



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 G. Attributable Burden Estimates in Deaths and DALYs by
Sector, Scenario, and Urban/Rural Area**

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Appendix Table G.1. Total Numbers of Deaths Attributable to All Ambient PM_{2.5} and to Individual Source Sectors in 2015 and 2050, and for All Ambient PM_{2.5} Only in 2030, for Three Future Scenarios

Source Sector	Year	Scenario	All India	Rural India	Urban India
All ambient PM _{2.5}	2015	STD	1,090,400	815,300	275,000
	2030	REF	1,662,500	1,265,200	397,300
	2030	S2	1,560,100	1,185,800	374,300
	2030	S3	1,287,600	974,600	313,000
	2050	REF	3,642,400	2,921,000	721,500
	2050	S2	3,200,500	2,563,900	636,600
	2050	S3	2,449,100	1,953,000	496,100
Residential biomass	2015	STD	267,700	204,800	62,900
	2050	REF	526,400	430,100	96,300
	2050	S2	366,800	299,300	67,500
	2050	S3	19,300	15,700	3,600
Total coal	2015	STD	169,300	124,500	44,800
	2050	REF	1,299,300	1,032,200	267,100
	2050	S2	894,700	708,600	186,100
	2050	S3	428,600	338,100	90,500
Industrial coal	2015	STD	82,100	60,200	21,900
	2050	REF	365,500	287,900	77,600
	2050	S2	413,400	325,400	88,000
	2050	S3	351,200	276,700	74,400
Powerplant coal	2015	STD	82,900	61,400	21,500
	2050	REF	828,800	660,700	168,100
	2050	S2	410,900	327,400	83,500
	2050	S3	65,000	51,300	13,700
Open burning	2015	STD	66,200	50,500	15,700
	2050	REF	203,437	168,700	34,700
	2050	S2	229,600	190,300	39,400
	2050	S3	0	0	0
Transportation	2015	STD	23,100	17,400	5,600
	2050	REF	33,500	27,600	5,900
	2050	S2	52,500	43,800	8,800
	2050	S3	76,700	64,600	12,100
Brick production	2015	STD	24,100	18,100	6,000
	2050	REF	87,600	71,200	16,300
	2050	S2	59,900	48,700	11,200
	2050	S3	26,400	21,500	4,900
Distributed diesel	2015	STD	20,400	16,200	4,200
	2050	REF	31,000	26,500	4,500
	2050	S2	39,300	33,500	5,800
	2050	S3	45,200	38,600	6,600

Total dust ^a	2015	STD	412,500	303,700	108,900
	2050	REF	1,479,600	1,171,200	308,400
	2050	S2	1,310,900	1,036,700	274,200
	2050	S3	1,156,200	914,800	241,400
Anthropogenic dust ^b	2015	STD	99,900	74,000	25,900
	2050	REF	742,800	590,700	152,100
	2050	S2	496,000	394,200	101,700
	2050	S3	158,600	126,200	32,400

^a Total dust includes anthropogenic and windblown mineral dust.

^b Anthropogenic dust includes only anthropogenic fugitive, combustion, and industrial dust.

Appendix Table G.2. Total Numbers of DALYs Attributable to Ambient PM_{2.5} Overall and to Individual Source Sectors in 2015 and 2050, and for all ambient PM_{2.5} only in 2030, for Three Future Scenarios

Source Sector	Year	Scenario	All India	India Rural	India Urban
All ambient PM _{2.5}	2015	STD	29,609,600	22,411,400	7,198,200
	2030	REF	38,699,400	29,407,800	9,291,700
	2030	S2	36,275,800	27,533,200	8,742,600
	2030	S3	29,820,000	22,539,700	7,280,300
	2050	REF	73,760,100	59,493,400	14,266,700
	2050	S2	64,753,300	52,180,800	12,572,500
	2050	S3	49,445,500	39,683,900	9,761,700
Domestic biomass	2015	STD	7,373,200	5,724,100	1,649,000
	2050	REF	10,696,300	8,794,900	1,901,500
	2050	S2	7,450,000	6,120,400	1,329,600
	2050	S3	391,400	320,900	70,500
Total coal	2015	STD	4,574,000	3,409,100	1,164,800
	2050	REF	26,345,300	21,060,000	5,285,300
	2050	S2	18,117,500	14,440,500	3,677,100
	2050	S3	8,664,500	6,882,900	1,781,600
Industrial coal	2015	STD	2,198,100	1,629,300	568,700
	2050	REF	7,384,100	5,847,400	1,536,800
	2050	S2	8,345,800	6,605,400	1,740,400
	2050	S3	7,091,600	5,624,400	1,467,100
Powerplant coal	2015	STD	2,259,000	1,698,100	561,000
	2050	REF	16,830,800	3,326,700	13,504,100
	2050	S2	8,342,033	6,694,000	1,648,100
	2050	S3	1,317,400	1,050,700	266,700
Open burning	2015	STD	1,809,100	1,391,700	417,400
	2050	REF	4,167,100	3,467,800	699,300
	2050	S2	4,704,800	3,912,200	792,500
	2050	S3	No data	No data	No data
Transportation	2015	STD	629,300	481,900	147,500
	2050	REF	678,900	561,700	117,200
	2050	S2	1,067,900	893,900	174,000
	2050	S3	1,564,700	1,325,900	238,700
Brick production	2015	STD	656,200	501,000	155,200
	2050	REF	1,780,700	1,457,700	323,000
	2050	S2	1,217,400	996,800	220,600
	2050	S3	537,400	440,900	96,400
Distributed diesel	2015	STD	567,700	456,900	110,800
	2050	REF	637,200	546,500	90,700
	2050	S2	808,200	691,900	116,300
	2050	S3	933,100	800,500	132,600
Total dust ^a	2015	STD	11,095,200	8,242,700	2,852,600

	2050	REF	29,885,200	23,786,500	6,098,700
	2050	S2	26,424,000	21,007,700	5,416,300
	2050	S3	23,265,700	18,508,000	4,757,700
AFCI dust ^b	2015	STD	2,717,600	2,036,900	680,700
	2050	REF	15,114,200	12,098,400	3,015,800
	2050	S2	10,080,100	8,062,100	2,018,000
	2050	S3	3,224,500	2,582,000	642,600

^a Total dust includes anthropogenic fugitive, combustion, and industrial (AFCI) dust and windblown mineral dust.

^b AFCI dust includes only anthropogenic fugitive, combustion, and industrial dust.