Goa-Rural	25.1	12.2	11.6	0.6	66.4	3.3	0.4		0.7	0.4	0.3
Gujarat-Rural	46.5	7.3	6.0	1.1	77.6	3.8	0.3		0.5	0.3	0.4
Haryana-Rural	56.3	7.3	5.2	2.1	59.8	7.1	0.7		1.4	0.9	2.6
Himachal Pradesh-Rural	32.9	8.1	7.0	0.9	63.2	5.7	0.6		2.0	0.8	1.5
Jammu & Kashmir-Rural	40.3	3.7	3.3	0.4	69.4	2.4	0.5		1.9	0.4	0.7
Jharkhand-Rural	48.2	28.2	21.3	5.4	32.8	7.4	0.9		5.1	1.2	1.4
Karnataka-Rural	25.4	24.4	22.8	1.6	48.6	5.2	0.6		2.8	1.0	0.7
Kerala-Rural	24.5	19.5	18.6	0.8	47.4	3.6	0.8		2.0	0.9	0.5
Madhya Pradesh-Rural	42.6	14.6	12.1	2.2	60.8	5.8	0.6		2.1	0.7	1.5
Maharashtra-Rural	36.7	15.2	13.2	1.9	61.3	4.8	0.5		1.5	0.7	0.6
Manipur-Rural	22.3	13.6	12.9	0.7	39.4	3.6	0.7		3.0	0.7	0.5
Meghalaya-Rural	31.7	16.6	15.5	1.2	33.0	4.1	0.9		4.0	1.0	0.9
Mizoram-Rural	21.3	11.1	10.2	0.8	40.2	3.2	0.7		1.8	0.7	0.4
Nagaland-Rural	22.9	14.4	13.7	0.7	38.2	3.9	0.8		3.7	0.7	0.6
Orissa-Rural	40.2	31.1	25.4	4.4	35.8	9.2	0.7		2.6	1.0	0.7
Punjab-Rural	58.0	5.1	3.9	1.2	62.0	4.8	0.6		1.5	0.7	2.2
Rajasthan-Rural	47.5	6.6	5.6	1.0	74.6	4.1	0.4		1.1	0.4	1.0
Sikkim-Rural	28.9	9.1	8.5	0.7	54.9	2.7	0.3		1.0	0.8	0.5
Tamil Nadu-Rural	28.7	32.3	29.2	2.2	30.4	6.8	0.8		2.6	1.5	0.7
Telangana-Rural	33.5	28.9	24.3	4.0	44.5	7.5	0.6		1.9	0.8	0.5
The Six Minor Territories-Rural	30.0	12.7	11.6	1.0	59.6	4.1	0.4		0.6	0.5	0.3
Tripura-Rural	36.3	12.6	11.6	1.1	33.4	3.2	0.6		2.2	0.8	0.6
Uttar Pradesh-Rural	66.9	14.4	11.6	2.3	42.7	7.3	1.0		4.1	1.5	3.7
Uttarakhand-Rural	31.4	8.3	7.2	1.0	58.1	5.5	0.7		1.8	1.1	2.2
W Bengal-Rural	56.9	26.5	18.0	7.1	27.9	8.1	1.0		4.1	1.3	1.0
India-Urban	48.5	19.4	16.0	2.9	47.0	6.7	0.7		2.3	1.0	1.2
Andhra Pradesh-Urban	35.8	32.4	27.2	4.2	36.7	9.0	0.6		2.2	1.1	0.5
Arunachal Pradesh-Urban	23.1	10.4	9.8	0.6	45.9	2.6	0.4		1.5	0.7	0.4
Assam-Urban	41.4	14.5	13.7	0.8	33.7	4.0	0.9		3.6	0.9	0.7
Bihar-Urban	73.0	18.1	15.3	2.4	31.1	6.2	1.3		7.0	1.6	2.2
Chhattisgarh-Urban	44.1	29.5	20.1	6.6	47.3	10.4	0.6		1.2	0.7	0.7
Delhi-Urban	71.9	8.4	5.5	2.8	54.2	10.0	0.8		1.1	1.0	2.9
Goa-Urban	28.8	12.1	11.5	0.5	66.8	3.3	0.4		0.7	0.4	0.3
Gujarat-Urban	50.7	7.2	6.0	1.1	76.2	3.9	0.3		0.5	0.3	0.5
Haryana-Urban	56.3	8.2	5.4	2.6	56.4	9.4	0.7		1.2	1.0	2.7
Himachal Pradesh-Urban	28.9	9.2	8.0	1.1	62.9	6.2	0.6		1.9	0.8	1.4
Jammu & Kashmir-Urban	46.2	3.4	3.1	0.3	70.7	2.2	0.5		1.8	0.4	0.6
Jharkhand-Urban	52.0	30.0	23.2	5.0	31.5	7.3	0.9		4.9	1.2	1.3
Karnataka-Urban	29.0	28.2	26.6	1.6	42.4	5.9	0.7		3.4	1.3	0.8
Kerala-Urban	25.2	18.0	17.1	0.8	49.9	3.3	0.7		1.9	0.8	0.5
Madhya Pradesh-Urban	47.7	13.7	11.4	2.1	62.3	5.4	0.5		1.9	0.7	1.3
Maharashtra-Urban	46.9	14.8	13.3	1.4	63.5	4.8	0.4		0.9	0.6	0.4
Manipur-Urban	24.5	13.8	13.2	0.7	39.3	3.7	0.8		3.1	0.7	0.5
Meghalaya-Urban	31.7	17.8	16.7	1.1	32.7	4.1	0.9		4.3	1.0	0.9
Mizoram-Urban	28.5	11.8	11.0	0.8	35.9	3.4	0.7		2.6	0.8	0.6
Nagaland-Urban	24.6	14.9	14.2	0.7	38.0	3.9	0.8		3.7	0.8	0.6
Orissa-Urban	43.8	31.6	25.4	4.7	33.7	10.0	0.7		3.1	1.0	0.7
Punjab-Urban	57.1	5.6	4.3	1.3	61.3	5.2	0.6		1.6	0.7	2.3
Rajasthan-Urban	51.1	6.9	5.9	1.0	73.1	4.6	0.4		1.3	0.4	1.2
Sikkim-Urban	31.9	9.4	8.7	0.7	53.7	2.8	0.3		1.1	0.8	0.6

Tamil Nadu-Urban	29.1	30.6	27.5	2.2	33.3	6.8	0.8	2.0	1.3	0.5
Telangana-Urban	34.2	29.7	26.2	3.4	42.8	7.4	0.6	2.0	0.9	0.5
The Six Minor Territories-Urban	38.9	17.7	14.0	3.2	49.2	9.4	0.7	1.8	1.0	1.5
Tripura-Urban	36.0	12.3	11.3	1.1	33.8	3.2	0.6	2.1	0.8	0.5
Uttar Pradesh-Urban	69.5	13.8	10.8	2.6	44.6	8.2	1.0	3.7	1.4	3.5
Uttarakhand-Urban	43.5	8.9	7.6	1.0	56.7	6.1	0.7	2.0	1.2	2.3
W Bengal-Urban	61.4	26.9	17.8	7.8	24.1	8.1	1.1	3.9	1.4	0.9